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**Dynegy Midwest Generation, LLC**

Date

**January 31, 2023**

Project No.

**1940102203-010**

**2022 ANNUAL GROUNDWATER  
MONITORING AND CORRECTIVE  
ACTION REPORT**  
**ASH POND NO. 2**  
**HENNEPIN POWER PLANT**  
**HENNEPIN, ILLINOIS**  
**CCR UNIT 802**



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**2022 ANNUAL GROUNDWATER MONITORING AND  
CORRECTIVE ACTION REPORT  
HENNEPIN POWER PLANT ASH POND NO. 2**

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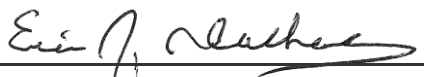
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## ACRONYMS AND ABBREVIATIONS

|           |                                              |
|-----------|----------------------------------------------|
| §         | Section                                      |
| 35 I.A.C. | Title 35 of the Illinois Administrative Code |
| 40 C.F.R. | Title 40 of the Code of Federal Regulations  |
| AP2       | Ash Pond No. 2                               |
| CCR       | coal combustion residuals                    |
| CMA       | Corrective Measures Assessment               |
| GWPS      | groundwater protection standard              |
| HPP       | Hennepin Power Plant                         |
| IEPA      | Illinois Environmental Protection Agency     |
| NA        | not applicable                               |
| NRT/OBG   | Natural Resource Technology, an OBG Company  |
| No.       | Number                                       |
| OBG       | OBG, Part of Ramboll                         |
| Ramboll   | Ramboll Americas Engineering Solutions, Inc. |
| SAP       | Sampling and Analysis Plan                   |
| SSI       | statistically significant increase           |
| SSL       | statistically significant level              |
| TBD       | to be determined                             |



## EXECUTIVE SUMMARY

This report has been prepared to provide the information required by Title 40 of the Code of Federal Regulations (40 C.F.R.) Section (§) 257.90(e) for Ash Pond Number (No.) 2 (AP2) located at the Hennepin Power Plant (HPP) near Hennepin, Illinois.

Groundwater is being monitored at AP2 in accordance with the monitoring program requirements specified in 40 C.F.R. § 257.95. Assessment monitoring was initiated at AP2 on April 9, 2018.

No changes were made to the monitoring system in 2022 (no wells were installed or decommissioned). As discussed in Section 5 of this annual report, the monitoring well network will be updated in 2023 to use the same monitoring well network developed for compliance with Title 35 of the Illinois Administrative Code (35 I.A.C.) § 845, which was submitted to the Illinois Environmental Protection Agency (IEPA) via an operating permit application.

The following Statistically Significant Levels (SSLs) of 40 C.F.R. § 257 Appendix IV parameters over groundwater protection standards (GWPSs) were determined:

- Lithium at well 18S
- Molybdenum at wells 03R and 18S

As required by 40 C.F.R. § 257.95(g)(3)(i), a Corrective Measures Assessment (CMA) (OBG, Part of Ramboll [OBG], 2019) following the requirements of 40 C.F.R. § 257.96 was initiated on May 8, 2019 and completed on September 5, 2019.

A public meeting was held on December 17, 2019 at the St. Margaret's Hospital Presentation Room in Spring Valley, Illinois to discuss the results of the CMA in accordance with 40 C.F.R. § 257.96(e).

Remedy selection is in progress and the associated semiannual reports required by 40 C.F.R. § 257.97(a) are being completed.

## 1. INTRODUCTION

This report has been prepared by Ramboll Americas Engineering Solutions, Inc. (Ramboll) on behalf of Dynegy Midwest Generation, LLC, to provide the information required by 40 C.F.R. § 257.90(e) for AP2 located at the HPP near Hennepin, Illinois.

In accordance with 40 C.F.R. § 257.90(e), the owner or operator of a coal combustion residuals (CCR) unit must prepare an Annual Groundwater Monitoring and Corrective Action Report for the preceding calendar year that documents the status of the Groundwater Monitoring and Corrective Action Program for the CCR unit, summarizes key actions completed, describes any problems encountered, discusses actions to resolve the problems, and projects key activities for the upcoming year. At a minimum, the annual report must contain the following information, to the extent available:

1. A map, aerial image, or diagram showing the CCR unit and all background (or upgradient) and downgradient monitoring wells, to include the well identification numbers, that are part of the groundwater monitoring program for the CCR unit.
2. Identification of any monitoring wells that were installed or decommissioned during the preceding year, along with a narrative description of why those actions were taken.
3. In addition to all the monitoring data obtained under §§ 257.90 through 257.98, a summary including the number of groundwater samples that were collected for analysis for each background and downgradient well, the dates the samples were collected, and whether the sample was required by the detection monitoring or assessment monitoring programs.
4. A narrative discussion of any transition between monitoring programs (e.g., the date and circumstances for transitioning from detection monitoring to assessment monitoring in addition to identifying the constituent(s) detected at a statistically significant increase relative to background levels).
5. Other information required to be included in the annual report as specified in §§ 257.90 through 257.98.
6. A section at the beginning of the annual report that provides an overview of the current status of groundwater monitoring and corrective action programs for the CCR unit. At a minimum, the summary must specify all of the following:
  - i. At the start of the current annual reporting period, whether the CCR unit was operating under the detection monitoring program in §257.94 or the assessment monitoring program in §257.95.
  - ii. At the end of the current annual reporting period, whether the CCR unit was operating under the detection monitoring program in §257.94 or the assessment monitoring program in §257.95.
  - iii. If it was determined that there was a statistically significant increase over background for one or more constituents listed in Appendix III of §257 pursuant to §257.94(e):
    - A. Identify those constituents listed in Appendix III of §257 and the names of the monitoring wells associated with such an increase.
    - B. Provide the date when the assessment monitoring program was initiated for the CCR unit.

- iv. If it was determined that there was a statistically significant level above the groundwater protection standard for one or more constituents listed in Appendix IV of §257 pursuant to §257.95(g) include all of the following:
  - A. Identify those constituents listed in Appendix IV of §257 and the names of the monitoring wells associated with such an increase.
  - B. Provide the date when the assessment of corrective measures was initiated for the CCR unit.
  - C. Provide the date when the public meeting was held for the assessment of corrective measures for the CCR unit.
  - D. Provide the date when the assessment of corrective measures was completed for the CCR unit.
- v. Whether a remedy was selected pursuant to §257.97 during the current annual reporting period, and if so, the date of remedy selection.
- vi. Whether remedial activities were initiated or are ongoing pursuant to § 257.98 during the current annual reporting period.

This report provides the required information for AP2 for calendar year 2022.

## **2. MONITORING AND CORRECTIVE ACTION PROGRAM STATUS**

Groundwater is being monitored at AP2 in accordance with the Assessment Monitoring Program requirements specified in 40 C.F.R. § 257.95. Assessment monitoring was initiated on April 9, 2018. SSLs were determined for AP2 and alternate source evaluations were inconclusive for one or more SSLs. In accordance with 40 C.F.R. § 257.95(g)(5), a CMA following the requirements of 40 C.F.R. § 257.96 was initiated on May 8, 2019 and completed on September 5, 2019.

A public meeting was held on December 17, 2019 at the the St. Margaret's Hospital Presentation Room in Spring Valley, Illinois to discuss the results of the CMA in accordance with 40 C.F.R. § 257.96(e).

AP2 remains in the Assessment Monitoring Program in accordance with 40 C.F.R. § 257.96(b).

### 3. KEY ACTIONS COMPLETED IN 2022

The Assessment Monitoring Program is summarized in **Table A** on the following page. The groundwater monitoring system, including the CCR unit and all background and compliance monitoring wells, is presented in **Figure 1**. No changes were made to the monitoring system in 2022 (no wells were installed or decommissioned). In general, one groundwater sample was collected from each background and compliance well during each monitoring event <sup>1</sup>. All samples were collected and analyzed in accordance with the Sampling and Analysis Plan (SAP) (Natural Resource Technology, an OBG Company [NRT/OBG], 2017a. Potentiometric surface maps for third quarter of 2021 and both monitoring events in 2022 are included in **Figures 2 through 4**. All monitoring data and analytical results obtained under 40 C.F.R. § 257.90 through 257.98 (as applicable) in the third quarter of 2021 and both monitoring events in 2022 are presented in **Tables 1 through 3**. Laboratory reports for the third quarter of 2021 and both monitoring events in 2022 are included in **Appendix A**.

Analytical data were evaluated in accordance with the Statistical Analysis Plan (NRT/OBG, 2017b) to determine any SSLs of Appendix IV parameters over GWPSs and statistically significant increases (SSIs) of Appendix III parameters greater than background values. SSL notifications were completed in accordance with 40 C.F.R. § 257.95(g). SSIs are highlighted in **Table 2**. Statistical background values are provided in **Table 4** and GWPSs in **Table 5**. A flow chart showing the statistical methodology for determination of background values is included as **Appendix B**. A summary of the determination of SSLs is included in **Table 6**. A flow chart showing the statistical methodology for determination of SSLs is included as **Appendix C**.

Alternate source evaluations were inconclusive for one or more of the SSLs. Consequently, and in accordance with 40 C.F.R. § 257.95(g)(5), a CMA following the requirements of 40 C.F.R. § 257.96 was initiated on May 8, 2019 and the required notification completed. The CMA (OBG, 2019) was completed on September 5, 2019 and posted to the publicly accessible website, as required by 40 C.F.R. § 257.107(h)(8).

Remedy selection is in progress and the associated semiannual reports required by 40 C.F.R. § 257.97(a) were completed in March and September of 2022.

<sup>1</sup>

**Table A. 2021-2022 Assessment Monitoring Program Summary**

| Sampling Dates            | Analytical Data Receipt Date | Parameters Collected                              | SSL(s)                                                  | SSL(s) Determination Date | CMA Initiated |
|---------------------------|------------------------------|---------------------------------------------------|---------------------------------------------------------|---------------------------|---------------|
| September 10 and 22, 2021 | October 15, 2021             | Appendix III<br>Appendix IV Detected <sup>1</sup> | Lithium at well 18S;<br>Molybdenum at wells 03R and 18S | January 13, 2022          | NA            |
| March 22-23, 2022         | June 01, 2022                | Appendix III<br>Appendix IV                       | Lithium at well 18S                                     | July 31, 2022             | NA            |
| September 14, 2022        | October 31, 2022             | Appendix III<br>Appendix IV Detected <sup>1</sup> | Lithium at well 18S                                     | January 31, 2023          | NA            |

**Notes:**

NA: not applicable

SSL: Statistically Significant Level

TBD: to be determined

<sup>1</sup> Groundwater sample analysis was limited to Appendix IV parameters detected during previous events in accordance with 40 C.F.R. § 257.95(d)(1).

#### **4. PROBLEMS ENCOUNTERED AND ACTIONS TO RESOLVE THE PROBLEMS**

No problems were encountered with the groundwater monitoring program during 2022. Groundwater samples were collected and analyzed in accordance with the SAP and all data were accepted.

## 5. KEY ACTIVITIES PLANNED FOR 2023

The following key activities are planned for 2023:

- Beginning in 2023, the current monitoring well system will be updated to use the same monitoring well network that was proposed for compliance with 35 I.A.C. § 845 which includes all of the monitoring wells used in the 2022 monitoring system. This is a logical step toward aligning the two regulatory programs. The following documents support the expanded monitoring system for 2023:
  - Hydrogeological Site Characterization Report (Ramboll, 2021), which expands upon the hydrogeologic information provided in the Hydrogeologic Monitoring Plan (NRT/OBG, 2017c)
  - Multi-Site SAP (Ramboll, 2022a)
  - Multi-Site Quality Assurance Project Plan (Ramboll, 2022b)
  - Multi-Site Data Management Plan (Ramboll, 2022c)
  - Multi-Site Statistical Analysis Plan and Certification (Ramboll, 2022d)
  - 40 C.F.R. § 257 Groundwater Monitoring Plan (Ramboll, 2022e), which replaces the monitoring plan provided in the Hydrogeologic Monitoring Plan
  - Monitoring Well Network Certification
- Continuation of the Assessment Monitoring Program with semi-annual sampling scheduled for the first and third quarters of 2023.
- Complete evaluation of analytical data from the compliance wells using background data to determine whether an SSI of Appendix III parameters detected at concentrations greater than background concentrations has occurred.
- Complete evaluation of analytical data from the compliance wells to determine whether an SSL of Appendix IV parameters using GWPSs has occurred.
- Remedy selection will continue; semiannual progress reports required by 40 C.F.R. § 257.97(a) will be completed and posted to the publicly accessible website as required by 40 C.F.R. § 257.107(h)(9).



## 6. REFERENCES

Natural Resource Technology, an OBG Company (NRT/OBG), 2017a. Sampling and Analysis Plan, Hennepin Ash Pond No. 2, Hennepin Power Station, Hennepin, Illinois, Project No. 2285, Revision 0, October 17, 2017.

Natural Resource Technology, an OBG Company (NRT/OBG), 2017b. Statistical Analysis Plan, Baldwin Energy Complex, Havana Power Station, Hennepin Power Station, Wood River Power Station, Dynegy Midwest Generation, LLC, October 17, 2017.

Natural Resource Technology, an OBG Company (NRT/OBG), 2017c. Hydrogeologic Monitoring Plan, Coffeen Power Station, Coffeen, Illinois. October 17, 2017.

OBG, Part of Ramboll, 2019. Corrective Measures Assessment, Ash Pond No. 2, Hennepin Power Station, Hennepin, Illinois, Dynegy Midwest Generation, LLC, September 5, 2019 .

Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2021. Hydrogeological Site Characterization Report, Ash Pond No. 2, Hennepin Power Plant, Hennepin, Illinois. October 21, 2021.

Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2022a. Multi-Site Sampling and Analysis Plan. December 28, 2022.

Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2022b. Multi-Site Quality Assurance Project Plan. December 28, 2022.

Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2022c. Multi-Site Data Management Plan. December 28, 2022.

Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2022d. Multi-Site Statistical Analysis Plan, 40 C.F.R. § 257. December 28, 2022.

Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2022e. 40 C.F.R. § 257 Groundwater Monitoring Plan, Ash Pond No. 2, Hennepin Power Plant, Hennepin, Illinois. December 28, 2022.

## TABLES

**TABLE 1**  
**GROUNDWATER ELEVATIONS**  
2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
HENNEPIN POWER PLANT  
802 - ASH POND NO. 2  
HENNEPIN, IL

| Well ID | Monitored Unit | Well Screen Interval (feet BGS) | Well Type        | Latitude (Decimal Degrees) | Longitude (Decimal Degrees) | Date       | Depth to Groundwater (feet BMP) | Groundwater Elevation (feet NAVD88) |
|---------|----------------|---------------------------------|------------------|----------------------------|-----------------------------|------------|---------------------------------|-------------------------------------|
| 02      | UA             | 45 - 55                         | Water Level Only | 41.30132                   | -89.30915                   | 09/08/2021 | 45.30                           | 446.71                              |
| 02      | UA             | 45 - 55                         | Water Level Only | 41.30132                   | -89.30915                   | 03/21/2022 | 44.26                           | 447.75                              |
| 02      | UA             | 45 - 55                         | Water Level Only | 41.30132                   | -89.30915                   | 09/13/2022 | 44.95                           | 447.06                              |
| 03R     | UA             | 42 - 52                         | Compliance       | 41.30458                   | -89.30869                   | 09/08/2021 | 34.35                           | 447.57                              |
| 03R     | UA             | 42 - 52                         | Compliance       | 41.30458                   | -89.30869                   | 03/21/2022 | 34.21                           | 447.71                              |
| 03R     | UA             | 42 - 52                         | Compliance       | 41.30458                   | -89.30869                   | 09/14/2022 | 34.78                           | 447.14                              |
| 04R     | UA             | 41 - 51                         | Water Level Only | 41.30556                   | -89.30118                   | 09/08/2021 | 38.82                           | 447.78                              |
| 04R     | UA             | 41 - 51                         | Water Level Only | 41.30556                   | -89.30118                   | 03/21/2022 | 38.88                           | 447.72                              |
| 04R     | UA             | 41 - 51                         | Water Level Only | 41.30556                   | -89.30118                   | 09/14/2022 | 39.10                           | 447.50                              |
| 05R     | UA             | 44 - 54                         | Water Level Only | 41.30516                   | -89.30545                   | 09/08/2021 | 40.59                           | 447.84                              |
| 05R     | UA             | 44 - 54                         | Water Level Only | 41.30516                   | -89.30545                   | 03/21/2022 | 40.59                           | 447.84                              |
| 05R     | UA             | 44 - 54                         | Water Level Only | 41.30516                   | -89.30545                   | 09/14/2022 | 41.03                           | 447.40                              |
| 05DR    | UA             | 70 - 75                         | Water Level Only | 41.30516                   | -89.30547                   | 09/08/2021 | 40.67                           | 447.70                              |
| 05DR    | UA             | 70 - 75                         | Water Level Only | 41.30516                   | -89.30547                   | 03/21/2022 | 40.62                           | 447.75                              |
| 05DR    | UA             | 70 - 75                         | Water Level Only | 41.30516                   | -89.30547                   | 09/14/2022 | 41.05                           | 447.32                              |
| 06      | UA             | 28.7 - 38.7                     | Water Level Only | 41.30418                   | -89.31028                   | 09/08/2021 | 22.19                           | 447.56                              |
| 06      | UA             | 28.7 - 38.7                     | Water Level Only | 41.30418                   | -89.31028                   | 03/21/2022 | 21.95                           | 447.80                              |
| 06      | UA             | 28.7 - 38.7                     | Water Level Only | 41.30418                   | -89.31028                   | 09/14/2022 | 22.22                           | 447.53                              |
| 07      | UA             | 67.5 - 77.5                     | Background       | 41.29799                   | -89.30571                   | 09/08/2021 | 67.02                           | 451.25                              |
| 07      | UA             | 67.5 - 77.5                     | Background       | 41.29799                   | -89.30571                   | 03/21/2022 | 67.62                           | 450.65                              |
| 07      | UA             | 67.5 - 77.5                     | Background       | 41.29799                   | -89.30571                   | 09/14/2022 | 66.70                           | 451.57                              |
| 08      | UA             | 51.5 - 61.5                     | Background       | 41.30070                   | -89.30440                   | 09/08/2021 | 53.08                           | 448.30                              |
| 08      | UA             | 51.5 - 61.5                     | Background       | 41.30070                   | -89.30440                   | 03/21/2022 | 53.48                           | 447.90                              |
| 08      | UA             | 51.5 - 61.5                     | Background       | 41.30070                   | -89.30440                   | 09/14/2022 | 53.73                           | 447.65                              |
| 08D     | UA             | 83 - 88                         | Background       | 41.30080                   | -89.30452                   | 09/08/2021 | 53.80                           | 447.54                              |
| 08D     | UA             | 83 - 88                         | Background       | 41.30080                   | -89.30452                   | 03/21/2022 | 53.49                           | 447.85                              |
| 08D     | UA             | 83 - 88                         | Background       | 41.30080                   | -89.30452                   | 09/14/2022 | 53.96                           | 447.38                              |
| 10      | UA             | 48.8 - 58.8                     | Water Level Only | 41.30282                   | -89.30766                   | 09/08/2021 | 49.92                           | 448.11                              |
| 10      | UA             | 48.8 - 58.8                     | Water Level Only | 41.30282                   | -89.30766                   | 03/21/2022 | 50.03                           | 448.00                              |
| 10      | UA             | 48.8 - 58.8                     | Water Level Only | 41.30282                   | -89.30766                   | 09/14/2022 | 50.55                           | 447.48                              |
| 12      | UA             | 49.45 - 59.5                    | Water Level Only | 41.30366                   | -89.30430                   | 09/08/2021 | 50.34                           | 448.10                              |
| 12      | UA             | 49.45 - 59.5                    | Water Level Only | 41.30366                   | -89.30430                   | 03/21/2022 | 50.52                           | 447.92                              |
| 12      | UA             | 49.45 - 59.5                    | Water Level Only | 41.30366                   | -89.30430                   | 09/14/2022 | 50.90                           | 447.54                              |
| 13      | UA             | 67 - 69                         | Water Level Only | 41.30366                   | -89.30432                   | 09/08/2021 | 50.34                           | 448.13                              |

**TABLE 1**  
**GROUNDWATER ELEVATIONS**  
2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
HENNEPIN POWER PLANT  
802 - ASH POND NO. 2  
HENNEPIN, IL

| Well ID | Monitored Unit | Well Screen Interval (feet BGS) | Well Type        | Latitude (Decimal Degrees) | Longitude (Decimal Degrees) | Date       | Depth to Groundwater (feet BMP) | Groundwater Elevation (feet NAVD88) |
|---------|----------------|---------------------------------|------------------|----------------------------|-----------------------------|------------|---------------------------------|-------------------------------------|
| 13      | UA             | 67 - 69                         | Water Level Only | 41.30366                   | -89.30432                   | 03/21/2022 | 50.53                           | 447.94                              |
| 13      | UA             | 67 - 69                         | Water Level Only | 41.30366                   | -89.30432                   | 09/14/2022 | 50.91                           | 447.56                              |
| 15      | UA             | 50.65 - 60.7                    | Water Level Only | 41.30439                   | -89.30200                   | 09/08/2021 | 48.80                           | 448.00                              |
| 15      | UA             | 50.65 - 60.7                    | Water Level Only | 41.30439                   | -89.30200                   | 03/21/2022 | 49.03                           | 447.77                              |
| 15      | UA             | 50.65 - 60.7                    | Water Level Only | 41.30439                   | -89.30200                   | 09/14/2022 | 41.90                           | 454.90                              |
| 16      | UA             | 56 - 66                         | Water Level Only | 41.30168                   | -89.30286                   | 09/08/2021 | 53.55                           | 448.19                              |
| 16      | UA             | 56 - 66                         | Water Level Only | 41.30168                   | -89.30286                   | 03/21/2022 | 53.92                           | 447.82                              |
| 16      | UA             | 56 - 66                         | Water Level Only | 41.30168                   | -89.30286                   | 09/14/2022 | 53.22                           | 448.52                              |
| 17      | UA             | 58.06 - 68.1                    | Water Level Only | 41.30220                   | -89.30060                   | 09/08/2021 | 54.33                           | 452.80                              |
| 17      | UA             | 58.06 - 68.1                    | Water Level Only | 41.30220                   | -89.30060                   | 03/21/2022 | 57.70                           | 449.43                              |
| 17      | UA             | 58.06 - 68.1                    | Water Level Only | 41.30220                   | -89.30060                   | 09/14/2022 | 55.25                           | 451.88                              |
| 18S     | UA             | 40 - 50                         | Compliance       | 41.30494                   | -89.30710                   | 09/08/2021 | 40.12                           | 447.58                              |
| 18S     | UA             | 40 - 50                         | Compliance       | 41.30494                   | -89.30710                   | 03/21/2022 | 39.93                           | 447.77                              |
| 18S     | UA             | 40 - 50                         | Compliance       | 41.30494                   | -89.30710                   | 09/14/2022 | 40.55                           | 447.15                              |
| 18D     | UA             | 71 - 76                         | Compliance       | 41.30492                   | -89.30709                   | 09/08/2021 | 40.28                           | 447.32                              |
| 18D     | UA             | 71 - 76                         | Compliance       | 41.30492                   | -89.30709                   | 03/21/2022 | 39.91                           | 447.69                              |
| 18D     | UA             | 71 - 76                         | Compliance       | 41.30492                   | -89.30709                   | 09/14/2022 | 40.60                           | 447.00                              |
| 19S     | UA             | 40 - 50                         | Water Level Only | 41.30546                   | -89.30320                   | 09/08/2021 | 39.51                           | 447.75                              |
| 19S     | UA             | 40 - 50                         | Water Level Only | 41.30546                   | -89.30320                   | 03/21/2022 | 39.52                           | 447.74                              |
| 19S     | UA             | 40 - 50                         | Water Level Only | 41.30546                   | -89.30320                   | 09/14/2022 | 40.91                           | 446.35                              |
| 19D     | UA             | 67 - 72                         | Water Level Only | 41.30546                   | -89.30320                   | 09/08/2021 | 39.42                           | 447.77                              |
| 19D     | UA             | 67 - 72                         | Water Level Only | 41.30546                   | -89.30320                   | 03/21/2022 | 39.44                           | 447.75                              |
| 19D     | UA             | 67 - 72                         | Water Level Only | 41.30546                   | -89.30320                   | 09/14/2022 | 40.92                           | 446.27                              |
| 40S     | UA             | 40 - 50                         | Water Level Only | 41.30529                   | -89.30436                   | 09/08/2021 | 39.80                           | 447.87                              |
| 40S     | UA             | 40 - 50                         | Water Level Only | 41.30529                   | -89.30436                   | 03/21/2022 | 39.87                           | 447.80                              |
| 40S     | UA             | 40 - 50                         | Water Level Only | 41.30529                   | -89.30436                   | 09/14/2022 | 41.21                           | 446.46                              |
| 45S     | UA             | 35 - 45                         | Compliance       | 41.30375                   | -89.31019                   | 09/08/2021 | 19.80                           | 447.68                              |
| 45S     | UA             | 35 - 45                         | Compliance       | 41.30375                   | -89.31019                   | 03/21/2022 | 19.61                           | 447.87                              |
| 45S     | UA             | 35 - 45                         | Compliance       | 41.30375                   | -89.31019                   | 09/14/2022 | 20.23                           | 447.25                              |
| 46      | UA             | 50 - 60                         | Water Level Only | 41.30395                   | -89.30347                   | 09/08/2021 | 50.53                           | 448.22                              |
| 46      | UA             | 50 - 60                         | Water Level Only | 41.30395                   | -89.30347                   | 03/21/2022 | 50.75                           | 448.00                              |
| 46      | UA             | 50 - 60                         | Water Level Only | 41.30395                   | -89.30347                   | 09/14/2022 | 51.00                           | 447.75                              |
| 47      | UA             | 50 - 60                         | Water Level Only | 41.30330                   | -89.30599                   | 09/08/2021 | 54.83                           | 447.82                              |

**TABLE 1**  
**GROUNDWATER ELEVATIONS**  
2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
HENNEPIN POWER PLANT  
802 - ASH POND NO. 2  
HENNEPIN, IL

| Well ID | Monitored Unit | Well Screen Interval (feet BGS) | Well Type        | Latitude (Decimal Degrees) | Longitude (Decimal Degrees) | Date       | Depth to Groundwater (feet BMP) | Groundwater Elevation (feet NAVD88) |
|---------|----------------|---------------------------------|------------------|----------------------------|-----------------------------|------------|---------------------------------|-------------------------------------|
| 47      | UA             | 50 - 60                         | Water Level Only | 41.30330                   | -89.30599                   | 03/21/2022 | 54.98                           | 447.67                              |
| 47      | UA             | 50 - 60                         | Water Level Only | 41.30330                   | -89.30599                   | 09/14/2022 | 55.39                           | 447.26                              |
| 48      | UA             | 44 - 54                         | Water Level Only | 41.30523                   | -89.30493                   | 09/08/2021 | 39.55                           | 447.91                              |
| 48      | UA             | 44 - 54                         | Water Level Only | 41.30523                   | -89.30493                   | 03/21/2022 | 39.58                           | 447.88                              |
| 48      | UA             | 44 - 54                         | Water Level Only | 41.30523                   | -89.30493                   | 09/14/2022 | 39.99                           | 447.47                              |
| 55      | BR             | 90 - 95                         | Water Level Only | 41.30366                   | -89.30435                   | 03/21/2022 | 50.30                           | 448.16                              |
| 55      | BR             | 90 - 95                         | Water Level Only | 41.30366                   | -89.30435                   | 09/13/2022 | 55.21                           | 443.25                              |

**Notes:**  
BGS = below ground surface  
BMP = below measuring point  
NAVD88 = North American Vertical Datum of 1988  
Monitored Unit Abbreviations:  
BR = bedrock  
UA = uppermost aquifer

**TABLE 2**  
**ANALYTICAL RESULTS - APPENDIX III PARAMETERS**  
 2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
 HENNEPIN POWER PLANT  
 802 - ASH POND NO. 2  
 HENNEPIN, IL

| Well ID             | Well Type  | Date       | Event ID | Boron, total (mg/L) | Calcium, total (mg/L) | Chloride, total (mg/L) | Fluoride, total (mg/L) | pH (field) (SU) | Sulfate, total (mg/L) | Total Dissolved Solids (mg/L) |
|---------------------|------------|------------|----------|---------------------|-----------------------|------------------------|------------------------|-----------------|-----------------------|-------------------------------|
| Background Value(s) | --         | --         | --       | 0.153               | 280                   | 396                    | 0.120                  | 6.6/7.5         | 200                   | 1,520                         |
| 07                  | Background | 09/09/2021 | D9       | 0.0764              | 156                   | 70.0                   | 0.110                  | 6.7             | 52.0                  | 654                           |
| 07                  | Background | 03/22/2022 | D10      | 0.0755              | 140                   | 49.0                   | 0.120                  | 6.8             | 56.0                  | 582                           |
| 07                  | Background | 09/14/2022 | A5D/D11  | 0.0649              | 160                   | 180                    | 0.110                  | 6.7             | 92.0                  | 954                           |
| 08                  | Background | 09/09/2021 | D9       | 0.111               | 188                   | 152                    | 0.1 U                  | 6.6             | 100                   | 876                           |
| 08                  | Background | 03/22/2022 | D10      | 0.124               | 207                   | 247                    | 0.110                  | 6.7             | 153                   | 1,170                         |
| 08                  | Background | 09/14/2022 | A5D/D11  | 0.0900              | 182                   | 224                    | 0.100                  | 6.6             | 115                   | 1,060                         |
| 08D                 | Background | 09/09/2021 | D9       | 0.0965              | 216                   | 250                    | 0.100                  | 6.6             | 123                   | 1,090                         |
| 08D                 | Background | 03/22/2022 | D10      | 0.112               | 208                   | 257                    | 0.110                  | 6.6             | 174                   | 1,210                         |
| 08D                 | Background | 09/14/2022 | A5D/D11  | 0.0951              | 232                   | 297                    | 0.110                  | 6.5             | 198                   | 1,410                         |
| 03R                 | Compliance | 09/10/2021 | A4D      | 0.991               | 87.9                  | 78.0                   | 0.290                  | 7.2             | 86.0                  | 464                           |
| 03R                 | Compliance | 03/23/2022 | A5       | 1.04                | 103                   | 81.0                   | 0.300                  | 7.2             | 90.0                  | 522                           |
| 03R                 | Compliance | 09/14/2022 | A5D      | 0.766               | 91.8                  | 86.0                   | 0.300                  | 7.2             | 78.0                  | 556                           |
| 18S                 | Compliance | 09/10/2021 | A4D      | 2.91                | 108                   | 73.0                   | 0.160                  | 7.2             | 147                   | 548                           |
| 18S                 | Compliance | 03/23/2022 | A5       | 3.23                | 103                   | 71.0                   | 0.180                  | 7.3             | 141                   | 560                           |
| 18S                 | Compliance | 09/14/2022 | A5D      | 2.46                | 96.6                  | 77.0                   | 0.180                  | 7.3             | 115                   | 594                           |
| 18D                 | Compliance | 09/10/2021 | A4D      | 1.35                | 105                   | 81.0                   | 0.150                  | 7.0             | 103                   | 528                           |
| 18D                 | Compliance | 03/23/2022 | A5       | 1.56                | 99.9                  | 78.0                   | 0.170                  | 7.1             | 101                   | 514                           |
| 18D                 | Compliance | 09/14/2022 | A5D      | 1.20                | 102                   | 82.0                   | 0.160                  | 7.1             | 98.0                  | 522                           |
| 45S                 | Compliance | 09/10/2021 | A4D      | 0.251               | 86.6                  | 73.0                   | 0.290                  | 7.2             | 61.0                  | 452                           |
| 45S                 | Compliance | 03/23/2022 | A5       | 0.373               | 97.4                  | 93.0                   | 0.290                  | 7.1             | 70.0                  | 518                           |
| 45S                 | Compliance | 09/14/2022 | A5D      | 0.256               | 86.1                  | 90.0                   | 0.280                  | 7.1             | 63.0                  | 508                           |

**Notes:**  
 Exceedance of Background  
 mg/L = milligrams per liter  
 SU = Standard Units  
 U = The analyte was analyzed for, but was not detected above the level of the adjusted detection limit or quantitation limit, as appropriate. Lab reports may or may not report both the limit of detection and the limit of quantitation. Limits are provided in the electronic data deliverable. As such, the U-flagged result value provided in this table may not match the result value provided in the lab report.

**TABLE 3**  
**ANALYTICAL RESULTS - APPENDIX IV PARAMETERS**  
2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
HENNEPIN POWER PLANT  
802 - ASH POND NO. 2  
HENNEPIN, IL

| Well ID | Well Type  | Date       | Antimony, total<br>(mg/L) | Arsenic, total<br>(mg/L) | Barium, total<br>(mg/L) | Beryllium, total<br>(mg/L) | Cadmium, total<br>(mg/L) | Chromium, total<br>(mg/L) | Cobalt, total<br>(mg/L) | Fluoride, total<br>(mg/L) | Lead, total<br>(mg/L) | Lithium, total<br>(mg/L) | Mercury, total<br>(mg/L) | Molybdenum, total<br>(mg/L) | Radium 226 + 228<br>(pCi/L) | Selenium, total<br>(mg/L) | Thallium, total<br>(mg/L) |
|---------|------------|------------|---------------------------|--------------------------|-------------------------|----------------------------|--------------------------|---------------------------|-------------------------|---------------------------|-----------------------|--------------------------|--------------------------|-----------------------------|-----------------------------|---------------------------|---------------------------|
| 07      | Background | 09/14/2022 | 0.0004 U                  | 0.0004 U                 | 0.162                   | 0.0002 U                   | 0.0002 U                 | 0.0011 J                  | 0.0676                  | 0.110                     | 0.0006 U              | 0.0105                   | 0.00006 U                | 0.0007 J                    | 1.67                        | 0.0006 U                  | 0.001 U                   |
| 08      | Background | 09/14/2022 | 0.0004 U                  | 0.0004 U                 | 0.0864                  | 0.0002 U                   | 0.0002 J                 | 0.0007 U                  | 0.00270                 | 0.100                     | 0.0006 U              | 0.0106                   | 0.00006 U                | 0.0014 J                    | 1.71                        | 0.0006 U                  | 0.001 U                   |
| 08D     | Background | 09/14/2022 | 0.0004 U                  | 0.0004 U                 | 0.118                   | 0.0002 U                   | 0.0004 J                 | 0.0007 U                  | 0.00350                 | 0.110                     | 0.0006 U              | 0.0125                   | 0.00006 U                | 0.0013 J                    | 1.59                        | 0.0006 U                  | 0.001 U                   |
| 03R     | Compliance | 09/10/2021 | 0.001 U                   | 0.001 U                  | 0.0572                  | 0.001 U                    | 0.001 U                  | 0.0015 U                  | 0.001 U                 | 0.290                     | 0.001 U               | 0.0159                   | 0.0002 U                 | 0.144                       | 0                           | 0.00310                   | 0.002 U                   |
| 03R     | Compliance | 03/23/2022 | 0.001 U                   | 0.001 U                  | 0.0651                  | 0.001 U                    | 0.001 U                  | 0.0015 U                  | 0.001 U                 | 0.300                     | 0.001 U               | 0.0290                   | 0.0002 U                 | 0.139                       | 0.840 JB                    | 0.00530                   | 0.002 U                   |
| 03R     | Compliance | 09/14/2022 | 0.0004 U                  | 0.0005 J                 | 0.0592                  | 0.0002 U                   | 0.0002 U                 | 0.0105                    | 0.0002 J                | 0.300                     | 0.0006 U              | 0.0193                   | 0.00006 U                | 0.108                       | 1.95                        | 0.00330                   | 0.001 U                   |
| 18S     | Compliance | 09/10/2021 | 0.001 U                   | 0.001 U                  | 0.0610                  | 0.001 U                    | 0.001 U                  | 0.0015 U                  | 0.001 U                 | 0.160                     | 0.001 U               | 0.0526                   | 0.0002 U                 | 0.155                       | 0.930                       | 0.0198                    | 0.002 U                   |
| 18S     | Compliance | 03/23/2022 | 0.001 U                   | 0.001 U                  | 0.0605                  | 0.001 U                    | 0.001 U                  | 0.00160                   | 0.001 U                 | 0.180                     | 0.001 U               | 0.0632                   | 0.0002 U                 | 0.167                       | 0.885 J                     | 0.0244                    | 0.002 U                   |
| 18S     | Compliance | 09/14/2022 | 0.0004 U                  | 0.0005 J                 | 0.0540                  | 0.0002 U                   | 0.0002 U                 | 0.0373                    | 0.0004 J                | 0.180                     | 0.0006 U              | 0.0479                   | 0.00006 U                | 0.137                       | 0.501                       | 0.0147                    | 0.001 U                   |
| 18D     | Compliance | 09/10/2021 | 0.001 U                   | 0.001 U                  | 0.0723                  | 0.001 U                    | 0.001 U                  | 0.0015 U                  | 0.00250                 | 0.150                     | 0.001 U               | 0.0244                   | 0.0002 U                 | 0.0342                      | 0.833                       | 0.001 U                   | 0.002 U                   |
| 18D     | Compliance | 03/23/2022 | 0.001 U                   | 0.001 U                  | 0.0706                  | 0.001 U                    | 0.001 U                  | 0.0015 U                  | 0.00240                 | 0.170                     | 0.001 U               | 0.0289                   | 0.0002 U                 | 0.0340                      | 0.653                       | 0.001 U                   | 0.002 U                   |
| 18D     | Compliance | 09/14/2022 | 0.0004 U                  | 0.0005 J                 | 0.0704                  | 0.0002 U                   | 0.0004 J                 | 0.0007 U                  | 0.00190                 | 0.160                     | 0.0006 U              | 0.0207                   | 0.00006 U                | 0.0319                      | 1.71                        | 0.0006 U                  | 0.001 U                   |
| 45S     | Compliance | 09/10/2021 | 0.001 U                   | 0.001 U                  | 0.0603                  | 0.001 U                    | 0.001 U                  | 0.0015 U                  | 0.001 U                 | 0.290                     | 0.001 U               | 0.0101                   | 0.0002 U                 | 0.0651                      | --                          | 0.001 U                   | 0.002 U                   |
| 45S     | Compliance | 09/22/2021 | --                        | --                       | --                      | --                         | --                       | --                        | --                      | --                        | --                    | --                       | --                       | --                          | 0.630                       | --                        | --                        |
| 45S     | Compliance | 03/23/2022 | 0.001 U                   | 0.001 U                  | 0.0878                  | 0.001 U                    | 0.001 U                  | 0.0015 U                  | 0.00230                 | 0.290                     | 0.001 U               | 0.0171                   | 0.0002 U                 | 0.0593                      | 0.459                       | 0.001 U                   | 0.002 U                   |
| 45S     | Compliance | 09/14/2022 | 0.0004 U                  | 0.0005 J                 | 0.0629                  | 0.0002 U                   | 0.0006 J                 | 0.00170                   | 0.00100                 | 0.280                     | 0.00110               | 0.0102                   | 0.00006 U                | 0.0453                      | 0.538                       | 0.0006 U                  | 0.001 U                   |

**Notes:**  
mg/L = milligrams per liter  
pCi/L = picoCuries per liter  
- = not analyzed  
U = The analyte was analyzed for, but was not detected above the level of the adjusted detection limit or quantitation limit, as appropriate. Lab reports may or may not report both the limit of detection and the limit of quantitation. Limits are provided in the electronic data deliverable. As such, the U-flagged result value provided in this table may not match the result value provided in the lab report.  
J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.  
JB = The result is an estimated quantity, and the analyte was found in both the sample and in the associated method blank.



**TABLE 4**  
**STATISTICAL BACKGROUND VALUES**  
2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
HENNEPIN POWER PLANT  
802 - ASH POND NO. 2  
HENNEPIN, IL

| Parameter                     | Date Range              | Sample Count | Percent Non-Detects | Statistical Calculation | Statistical Background Value (LPL/UPL) |
|-------------------------------|-------------------------|--------------|---------------------|-------------------------|----------------------------------------|
| Boron (mg/L)                  | 12/08/2015 - 06/09/2017 | 24           | 0                   | Parametric UPL          | 0.153                                  |
| Calcium (mg/L)                | 12/08/2015 - 06/09/2017 | 24           | 0                   | Parametric UPL          | 280                                    |
| Chloride (mg/L)               | 12/08/2015 - 06/09/2017 | 24           | 0                   | Parametric UPL          | 396                                    |
| Fluoride (mg/L)               | 12/08/2015 - 06/09/2017 | 24           | 58                  | Non-parametric UPL      | 0.120                                  |
| pH (field) (SU)               | 12/08/2015 - 06/09/2017 | 24           | 0                   | Non-parametric LPL/UPL  | 6.6/7.5                                |
| Sulfate (mg/L)                | 12/08/2015 - 06/09/2017 | 24           | 0                   | Parametric UPL          | 200                                    |
| Total Dissolved Solids (mg/L) | 12/08/2015 - 06/09/2017 | 24           | 0                   | Parametric UPL          | 1,520                                  |

**Notes:**  
LPL = lower prediction limit (applicable for pH only)  
mg/L = milligrams per liter  
SU = standard units  
UPL = upper prediction limit



**TABLE 5**  
**GROUNDWATER PROTECTION STANDARDS**  
2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
HENNEPIN POWER PLANT  
802 - ASH POND NO. 2  
HENNEPIN, IL

| Parameter                       | Background              |              |                     |                                  |         | MCL/HBL | Groundwater Protection Standard* | Groundwater Protection Standard Source |
|---------------------------------|-------------------------|--------------|---------------------|----------------------------------|---------|---------|----------------------------------|----------------------------------------|
|                                 | Date Range              | Sample Count | Percent Non-Detects | Statistical Calculation          | Value   |         |                                  |                                        |
| Antimony (mg/L)                 | 12/08/2015 - 06/09/2017 | 24           | 100                 | All ND - Last Reporting Limit    | 0.001   | 0.006   | 0.006                            | MCL/HBL                                |
| Arsenic (mg/L)                  | 12/08/2015 - 06/09/2017 | 24           | 100                 | All ND - Last Reporting Limit    | 0.001   | 0.010   | 0.010                            | MCL/HBL                                |
| Barium (mg/L)                   | 12/08/2015 - 06/09/2017 | 24           | 0                   | Parametric UTL                   | 0.212   | 2       | 2                                | MCL/HBL                                |
| Beryllium (mg/L)                | 12/08/2015 - 06/09/2017 | 24           | 100                 | All ND - Last Reporting Limit    | 0.001   | 0.004   | 0.004                            | MCL/HBL                                |
| Cadmium (mg/L)                  | 12/08/2015 - 06/09/2017 | 24           | 88                  | Non-parametric UTL               | 0.00230 | 0.005   | 0.005                            | MCL/HBL                                |
| Chromium (mg/L)                 | 12/08/2015 - 06/09/2017 | 24           | 96                  | Non-parametric UTL               | 0.00100 | 0.1     | 0.1                              | MCL/HBL                                |
| Cobalt (mg/L)                   | 12/08/2015 - 06/09/2017 | 24           | 33                  | Non-parametric UTL               | 0.0385  | 0.006   | 0.0385                           | Background                             |
| Fluoride (mg/L)                 | 12/08/2015 - 06/09/2017 | 24           | 58                  | Non-parametric UTL               | 0.120   | 4.0     | 4.0                              | MCL/HBL                                |
| Lead (mg/L)                     | 12/08/2015 - 06/09/2017 | 24           | 96                  | Non-parametric UTL               | 0.00150 | 0.015   | 0.015                            | MCL/HBL                                |
| Lithium (mg/L)                  | 12/08/2015 - 06/09/2017 | 24           | 0                   | Parametric UTL (log-transformed) | 0.0187  | 0.04    | 0.04                             | MCL/HBL                                |
| Mercury (mg/L)                  | 12/08/2015 - 06/09/2017 | 24           | 100                 | All ND - Last Reporting Limit    | 0.0002  | 0.002   | 0.002                            | MCL/HBL                                |
| Molybdenum (mg/L)               | 12/08/2015 - 06/09/2017 | 24           | 29                  | Non-parametric UTL               | 0.00170 | 0.1     | 0.1                              | MCL/HBL                                |
| Radium 226 + Radium 228 (pCi/L) | 12/08/2015 - 06/09/2017 | 24           | 0                   | Parametric UTL                   | 1.51    | 5       | 5                                | MCL/HBL                                |
| Selenium (mg/L)                 | 12/08/2015 - 06/09/2017 | 24           | 79                  | Non-parametric UTL               | 0.00140 | 0.05    | 0.05                             | MCL/HBL                                |
| Thallium (mg/L)                 | 12/08/2015 - 06/09/2017 | 24           | 100                 | All ND - Last Reporting Limit    | 0.001   | 0.002   | 0.002                            | MCL/HBL                                |

**Notes:**  
\* Groundwater Protection Standard is the higher of the MCL/HBL or background.  
MCL/HBL = maximum contaminant level/health-based level  
mg/L = milligrams per liter  
ND = non-detect  
pCi/L = picoCuries per liter  
UTL = upper tolerance limit

**TABLE 6**  
**DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS**  
2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
HENNEPIN POWER PLANT  
802 - ASH POND NO. 2  
HENNEPIN, IL

| Sample Location | Constituent      | Result Unit | Event | Date Range              | Sample Count | Percent Non-Detects | Statistical Calculation | Statistical Result | GWPS   | GWPS Source |
|-----------------|------------------|-------------|-------|-------------------------|--------------|---------------------|-------------------------|--------------------|--------|-------------|
| 03R             | Antimony, total  | mg/L        | A4D   | 12/09/2015 - 09/10/2021 | 13           | 100                 | All ND - Last           | 0.001              | 0.006  | MCL/HBL     |
| 03R             | Antimony, total  | mg/L        | A5    | 12/09/2015 - 03/23/2022 | 14           | 100                 | All ND - Last           | 0.001              | 0.006  | MCL/HBL     |
| 03R             | Antimony, total  | mg/L        | A5D   | 12/09/2015 - 09/14/2022 | 15           | 100                 | All ND - Last           | 0.0004             | 0.006  | MCL/HBL     |
| 03R             | Arsenic, total   | mg/L        | A4D   | 12/09/2015 - 09/10/2021 | 14           | 100                 | All ND - Last           | 0.001              | 0.010  | MCL/HBL     |
| 03R             | Arsenic, total   | mg/L        | A5    | 12/09/2015 - 03/23/2022 | 15           | 100                 | All ND - Last           | 0.001              | 0.010  | MCL/HBL     |
| 03R             | Arsenic, total   | mg/L        | A5D   | 12/09/2015 - 09/14/2022 | 16           | 100                 | All ND - Last           | 0.0005             | 0.010  | MCL/HBL     |
| 03R             | Barium, total    | mg/L        | A4D   | 12/09/2015 - 09/10/2021 | 16           | 0                   | CI around mean          | 0.0599             | 2      | MCL/HBL     |
| 03R             | Barium, total    | mg/L        | A5    | 12/09/2015 - 03/23/2022 | 17           | 0                   | CI around mean          | 0.0603             | 2      | MCL/HBL     |
| 03R             | Barium, total    | mg/L        | A5D   | 12/09/2015 - 09/14/2022 | 18           | 0                   | CI around mean          | 0.0602             | 2      | MCL/HBL     |
| 03R             | Beryllium, total | mg/L        | A4D   | 12/09/2015 - 09/10/2021 | 13           | 100                 | All ND - Last           | 0.001              | 0.004  | MCL/HBL     |
| 03R             | Beryllium, total | mg/L        | A5    | 12/09/2015 - 03/23/2022 | 14           | 100                 | All ND - Last           | 0.001              | 0.004  | MCL/HBL     |
| 03R             | Beryllium, total | mg/L        | A5D   | 12/09/2015 - 09/14/2022 | 15           | 100                 | All ND - Last           | 0.0002             | 0.004  | MCL/HBL     |
| 03R             | Cadmium, total   | mg/L        | A4D   | 12/09/2015 - 09/10/2021 | 15           | 87                  | CI around median        | 0.00100            | 0.005  | MCL/HBL     |
| 03R             | Cadmium, total   | mg/L        | A5    | 12/09/2015 - 03/23/2022 | 16           | 88                  | CI around median        | 0.00100            | 0.005  | MCL/HBL     |
| 03R             | Cadmium, total   | mg/L        | A5D   | 12/09/2015 - 09/14/2022 | 17           | 88                  | CI around median        | 0.00100            | 0.005  | MCL/HBL     |
| 03R             | Chromium, total  | mg/L        | A4D   | 12/09/2015 - 09/10/2021 | 14           | 93                  | CI around median        | 0.00100            | 0.1    | MCL/HBL     |
| 03R             | Chromium, total  | mg/L        | A5    | 12/09/2015 - 03/23/2022 | 15           | 93                  | CB around linear reg    | 0.00131            | 0.1    | MCL/HBL     |
| 03R             | Chromium, total  | mg/L        | A5D   | 12/09/2015 - 09/14/2022 | 16           | 88                  | CB around T-S line      | 0.00100            | 0.1    | MCL/HBL     |
| 03R             | Cobalt, total    | mg/L        | A4D   | 12/09/2015 - 09/10/2021 | 15           | 93                  | Future median           | 0.00100            | 0.0385 | Background  |
| 03R             | Cobalt, total    | mg/L        | A5    | 12/09/2015 - 03/23/2022 | 16           | 94                  | Future median           | 0.00100            | 0.0385 | Background  |
| 03R             | Cobalt, total    | mg/L        | A5D   | 12/09/2015 - 09/14/2022 | 17           | 94                  | CI around median        | 0.00100            | 0.0385 | Background  |
| 03R             | Fluoride, total  | mg/L        | A4D   | 12/09/2015 - 09/10/2021 | 17           | 0                   | CB around linear reg    | 0.281              | 4.0    | MCL/HBL     |
| 03R             | Fluoride, total  | mg/L        | A5    | 12/09/2015 - 03/23/2022 | 18           | 0                   | CB around linear reg    | 0.280              | 4.0    | MCL/HBL     |
| 03R             | Fluoride, total  | mg/L        | A5D   | 12/09/2015 - 09/14/2022 | 19           | 0                   | CB around linear reg    | 0.280              | 4.0    | MCL/HBL     |
| 03R             | Lead, total      | mg/L        | A4D   | 12/09/2015 - 09/10/2021 | 14           | 100                 | All ND - Last           | 0.001              | 0.015  | MCL/HBL     |
| 03R             | Lead, total      | mg/L        | A5    | 12/09/2015 - 03/23/2022 | 15           | 100                 | All ND - Last           | 0.001              | 0.015  | MCL/HBL     |
| 03R             | Lead, total      | mg/L        | A5D   | 12/09/2015 - 09/14/2022 | 16           | 100                 | All ND - Last           | 0.0006             | 0.015  | MCL/HBL     |
| 03R             | Lithium, total   | mg/L        | A4D   | 12/09/2015 - 09/10/2021 | 16           | 0                   | CI around mean          | 0.0236             | 0.04   | MCL/HBL     |
| 03R             | Lithium, total   | mg/L        | A5    | 12/09/2015 - 03/23/2022 | 17           | 0                   | CI around mean          | 0.0239             | 0.04   | MCL/HBL     |
| 03R             | Lithium, total   | mg/L        | A5D   | 12/09/2015 - 09/14/2022 | 18           | 0                   | CI around mean          | 0.0235             | 0.04   | MCL/HBL     |

**TABLE 6**  
**DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS**  
2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
HENNEPIN POWER PLANT  
802 - ASH POND NO. 2  
HENNEPIN, IL

| Sample Location | Constituent                    | Result Unit | Event | Date Range              | Sample Count | Percent Non-Detects | Statistical Calculation | Statistical Result | GWPS  | GWPS Source |
|-----------------|--------------------------------|-------------|-------|-------------------------|--------------|---------------------|-------------------------|--------------------|-------|-------------|
| 03R             | Mercury, total                 | mg/L        | A4D   | 12/09/2015 - 09/10/2021 | 13           | 100                 | All ND - Last           | 0.0002             | 0.002 | MCL/HBL     |
| 03R             | Mercury, total                 | mg/L        | A5    | 12/09/2015 - 03/23/2022 | 14           | 100                 | All ND - Last           | 0.0002             | 0.002 | MCL/HBL     |
| 03R             | Mercury, total                 | mg/L        | A5D   | 12/09/2015 - 09/14/2022 | 15           | 100                 | All ND - Last           | 0.00006            | 0.002 | MCL/HBL     |
| 03R             | Molybdenum, total              | mg/L        | A4D   | 12/09/2015 - 09/10/2021 | 16           | 0                   | CI around mean          | 0.169              | 0.1   | MCL/HBL     |
| 03R             | Molybdenum, total              | mg/L        | A5    | 12/09/2015 - 03/23/2022 | 17           | 0                   | CB around linear reg    | 0.0997             | 0.1   | MCL/HBL     |
| 03R             | Molybdenum, total              | mg/L        | A5D   | 12/09/2015 - 09/14/2022 | 18           | 0                   | CB around linear reg    | 0.0887             | 0.1   | MCL/HBL     |
| 03R             | Radium 226 + Radium 228, total | pCi/L       | A4D   | 12/09/2015 - 09/10/2021 | 16           | 0                   | CI around median        | 0.230              | 5     | MCL/HBL     |
| 03R             | Radium 226 + Radium 228, total | pCi/L       | A5    | 12/09/2015 - 03/23/2022 | 17           | 0                   | CI around median        | 0.230              | 5     | MCL/HBL     |
| 03R             | Radium 226 + Radium 228, total | pCi/L       | A5D   | 12/09/2015 - 09/14/2022 | 18           | 0                   | CI around median        | 0.260              | 5     | MCL/HBL     |
| 03R             | Selenium, total                | mg/L        | A4D   | 12/09/2015 - 09/10/2021 | 16           | 0                   | CI around mean          | 0.00488            | 0.05  | MCL/HBL     |
| 03R             | Selenium, total                | mg/L        | A5    | 12/09/2015 - 03/23/2022 | 17           | 0                   | CI around mean          | 0.00491            | 0.05  | MCL/HBL     |
| 03R             | Selenium, total                | mg/L        | A5D   | 12/09/2015 - 09/14/2022 | 18           | 0                   | CI around mean          | 0.00476            | 0.05  | MCL/HBL     |
| 03R             | Thallium, total                | mg/L        | A4D   | 12/09/2015 - 09/10/2021 | 13           | 100                 | All ND - Last           | 0.002              | 0.002 | MCL/HBL     |
| 03R             | Thallium, total                | mg/L        | A5    | 12/09/2015 - 03/23/2022 | 14           | 100                 | All ND - Last           | 0.002              | 0.002 | MCL/HBL     |
| 03R             | Thallium, total                | mg/L        | A5D   | 12/09/2015 - 09/14/2022 | 15           | 100                 | All ND - Last           | 0.001              | 0.002 | MCL/HBL     |
| 18S             | Antimony, total                | mg/L        | A4D   | 12/09/2015 - 09/10/2021 | 13           | 100                 | All ND - Last           | 0.001              | 0.006 | MCL/HBL     |
| 18S             | Antimony, total                | mg/L        | A5    | 12/09/2015 - 03/23/2022 | 14           | 100                 | All ND - Last           | 0.001              | 0.006 | MCL/HBL     |
| 18S             | Antimony, total                | mg/L        | A5D   | 12/09/2015 - 09/14/2022 | 15           | 100                 | All ND - Last           | 0.0004             | 0.006 | MCL/HBL     |
| 18S             | Arsenic, total                 | mg/L        | A4D   | 12/09/2015 - 09/10/2021 | 14           | 93                  | CI around median        | 0.00100            | 0.010 | MCL/HBL     |
| 18S             | Arsenic, total                 | mg/L        | A5    | 12/09/2015 - 03/23/2022 | 15           | 93                  | CI around median        | 0.00100            | 0.010 | MCL/HBL     |
| 18S             | Arsenic, total                 | mg/L        | A5D   | 12/09/2015 - 09/14/2022 | 16           | 94                  | CI around median        | 0.00100            | 0.010 | MCL/HBL     |
| 18S             | Barium, total                  | mg/L        | A4D   | 12/09/2015 - 09/10/2021 | 16           | 0                   | CB around linear reg    | 0.0432             | 2     | MCL/HBL     |
| 18S             | Barium, total                  | mg/L        | A5    | 12/09/2015 - 03/23/2022 | 17           | 0                   | CB around linear reg    | 0.0434             | 2     | MCL/HBL     |
| 18S             | Barium, total                  | mg/L        | A5D   | 12/09/2015 - 09/14/2022 | 18           | 0                   | CB around linear reg    | 0.0424             | 2     | MCL/HBL     |
| 18S             | Beryllium, total               | mg/L        | A4D   | 12/09/2015 - 09/10/2021 | 13           | 100                 | All ND - Last           | 0.001              | 0.004 | MCL/HBL     |
| 18S             | Beryllium, total               | mg/L        | A5    | 12/09/2015 - 03/23/2022 | 14           | 100                 | All ND - Last           | 0.001              | 0.004 | MCL/HBL     |
| 18S             | Beryllium, total               | mg/L        | A5D   | 12/09/2015 - 09/14/2022 | 15           | 100                 | All ND - Last           | 0.0002             | 0.004 | MCL/HBL     |
| 18S             | Cadmium, total                 | mg/L        | A4D   | 12/09/2015 - 09/10/2021 | 15           | 80                  | CB around T-S line      | 0.000112           | 0.005 | MCL/HBL     |
| 18S             | Cadmium, total                 | mg/L        | A5    | 12/09/2015 - 03/23/2022 | 16           | 81                  | CB around T-S line      | 0.000272           | 0.005 | MCL/HBL     |

**TABLE 6**  
**DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS**  
2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
HENNEPIN POWER PLANT  
802 - ASH POND NO. 2  
HENNEPIN, IL

| Sample Location | Constituent                    | Result Unit | Event | Date Range              | Sample Count | Percent Non-Detects | Statistical Calculation | Statistical Result | GWPS   | GWPS Source |
|-----------------|--------------------------------|-------------|-------|-------------------------|--------------|---------------------|-------------------------|--------------------|--------|-------------|
| 18S             | Cadmium, total                 | mg/L        | A5D   | 12/09/2015 - 09/14/2022 | 17           | 82                  | CB around T-S line      | -0.000112          | 0.005  | MCL/HBL     |
| 18S             | Chromium, total                | mg/L        | A4D   | 12/09/2015 - 09/10/2021 | 15           | 33                  | CI around median        | 0.00140            | 0.1    | MCL/HBL     |
| 18S             | Chromium, total                | mg/L        | A5    | 12/09/2015 - 03/23/2022 | 16           | 31                  | CI around median        | 0.00150            | 0.1    | MCL/HBL     |
| 18S             | Chromium, total                | mg/L        | A5D   | 12/09/2015 - 09/14/2022 | 17           | 29                  | CI around median        | 0.00150            | 0.1    | MCL/HBL     |
| 18S             | Cobalt, total                  | mg/L        | A4D   | 12/09/2015 - 09/10/2021 | 15           | 87                  | Future median           | 0.00100            | 0.0385 | Background  |
| 18S             | Cobalt, total                  | mg/L        | A5    | 12/09/2015 - 03/23/2022 | 16           | 88                  | Future median           | 0.00100            | 0.0385 | Background  |
| 18S             | Cobalt, total                  | mg/L        | A5D   | 12/09/2015 - 09/14/2022 | 17           | 88                  | CI around median        | 0.00100            | 0.0385 | Background  |
| 18S             | Fluoride, total                | mg/L        | A4D   | 12/09/2015 - 09/10/2021 | 17           | 0                   | CB around linear reg    | 0.143              | 4.0    | MCL/HBL     |
| 18S             | Fluoride, total                | mg/L        | A5    | 12/09/2015 - 03/23/2022 | 18           | 0                   | CB around linear reg    | 0.150              | 4.0    | MCL/HBL     |
| 18S             | Fluoride, total                | mg/L        | A5D   | 12/09/2015 - 09/14/2022 | 19           | 0                   | CB around linear reg    | 0.156              | 4.0    | MCL/HBL     |
| 18S             | Lead, total                    | mg/L        | A4D   | 12/09/2015 - 09/10/2021 | 14           | 100                 | All ND - Last           | 0.001              | 0.015  | MCL/HBL     |
| 18S             | Lead, total                    | mg/L        | A5    | 12/09/2015 - 03/23/2022 | 15           | 100                 | All ND - Last           | 0.001              | 0.015  | MCL/HBL     |
| 18S             | Lead, total                    | mg/L        | A5D   | 12/09/2015 - 09/14/2022 | 16           | 100                 | All ND - Last           | 0.0006             | 0.015  | MCL/HBL     |
| 18S             | Lithium, total                 | mg/L        | A4D   | 12/09/2015 - 09/10/2021 | 16           | 0                   | CI around mean          | 0.0691             | 0.04   | MCL/HBL     |
| 18S             | Lithium, total                 | mg/L        | A5    | 12/09/2015 - 03/23/2022 | 17           | 0                   | CI around mean          | 0.0685             | 0.04   | MCL/HBL     |
| 18S             | Lithium, total                 | mg/L        | A5D   | 12/09/2015 - 09/14/2022 | 18           | 0                   | CI around mean          | 0.0666             | 0.04   | MCL/HBL     |
| 18S             | Mercury, total                 | mg/L        | A4D   | 12/09/2015 - 09/10/2021 | 13           | 100                 | All ND - Last           | 0.0002             | 0.002  | MCL/HBL     |
| 18S             | Mercury, total                 | mg/L        | A5    | 12/09/2015 - 03/23/2022 | 14           | 100                 | All ND - Last           | 0.0002             | 0.002  | MCL/HBL     |
| 18S             | Mercury, total                 | mg/L        | A5D   | 12/09/2015 - 09/14/2022 | 15           | 100                 | All ND - Last           | 0.00006            | 0.002  | MCL/HBL     |
| 18S             | Molybdenum, total              | mg/L        | A4D   | 12/09/2015 - 09/10/2021 | 16           | 0                   | CB around linear reg    | 0.109              | 0.1    | MCL/HBL     |
| 18S             | Molybdenum, total              | mg/L        | A5    | 12/09/2015 - 03/23/2022 | 17           | 0                   | CB around linear reg    | 0.0990             | 0.1    | MCL/HBL     |
| 18S             | Molybdenum, total              | mg/L        | A5D   | 12/09/2015 - 09/14/2022 | 18           | 0                   | CB around linear reg    | 0.0863             | 0.1    | MCL/HBL     |
| 18S             | Radium 226 + Radium 228, total | pCi/L       | A4D   | 12/09/2015 - 09/10/2021 | 16           | 0                   | CI around mean          | 0.244              | 5      | MCL/HBL     |
| 18S             | Radium 226 + Radium 228, total | pCi/L       | A5    | 12/09/2015 - 03/23/2022 | 17           | 0                   | CI around mean          | 0.280              | 5      | MCL/HBL     |
| 18S             | Radium 226 + Radium 228, total | pCi/L       | A5D   | 12/09/2015 - 09/14/2022 | 18           | 0                   | CI around mean          | 0.294              | 5      | MCL/HBL     |
| 18S             | Selenium, total                | mg/L        | A4D   | 12/09/2015 - 09/10/2021 | 16           | 0                   | CI around geomean       | 0.0330             | 0.05   | MCL/HBL     |
| 18S             | Selenium, total                | mg/L        | A5    | 12/09/2015 - 03/23/2022 | 17           | 0                   | CI around geomean       | 0.0320             | 0.05   | MCL/HBL     |
| 18S             | Selenium, total                | mg/L        | A5D   | 12/09/2015 - 09/14/2022 | 18           | 0                   | CB around T-S line      | -0.0244            | 0.05   | MCL/HBL     |
| 18S             | Thallium, total                | mg/L        | A4D   | 12/09/2015 - 09/10/2021 | 13           | 100                 | All ND - Last           | 0.002              | 0.002  | MCL/HBL     |

**TABLE 6**  
**DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS**  
2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
HENNEPIN POWER PLANT  
802 - ASH POND NO. 2  
HENNEPIN, IL

| Sample Location | Constituent      | Result Unit | Event | Date Range              | Sample Count | Percent Non-Detects | Statistical Calculation | Statistical Result | GWPS   | GWPS Source |
|-----------------|------------------|-------------|-------|-------------------------|--------------|---------------------|-------------------------|--------------------|--------|-------------|
| 18S             | Thallium, total  | mg/L        | A5    | 12/09/2015 - 03/23/2022 | 14           | 100                 | All ND - Last           | 0.002              | 0.002  | MCL/HBL     |
| 18S             | Thallium, total  | mg/L        | A5D   | 12/09/2015 - 09/14/2022 | 15           | 100                 | All ND - Last           | 0.001              | 0.002  | MCL/HBL     |
| 18D             | Antimony, total  | mg/L        | A4D   | 12/09/2015 - 09/10/2021 | 13           | 100                 | All ND - Last           | 0.001              | 0.006  | MCL/HBL     |
| 18D             | Antimony, total  | mg/L        | A5    | 12/09/2015 - 03/23/2022 | 14           | 100                 | All ND - Last           | 0.001              | 0.006  | MCL/HBL     |
| 18D             | Antimony, total  | mg/L        | A5D   | 12/09/2015 - 09/14/2022 | 15           | 100                 | All ND - Last           | 0.0004             | 0.006  | MCL/HBL     |
| 18D             | Arsenic, total   | mg/L        | A4D   | 12/09/2015 - 09/10/2021 | 14           | 100                 | All ND - Last           | 0.001              | 0.010  | MCL/HBL     |
| 18D             | Arsenic, total   | mg/L        | A5    | 12/09/2015 - 03/23/2022 | 15           | 100                 | All ND - Last           | 0.001              | 0.010  | MCL/HBL     |
| 18D             | Arsenic, total   | mg/L        | A5D   | 12/09/2015 - 09/14/2022 | 16           | 100                 | All ND - Last           | 0.0005             | 0.010  | MCL/HBL     |
| 18D             | Barium, total    | mg/L        | A4D   | 12/09/2015 - 09/10/2021 | 16           | 0                   | CB around linear reg    | 0.0672             | 2      | MCL/HBL     |
| 18D             | Barium, total    | mg/L        | A5    | 12/09/2015 - 03/23/2022 | 17           | 0                   | CB around linear reg    | 0.0658             | 2      | MCL/HBL     |
| 18D             | Barium, total    | mg/L        | A5D   | 12/09/2015 - 09/14/2022 | 18           | 0                   | CB around linear reg    | 0.0649             | 2      | MCL/HBL     |
| 18D             | Beryllium, total | mg/L        | A4D   | 12/09/2015 - 09/10/2021 | 13           | 100                 | All ND - Last           | 0.001              | 0.004  | MCL/HBL     |
| 18D             | Beryllium, total | mg/L        | A5    | 12/09/2015 - 03/23/2022 | 14           | 100                 | All ND - Last           | 0.001              | 0.004  | MCL/HBL     |
| 18D             | Beryllium, total | mg/L        | A5D   | 12/09/2015 - 09/14/2022 | 15           | 100                 | All ND - Last           | 0.0002             | 0.004  | MCL/HBL     |
| 18D             | Cadmium, total   | mg/L        | A4D   | 12/09/2015 - 09/10/2021 | 15           | 87                  | CI around median        | 0.00100            | 0.005  | MCL/HBL     |
| 18D             | Cadmium, total   | mg/L        | A5    | 12/09/2015 - 03/23/2022 | 16           | 88                  | CI around median        | 0.00100            | 0.005  | MCL/HBL     |
| 18D             | Cadmium, total   | mg/L        | A5D   | 12/09/2015 - 09/14/2022 | 17           | 88                  | CI around median        | 0.00100            | 0.005  | MCL/HBL     |
| 18D             | Chromium, total  | mg/L        | A4D   | 12/09/2015 - 09/10/2021 | 14           | 93                  | CB around T-S line      | 0.00100            | 0.1    | MCL/HBL     |
| 18D             | Chromium, total  | mg/L        | A5    | 12/09/2015 - 03/23/2022 | 15           | 93                  | CB around T-S line      | 0.00100            | 0.1    | MCL/HBL     |
| 18D             | Chromium, total  | mg/L        | A5D   | 12/09/2015 - 09/14/2022 | 16           | 94                  | CB around T-S line      | 0.000921           | 0.1    | MCL/HBL     |
| 18D             | Cobalt, total    | mg/L        | A4D   | 12/09/2015 - 09/10/2021 | 16           | 0                   | CB around linear reg    | 0.000746           | 0.0385 | Background  |
| 18D             | Cobalt, total    | mg/L        | A5    | 12/09/2015 - 03/23/2022 | 17           | 0                   | CB around linear reg    | 0.000356           | 0.0385 | Background  |
| 18D             | Cobalt, total    | mg/L        | A5D   | 12/09/2015 - 09/14/2022 | 18           | 0                   | CB around linear reg    | 0.0000311          | 0.0385 | Background  |
| 18D             | Fluoride, total  | mg/L        | A4D   | 12/09/2015 - 09/10/2021 | 17           | 0                   | CB around linear reg    | 0.150              | 4.0    | MCL/HBL     |
| 18D             | Fluoride, total  | mg/L        | A5    | 12/09/2015 - 03/23/2022 | 18           | 0                   | CB around linear reg    | 0.153              | 4.0    | MCL/HBL     |
| 18D             | Fluoride, total  | mg/L        | A5D   | 12/09/2015 - 09/14/2022 | 19           | 0                   | CB around linear reg    | 0.152              | 4.0    | MCL/HBL     |
| 18D             | Lead, total      | mg/L        | A4D   | 12/09/2015 - 09/10/2021 | 14           | 100                 | All ND - Last           | 0.001              | 0.015  | MCL/HBL     |
| 18D             | Lead, total      | mg/L        | A5    | 12/09/2015 - 03/23/2022 | 15           | 100                 | All ND - Last           | 0.001              | 0.015  | MCL/HBL     |
| 18D             | Lead, total      | mg/L        | A5D   | 12/09/2015 - 09/14/2022 | 16           | 100                 | All ND - Last           | 0.0006             | 0.015  | MCL/HBL     |
| 18D             | Lithium, total   | mg/L        | A4D   | 12/09/2015 - 09/10/2021 | 16           | 0                   | CB around linear reg    | 0.0236             | 0.04   | MCL/HBL     |



**TABLE 6**  
**DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS**  
2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
HENNEPIN POWER PLANT  
802 - ASH POND NO. 2  
HENNEPIN, IL

| Sample Location | Constituent                    | Result Unit | Event | Date Range              | Sample Count | Percent Non-Detects | Statistical Calculation | Statistical Result | GWPS  | GWPS Source |
|-----------------|--------------------------------|-------------|-------|-------------------------|--------------|---------------------|-------------------------|--------------------|-------|-------------|
| 18D             | Lithium, total                 | mg/L        | A5    | 12/09/2015 - 03/23/2022 | 17           | 0                   | CB around linear reg    | 0.0239             | 0.04  | MCL/HBL     |
| 18D             | Lithium, total                 | mg/L        | A5D   | 12/09/2015 - 09/14/2022 | 18           | 0                   | CB around linear reg    | 0.0218             | 0.04  | MCL/HBL     |
| 18D             | Mercury, total                 | mg/L        | A4D   | 12/09/2015 - 09/10/2021 | 13           | 100                 | All ND - Last           | 0.0002             | 0.002 | MCL/HBL     |
| 18D             | Mercury, total                 | mg/L        | A5    | 12/09/2015 - 03/23/2022 | 14           | 100                 | All ND - Last           | 0.0002             | 0.002 | MCL/HBL     |
| 18D             | Mercury, total                 | mg/L        | A5D   | 12/09/2015 - 09/14/2022 | 15           | 100                 | All ND - Last           | 0.00006            | 0.002 | MCL/HBL     |
| 18D             | Molybdenum, total              | mg/L        | A4D   | 12/09/2015 - 09/10/2021 | 16           | 0                   | CI around mean          | 0.0309             | 0.1   | MCL/HBL     |
| 18D             | Molybdenum, total              | mg/L        | A5    | 12/09/2015 - 03/23/2022 | 17           | 0                   | CI around mean          | 0.0311             | 0.1   | MCL/HBL     |
| 18D             | Molybdenum, total              | mg/L        | A5D   | 12/09/2015 - 09/14/2022 | 18           | 0                   | CI around mean          | 0.0311             | 0.1   | MCL/HBL     |
| 18D             | Radium 226 + Radium 228, total | pCi/L       | A4D   | 12/09/2015 - 09/10/2021 | 16           | 0                   | CI around geomean       | 0.297              | 5     | MCL/HBL     |
| 18D             | Radium 226 + Radium 228, total | pCi/L       | A5    | 12/09/2015 - 03/23/2022 | 17           | 0                   | CI around geomean       | 0.312              | 5     | MCL/HBL     |
| 18D             | Radium 226 + Radium 228, total | pCi/L       | A5D   | 12/09/2015 - 09/14/2022 | 18           | 0                   | CI around geomean       | 0.334              | 5     | MCL/HBL     |
| 18D             | Selenium, total                | mg/L        | A4D   | 12/09/2015 - 09/10/2021 | 15           | 100                 | All ND - Last           | 0.001              | 0.05  | MCL/HBL     |
| 18D             | Selenium, total                | mg/L        | A5    | 12/09/2015 - 03/23/2022 | 16           | 100                 | All ND - Last           | 0.001              | 0.05  | MCL/HBL     |
| 18D             | Selenium, total                | mg/L        | A5D   | 12/09/2015 - 09/14/2022 | 17           | 100                 | All ND - Last           | 0.0006             | 0.05  | MCL/HBL     |
| 18D             | Thallium, total                | mg/L        | A4D   | 12/09/2015 - 09/10/2021 | 13           | 100                 | All ND - Last           | 0.002              | 0.002 | MCL/HBL     |
| 18D             | Thallium, total                | mg/L        | A5    | 12/09/2015 - 03/23/2022 | 14           | 100                 | All ND - Last           | 0.002              | 0.002 | MCL/HBL     |
| 18D             | Thallium, total                | mg/L        | A5D   | 12/09/2015 - 09/14/2022 | 15           | 100                 | All ND - Last           | 0.001              | 0.002 | MCL/HBL     |
| 45S             | Antimony, total                | mg/L        | A4D   | 12/09/2015 - 09/10/2021 | 13           | 100                 | All ND - Last           | 0.001              | 0.006 | MCL/HBL     |
| 45S             | Antimony, total                | mg/L        | A5    | 12/09/2015 - 03/23/2022 | 14           | 100                 | All ND - Last           | 0.001              | 0.006 | MCL/HBL     |
| 45S             | Antimony, total                | mg/L        | A5D   | 12/09/2015 - 09/14/2022 | 15           | 100                 | All ND - Last           | 0.0004             | 0.006 | MCL/HBL     |
| 45S             | Arsenic, total                 | mg/L        | A4D   | 12/09/2015 - 09/10/2021 | 14           | 100                 | All ND - Last           | 0.001              | 0.010 | MCL/HBL     |
| 45S             | Arsenic, total                 | mg/L        | A5    | 12/09/2015 - 03/23/2022 | 15           | 100                 | All ND - Last           | 0.001              | 0.010 | MCL/HBL     |
| 45S             | Arsenic, total                 | mg/L        | A5D   | 12/09/2015 - 09/14/2022 | 16           | 100                 | All ND - Last           | 0.0005             | 0.010 | MCL/HBL     |
| 45S             | Barium, total                  | mg/L        | A4D   | 12/09/2015 - 09/10/2021 | 16           | 0                   | CI around mean          | 0.0685             | 2     | MCL/HBL     |
| 45S             | Barium, total                  | mg/L        | A5    | 12/09/2015 - 03/23/2022 | 17           | 0                   | CI around mean          | 0.0693             | 2     | MCL/HBL     |
| 45S             | Barium, total                  | mg/L        | A5D   | 12/09/2015 - 09/14/2022 | 18           | 0                   | CI around mean          | 0.0687             | 2     | MCL/HBL     |
| 45S             | Beryllium, total               | mg/L        | A4D   | 12/09/2015 - 09/10/2021 | 13           | 100                 | All ND - Last           | 0.001              | 0.004 | MCL/HBL     |
| 45S             | Beryllium, total               | mg/L        | A5    | 12/09/2015 - 03/23/2022 | 14           | 100                 | All ND - Last           | 0.001              | 0.004 | MCL/HBL     |
| 45S             | Beryllium, total               | mg/L        | A5D   | 12/09/2015 - 09/14/2022 | 15           | 100                 | All ND - Last           | 0.0002             | 0.004 | MCL/HBL     |

**TABLE 6**  
**DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS**  
2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
HENNEPIN POWER PLANT  
802 - ASH POND NO. 2  
HENNEPIN, IL

| Sample Location | Constituent                    | Result Unit | Event | Date Range              | Sample Count | Percent Non-Detects | Statistical Calculation | Statistical Result | GWPS   | GWPS Source |
|-----------------|--------------------------------|-------------|-------|-------------------------|--------------|---------------------|-------------------------|--------------------|--------|-------------|
| 45S             | Cadmium, total                 | mg/L        | A4D   | 12/09/2015 - 09/10/2021 | 15           | 40                  | CB around linear reg    | 0.000138           | 0.005  | MCL/HBL     |
| 45S             | Cadmium, total                 | mg/L        | A5    | 12/09/2015 - 03/23/2022 | 16           | 44                  | CB around linear reg    | 0.000177           | 0.005  | MCL/HBL     |
| 45S             | Cadmium, total                 | mg/L        | A5D   | 12/09/2015 - 09/14/2022 | 17           | 47                  | CB around linear reg    | 0.000133           | 0.005  | MCL/HBL     |
| 45S             | Chromium, total                | mg/L        | A4D   | 12/09/2015 - 09/10/2021 | 15           | 93                  | CB around linear reg    | 0.00136            | 0.1    | MCL/HBL     |
| 45S             | Chromium, total                | mg/L        | A5    | 12/09/2015 - 03/23/2022 | 16           | 94                  | CB around linear reg    | 0.00138            | 0.1    | MCL/HBL     |
| 45S             | Chromium, total                | mg/L        | A5D   | 12/09/2015 - 09/14/2022 | 17           | 88                  | CB around T-S line      | 0.00100            | 0.1    | MCL/HBL     |
| 45S             | Cobalt, total                  | mg/L        | A4D   | 12/09/2015 - 09/10/2021 | 16           | 19                  | Future median           | 0.00100            | 0.0385 | Background  |
| 45S             | Cobalt, total                  | mg/L        | A5    | 12/09/2015 - 03/23/2022 | 17           | 18                  | Future median           | 0.00220            | 0.0385 | Background  |
| 45S             | Cobalt, total                  | mg/L        | A5D   | 12/09/2015 - 09/14/2022 | 18           | 17                  | CI around geomean       | 0.00138            | 0.0385 | Background  |
| 45S             | Fluoride, total                | mg/L        | A4D   | 12/09/2015 - 09/10/2021 | 17           | 0                   | CI around mean          | 0.311              | 4.0    | MCL/HBL     |
| 45S             | Fluoride, total                | mg/L        | A5    | 12/09/2015 - 03/23/2022 | 18           | 0                   | CI around mean          | 0.309              | 4.0    | MCL/HBL     |
| 45S             | Fluoride, total                | mg/L        | A5D   | 12/09/2015 - 09/14/2022 | 19           | 0                   | CI around mean          | 0.307              | 4.0    | MCL/HBL     |
| 45S             | Lead, total                    | mg/L        | A4D   | 12/09/2015 - 09/10/2021 | 14           | 93                  | Most recent sample      | 0.001              | 0.015  | MCL/HBL     |
| 45S             | Lead, total                    | mg/L        | A5    | 12/09/2015 - 03/23/2022 | 15           | 93                  | Most recent sample      | 0.001              | 0.015  | MCL/HBL     |
| 45S             | Lead, total                    | mg/L        | A5D   | 12/09/2015 - 09/14/2022 | 16           | 88                  | CI around median        | 0.00100            | 0.015  | MCL/HBL     |
| 45S             | Lithium, total                 | mg/L        | A4D   | 12/09/2015 - 09/10/2021 | 16           | 0                   | CI around mean          | 0.0143             | 0.04   | MCL/HBL     |
| 45S             | Lithium, total                 | mg/L        | A5    | 12/09/2015 - 03/23/2022 | 17           | 0                   | CI around mean          | 0.0144             | 0.04   | MCL/HBL     |
| 45S             | Lithium, total                 | mg/L        | A5D   | 12/09/2015 - 09/14/2022 | 18           | 0                   | CI around mean          | 0.0140             | 0.04   | MCL/HBL     |
| 45S             | Mercury, total                 | mg/L        | A4D   | 12/09/2015 - 09/10/2021 | 13           | 100                 | All ND - Last           | 0.0002             | 0.002  | MCL/HBL     |
| 45S             | Mercury, total                 | mg/L        | A5    | 12/09/2015 - 03/23/2022 | 14           | 100                 | All ND - Last           | 0.0002             | 0.002  | MCL/HBL     |
| 45S             | Mercury, total                 | mg/L        | A5D   | 12/09/2015 - 09/14/2022 | 15           | 100                 | All ND - Last           | 0.00006            | 0.002  | MCL/HBL     |
| 45S             | Molybdenum, total              | mg/L        | A4D   | 12/09/2015 - 09/10/2021 | 16           | 0                   | CB around linear reg    | 0.0486             | 0.1    | MCL/HBL     |
| 45S             | Molybdenum, total              | mg/L        | A5    | 12/09/2015 - 03/23/2022 | 17           | 0                   | CB around linear reg    | 0.0470             | 0.1    | MCL/HBL     |
| 45S             | Molybdenum, total              | mg/L        | A5D   | 12/09/2015 - 09/14/2022 | 18           | 0                   | CB around linear reg    | 0.0426             | 0.1    | MCL/HBL     |
| 45S             | Radium 226 + Radium 228, total | pCi/L       | A4D   | 12/09/2015 - 09/22/2021 | 16           | 0                   | CI around mean          | 0.458              | 5      | MCL/HBL     |
| 45S             | Radium 226 + Radium 228, total | pCi/L       | A5    | 12/09/2015 - 03/23/2022 | 17           | 0                   | CI around mean          | 0.457              | 5      | MCL/HBL     |
| 45S             | Radium 226 + Radium 228, total | pCi/L       | A5D   | 12/09/2015 - 09/14/2022 | 18           | 0                   | CI around mean          | 0.463              | 5      | MCL/HBL     |
| 45S             | Selenium, total                | mg/L        | A4D   | 12/09/2015 - 09/10/2021 | 15           | 100                 | All ND - Last           | 0.001              | 0.05   | MCL/HBL     |
| 45S             | Selenium, total                | mg/L        | A5    | 12/09/2015 - 03/23/2022 | 16           | 100                 | All ND - Last           | 0.001              | 0.05   | MCL/HBL     |

**TABLE 6**  
**DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS**  
2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
HENNEPIN POWER PLANT  
802 - ASH POND NO. 2  
HENNEPIN, IL

| Sample Location | Constituent     | Result Unit | Event | Date Range              | Sample Count | Percent Non-Detects | Statistical Calculation | Statistical Result | GWPS  | GWPS Source |
|-----------------|-----------------|-------------|-------|-------------------------|--------------|---------------------|-------------------------|--------------------|-------|-------------|
| 45S             | Selenium, total | mg/L        | A5D   | 12/09/2015 - 09/14/2022 | 17           | 100                 | All ND - Last           | 0.0006             | 0.05  | MCL/HBL     |
| 45S             | Thallium, total | mg/L        | A4D   | 12/09/2015 - 09/10/2021 | 13           | 100                 | All ND - Last           | 0.002              | 0.002 | MCL/HBL     |
| 45S             | Thallium, total | mg/L        | A5    | 12/09/2015 - 03/23/2022 | 14           | 100                 | All ND - Last           | 0.002              | 0.002 | MCL/HBL     |
| 45S             | Thallium, total | mg/L        | A5D   | 12/09/2015 - 09/14/2022 | 15           | 100                 | All ND - Last           | 0.001              | 0.002 | MCL/HBL     |

**Notes:**  
Exceedance of GWPS  
mg/L = milligrams per liter  
pCi/L = picocuries per liter  
Sample Count = number of samples from Sampled Date Range used to calculate the Statistical Result  
Statistical Calculation = method used to calculate the statistical result:  
All ND - Last = All results were below the reporting limit, and the last determined reporting limit is shown  
CB around linear reg = Confidence band around linear regression  
CB around T-S line = Confidence band around Thiel-Sen line  
CI around geomean = Confidence interval around the geometric mean  
CI around mean = Confidence interval around the mean  
CI around median = Confidence interval around the median  
Future median = Median of the three most recent samples  
Most recent sample = Result for the most recently collected sample used due to insufficient data  
Statistical Result = calculated in accordance with Statistical Analysis Plan using constituent concentrations observed at monitoring well during all sampling events within the specified date range  
GWPS = Groundwater Protection Standard  
GWPS Source:  
MCL/HBL = maximum contaminant level/health-based level  
Background = background concentration



## FIGURES





- BACKGROUND WELL
- COMPLIANCE WELL
- MONITORING WELL
- 40 C.F.R. § 257 REGULATED UNIT (SUBJECT UNIT)
- SITE FEATURE
- LIMITS OF FINAL COVER
- PROPERTY BOUNDARY

0 175 350  
Feet

MONITORING WELL LOCATION  
MAP

2022 ANNUAL GROUNDWATER MONITORING  
AND CORRECTIVE ACTION REPORT  
ASH POND NO. 2  
HENNEPIN POWER PLANT  
HENNEPIN, ILLINOIS

FIGURE 1

RAMBOLL AMERICAS  
ENGINEERING SOLUTIONS, INC.







- BACKGROUND WELL
- COMPLIANCE WELL
- PORE WATER WELL
- MONITORING WELL
- STAFF GAGE, CCR UNIT
- GROUNDWATER ELEVATION CONTOUR (1 FT CONTOUR INTERVAL, NAVD88)
- INFERRED GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION
- 40 C.F.R. § 257 REGULATED UNIT (SUBJECT UNIT)
- SITE FEATURE
- LIMITS OF FINAL COVER
- PROPERTY BOUNDARY

**NOTES:**  
1. ELEVATIONS IN PARENTHESES WERE NOT USED FOR CONTOURING.  
2. NM = NOT MEASURED  
3. ELEVATION CONTOURS SHOWN IN FEET, NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)  
\*ILLINOIS RIVER ELEVATION OBTAINED FROM STAFF GAGE SG02, LOCATED AT THE HENNEPIN POWER PLANT

0 175 350  
Feet

POTENTIOMETRIC SURFACE MAP  
SEPTEMBER 8, 2021

2022 ANNUAL GROUNDWATER MONITORING  
AND CORRECTIVE ACTION REPORT  
ASH POND NO. 2  
HENNEPIN POWER PLANT  
HENNEPIN, ILLINOIS

FIGURE 2

RAMBOLL AMERICAS  
ENGINEERING SOLUTIONS, INC.





PROJECT: 169000XXXX | DATED: 10/18/2022 | DESIGNER: galarmc  
Y:\Mapping\Projects\212285\WDXD\GW\_Contours\Round\_2022\Henepin\AP2\_802 Pot Surface 20220321.mxd



- BACKGROUND WELL
- COMPLIANCE WELL
- MONITORING WELL
- GROUNDWATER ELEVATION CONTOUR (1 FT CONTOUR INTERVAL, NAVD88)
- INFERRED GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION
- 40 C.F.R. § 257 REGULATED UNIT (SUBJECT UNIT)
- SITE FEATURE
- LIMITS OF FINAL COVER
- PROPERTY BOUNDARY

**NOTES:**  
1. ELEVATIONS IN PARENTHESES WERE NOT USED FOR CONTOURING.  
2. ELEVATION CONTOURS SHOWN IN FEET, NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)  
\*ILLINOIS RIVER ELEVATION OBTAINED FROM STAFF GAGE SG02, LOCATED AT THE HENNEPIN POWER PLANT



POTENTIOMETRIC SURFACE MAP  
MARCH 21, 2022

2022 ANNUAL GROUNDWATER MONITORING  
AND CORRECTIVE ACTION REPORT  
ASH POND NO. 2  
HENNEPIN POWER PLANT  
HENNEPIN, ILLINOIS

FIGURE 3

RAMBOLL AMERICAS  
ENGINEERING SOLUTIONS, INC.





PROJECT: 169000XXXXX | DATED: 1/3/2023 | DESIGNER: gellamc  
Y:\Mapping\Projects\212285\W\XD\GW\_Contours\Round\_2022\Henepin\AP2\_802 Pot Surface 20220913.mxd



- COMPLIANCE MONITORING WELL
- BACKGROUND MONITORING WELL
- MONITORING WELL
- GROUNDWATER ELEVATION CONTOUR (1 FT CONTOUR INTERVAL, NAVD88)
- INFERRED GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION
- 40 C.F.R. § 257 REGULATED UNIT (SUBJECT UNIT)
- SITE FEATURE
- LIMITS OF FINAL COVER
- PROPERTY BOUNDARY

**NOTES:**  
1. ELEVATIONS IN PARENTHESES WERE NOT USED FOR CONTOURING.  
2. ELEVATION CONTOURS SHOWN IN FEET, NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)  
\*ILLINOIS RIVER ELEVATION OBTAINED FROM STAFF GAGE SG02, LOCATED AT THE HENNEPIN POWER PLANT



POTENTIOMETRIC SURFACE MAP  
SEPTEMBER 13 AND 14, 2022

2022 ANNUAL GROUNDWATER MONITORING  
AND CORRECTIVE ACTION REPORT  
ASH POND NO. 2  
HENNEPIN POWER PLANT  
HENNEPIN, ILLINOIS

FIGURE 4

RAMBOLL AMERICAS  
ENGINEERING SOLUTIONS, INC.





## APPENDICES

## **APPENDIX A LABORATORY REPORTS**

October 15, 2021

Brian Voelker  
Vistra Energy  
1500 Eastport Plaza Drive  
Collinsville, IL 62234  
TEL: (217) 412-6605  
FAX:



|           |         |
|-----------|---------|
| Illinois  | 100226  |
| Kansas    | E-10374 |
| Louisiana | 05002   |
| Louisiana | 05003   |
| Oklahoma  | 9978    |

**RE:** Hennepin GW Q3 2021

**WorkOrder:** 21081266

Dear Brian Voelker:

TEKLAB, INC received 43 samples on 9/10/2021 2:25:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Elizabeth A. Hurley  
Project Manager  
(618)344-1004 ex 33  
[ehurley@teklabinc.com](mailto:ehurley@teklabinc.com)



**Client:** Vistra Energy

**Work Order:** 21081266

**Client Project:** Hennepin GW Q3 2021

**Report Date:** 15-Oct-21

**This reporting package includes the following:**

|                         |          |
|-------------------------|----------|
| Cover Letter            | 1        |
| Report Contents         | 2        |
| Definitions             | 3        |
| Case Narrative          | 5        |
| Accreditations          | 6        |
| Laboratory Results      | 7        |
| Sample Summary          | 22       |
| Dates Report            | 23       |
| Quality Control Results | 32       |
| Receiving Check List    | 76       |
| Chain of Custody        | Appended |

**Client:** Vistra Energy**Work Order:** 21081266**Client Project:** Hennepin GW Q3 2021**Report Date:** 15-Oct-21**Abbr Definition**

\* Analytes on report marked with an asterisk are not NELAP accredited

CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.

CRQL A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.

DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.

DNI Did not ignite

DUP Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.

ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.

IDPH IL Dept. of Public Health

LCS Laboratory control sample is a sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.

LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).

MBLK Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.

MDL "The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."

MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).

MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).

MW Molecular weight

NC Data is not acceptable for compliance purposes

ND Not Detected at the Reporting Limit

NELAP NELAP Accredited

PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.

RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.

RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).

SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.

Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.

TIC Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"

TNTC Too numerous to count (> 200 CFU)

**Client:** Vistra Energy

**Work Order:** 21081266

**Client Project:** Hennepin GW Q3 2021

**Report Date:** 15-Oct-21

### Qualifiers

- |                                                       |                                                              |
|-------------------------------------------------------|--------------------------------------------------------------|
| # - Unknown hydrocarbon                               | B - Analyte detected in associated Method Blank              |
| C - RL shown is a Client Requested Quantitation Limit | E - Value above quantitation range                           |
| H - Holding times exceeded                            | I - Associated internal standard was outside method criteria |
| J - Analyte detected below quantitation limits        | M - Manual Integration used to determine area response       |
| ND - Not Detected at the Reporting Limit              | R - RPD outside accepted recovery limits                     |
| S - Spike Recovery outside recovery limits            | T - TIC(Tentatively identified compound)                     |
| X - Value exceeds Maximum Contaminant Level           |                                                              |



## Case Narrative

<http://www.teklabinc.com/>

**Client:** Vistra Energy

**Work Order:** 21081266

**Client Project:** Hennepin GW Q3 2021

**Report Date:** 15-Oct-21

**Cooler Receipt Temp:** 2.8 °C

An employee of Teklab, Inc. collected the sample(s).

Perchlorate analysis was performed by Keystone Laboratories, Inc. See attached report for QC summary.

This report contains CCR 802 data. EAH 10/14/21

### Locations

#### Collinsville

**Address** 5445 Horseshoe Lake Road  
Collinsville, IL 62234-7425  
**Phone** (618) 344-1004  
**Fax** (618) 344-1005  
**Email** jhriley@teklabinc.com

#### Collinsville Air

**Address** 5445 Horseshoe Lake Road  
Collinsville, IL 62234-7425  
**Phone** (618) 344-1004  
**Fax** (618) 344-1005  
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Springfield, IL 62711-9415  
**Phone** (217) 698-1004  
**Fax** (217) 698-1005  
**Email** KKlostermann@teklabinc.com

#### Chicago

**Address** 1319 Butterfield Rd.  
Downers Grove, IL 60515  
**Phone** (630) 324-6855  
**Fax**  
**Email** arenner@teklabinc.com

#### Kansas City

**Address** 8421 Nieman Road  
Lenexa, KS 66214  
**Phone** (913) 541-1998  
**Fax** (913) 541-1998  
**Email** jhriley@teklabinc.com



**Client:** Vistra Energy**Work Order:** 21081266**Client Project:** Hennepin GW Q3 2021**Report Date:** 15-Oct-21

| State     | Dept | Cert #  | NELAP | Exp Date  | Lab          |
|-----------|------|---------|-------|-----------|--------------|
| Illinois  | IEPA | 100226  | NELAP | 1/31/2022 | Collinsville |
| Kansas    | KDHE | E-10374 | NELAP | 4/30/2022 | Collinsville |
| Louisiana | LDEQ | 05002   | NELAP | 6/30/2022 | Collinsville |
| Louisiana | LDEQ | 05003   | NELAP | 6/30/2022 | Collinsville |
| Oklahoma  | ODEQ | 9978    | NELAP | 8/31/2022 | Collinsville |
| Arkansas  | ADEQ | 88-0966 |       | 3/14/2022 | Collinsville |
| Illinois  | IDPH | 17584   |       | 5/31/2021 | Collinsville |
| Kentucky  | UST  | 0073    |       | 1/31/2022 | Collinsville |
| Missouri  | MDNR | 00930   |       | 5/31/2021 | Collinsville |
| Missouri  | MDNR | 930     |       | 1/31/2022 | Collinsville |



## Laboratory Results

<http://www.teklabinc.com/>

Client: Vistra Energy  
Client Project: Hennepin GW Q3 2021  
Lab ID: 21081266-002  
Matrix: GROUNDWATER

Work Order: 21081266  
Report Date: 15-Oct-21  
Client Sample ID: 03R  
Collection Date: 09/10/2021 9:34

| Analyses                                            | Certification | RL     | Qual | Result   | Units | DF | Date Analyzed    | Batch   |
|-----------------------------------------------------|---------------|--------|------|----------|-------|----|------------------|---------|
| <b>FIELD ELEVATION MEASUREMENTS</b>                 |               |        |      |          |       |    |                  |         |
| Depth to water from measuring point                 | *             | 0      |      | 34.35    | ft    | 1  | 09/10/2021 9:34  | R299257 |
| <b>STANDARD METHODS 2130 B FIELD</b>                |               |        |      |          |       |    |                  |         |
| Turbidity                                           | *             | 1.0    |      | 3.5      | NTU   | 1  | 09/10/2021 9:34  | R299257 |
| <b>STANDARD METHODS 18TH ED. 2580 B FIELD</b>       |               |        |      |          |       |    |                  |         |
| Oxidation-Reduction Potential                       | *             | -300   |      | 145      | mV    | 1  | 09/10/2021 9:34  | R299257 |
| <b>STANDARD METHODS 2550 B FIELD</b>                |               |        |      |          |       |    |                  |         |
| Temperature                                         | *             | 0      |      | 18.2     | °C    | 1  | 09/10/2021 9:34  | R299257 |
| <b>STANDARD METHODS 4500-O G FIELD</b>              |               |        |      |          |       |    |                  |         |
| Oxygen, Dissolved                                   | *             | 0      |      | 0.25     | mg/L  | 1  | 09/10/2021 9:34  | R299257 |
| <b>SW-846 9040B</b>                                 |               |        |      |          |       |    |                  |         |
| pH, Field                                           | *             | 1.00   |      | 7.18     |       | 1  | 09/10/2021 9:34  | R299257 |
| <b>SW-846 9050A</b>                                 |               |        |      |          |       |    |                  |         |
| Spec. Conductance, Field                            | *             | 1.00   |      | 928      | µS/cm | 1  | 09/10/2021 9:34  | R299257 |
| <b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>   |               |        |      |          |       |    |                  |         |
| Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )     | NELAP         | 0      |      | 238      | mg/L  | 1  | 09/13/2021 11:23 | R298870 |
| <b>STANDARD METHODS 2320 B 1997, 2011</b>           |               |        |      |          |       |    |                  |         |
| Alkalinity, Carbonate (as CaCO <sub>3</sub> )       | NELAP         | 0      |      | 0        | mg/L  | 1  | 09/13/2021 11:23 | R298870 |
| <b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>   |               |        |      |          |       |    |                  |         |
| Total Dissolved Solids                              | NELAP         | 20     |      | 464      | mg/L  | 1  | 09/14/2021 13:26 | R298970 |
| <b>SW-846 9036 (TOTAL)</b>                          |               |        |      |          |       |    |                  |         |
| Sulfate                                             | NELAP         | 50     |      | 86       | mg/L  | 5  | 09/16/2021 1:06  | R299021 |
| <b>SW-846 9214 (TOTAL)</b>                          |               |        |      |          |       |    |                  |         |
| Fluoride                                            | NELAP         | 0.10   |      | 0.29     | mg/L  | 1  | 09/13/2021 11:30 | R298849 |
| <b>SW-846 9251 (TOTAL)</b>                          |               |        |      |          |       |    |                  |         |
| Chloride                                            | NELAP         | 5      |      | 78       | mg/L  | 5  | 09/16/2021 1:06  | R299022 |
| <b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>   |               |        |      |          |       |    |                  |         |
| Calcium                                             | NELAP         | 0.100  |      | 87.9     | mg/L  | 1  | 09/20/2021 11:18 | 181946  |
| Magnesium                                           | NELAP         | 0.0500 |      | 23.6     | mg/L  | 1  | 09/20/2021 11:18 | 181946  |
| Potassium                                           | NELAP         | 0.100  |      | 9.94     | mg/L  | 1  | 09/20/2021 11:18 | 181946  |
| Sodium                                              | NELAP         | 0.0500 |      | 52.3     | mg/L  | 1  | 09/20/2021 11:18 | 181946  |
| <b>SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)</b> |               |        |      |          |       |    |                  |         |
| Antimony                                            | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 09/21/2021 15:46 | 181947  |
| Arsenic                                             | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 09/21/2021 15:46 | 181947  |
| Barium                                              | NELAP         | 0.0010 |      | 0.0572   | mg/L  | 5  | 09/21/2021 15:46 | 181947  |
| Boron                                               | NELAP         | 0.0250 |      | 0.991    | mg/L  | 5  | 09/21/2021 15:46 | 181947  |
| Cadmium                                             | NELAP         | 0.0010 | J    | 0.0002   | mg/L  | 5  | 09/21/2021 15:46 | 181947  |
| Chromium                                            | NELAP         | 0.0015 |      | < 0.0015 | mg/L  | 5  | 09/21/2021 15:46 | 181947  |
| Cobalt                                              | NELAP         | 0.0010 | J    | 0.0002   | mg/L  | 5  | 09/21/2021 15:46 | 181947  |
| Lead                                                | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 09/21/2021 15:46 | 181947  |
| Lithium                                             | *             | 0.0030 |      | 0.0159   | mg/L  | 5  | 09/21/2021 15:46 | 181947  |
| Molybdenum                                          | NELAP         | 0.0015 |      | 0.144    | mg/L  | 5  | 09/21/2021 15:46 | 181947  |
| Selenium                                            | NELAP         | 0.0010 |      | 0.0031   | mg/L  | 5  | 09/21/2021 15:46 | 181947  |

Client: Vistra Energy  
 Client Project: Hennepin GW Q3 2021  
 Lab ID: 21081266-004  
 Matrix: GROUNDWATER

Work Order: 21081266  
 Report Date: 15-Oct-21  
 Client Sample ID: 05DR  
 Collection Date: 09/10/2021 8:34

| Analyses                                                                                                  | Certification | RL     | Qual | Result   | Units | DF | Date Analyzed    | Batch   |
|-----------------------------------------------------------------------------------------------------------|---------------|--------|------|----------|-------|----|------------------|---------|
| <b>FIELD ELEVATION MEASUREMENTS</b>                                                                       |               |        |      |          |       |    |                  |         |
| Depth to water from measuring point                                                                       | *             | 0      |      | 40.67    | ft    | 1  | 09/10/2021 8:34  | R299257 |
| <b>STANDARD METHODS 2130 B FIELD</b>                                                                      |               |        |      |          |       |    |                  |         |
| Turbidity                                                                                                 | *             | 1.0    |      | 6.3      | NTU   | 1  | 09/10/2021 8:34  | R299257 |
| <b>STANDARD METHODS 18TH ED. 2580 B FIELD</b>                                                             |               |        |      |          |       |    |                  |         |
| Oxidation-Reduction Potential                                                                             | *             | -300   |      | 141      | mV    | 1  | 09/10/2021 8:34  | R299257 |
| <b>STANDARD METHODS 2550 B FIELD</b>                                                                      |               |        |      |          |       |    |                  |         |
| Temperature                                                                                               | *             | 0      |      | 17.3     | °C    | 1  | 09/10/2021 8:34  | R299257 |
| <b>STANDARD METHODS 4500-O G FIELD</b>                                                                    |               |        |      |          |       |    |                  |         |
| Oxygen, Dissolved                                                                                         | *             | 0      |      | 0.56     | mg/L  | 1  | 09/10/2021 8:34  | R299257 |
| <b>SW-846 9040B</b>                                                                                       |               |        |      |          |       |    |                  |         |
| pH, Field                                                                                                 | *             | 1.00   |      | 7.22     |       | 1  | 09/10/2021 8:34  | R299257 |
| <b>SW-846 9050A</b>                                                                                       |               |        |      |          |       |    |                  |         |
| Spec. Conductance, Field                                                                                  | *             | 1.00   |      | 962      | µS/cm | 1  | 09/10/2021 8:34  | R299257 |
| <b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>                                                         |               |        |      |          |       |    |                  |         |
| Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )                                                           | NELAP         | 0      |      | 253      | mg/L  | 1  | 09/13/2021 11:35 | R298870 |
| <b>STANDARD METHODS 2320 B 1997, 2011</b>                                                                 |               |        |      |          |       |    |                  |         |
| Alkalinity, Carbonate (as CaCO <sub>3</sub> )                                                             | NELAP         | 0      |      | 0        | mg/L  | 1  | 09/13/2021 11:35 | R298870 |
| <b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>                                                         |               |        |      |          |       |    |                  |         |
| Total Dissolved Solids                                                                                    | NELAP         | 20     |      | 508      | mg/L  | 1  | 09/14/2021 13:27 | R298970 |
| <b>SW-846 9036 (TOTAL)</b>                                                                                |               |        |      |          |       |    |                  |         |
| Sulfate                                                                                                   | NELAP         | 50     |      | 84       | mg/L  | 5  | 09/16/2021 20:55 | R299089 |
| <b>SW-846 9214 (TOTAL)</b>                                                                                |               |        |      |          |       |    |                  |         |
| Fluoride                                                                                                  | NELAP         | 0.10   |      | 0.15     | mg/L  | 1  | 09/13/2021 11:37 | R298849 |
| <b>SW-846 9251 (TOTAL)</b>                                                                                |               |        |      |          |       |    |                  |         |
| Chloride                                                                                                  | NELAP         | 5      | S    | 85       | mg/L  | 5  | 09/16/2021 20:55 | R299090 |
| <i>Matrix spike did not recover within control limits. Result is verified by re-analysis at dilution.</i> |               |        |      |          |       |    |                  |         |
| <b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>                                                         |               |        |      |          |       |    |                  |         |
| Calcium                                                                                                   | NELAP         | 0.100  |      | 88.4     | mg/L  | 1  | 09/20/2021 11:21 | 181946  |
| Magnesium                                                                                                 | NELAP         | 0.0500 |      | 31.0     | mg/L  | 1  | 09/20/2021 11:21 | 181946  |
| Potassium                                                                                                 | NELAP         | 0.100  |      | 7.47     | mg/L  | 1  | 09/20/2021 11:21 | 181946  |
| Sodium                                                                                                    | NELAP         | 0.0500 |      | 49.4     | mg/L  | 1  | 09/20/2021 11:21 | 181946  |
| <b>SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)</b>                                                       |               |        |      |          |       |    |                  |         |
| Antimony                                                                                                  | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 09/21/2021 15:54 | 181947  |
| Arsenic                                                                                                   | NELAP         | 0.0010 | J    | 0.0005   | mg/L  | 5  | 09/21/2021 15:54 | 181947  |
| Barium                                                                                                    | NELAP         | 0.0010 |      | 0.0515   | mg/L  | 5  | 09/21/2021 15:54 | 181947  |
| Boron                                                                                                     | NELAP         | 0.0250 |      | 0.824    | mg/L  | 5  | 09/21/2021 15:54 | 181947  |
| Cadmium                                                                                                   | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 09/21/2021 15:54 | 181947  |
| Chromium                                                                                                  | NELAP         | 0.0015 | J    | 0.0010   | mg/L  | 5  | 09/21/2021 15:54 | 181947  |
| Cobalt                                                                                                    | NELAP         | 0.0010 | J    | 0.0005   | mg/L  | 5  | 09/21/2021 15:54 | 181947  |
| Lead                                                                                                      | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 09/21/2021 15:54 | 181947  |
| Lithium                                                                                                   | *             | 0.0030 |      | 0.0265   | mg/L  | 5  | 09/21/2021 15:54 | 181947  |
| Molybdenum                                                                                                | NELAP         | 0.0015 |      | 0.0106   | mg/L  | 5  | 09/21/2021 15:54 | 181947  |
| Selenium                                                                                                  | NELAP         | 0.0010 |      | 0.0025   | mg/L  | 5  | 09/21/2021 15:54 | 181947  |

Client: Vistra Energy  
 Client Project: Hennepin GW Q3 2021  
 Lab ID: 21081266-005  
 Matrix: GROUNDWATER

Work Order: 21081266  
 Report Date: 15-Oct-21  
 Client Sample ID: 05R  
 Collection Date: 09/10/2021 8:20

| Analyses                                                                                                 | Certification | RL     | Qual | Result   | Units | DF | Date Analyzed    | Batch   |
|----------------------------------------------------------------------------------------------------------|---------------|--------|------|----------|-------|----|------------------|---------|
| <b>FIELD ELEVATION MEASUREMENTS</b>                                                                      |               |        |      |          |       |    |                  |         |
| Depth to water from measuring point                                                                      | *             | 0      |      | 40.59    | ft    | 1  | 09/10/2021 8:20  | R299257 |
| <b>STANDARD METHODS 2130 B FIELD</b>                                                                     |               |        |      |          |       |    |                  |         |
| Turbidity                                                                                                | *             | 1.0    |      | 3.6      | NTU   | 1  | 09/10/2021 8:20  | R299257 |
| <b>STANDARD METHODS 18TH ED. 2580 B FIELD</b>                                                            |               |        |      |          |       |    |                  |         |
| Oxidation-Reduction Potential                                                                            | *             | -300   |      | 119      | mV    | 1  | 09/10/2021 8:20  | R299257 |
| <b>STANDARD METHODS 2550 B FIELD</b>                                                                     |               |        |      |          |       |    |                  |         |
| Temperature                                                                                              | *             | 0      |      | 17.1     | °C    | 1  | 09/10/2021 8:20  | R299257 |
| <b>STANDARD METHODS 4500-O G FIELD</b>                                                                   |               |        |      |          |       |    |                  |         |
| Oxygen, Dissolved                                                                                        | *             | 0      |      | 0.30     | mg/L  | 1  | 09/10/2021 8:20  | R299257 |
| <b>SW-846 9040B</b>                                                                                      |               |        |      |          |       |    |                  |         |
| pH, Field                                                                                                | *             | 1.00   |      | 7.36     |       | 1  | 09/10/2021 8:20  | R299257 |
| <b>SW-846 9050A</b>                                                                                      |               |        |      |          |       |    |                  |         |
| Spec. Conductance, Field                                                                                 | *             | 1.00   |      | 972      | µS/cm | 1  | 09/10/2021 8:20  | R299257 |
| <b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>                                                        |               |        |      |          |       |    |                  |         |
| Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )                                                          | NELAP         | 0      |      | 267      | mg/L  | 1  | 09/13/2021 11:41 | R298870 |
| <b>STANDARD METHODS 2320 B 1997, 2011</b>                                                                |               |        |      |          |       |    |                  |         |
| Alkalinity, Carbonate (as CaCO <sub>3</sub> )                                                            | NELAP         | 0      |      | 0        | mg/L  | 1  | 09/13/2021 11:41 | R298870 |
| <b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>                                                        |               |        |      |          |       |    |                  |         |
| Total Dissolved Solids                                                                                   | NELAP         | 20     |      | 502      | mg/L  | 1  | 09/14/2021 15:10 | R298970 |
| <b>SW-846 9036 (TOTAL)</b>                                                                               |               |        |      |          |       |    |                  |         |
| Sulfate                                                                                                  | NELAP         | 50     |      | 74       | mg/L  | 5  | 09/16/2021 1:27  | R299021 |
| <b>SW-846 9214 (TOTAL)</b>                                                                               |               |        |      |          |       |    |                  |         |
| Fluoride                                                                                                 | NELAP         | 0.10   |      | 0.12     | mg/L  | 1  | 09/13/2021 11:39 | R298849 |
| <b>SW-846 9251 (TOTAL)</b>                                                                               |               |        |      |          |       |    |                  |         |
| Chloride                                                                                                 | NELAP         | 5      |      | 83       | mg/L  | 5  | 09/16/2021 1:28  | R299022 |
| <b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>                                                        |               |        |      |          |       |    |                  |         |
| Calcium                                                                                                  | NELAP         | 0.100  | S    | 89.3     | mg/L  | 1  | 09/20/2021 12:39 | 181946  |
| Magnesium                                                                                                | NELAP         | 0.0500 | S    | 32.3     | mg/L  | 1  | 09/20/2021 12:39 | 181946  |
| Potassium                                                                                                | NELAP         | 0.500  |      | 9.94     | mg/L  | 5  | 09/20/2021 17:50 | 181946  |
| Sodium                                                                                                   | NELAP         | 0.0500 | S    | 50.0     | mg/L  | 1  | 09/20/2021 12:39 | 181946  |
| <i>Matrix spike control limits for Ca, Mg, and Na are not applicable due to high sample/spike ratio.</i> |               |        |      |          |       |    |                  |         |
| <b>SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)</b>                                                      |               |        |      |          |       |    |                  |         |
| Antimony                                                                                                 | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 09/21/2021 16:02 | 181947  |
| Arsenic                                                                                                  | NELAP         | 0.0010 |      | 0.0011   | mg/L  | 5  | 09/21/2021 16:02 | 181947  |
| Barium                                                                                                   | NELAP         | 0.0010 |      | 0.0524   | mg/L  | 5  | 09/21/2021 16:02 | 181947  |
| Boron                                                                                                    | NELAP         | 0.0250 |      | 0.715    | mg/L  | 5  | 09/21/2021 16:02 | 181947  |
| Cadmium                                                                                                  | NELAP         | 0.0010 | J    | 0.0003   | mg/L  | 5  | 09/21/2021 16:02 | 181947  |
| Chromium                                                                                                 | NELAP         | 0.0015 |      | < 0.0015 | mg/L  | 5  | 09/21/2021 16:02 | 181947  |
| Cobalt                                                                                                   | NELAP         | 0.0010 | J    | 0.0003   | mg/L  | 5  | 09/21/2021 16:02 | 181947  |
| Lead                                                                                                     | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 09/21/2021 16:02 | 181947  |
| Lithium                                                                                                  | *             | 0.0030 |      | 0.0403   | mg/L  | 5  | 09/21/2021 16:02 | 181947  |
| Molybdenum                                                                                               | NELAP         | 0.0015 |      | 0.0193   | mg/L  | 5  | 09/21/2021 16:02 | 181947  |
| Selenium                                                                                                 | NELAP         | 0.0010 |      | 0.0034   | mg/L  | 5  | 09/21/2021 16:02 | 181947  |



Client: Vistra Energy  
 Client Project: Hennepin GW Q3 2021  
 Lab ID: 21081266-007  
 Matrix: GROUNDWATER

Work Order: 21081266  
 Report Date: 15-Oct-21  
 Client Sample ID: 07  
 Collection Date: 09/09/2021 17:08

| Analyses                                            | Certification | RL     | Qual | Result   | Units | DF | Date Analyzed    | Batch   |
|-----------------------------------------------------|---------------|--------|------|----------|-------|----|------------------|---------|
| <b>FIELD ELEVATION MEASUREMENTS</b>                 |               |        |      |          |       |    |                  |         |
| Depth to water from measuring point                 | *             | 0      |      | 67.02    | ft    | 1  | 09/09/2021 17:08 | R299257 |
| <b>STANDARD METHODS 2130 B FIELD</b>                |               |        |      |          |       |    |                  |         |
| Turbidity                                           | *             | 1.0    |      | 3.9      | NTU   | 1  | 09/09/2021 17:08 | R299257 |
| <b>STANDARD METHODS 18TH ED. 2580 B FIELD</b>       |               |        |      |          |       |    |                  |         |
| Oxidation-Reduction Potential                       | *             | -300   |      | 141      | mV    | 1  | 09/09/2021 17:08 | R299257 |
| <b>STANDARD METHODS 2550 B FIELD</b>                |               |        |      |          |       |    |                  |         |
| Temperature                                         | *             | 0      |      | 11.6     | °C    | 1  | 09/09/2021 17:08 | R299257 |
| <b>STANDARD METHODS 4500-O G FIELD</b>              |               |        |      |          |       |    |                  |         |
| Oxygen, Dissolved                                   | *             | 0      |      | 2.67     | mg/L  | 1  | 09/09/2021 17:08 | R299257 |
| <b>SW-846 9040B</b>                                 |               |        |      |          |       |    |                  |         |
| pH, Field                                           | *             | 1.00   |      | 6.73     |       | 1  | 09/09/2021 17:08 | R299257 |
| <b>SW-846 9050A</b>                                 |               |        |      |          |       |    |                  |         |
| Spec. Conductance, Field                            | *             | 1.00   |      | 1330     | µS/cm | 1  | 09/09/2021 17:08 | R299257 |
| <b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>   |               |        |      |          |       |    |                  |         |
| Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )     | NELAP         | 0      |      | 468      | mg/L  | 1  | 09/13/2021 11:47 | R298870 |
| <b>STANDARD METHODS 2320 B 1997, 2011</b>           |               |        |      |          |       |    |                  |         |
| Alkalinity, Carbonate (as CaCO <sub>3</sub> )       | NELAP         | 0      |      | 0        | mg/L  | 1  | 09/13/2021 11:47 | R298870 |
| <b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>   |               |        |      |          |       |    |                  |         |
| Total Dissolved Solids                              | NELAP         | 20     |      | 654      | mg/L  | 1  | 09/14/2021 15:10 | R298970 |
| <b>SW-846 9036 (TOTAL)</b>                          |               |        |      |          |       |    |                  |         |
| Sulfate                                             | NELAP         | 20     |      | 52       | mg/L  | 2  | 09/16/2021 1:30  | R299021 |
| <b>SW-846 9214 (TOTAL)</b>                          |               |        |      |          |       |    |                  |         |
| Fluoride                                            | NELAP         | 0.10   |      | 0.11     | mg/L  | 1  | 09/13/2021 11:41 | R298849 |
| <b>SW-846 9251 (TOTAL)</b>                          |               |        |      |          |       |    |                  |         |
| Chloride                                            | NELAP         | 2      |      | 70       | mg/L  | 2  | 09/16/2021 1:30  | R299022 |
| <b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>   |               |        |      |          |       |    |                  |         |
| Calcium                                             | NELAP         | 0.100  |      | 156      | mg/L  | 1  | 09/17/2021 21:57 | 181934  |
| Magnesium                                           | NELAP         | 0.0500 |      | 53.4     | mg/L  | 1  | 09/17/2021 21:57 | 181934  |
| Potassium                                           | NELAP         | 0.100  |      | 3.24     | mg/L  | 1  | 09/20/2021 11:44 | 181934  |
| Sodium                                              | NELAP         | 0.0500 |      | 44.1     | mg/L  | 1  | 09/17/2021 21:57 | 181934  |
| <b>SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)</b> |               |        |      |          |       |    |                  |         |
| Antimony                                            | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 09/24/2021 11:47 | 181937  |
| Arsenic                                             | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 09/24/2021 11:47 | 181937  |
| Barium                                              | NELAP         | 0.0010 |      | 0.131    | mg/L  | 5  | 09/24/2021 11:47 | 181937  |
| Boron                                               | NELAP         | 0.0250 |      | 0.0764   | mg/L  | 5  | 09/27/2021 12:46 | 181937  |
| Cadmium                                             | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 09/24/2021 11:47 | 181937  |
| Chromium                                            | NELAP         | 0.0015 | J    | 0.0012   | mg/L  | 5  | 09/24/2021 11:47 | 181937  |
| Cobalt                                              | NELAP         | 0.0010 |      | 0.0164   | mg/L  | 5  | 09/24/2021 11:47 | 181937  |
| Lead                                                | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 09/24/2021 11:47 | 181937  |
| Lithium                                             | *             | 0.0030 |      | 0.0100   | mg/L  | 5  | 09/24/2021 11:47 | 181937  |
| Molybdenum                                          | NELAP         | 0.0015 | J    | 0.0008   | mg/L  | 5  | 09/24/2021 11:47 | 181937  |
| Selenium                                            | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 09/24/2021 11:47 | 181937  |

Client: Vistra Energy  
 Client Project: Hennepin GW Q3 2021  
 Lab ID: 21081266-008  
 Matrix: GROUNDWATER

Work Order: 21081266  
 Report Date: 15-Oct-21  
 Client Sample ID: 08  
 Collection Date: 09/09/2021 14:33

| Analyses                                            | Certification | RL     | Qual | Result   | Units | DF | Date Analyzed    | Batch   |
|-----------------------------------------------------|---------------|--------|------|----------|-------|----|------------------|---------|
| <b>FIELD ELEVATION MEASUREMENTS</b>                 |               |        |      |          |       |    |                  |         |
| Depth to water from measuring point                 | *             | 0      |      | 53.08    | ft    | 1  | 09/09/2021 14:33 | R299257 |
| <b>STANDARD METHODS 2130 B FIELD</b>                |               |        |      |          |       |    |                  |         |
| Turbidity                                           | *             | 1.0    |      | 4.2      | NTU   | 1  | 09/09/2021 14:33 | R299257 |
| <b>STANDARD METHODS 18TH ED. 2580 B FIELD</b>       |               |        |      |          |       |    |                  |         |
| Oxidation-Reduction Potential                       | *             | -300   |      | 157      | mV    | 1  | 09/09/2021 14:33 | R299257 |
| <b>STANDARD METHODS 2550 B FIELD</b>                |               |        |      |          |       |    |                  |         |
| Temperature                                         | *             | 0      |      | 13.6     | °C    | 1  | 09/09/2021 14:33 | R299257 |
| <b>STANDARD METHODS 4500-O G FIELD</b>              |               |        |      |          |       |    |                  |         |
| Oxygen, Dissolved                                   | *             | 0      |      | 2.62     | mg/L  | 1  | 09/09/2021 14:33 | R299257 |
| <b>SW-846 9040B</b>                                 |               |        |      |          |       |    |                  |         |
| pH, Field                                           | *             | 1.00   |      | 6.60     |       | 1  | 09/09/2021 14:33 | R299257 |
| <b>SW-846 9050A</b>                                 |               |        |      |          |       |    |                  |         |
| Spec. Conductance, Field                            | *             | 1.00   |      | 1730     | µS/cm | 1  | 09/09/2021 14:33 | R299257 |
| <b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>   |               |        |      |          |       |    |                  |         |
| Alkalinity, Bicarbonate (as CaCO3)                  | NELAP         | 0      |      | 515      | mg/L  | 1  | 09/13/2021 11:54 | R298870 |
| <b>STANDARD METHODS 2320 B 1997, 2011</b>           |               |        |      |          |       |    |                  |         |
| Alkalinity, Carbonate (as CaCO3)                    | NELAP         | 0      |      | 0        | mg/L  | 1  | 09/13/2021 11:54 | R298870 |
| <b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>   |               |        |      |          |       |    |                  |         |
| Total Dissolved Solids                              | NELAP         | 20     |      | 876      | mg/L  | 1  | 09/14/2021 15:10 | R298970 |
| <b>SW-846 9036 (TOTAL)</b>                          |               |        |      |          |       |    |                  |         |
| Sulfate                                             | NELAP         | 100    |      | 100      | mg/L  | 10 | 09/16/2021 1:33  | R299021 |
| <b>SW-846 9214 (TOTAL)</b>                          |               |        |      |          |       |    |                  |         |
| Fluoride                                            | NELAP         | 0.10   | J    | 0.09     | mg/L  | 1  | 09/13/2021 11:42 | R298849 |
| <b>SW-846 9251 (TOTAL)</b>                          |               |        |      |          |       |    |                  |         |
| Chloride                                            | NELAP         | 10     |      | 152      | mg/L  | 10 | 09/16/2021 1:33  | R299022 |
| <b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>   |               |        |      |          |       |    |                  |         |
| Calcium                                             | NELAP         | 0.100  |      | 188      | mg/L  | 1  | 09/17/2021 21:59 | 181934  |
| Magnesium                                           | NELAP         | 0.0500 |      | 54.0     | mg/L  | 1  | 09/17/2021 21:59 | 181934  |
| Potassium                                           | NELAP         | 0.100  |      | 3.04     | mg/L  | 1  | 09/20/2021 11:46 | 181934  |
| Sodium                                              | NELAP         | 0.0500 |      | 84.1     | mg/L  | 1  | 09/17/2021 21:59 | 181934  |
| <b>SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)</b> |               |        |      |          |       |    |                  |         |
| Antimony                                            | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 09/24/2021 11:55 | 181937  |
| Arsenic                                             | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 09/24/2021 11:55 | 181937  |
| Barium                                              | NELAP         | 0.0010 |      | 0.0878   | mg/L  | 5  | 09/24/2021 11:55 | 181937  |
| Boron                                               | NELAP         | 0.0250 |      | 0.111    | mg/L  | 5  | 09/27/2021 12:52 | 181937  |
| Cadmium                                             | NELAP         | 0.0010 | J    | 0.0002   | mg/L  | 5  | 09/24/2021 11:55 | 181937  |
| Chromium                                            | NELAP         | 0.0015 |      | < 0.0015 | mg/L  | 5  | 09/24/2021 11:55 | 181937  |
| Cobalt                                              | NELAP         | 0.0010 |      | 0.0049   | mg/L  | 5  | 09/24/2021 11:55 | 181937  |
| Lead                                                | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 09/24/2021 11:55 | 181937  |
| Lithium                                             | *             | 0.0030 |      | 0.0130   | mg/L  | 5  | 09/24/2021 11:55 | 181937  |
| Molybdenum                                          | NELAP         | 0.0015 | J    | 0.0012   | mg/L  | 5  | 09/24/2021 11:55 | 181937  |
| Selenium                                            | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 09/24/2021 11:55 | 181937  |

Client: Vistra Energy  
 Client Project: Hennepin GW Q3 2021  
 Lab ID: 21081266-009  
 Matrix: GROUNDWATER

Work Order: 21081266  
 Report Date: 15-Oct-21  
 Client Sample ID: 08 Duplicate  
 Collection Date: 09/09/2021 14:33

| Analyses                                                                                                | Certification | RL     | Qual | Result   | Units | DF | Date Analyzed    | Batch   |
|---------------------------------------------------------------------------------------------------------|---------------|--------|------|----------|-------|----|------------------|---------|
| <b>FIELD ELEVATION MEASUREMENTS</b>                                                                     |               |        |      |          |       |    |                  |         |
| Depth to water from measuring point                                                                     | *             | 0      |      | 53.08    | ft    | 1  | 09/09/2021 14:33 | R299257 |
| <b>STANDARD METHODS 2130 B FIELD</b>                                                                    |               |        |      |          |       |    |                  |         |
| Turbidity                                                                                               | *             | 1.0    |      | 4.2      | NTU   | 1  | 09/09/2021 14:33 | R299257 |
| <b>STANDARD METHODS 18TH ED. 2580 B FIELD</b>                                                           |               |        |      |          |       |    |                  |         |
| Oxidation-Reduction Potential                                                                           | *             | -300   |      | 157      | mV    | 1  | 09/09/2021 14:33 | R299257 |
| <b>STANDARD METHODS 2550 B FIELD</b>                                                                    |               |        |      |          |       |    |                  |         |
| Temperature                                                                                             | *             | 0      |      | 13.6     | °C    | 1  | 09/09/2021 14:33 | R299257 |
| <b>STANDARD METHODS 4500-O G FIELD</b>                                                                  |               |        |      |          |       |    |                  |         |
| Oxygen, Dissolved                                                                                       | *             | 0      |      | 2.62     | mg/L  | 1  | 09/09/2021 14:33 | R299257 |
| <b>SW-846 9040B</b>                                                                                     |               |        |      |          |       |    |                  |         |
| pH, Field                                                                                               | *             | 1.00   |      | 6.60     |       | 1  | 09/09/2021 14:33 | R299257 |
| <b>SW-846 9050A</b>                                                                                     |               |        |      |          |       |    |                  |         |
| Spec. Conductance, Field                                                                                | *             | 1.00   |      | 1730     | µS/cm | 1  | 09/09/2021 14:33 | R299257 |
| <b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>                                                       |               |        |      |          |       |    |                  |         |
| Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )                                                         | NELAP         | 0      |      | 514      | mg/L  | 1  | 09/13/2021 12:01 | R298870 |
| <b>STANDARD METHODS 2320 B 1997, 2011</b>                                                               |               |        |      |          |       |    |                  |         |
| Alkalinity, Carbonate (as CaCO <sub>3</sub> )                                                           | NELAP         | 0      |      | 0        | mg/L  | 1  | 09/13/2021 12:01 | R298870 |
| <b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>                                                       |               |        |      |          |       |    |                  |         |
| Total Dissolved Solids                                                                                  | NELAP         | 20     |      | 860      | mg/L  | 1  | 09/14/2021 15:11 | R298970 |
| <b>SW-846 9036 (TOTAL)</b>                                                                              |               |        |      |          |       |    |                  |         |
| Sulfate                                                                                                 | NELAP         | 100    |      | 104      | mg/L  | 10 | 09/16/2021 1:52  | R299021 |
| <b>SW-846 9214 (TOTAL)</b>                                                                              |               |        |      |          |       |    |                  |         |
| Fluoride                                                                                                | NELAP         | 0.10   | J    | 0.09     | mg/L  | 1  | 09/13/2021 11:44 | R298849 |
| <b>SW-846 9251 (TOTAL)</b>                                                                              |               |        |      |          |       |    |                  |         |
| Chloride                                                                                                | NELAP         | 10     |      | 156      | mg/L  | 10 | 09/16/2021 1:52  | R299022 |
| <b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>                                                       |               |        |      |          |       |    |                  |         |
| Calcium                                                                                                 | NELAP         | 0.100  | S    | 191      | mg/L  | 1  | 09/17/2021 22:00 | 181934  |
| Magnesium                                                                                               | NELAP         | 0.0500 | S    | 54.8     | mg/L  | 1  | 09/17/2021 22:00 | 181934  |
| Potassium                                                                                               | NELAP         | 0.100  |      | 3.04     | mg/L  | 1  | 09/20/2021 11:48 | 181934  |
| Sodium                                                                                                  | NELAP         | 0.0500 | S    | 84.4     | mg/L  | 1  | 09/17/2021 22:00 | 181934  |
| <i>Matrix spike control limits for Ca, Mg and Na are not applicable due to high sample/spike ratio.</i> |               |        |      |          |       |    |                  |         |
| <b>SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)</b>                                                     |               |        |      |          |       |    |                  |         |
| Antimony                                                                                                | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 09/24/2021 12:04 | 181937  |
| Arsenic                                                                                                 | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 09/24/2021 12:04 | 181937  |
| Barium                                                                                                  | NELAP         | 0.0010 |      | 0.0878   | mg/L  | 5  | 09/24/2021 12:04 | 181937  |
| Boron                                                                                                   | NELAP         | 0.0250 |      | 0.114    | mg/L  | 5  | 09/27/2021 12:58 | 181937  |
| Cadmium                                                                                                 | NELAP         | 0.0010 | J    | 0.0002   | mg/L  | 5  | 09/24/2021 12:04 | 181937  |
| Chromium                                                                                                | NELAP         | 0.0015 |      | < 0.0015 | mg/L  | 5  | 09/24/2021 12:04 | 181937  |
| Cobalt                                                                                                  | NELAP         | 0.0010 |      | 0.0049   | mg/L  | 5  | 09/24/2021 12:04 | 181937  |
| Lead                                                                                                    | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 09/24/2021 12:04 | 181937  |
| Lithium                                                                                                 | *             | 0.0030 |      | 0.0131   | mg/L  | 5  | 09/24/2021 12:04 | 181937  |
| Molybdenum                                                                                              | NELAP         | 0.0015 | J    | 0.0011   | mg/L  | 5  | 09/24/2021 12:04 | 181937  |
| Selenium                                                                                                | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 09/24/2021 12:04 | 181937  |

Client: Vistra Energy  
 Client Project: Hennepin GW Q3 2021  
 Lab ID: 21081266-010  
 Matrix: GROUNDWATER

Work Order: 21081266  
 Report Date: 15-Oct-21  
 Client Sample ID: 08D  
 Collection Date: 09/09/2021 14:11

| Analyses                                            | Certification | RL     | Qual | Result   | Units | DF | Date Analyzed    | Batch   |
|-----------------------------------------------------|---------------|--------|------|----------|-------|----|------------------|---------|
| <b>FIELD ELEVATION MEASUREMENTS</b>                 |               |        |      |          |       |    |                  |         |
| Depth to water from measuring point                 | *             | 0      |      | 53.80    | ft    | 1  | 09/09/2021 14:11 | R299257 |
| <b>STANDARD METHODS 2130 B FIELD</b>                |               |        |      |          |       |    |                  |         |
| Turbidity                                           | *             | 1.0    |      | 3.7      | NTU   | 1  | 09/09/2021 14:11 | R299257 |
| <b>STANDARD METHODS 18TH ED. 2580 B FIELD</b>       |               |        |      |          |       |    |                  |         |
| Oxidation-Reduction Potential                       | *             | -300   |      | 146      | mV    | 1  | 09/09/2021 14:11 | R299257 |
| <b>STANDARD METHODS 2550 B FIELD</b>                |               |        |      |          |       |    |                  |         |
| Temperature                                         | *             | 0      |      | 14.3     | °C    | 1  | 09/09/2021 14:11 | R299257 |
| <b>STANDARD METHODS 4500-O G FIELD</b>              |               |        |      |          |       |    |                  |         |
| Oxygen, Dissolved                                   | *             | 0      |      | 0.29     | mg/L  | 1  | 09/09/2021 14:11 | R299257 |
| <b>SW-846 9040B</b>                                 |               |        |      |          |       |    |                  |         |
| pH, Field                                           | *             | 1.00   |      | 6.58     |       | 1  | 09/09/2021 14:11 | R299257 |
| <b>SW-846 9050A</b>                                 |               |        |      |          |       |    |                  |         |
| Spec. Conductance, Field                            | *             | 1.00   |      | 2150     | µS/cm | 1  | 09/09/2021 14:11 | R299257 |
| <b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>   |               |        |      |          |       |    |                  |         |
| Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )     | NELAP         | 0      |      | 518      | mg/L  | 1  | 09/13/2021 12:09 | R298870 |
| <b>STANDARD METHODS 2320 B 1997, 2011</b>           |               |        |      |          |       |    |                  |         |
| Alkalinity, Carbonate (as CaCO <sub>3</sub> )       | NELAP         | 0      |      | 0        | mg/L  | 1  | 09/13/2021 12:09 | R298870 |
| <b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>   |               |        |      |          |       |    |                  |         |
| Total Dissolved Solids                              | NELAP         | 20     |      | 1090     | mg/L  | 1  | 09/14/2021 15:11 | R298970 |
| <b>SW-846 9036 (TOTAL)</b>                          |               |        |      |          |       |    |                  |         |
| Sulfate                                             | NELAP         | 100    |      | 123      | mg/L  | 10 | 09/16/2021 1:54  | R299021 |
| <b>SW-846 9214 (TOTAL)</b>                          |               |        |      |          |       |    |                  |         |
| Fluoride                                            | NELAP         | 0.10   |      | 0.10     | mg/L  | 1  | 09/13/2021 11:46 | R298849 |
| <b>SW-846 9251 (TOTAL)</b>                          |               |        |      |          |       |    |                  |         |
| Chloride                                            | NELAP         | 10     |      | 250      | mg/L  | 10 | 09/16/2021 1:54  | R299022 |
| <b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>   |               |        |      |          |       |    |                  |         |
| Calcium                                             | NELAP         | 0.100  |      | 216      | mg/L  | 1  | 09/17/2021 22:06 | 181934  |
| Magnesium                                           | NELAP         | 0.0500 |      | 63.9     | mg/L  | 1  | 09/17/2021 22:06 | 181934  |
| Potassium                                           | NELAP         | 0.100  |      | 4.56     | mg/L  | 1  | 09/20/2021 11:53 | 181934  |
| Sodium                                              | NELAP         | 0.0500 |      | 128      | mg/L  | 1  | 09/17/2021 22:06 | 181934  |
| <b>SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)</b> |               |        |      |          |       |    |                  |         |
| Antimony                                            | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 09/24/2021 12:30 | 181937  |
| Arsenic                                             | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 09/24/2021 12:30 | 181937  |
| Barium                                              | NELAP         | 0.0010 |      | 0.122    | mg/L  | 5  | 09/24/2021 12:30 | 181937  |
| Boron                                               | NELAP         | 0.0250 |      | 0.0965   | mg/L  | 5  | 09/27/2021 13:17 | 181937  |
| Cadmium                                             | NELAP         | 0.0010 | J    | 0.0004   | mg/L  | 5  | 09/24/2021 12:30 | 181937  |
| Chromium                                            | NELAP         | 0.0015 |      | < 0.0015 | mg/L  | 5  | 09/24/2021 12:30 | 181937  |
| Cobalt                                              | NELAP         | 0.0010 |      | 0.0032   | mg/L  | 5  | 09/24/2021 12:30 | 181937  |
| Lead                                                | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 09/24/2021 12:30 | 181937  |
| Lithium                                             | *             | 0.0030 |      | 0.0137   | mg/L  | 5  | 09/24/2021 12:30 | 181937  |
| Molybdenum                                          | NELAP         | 0.0015 | J    | 0.0010   | mg/L  | 5  | 09/24/2021 12:30 | 181937  |
| Selenium                                            | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 09/24/2021 12:30 | 181937  |

Client: Vistra Energy  
 Client Project: Hennepin GW Q3 2021  
 Lab ID: 21081266-015  
 Matrix: GROUNDWATER

Work Order: 21081266  
 Report Date: 15-Oct-21  
 Client Sample ID: 16  
 Collection Date: 09/09/2021 13:53

| Analyses                                            | Certification | RL     | Qual | Result   | Units | DF | Date Analyzed    | Batch   |
|-----------------------------------------------------|---------------|--------|------|----------|-------|----|------------------|---------|
| <b>FIELD ELEVATION MEASUREMENTS</b>                 |               |        |      |          |       |    |                  |         |
| Depth to water from measuring point                 | *             | 0      |      | 53.55    | ft    | 1  | 09/09/2021 13:53 | R299257 |
| <b>STANDARD METHODS 2130 B FIELD</b>                |               |        |      |          |       |    |                  |         |
| Turbidity                                           | *             | 1.0    |      | 3.8      | NTU   | 1  | 09/09/2021 13:53 | R299257 |
| <b>STANDARD METHODS 18TH ED. 2580 B FIELD</b>       |               |        |      |          |       |    |                  |         |
| Oxidation-Reduction Potential                       | *             | -300   |      | 113      | mV    | 1  | 09/09/2021 13:53 | R299257 |
| <b>STANDARD METHODS 2550 B FIELD</b>                |               |        |      |          |       |    |                  |         |
| Temperature                                         | *             | 0      |      | 23.8     | °C    | 1  | 09/09/2021 13:53 | R299257 |
| <b>STANDARD METHODS 4500-O G FIELD</b>              |               |        |      |          |       |    |                  |         |
| Oxygen, Dissolved                                   | *             | 0      |      | 1.25     | mg/L  | 1  | 09/09/2021 13:53 | R299257 |
| <b>SW-846 9040B</b>                                 |               |        |      |          |       |    |                  |         |
| pH, Field                                           | *             | 1.00   |      | 7.11     |       | 1  | 09/09/2021 13:53 | R299257 |
| <b>SW-846 9050A</b>                                 |               |        |      |          |       |    |                  |         |
| Spec. Conductance, Field                            | *             | 1.00   |      | 877      | µS/cm | 1  | 09/09/2021 13:53 | R299257 |
| <b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>   |               |        |      |          |       |    |                  |         |
| Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )     | NELAP         | 0      |      | 221      | mg/L  | 1  | 09/13/2021 12:45 | R298870 |
| <b>STANDARD METHODS 2320 B 1997, 2011</b>           |               |        |      |          |       |    |                  |         |
| Alkalinity, Carbonate (as CaCO <sub>3</sub> )       | NELAP         | 0      |      | 0        | mg/L  | 1  | 09/13/2021 12:45 | R298870 |
| <b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>   |               |        |      |          |       |    |                  |         |
| Total Dissolved Solids                              | NELAP         | 20     |      | 476      | mg/L  | 1  | 09/15/2021 15:18 | R299042 |
| <b>SW-846 9036 (TOTAL)</b>                          |               |        |      |          |       |    |                  |         |
| Sulfate                                             | NELAP         | 20     |      | 70       | mg/L  | 2  | 09/16/2021 2:10  | R299021 |
| <b>SW-846 9214 (TOTAL)</b>                          |               |        |      |          |       |    |                  |         |
| Fluoride                                            | NELAP         | 0.10   |      | 0.25     | mg/L  | 1  | 09/13/2021 12:00 | R298849 |
| <b>SW-846 9251 (TOTAL)</b>                          |               |        |      |          |       |    |                  |         |
| Chloride                                            | NELAP         | 5      |      | 100      | mg/L  | 5  | 09/16/2021 21:06 | R299090 |
| <b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>   |               |        |      |          |       |    |                  |         |
| Calcium                                             | NELAP         | 0.100  |      | 80.2     | mg/L  | 1  | 09/17/2021 22:11 | 181934  |
| Magnesium                                           | NELAP         | 0.0500 |      | 29.3     | mg/L  | 1  | 09/17/2021 22:11 | 181934  |
| Potassium                                           | NELAP         | 0.100  |      | 4.88     | mg/L  | 1  | 09/20/2021 12:16 | 181934  |
| Sodium                                              | NELAP         | 0.0500 |      | 54.4     | mg/L  | 1  | 09/17/2021 22:11 | 181934  |
| <b>SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)</b> |               |        |      |          |       |    |                  |         |
| Antimony                                            | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 09/23/2021 0:36  | 181937  |
| Arsenic                                             | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 09/23/2021 0:36  | 181937  |
| Barium                                              | NELAP         | 0.0010 |      | 0.0818   | mg/L  | 5  | 09/23/2021 0:36  | 181937  |
| Boron                                               | NELAP         | 0.0250 |      | 0.138    | mg/L  | 5  | 09/27/2021 14:17 | 181937  |
| Cadmium                                             | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 09/23/2021 0:36  | 181937  |
| Chromium                                            | NELAP         | 0.0015 |      | < 0.0015 | mg/L  | 5  | 09/23/2021 0:36  | 181937  |
| Cobalt                                              | NELAP         | 0.0010 | J    | 0.0001   | mg/L  | 5  | 09/23/2021 0:36  | 181937  |
| Lead                                                | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 09/23/2021 0:36  | 181937  |
| Lithium                                             | *             | 0.0030 |      | 0.0082   | mg/L  | 5  | 09/23/2021 0:36  | 181937  |
| Molybdenum                                          | NELAP         | 0.0015 |      | 0.0071   | mg/L  | 5  | 09/23/2021 0:36  | 181937  |
| Selenium                                            | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 09/23/2021 0:36  | 181937  |



Client: Vistra Energy  
 Client Project: Hennepin GW Q3 2021  
 Lab ID: 21081266-016  
 Matrix: GROUNDWATER

Work Order: 21081266  
 Report Date: 15-Oct-21  
 Client Sample ID: 17  
 Collection Date: 09/09/2021 13:36

| Analyses                                            | Certification | RL     | Qual | Result   | Units | DF | Date Analyzed    | Batch   |
|-----------------------------------------------------|---------------|--------|------|----------|-------|----|------------------|---------|
| <b>FIELD ELEVATION MEASUREMENTS</b>                 |               |        |      |          |       |    |                  |         |
| Depth to water from measuring point                 | *             | 0      |      | 54.33    | ft    | 1  | 09/09/2021 13:36 | R299257 |
| <b>STANDARD METHODS 2130 B FIELD</b>                |               |        |      |          |       |    |                  |         |
| Turbidity                                           | *             | 1.0    |      | 3.7      | NTU   | 1  | 09/09/2021 13:36 | R299257 |
| <b>STANDARD METHODS 18TH ED. 2580 B FIELD</b>       |               |        |      |          |       |    |                  |         |
| Oxidation-Reduction Potential                       | *             | -300   |      | 110      | mV    | 1  | 09/09/2021 13:36 | R299257 |
| <b>STANDARD METHODS 2550 B FIELD</b>                |               |        |      |          |       |    |                  |         |
| Temperature                                         | *             | 0      |      | 22.9     | °C    | 1  | 09/09/2021 13:36 | R299257 |
| <b>STANDARD METHODS 4500-O G FIELD</b>              |               |        |      |          |       |    |                  |         |
| Oxygen, Dissolved                                   | *             | 0      |      | 1.10     | mg/L  | 1  | 09/09/2021 13:36 | R299257 |
| <b>SW-846 9040B</b>                                 |               |        |      |          |       |    |                  |         |
| pH, Field                                           | *             | 1.00   |      | 7.26     |       | 1  | 09/09/2021 13:36 | R299257 |
| <b>SW-846 9050A</b>                                 |               |        |      |          |       |    |                  |         |
| Spec. Conductance, Field                            | *             | 1.00   |      | 798      | µS/cm | 1  | 09/09/2021 13:36 | R299257 |
| <b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>   |               |        |      |          |       |    |                  |         |
| Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )     | NELAP         | 0      |      | 180      | mg/L  | 1  | 09/13/2021 12:57 | R298870 |
| <b>STANDARD METHODS 2320 B 1997, 2011</b>           |               |        |      |          |       |    |                  |         |
| Alkalinity, Carbonate (as CaCO <sub>3</sub> )       | NELAP         | 0      |      | 0        | mg/L  | 1  | 09/13/2021 12:57 | R298870 |
| <b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>   |               |        |      |          |       |    |                  |         |
| Total Dissolved Solids                              | NELAP         | 20     |      | 398      | mg/L  | 1  | 09/15/2021 15:18 | R299042 |
| <b>SW-846 9036 (TOTAL)</b>                          |               |        |      |          |       |    |                  |         |
| Sulfate                                             | NELAP         | 20     |      | 58       | mg/L  | 2  | 09/16/2021 2:15  | R299021 |
| <b>SW-846 9214 (TOTAL)</b>                          |               |        |      |          |       |    |                  |         |
| Fluoride                                            | NELAP         | 0.10   |      | 0.24     | mg/L  | 1  | 09/13/2021 12:02 | R298849 |
| <b>SW-846 9251 (TOTAL)</b>                          |               |        |      |          |       |    |                  |         |
| Chloride                                            | NELAP         | 2      |      | 74       | mg/L  | 2  | 09/16/2021 2:16  | R299022 |
| <b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>   |               |        |      |          |       |    |                  |         |
| Calcium                                             | NELAP         | 0.100  |      | 68.6     | mg/L  | 1  | 09/17/2021 22:26 | 181934  |
| Magnesium                                           | NELAP         | 0.0500 |      | 27.4     | mg/L  | 1  | 09/17/2021 22:26 | 181934  |
| Potassium                                           | NELAP         | 0.100  |      | 4.28     | mg/L  | 1  | 09/20/2021 12:18 | 181934  |
| Sodium                                              | NELAP         | 0.0500 |      | 36.7     | mg/L  | 1  | 09/17/2021 22:26 | 181934  |
| <b>SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)</b> |               |        |      |          |       |    |                  |         |
| Antimony                                            | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 09/23/2021 0:44  | 181937  |
| Arsenic                                             | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 09/23/2021 0:44  | 181937  |
| Barium                                              | NELAP         | 0.0010 |      | 0.0533   | mg/L  | 5  | 09/23/2021 0:44  | 181937  |
| Boron                                               | NELAP         | 0.0250 |      | 0.105    | mg/L  | 5  | 09/27/2021 14:23 | 181937  |
| Cadmium                                             | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 09/23/2021 0:44  | 181937  |
| Chromium                                            | NELAP         | 0.0015 |      | < 0.0015 | mg/L  | 5  | 09/23/2021 0:44  | 181937  |
| Cobalt                                              | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 09/23/2021 0:44  | 181937  |
| Lead                                                | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 09/23/2021 0:44  | 181937  |
| Lithium                                             | *             | 0.0030 |      | 0.0062   | mg/L  | 5  | 09/23/2021 0:44  | 181937  |
| Molybdenum                                          | NELAP         | 0.0015 |      | 0.0060   | mg/L  | 5  | 09/23/2021 0:44  | 181937  |
| Selenium                                            | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 09/23/2021 0:44  | 181937  |

Client: Vistra Energy  
 Client Project: Hennepin GW Q3 2021  
 Lab ID: 21081266-017  
 Matrix: GROUNDWATER

Work Order: 21081266  
 Report Date: 15-Oct-21  
 Client Sample ID: 18D  
 Collection Date: 09/10/2021 9:09

| Analyses                                            | Certification | RL     | Qual | Result   | Units | DF | Date Analyzed    | Batch   |
|-----------------------------------------------------|---------------|--------|------|----------|-------|----|------------------|---------|
| <b>FIELD ELEVATION MEASUREMENTS</b>                 |               |        |      |          |       |    |                  |         |
| Depth to water from measuring point                 | *             | 0      |      | 40.28    | ft    | 1  | 09/10/2021 9:09  | R299257 |
| <b>STANDARD METHODS 2130 B FIELD</b>                |               |        |      |          |       |    |                  |         |
| Turbidity                                           | *             | 1.0    |      | 6.6      | NTU   | 1  | 09/10/2021 9:09  | R299257 |
| <b>STANDARD METHODS 18TH ED. 2580 B FIELD</b>       |               |        |      |          |       |    |                  |         |
| Oxidation-Reduction Potential                       | *             | -300   |      | 151      | mV    | 1  | 09/10/2021 9:09  | R299257 |
| <b>STANDARD METHODS 2550 B FIELD</b>                |               |        |      |          |       |    |                  |         |
| Temperature                                         | *             | 0      |      | 17.6     | °C    | 1  | 09/10/2021 9:09  | R299257 |
| <b>STANDARD METHODS 4500-O G FIELD</b>              |               |        |      |          |       |    |                  |         |
| Oxygen, Dissolved                                   | *             | 0      |      | 0.54     | mg/L  | 1  | 09/10/2021 9:09  | R299257 |
| <b>SW-846 9040B</b>                                 |               |        |      |          |       |    |                  |         |
| pH, Field                                           | *             | 1.00   |      | 7.03     |       | 1  | 09/10/2021 9:09  | R299257 |
| <b>SW-846 9050A</b>                                 |               |        |      |          |       |    |                  |         |
| Spec. Conductance, Field                            | *             | 1.00   |      | 1030     | µS/cm | 1  | 09/10/2021 9:09  | R299257 |
| <b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>   |               |        |      |          |       |    |                  |         |
| Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )     | NELAP         | 0      |      | 259      | mg/L  | 1  | 09/13/2021 13:04 | R298870 |
| <b>STANDARD METHODS 2320 B 1997, 2011</b>           |               |        |      |          |       |    |                  |         |
| Alkalinity, Carbonate (as CaCO <sub>3</sub> )       | NELAP         | 0      |      | 0        | mg/L  | 1  | 09/13/2021 13:04 | R298870 |
| <b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>   |               |        |      |          |       |    |                  |         |
| Total Dissolved Solids                              | NELAP         | 20     |      | 528      | mg/L  | 1  | 09/16/2021 16:51 | R299087 |
| <b>SW-846 9036 (TOTAL)</b>                          |               |        |      |          |       |    |                  |         |
| Sulfate                                             | NELAP         | 50     |      | 103      | mg/L  | 5  | 09/16/2021 2:18  | R299021 |
| <b>SW-846 9214 (TOTAL)</b>                          |               |        |      |          |       |    |                  |         |
| Fluoride                                            | NELAP         | 0.10   |      | 0.15     | mg/L  | 1  | 09/13/2021 12:03 | R298849 |
| <b>SW-846 9251 (TOTAL)</b>                          |               |        |      |          |       |    |                  |         |
| Chloride                                            | NELAP         | 5      |      | 81       | mg/L  | 5  | 09/16/2021 2:18  | R299022 |
| <b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>   |               |        |      |          |       |    |                  |         |
| Calcium                                             | NELAP         | 0.100  |      | 105      | mg/L  | 1  | 09/20/2021 12:50 | 181946  |
| Magnesium                                           | NELAP         | 0.0500 |      | 30.3     | mg/L  | 1  | 09/20/2021 12:50 | 181946  |
| Potassium                                           | NELAP         | 0.500  |      | 9.96     | mg/L  | 5  | 09/20/2021 18:29 | 181946  |
| Sodium                                              | NELAP         | 0.0500 |      | 52.3     | mg/L  | 1  | 09/20/2021 12:50 | 181946  |
| <b>SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)</b> |               |        |      |          |       |    |                  |         |
| Antimony                                            | NELAP         | 0.0010 | J    | 0.0007   | mg/L  | 5  | 09/21/2021 17:03 | 181947  |
| Arsenic                                             | NELAP         | 0.0010 | J    | 0.0004   | mg/L  | 5  | 09/21/2021 17:03 | 181947  |
| Barium                                              | NELAP         | 0.0010 |      | 0.0723   | mg/L  | 5  | 09/21/2021 17:03 | 181947  |
| Boron                                               | NELAP         | 0.0250 |      | 1.35     | mg/L  | 5  | 09/21/2021 17:03 | 181947  |
| Cadmium                                             | NELAP         | 0.0010 | J    | 0.0005   | mg/L  | 5  | 09/21/2021 17:03 | 181947  |
| Chromium                                            | NELAP         | 0.0015 |      | < 0.0015 | mg/L  | 5  | 09/21/2021 17:03 | 181947  |
| Cobalt                                              | NELAP         | 0.0010 |      | 0.0025   | mg/L  | 5  | 09/21/2021 17:03 | 181947  |
| Lead                                                | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 09/21/2021 17:03 | 181947  |
| Lithium                                             | *             | 0.0030 |      | 0.0244   | mg/L  | 5  | 09/21/2021 17:03 | 181947  |
| Molybdenum                                          | NELAP         | 0.0015 |      | 0.0342   | mg/L  | 5  | 09/21/2021 17:03 | 181947  |
| Selenium                                            | NELAP         | 0.0010 | J    | 0.0007   | mg/L  | 5  | 09/21/2021 17:03 | 181947  |

Client: Vistra Energy  
 Client Project: Hennepin GW Q3 2021  
 Lab ID: 21081266-018  
 Matrix: GROUNDWATER

Work Order: 21081266  
 Report Date: 15-Oct-21  
 Client Sample ID: 18S  
 Collection Date: 09/10/2021 8:54

| Analyses                                            | Certification | RL     | Qual | Result   | Units | DF | Date Analyzed    | Batch   |
|-----------------------------------------------------|---------------|--------|------|----------|-------|----|------------------|---------|
| <b>FIELD ELEVATION MEASUREMENTS</b>                 |               |        |      |          |       |    |                  |         |
| Depth to water from measuring point                 | *             | 0      |      | 40.12    | ft    | 1  | 09/10/2021 8:54  | R299257 |
| <b>STANDARD METHODS 2130 B FIELD</b>                |               |        |      |          |       |    |                  |         |
| Turbidity                                           | *             | 1.0    |      | 2.9      | NTU   | 1  | 09/10/2021 8:54  | R299257 |
| <b>STANDARD METHODS 18TH ED. 2580 B FIELD</b>       |               |        |      |          |       |    |                  |         |
| Oxidation-Reduction Potential                       | *             | -300   |      | 151      | mV    | 1  | 09/10/2021 8:54  | R299257 |
| <b>STANDARD METHODS 2550 B FIELD</b>                |               |        |      |          |       |    |                  |         |
| Temperature                                         | *             | 0      |      | 17.5     | °C    | 1  | 09/10/2021 8:54  | R299257 |
| <b>STANDARD METHODS 4500-O G FIELD</b>              |               |        |      |          |       |    |                  |         |
| Oxygen, Dissolved                                   | *             | 0      |      | 0.37     | mg/L  | 1  | 09/10/2021 8:54  | R299257 |
| <b>SW-846 9040B</b>                                 |               |        |      |          |       |    |                  |         |
| pH, Field                                           | *             | 1.00   |      | 7.19     |       | 1  | 09/10/2021 8:54  | R299257 |
| <b>SW-846 9050A</b>                                 |               |        |      |          |       |    |                  |         |
| Spec. Conductance, Field                            | *             | 1.00   |      | 1030     | µS/cm | 1  | 09/10/2021 8:54  | R299257 |
| <b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>   |               |        |      |          |       |    |                  |         |
| Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )     | NELAP         | 0      |      | 223      | mg/L  | 1  | 09/13/2021 13:10 | R298870 |
| <b>STANDARD METHODS 2320 B 1997, 2011</b>           |               |        |      |          |       |    |                  |         |
| Alkalinity, Carbonate (as CaCO <sub>3</sub> )       | NELAP         | 0      |      | 0        | mg/L  | 1  | 09/13/2021 13:10 | R298870 |
| <b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>   |               |        |      |          |       |    |                  |         |
| Total Dissolved Solids                              | NELAP         | 20     |      | 548      | mg/L  | 1  | 09/16/2021 16:52 | R299087 |
| <b>SW-846 9036 (TOTAL)</b>                          |               |        |      |          |       |    |                  |         |
| Sulfate                                             | NELAP         | 50     |      | 147      | mg/L  | 5  | 09/16/2021 2:23  | R299021 |
| <b>SW-846 9214 (TOTAL)</b>                          |               |        |      |          |       |    |                  |         |
| Fluoride                                            | NELAP         | 0.10   |      | 0.16     | mg/L  | 1  | 09/13/2021 12:05 | R298849 |
| <b>SW-846 9251 (TOTAL)</b>                          |               |        |      |          |       |    |                  |         |
| Chloride                                            | NELAP         | 5      |      | 73       | mg/L  | 5  | 09/16/2021 2:24  | R299022 |
| <b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>   |               |        |      |          |       |    |                  |         |
| Calcium                                             | NELAP         | 0.100  |      | 108      | mg/L  | 1  | 09/20/2021 12:54 | 181946  |
| Magnesium                                           | NELAP         | 0.0500 |      | 25.0     | mg/L  | 1  | 09/20/2021 12:54 | 181946  |
| Potassium                                           | NELAP         | 0.500  |      | 11.8     | mg/L  | 5  | 09/20/2021 18:33 | 181946  |
| Sodium                                              | NELAP         | 0.0500 |      | 53.4     | mg/L  | 1  | 09/20/2021 12:54 | 181946  |
| <b>SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)</b> |               |        |      |          |       |    |                  |         |
| Antimony                                            | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 09/21/2021 17:11 | 181947  |
| Arsenic                                             | NELAP         | 0.0010 | J    | 0.0006   | mg/L  | 5  | 09/21/2021 17:11 | 181947  |
| Barium                                              | NELAP         | 0.0010 |      | 0.0610   | mg/L  | 5  | 09/21/2021 17:11 | 181947  |
| Boron                                               | NELAP         | 0.0250 |      | 2.91     | mg/L  | 5  | 09/21/2021 17:11 | 181947  |
| Cadmium                                             | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 09/21/2021 17:11 | 181947  |
| Chromium                                            | NELAP         | 0.0015 | J    | 0.0012   | mg/L  | 5  | 09/21/2021 17:11 | 181947  |
| Cobalt                                              | NELAP         | 0.0010 | J    | 0.0001   | mg/L  | 5  | 09/21/2021 17:11 | 181947  |
| Lead                                                | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 09/21/2021 17:11 | 181947  |
| Lithium                                             | *             | 0.0030 |      | 0.0526   | mg/L  | 5  | 09/21/2021 17:11 | 181947  |
| Molybdenum                                          | NELAP         | 0.0015 |      | 0.155    | mg/L  | 5  | 09/21/2021 17:11 | 181947  |
| Selenium                                            | NELAP         | 0.0010 |      | 0.0198   | mg/L  | 5  | 09/21/2021 17:11 | 181947  |

Client: Vistra Energy  
 Client Project: Hennepin GW Q3 2021  
 Lab ID: 21081266-019  
 Matrix: GROUNDWATER

Work Order: 21081266  
 Report Date: 15-Oct-21  
 Client Sample ID: 19D  
 Collection Date: 09/09/2021 16:08

| Analyses                                            | Certification | RL     | Qual | Result   | Units | DF | Date Analyzed    | Batch   |
|-----------------------------------------------------|---------------|--------|------|----------|-------|----|------------------|---------|
| <b>FIELD ELEVATION MEASUREMENTS</b>                 |               |        |      |          |       |    |                  |         |
| Depth to water from measuring point                 | *             | 0      |      | 39.42    | ft    | 1  | 09/09/2021 16:08 | R299257 |
| <b>STANDARD METHODS 2130 B FIELD</b>                |               |        |      |          |       |    |                  |         |
| Turbidity                                           | *             | 1.0    |      | 4.6      | NTU   | 1  | 09/09/2021 16:08 | R299257 |
| <b>STANDARD METHODS 18TH ED. 2580 B FIELD</b>       |               |        |      |          |       |    |                  |         |
| Oxidation-Reduction Potential                       | *             | -300   |      | -3       | mV    | 1  | 09/09/2021 16:08 | R299257 |
| <b>STANDARD METHODS 2550 B FIELD</b>                |               |        |      |          |       |    |                  |         |
| Temperature                                         | *             | 0      |      | 16.6     | °C    | 1  | 09/09/2021 16:08 | R299257 |
| <b>STANDARD METHODS 4500-O G FIELD</b>              |               |        |      |          |       |    |                  |         |
| Oxygen, Dissolved                                   | *             | 0      |      | 0.63     | mg/L  | 1  | 09/09/2021 16:08 | R299257 |
| <b>SW-846 9040B</b>                                 |               |        |      |          |       |    |                  |         |
| pH, Field                                           | *             | 1.00   |      | 8.16     |       | 1  | 09/09/2021 16:08 | R299257 |
| <b>SW-846 9050A</b>                                 |               |        |      |          |       |    |                  |         |
| Spec. Conductance, Field                            | *             | 1.00   |      | 673      | µS/cm | 1  | 09/09/2021 16:08 | R299257 |
| <b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>   |               |        |      |          |       |    |                  |         |
| Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )     | NELAP         | 0      |      | 101      | mg/L  | 1  | 09/13/2021 13:15 | R298870 |
| <b>STANDARD METHODS 2320 B 1997, 2011</b>           |               |        |      |          |       |    |                  |         |
| Alkalinity, Carbonate (as CaCO <sub>3</sub> )       | NELAP         | 0      |      | 0        | mg/L  | 1  | 09/13/2021 13:15 | R298870 |
| <b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>   |               |        |      |          |       |    |                  |         |
| Total Dissolved Solids                              | NELAP         | 20     |      | 362      | mg/L  | 1  | 09/15/2021 15:19 | R299042 |
| <b>SW-846 9036 (TOTAL)</b>                          |               |        |      |          |       |    |                  |         |
| Sulfate                                             | NELAP         | 20     |      | 81       | mg/L  | 2  | 09/16/2021 2:26  | R299021 |
| <b>SW-846 9214 (TOTAL)</b>                          |               |        |      |          |       |    |                  |         |
| Fluoride                                            | NELAP         | 0.10   |      | 0.15     | mg/L  | 1  | 09/13/2021 12:07 | R298849 |
| <b>SW-846 9251 (TOTAL)</b>                          |               |        |      |          |       |    |                  |         |
| Chloride                                            | NELAP         | 2      |      | 70       | mg/L  | 2  | 09/16/2021 2:27  | R299022 |
| <b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>   |               |        |      |          |       |    |                  |         |
| Calcium                                             | NELAP         | 0.100  |      | 55.6     | mg/L  | 1  | 09/17/2021 22:28 | 181934  |
| Magnesium                                           | NELAP         | 0.0500 |      | 14.8     | mg/L  | 1  | 09/17/2021 22:28 | 181934  |
| Potassium                                           | NELAP         | 0.100  |      | 8.58     | mg/L  | 1  | 09/20/2021 12:19 | 181934  |
| Sodium                                              | NELAP         | 0.0500 |      | 41.1     | mg/L  | 1  | 09/17/2021 22:28 | 181934  |
| <b>SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)</b> |               |        |      |          |       |    |                  |         |
| Antimony                                            | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 09/23/2021 0:53  | 181937  |
| Arsenic                                             | NELAP         | 0.0010 |      | 0.0013   | mg/L  | 5  | 09/23/2021 0:53  | 181937  |
| Barium                                              | NELAP         | 0.0010 |      | 0.0245   | mg/L  | 5  | 09/23/2021 0:53  | 181937  |
| Boron                                               | NELAP         | 0.0250 |      | 3.64     | mg/L  | 5  | 09/27/2021 14:29 | 181937  |
| Cadmium                                             | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 09/23/2021 0:53  | 181937  |
| Chromium                                            | NELAP         | 0.0015 |      | < 0.0015 | mg/L  | 5  | 09/23/2021 0:53  | 181937  |
| Cobalt                                              | NELAP         | 0.0010 | J    | 0.0003   | mg/L  | 5  | 09/23/2021 0:53  | 181937  |
| Lead                                                | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 09/23/2021 0:53  | 181937  |
| Lithium                                             | *             | 0.0030 |      | 0.131    | mg/L  | 5  | 09/23/2021 0:53  | 181937  |
| Molybdenum                                          | NELAP         | 0.0015 |      | 0.0370   | mg/L  | 5  | 09/23/2021 0:53  | 181937  |
| Selenium                                            | NELAP         | 0.0010 |      | 0.0015   | mg/L  | 5  | 09/23/2021 0:53  | 181937  |

Client: Vistra Energy  
 Client Project: Hennepin GW Q3 2021  
 Lab ID: 21081266-020  
 Matrix: GROUNDWATER

Work Order: 21081266  
 Report Date: 15-Oct-21  
 Client Sample ID: 19S  
 Collection Date: 09/09/2021 15:51

| Analyses                                            | Certification | RL     | Qual | Result   | Units | DF | Date Analyzed    | Batch   |
|-----------------------------------------------------|---------------|--------|------|----------|-------|----|------------------|---------|
| <b>FIELD ELEVATION MEASUREMENTS</b>                 |               |        |      |          |       |    |                  |         |
| Depth to water from measuring point                 | *             | 0      |      | 39.51    | ft    | 1  | 09/09/2021 15:51 | R299257 |
| <b>STANDARD METHODS 2130 B FIELD</b>                |               |        |      |          |       |    |                  |         |
| Turbidity                                           | *             | 1.0    |      | 7.4      | NTU   | 1  | 09/09/2021 15:51 | R299257 |
| <b>STANDARD METHODS 18TH ED. 2580 B FIELD</b>       |               |        |      |          |       |    |                  |         |
| Oxidation-Reduction Potential                       | *             | -300   |      | -95      | mV    | 1  | 09/09/2021 15:51 | R299257 |
| <b>STANDARD METHODS 2550 B FIELD</b>                |               |        |      |          |       |    |                  |         |
| Temperature                                         | *             | 0      |      | 16.7     | °C    | 1  | 09/09/2021 15:51 | R299257 |
| <b>STANDARD METHODS 4500-O G FIELD</b>              |               |        |      |          |       |    |                  |         |
| Oxygen, Dissolved                                   | *             | 0      |      | 0.48     | mg/L  | 1  | 09/09/2021 15:51 | R299257 |
| <b>SW-846 9040B</b>                                 |               |        |      |          |       |    |                  |         |
| pH, Field                                           | *             | 1.00   |      | 7.37     |       | 1  | 09/09/2021 15:51 | R299257 |
| <b>SW-846 9050A</b>                                 |               |        |      |          |       |    |                  |         |
| Spec. Conductance, Field                            | *             | 1.00   |      | 856      | µS/cm | 1  | 09/09/2021 15:51 | R299257 |
| <b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>   |               |        |      |          |       |    |                  |         |
| Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )     | NELAP         | 0      |      | 136      | mg/L  | 1  | 09/13/2021 13:21 | R298870 |
| <b>STANDARD METHODS 2320 B 1997, 2011</b>           |               |        |      |          |       |    |                  |         |
| Alkalinity, Carbonate (as CaCO <sub>3</sub> )       | NELAP         | 0      |      | 0        | mg/L  | 1  | 09/13/2021 13:21 | R298870 |
| <b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>   |               |        |      |          |       |    |                  |         |
| Total Dissolved Solids                              | NELAP         | 20     |      | 450      | mg/L  | 1  | 09/15/2021 15:19 | R299042 |
| <b>SW-846 9036 (TOTAL)</b>                          |               |        |      |          |       |    |                  |         |
| Sulfate                                             | NELAP         | 50     |      | 139      | mg/L  | 5  | 09/16/2021 2:50  | R299021 |
| <b>SW-846 9214 (TOTAL)</b>                          |               |        |      |          |       |    |                  |         |
| Fluoride                                            | NELAP         | 0.10   |      | 0.15     | mg/L  | 1  | 09/13/2021 12:09 | R298849 |
| <b>SW-846 9251 (TOTAL)</b>                          |               |        |      |          |       |    |                  |         |
| Chloride                                            | NELAP         | 2      |      | 65       | mg/L  | 2  | 09/16/2021 2:45  | R299022 |
| <b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>   |               |        |      |          |       |    |                  |         |
| Calcium                                             | NELAP         | 0.100  |      | 91.3     | mg/L  | 1  | 09/17/2021 22:29 | 181934  |
| Magnesium                                           | NELAP         | 0.0500 |      | 17.0     | mg/L  | 1  | 09/17/2021 22:29 | 181934  |
| Potassium                                           | NELAP         | 0.100  |      | 9.59     | mg/L  | 1  | 09/20/2021 12:21 | 181934  |
| Sodium                                              | NELAP         | 0.0500 |      | 38.7     | mg/L  | 1  | 09/17/2021 22:29 | 181934  |
| <b>SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)</b> |               |        |      |          |       |    |                  |         |
| Antimony                                            | NELAP         | 0.0010 |      | 0.0011   | mg/L  | 5  | 09/23/2021 1:02  | 181937  |
| Arsenic                                             | NELAP         | 0.0010 |      | 0.0012   | mg/L  | 5  | 09/23/2021 1:02  | 181937  |
| Barium                                              | NELAP         | 0.0010 |      | 0.0842   | mg/L  | 5  | 09/23/2021 1:02  | 181937  |
| Boron                                               | NELAP         | 0.0250 |      | 4.68     | mg/L  | 5  | 09/27/2021 14:35 | 181937  |
| Cadmium                                             | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 09/23/2021 1:02  | 181937  |
| Chromium                                            | NELAP         | 0.0015 |      | 0.0024   | mg/L  | 5  | 09/23/2021 1:02  | 181937  |
| Cobalt                                              | NELAP         | 0.0010 | J    | 0.0005   | mg/L  | 5  | 09/23/2021 1:02  | 181937  |
| Lead                                                | NELAP         | 0.0010 |      | 0.0011   | mg/L  | 5  | 09/23/2021 1:02  | 181937  |
| Lithium                                             | *             | 0.0030 |      | 0.0928   | mg/L  | 5  | 09/23/2021 1:02  | 181937  |
| Molybdenum                                          | NELAP         | 0.0015 |      | 0.0424   | mg/L  | 5  | 09/23/2021 1:02  | 181937  |
| Selenium                                            | NELAP         | 0.0010 |      | 0.0173   | mg/L  | 5  | 09/23/2021 1:02  | 181937  |



Client: Vistra Energy  
 Client Project: Hennepin GW Q3 2021  
 Lab ID: 21081266-036  
 Matrix: GROUNDWATER

Work Order: 21081266  
 Report Date: 15-Oct-21  
 Client Sample ID: 45S  
 Collection Date: 09/10/2021 10:24

| Analyses                                            | Certification | RL     | Qual | Result   | Units | DF | Date Analyzed    | Batch   |
|-----------------------------------------------------|---------------|--------|------|----------|-------|----|------------------|---------|
| <b>FIELD ELEVATION MEASUREMENTS</b>                 |               |        |      |          |       |    |                  |         |
| Depth to water from measuring point                 | *             | 0      |      | 19.80    | ft    | 1  | 09/10/2021 10:24 | R299257 |
| <b>STANDARD METHODS 2130 B FIELD</b>                |               |        |      |          |       |    |                  |         |
| Turbidity                                           | *             | 1.0    |      | 3.1      | NTU   | 1  | 09/10/2021 10:24 | R299257 |
| <b>STANDARD METHODS 18TH ED. 2580 B FIELD</b>       |               |        |      |          |       |    |                  |         |
| Oxidation-Reduction Potential                       | *             | -300   |      | 104      | mV    | 1  | 09/10/2021 10:24 | R299257 |
| <b>STANDARD METHODS 2550 B FIELD</b>                |               |        |      |          |       |    |                  |         |
| Temperature                                         | *             | 0      |      | 17.8     | °C    | 1  | 09/10/2021 10:24 | R299257 |
| <b>STANDARD METHODS 4500-O G FIELD</b>              |               |        |      |          |       |    |                  |         |
| Oxygen, Dissolved                                   | *             | 0      |      | 0.23     | mg/L  | 1  | 09/10/2021 10:24 | R299257 |
| <b>SW-846 9040B</b>                                 |               |        |      |          |       |    |                  |         |
| pH, Field                                           | *             | 1.00   |      | 7.15     |       | 1  | 09/10/2021 10:24 | R299257 |
| <b>SW-846 9050A</b>                                 |               |        |      |          |       |    |                  |         |
| Spec. Conductance, Field                            | *             | 1.00   |      | 906      | µS/cm | 1  | 09/10/2021 10:24 | R299257 |
| <b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>   |               |        |      |          |       |    |                  |         |
| Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )     | NELAP         | 0      |      | 249      | mg/L  | 1  | 09/13/2021 14:29 | R298870 |
| <b>STANDARD METHODS 2320 B 1997, 2011</b>           |               |        |      |          |       |    |                  |         |
| Alkalinity, Carbonate (as CaCO <sub>3</sub> )       | NELAP         | 0      |      | 0        | mg/L  | 1  | 09/13/2021 14:29 | R298870 |
| <b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>   |               |        |      |          |       |    |                  |         |
| Total Dissolved Solids                              | NELAP         | 20     |      | 452      | mg/L  | 1  | 09/16/2021 16:52 | R299087 |
| <b>SW-846 9036 (TOTAL)</b>                          |               |        |      |          |       |    |                  |         |
| Sulfate                                             | NELAP         | 50     |      | 61       | mg/L  | 5  | 09/16/2021 3:43  | R299021 |
| <b>SW-846 9214 (TOTAL)</b>                          |               |        |      |          |       |    |                  |         |
| Fluoride                                            | NELAP         | 0.10   |      | 0.29     | mg/L  | 1  | 09/13/2021 12:44 | R298849 |
| <b>SW-846 9251 (TOTAL)</b>                          |               |        |      |          |       |    |                  |         |
| Chloride                                            | NELAP         | 5      |      | 73       | mg/L  | 5  | 09/16/2021 3:44  | R299022 |
| <b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>   |               |        |      |          |       |    |                  |         |
| Calcium                                             | NELAP         | 0.100  |      | 86.6     | mg/L  | 1  | 09/20/2021 12:58 | 181946  |
| Magnesium                                           | NELAP         | 0.0500 |      | 26.5     | mg/L  | 1  | 09/20/2021 12:58 | 181946  |
| Potassium                                           | NELAP         | 0.100  |      | 5.40     | mg/L  | 1  | 09/20/2021 12:58 | 181946  |
| Sodium                                              | NELAP         | 0.0500 |      | 48.8     | mg/L  | 1  | 09/20/2021 12:58 | 181946  |
| <b>SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)</b> |               |        |      |          |       |    |                  |         |
| Antimony                                            | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 09/21/2021 21:27 | 181947  |
| Arsenic                                             | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 09/21/2021 21:27 | 181947  |
| Barium                                              | NELAP         | 0.0010 |      | 0.0603   | mg/L  | 5  | 09/21/2021 21:27 | 181947  |
| Boron                                               | NELAP         | 0.0250 |      | 0.251    | mg/L  | 5  | 09/21/2021 21:27 | 181947  |
| Cadmium                                             | NELAP         | 0.0010 | J    | 0.0006   | mg/L  | 5  | 09/21/2021 21:27 | 181947  |
| Chromium                                            | NELAP         | 0.0015 |      | < 0.0015 | mg/L  | 5  | 09/21/2021 21:27 | 181947  |
| Cobalt                                              | NELAP         | 0.0010 | J    | 0.0005   | mg/L  | 5  | 09/21/2021 21:27 | 181947  |
| Lead                                                | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 09/21/2021 21:27 | 181947  |
| Lithium                                             | *             | 0.0030 |      | 0.0101   | mg/L  | 5  | 09/21/2021 21:27 | 181947  |
| Molybdenum                                          | NELAP         | 0.0015 |      | 0.0651   | mg/L  | 5  | 09/21/2021 21:27 | 181947  |
| Selenium                                            | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 09/21/2021 21:27 | 181947  |

PQL recovered outside the upper control limits for Sb. Sample results are below the reporting limit. Data is reportable per the TNI standard.

Client: Vistra Energy  
 Client Project: Hennepin GW Q3 2021  
 Lab ID: 21081266-043  
 Matrix: GROUNDWATER

Work Order: 21081266  
 Report Date: 15-Oct-21  
 Client Sample ID: Field Blank  
 Collection Date: 09/10/2021 10:45

| Analyses                                            | Certification | RL     | Qual | Result   | Units | DF | Date Analyzed    | Batch   |
|-----------------------------------------------------|---------------|--------|------|----------|-------|----|------------------|---------|
| <b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>   |               |        |      |          |       |    |                  |         |
| Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )     | NELAP         | 0      |      | 1        | mg/L  | 1  | 09/13/2021 15:34 | R298870 |
| <b>STANDARD METHODS 2320 B 1997, 2011</b>           |               |        |      |          |       |    |                  |         |
| Alkalinity, Carbonate (as CaCO <sub>3</sub> )       | NELAP         | 0      |      | 0        | mg/L  | 1  | 09/13/2021 15:34 | R298870 |
| <b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>   |               |        |      |          |       |    |                  |         |
| Total Dissolved Solids                              | NELAP         | 20     |      | < 20     | mg/L  | 1  | 09/16/2021 16:52 | R299087 |
| <b>SW-846 9036 (TOTAL)</b>                          |               |        |      |          |       |    |                  |         |
| Sulfate                                             | NELAP         | 10     |      | < 10     | mg/L  | 1  | 09/16/2021 4:34  | R299021 |
| <b>SW-846 9214 (TOTAL)</b>                          |               |        |      |          |       |    |                  |         |
| Fluoride                                            | NELAP         | 0.10   |      | < 0.10   | mg/L  | 1  | 09/13/2021 12:56 | R298849 |
| <b>SW-846 9251 (TOTAL)</b>                          |               |        |      |          |       |    |                  |         |
| Chloride                                            | NELAP         | 1      |      | < 1      | mg/L  | 1  | 09/16/2021 4:34  | R299022 |
| <b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>   |               |        |      |          |       |    |                  |         |
| Calcium                                             | NELAP         | 0.100  |      | < 0.100  | mg/L  | 1  | 09/20/2021 13:42 | 181946  |
| Magnesium                                           | NELAP         | 0.0500 |      | < 0.0500 | mg/L  | 1  | 09/20/2021 13:42 | 181946  |
| Potassium                                           | NELAP         | 0.100  |      | < 0.100  | mg/L  | 1  | 09/20/2021 13:42 | 181946  |
| Sodium                                              | NELAP         | 0.0500 |      | < 0.0500 | mg/L  | 1  | 09/20/2021 13:42 | 181946  |
| <b>SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)</b> |               |        |      |          |       |    |                  |         |
| Antimony                                            | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 09/21/2021 21:50 | 181947  |
| Arsenic                                             | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 09/21/2021 21:50 | 181947  |
| Barium                                              | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 09/21/2021 21:50 | 181947  |
| Boron                                               | NELAP         | 0.0250 |      | < 0.0250 | mg/L  | 5  | 09/21/2021 21:50 | 181947  |
| Cadmium                                             | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 09/21/2021 21:50 | 181947  |
| Chromium                                            | NELAP         | 0.0015 |      | < 0.0015 | mg/L  | 5  | 09/21/2021 21:50 | 181947  |
| Cobalt                                              | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 09/21/2021 21:50 | 181947  |
| Lead                                                | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 09/21/2021 21:50 | 181947  |
| Lithium                                             | *             | 0.0030 |      | < 0.0030 | mg/L  | 5  | 09/21/2021 21:50 | 181947  |
| Molybdenum                                          | NELAP         | 0.0015 |      | < 0.0015 | mg/L  | 5  | 09/21/2021 21:50 | 181947  |
| Selenium                                            | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 09/21/2021 21:50 | 181947  |

PQL recovered outside the upper control limits for Sb. Sample results are below the reporting limit. Data is reportable per the TNI standard.

**Client:** Vistra Energy**Work Order:** 21081266**Client Project:** Hennepin GW Q3 2021**Report Date:** 15-Oct-21

| Lab Sample ID | Client Sample ID | Matrix      | Fractions | Collection Date  |
|---------------|------------------|-------------|-----------|------------------|
| 21081266-002  | 03R              | Groundwater | 2         | 09/10/2021 9:34  |
| 21081266-004  | 05DR             | Groundwater | 2         | 09/10/2021 8:34  |
| 21081266-005  | 05R              | Groundwater | 2         | 09/10/2021 8:20  |
| 21081266-007  | 07               | Groundwater | 2         | 09/09/2021 17:08 |
| 21081266-008  | 08               | Groundwater | 2         | 09/09/2021 14:33 |
| 21081266-009  | 08 Duplicate     | Groundwater | 2         | 09/09/2021 14:33 |
| 21081266-010  | 08D              | Groundwater | 2         | 09/09/2021 14:11 |
| 21081266-015  | 16               | Groundwater | 2         | 09/09/2021 13:53 |
| 21081266-016  | 17               | Groundwater | 2         | 09/09/2021 13:36 |
| 21081266-017  | 18D              | Groundwater | 2         | 09/10/2021 9:09  |
| 21081266-018  | 18S              | Groundwater | 2         | 09/10/2021 8:54  |
| 21081266-019  | 19D              | Groundwater | 2         | 09/09/2021 16:08 |
| 21081266-020  | 19S              | Groundwater | 2         | 09/09/2021 15:51 |
| 21081266-036  | 45S              | Groundwater | 2         | 09/10/2021 10:24 |
| 21081266-043  | Field Blank      | Groundwater | 2         | 09/10/2021 10:45 |

**Client:** Vistra Energy

**Work Order:** 21081266

**Client Project:** Hennepin GW Q3 2021

**Report Date:** 15-Oct-21

| Sample ID     | Client Sample ID                               | Collection Date | Received Date    |                  |                    |
|---------------|------------------------------------------------|-----------------|------------------|------------------|--------------------|
|               | Test Name                                      |                 |                  | Prep Date/Time   | Analysis Date/Time |
| 21081266-002A | 03R                                            | 09/10/2021 9:34 | 09/10/2021 14:25 |                  |                    |
|               | Field Elevation Measurements                   |                 |                  |                  | 09/10/2021 9:34    |
|               | Standard Methods 2130 B Field                  |                 |                  |                  | 09/10/2021 9:34    |
|               | Standard Methods 18th Ed. 2580 B Field         |                 |                  |                  | 09/10/2021 9:34    |
|               | Standard Methods 2320 B (Total) 1997, 2011     |                 |                  |                  | 09/13/2021 11:23   |
|               | Standard Methods 2320 B 1997, 2011             |                 |                  |                  | 09/13/2021 11:23   |
|               | Standard Methods 2540 C (Total) 1997, 2011     |                 |                  |                  | 09/14/2021 13:26   |
|               | Standard Methods 2550 B Field                  |                 |                  |                  | 09/10/2021 9:34    |
|               | Standard Methods 4500-NO2 B (Total) 2000, 2011 |                 |                  |                  | 09/10/2021 19:04   |
|               | Standard Methods 4500-NO3 F (Total) 2000, 2011 |                 |                  |                  | 09/10/2021 18:56   |
|               | Standard Methods 4500-O G Field                |                 |                  |                  | 09/10/2021 9:34    |
|               | SW-846 9036 (Total)                            |                 |                  |                  | 09/16/2021 1:06    |
|               | SW-846 9040B                                   |                 |                  |                  | 09/10/2021 9:34    |
|               | SW-846 9050A                                   |                 |                  |                  | 09/10/2021 9:34    |
|               | SW-846 9214 (Total)                            |                 |                  |                  | 09/13/2021 11:30   |
|               | SW-846 9251 (Total)                            |                 |                  |                  | 09/16/2021 1:06    |
| 21081266-002D | 03R                                            | 09/10/2021 9:34 | 09/10/2021 14:25 |                  |                    |
|               | SW-846 3005A, 6010B, Metals by ICP (Total)     |                 |                  | 09/17/2021 11:38 | 09/20/2021 11:18   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)   |                 |                  | 09/17/2021 11:57 | 09/21/2021 15:46   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)   |                 |                  | 09/17/2021 11:57 | 09/23/2021 22:52   |
|               | SW-846 7470A (Total)                           |                 |                  | 09/17/2021 10:47 | 09/17/2021 22:18   |
| 21081266-004A | 05DR                                           | 09/10/2021 8:34 | 09/10/2021 14:25 |                  |                    |
|               | Field Elevation Measurements                   |                 |                  |                  | 09/10/2021 8:34    |
|               | Standard Methods 2130 B Field                  |                 |                  |                  | 09/10/2021 8:34    |
|               | Standard Methods 2320 B 1997, 2011             |                 |                  |                  | 09/13/2021 11:35   |
|               | Standard Methods 18th Ed. 2580 B Field         |                 |                  |                  | 09/10/2021 8:34    |
|               | Standard Methods 2320 B (Total) 1997, 2011     |                 |                  |                  | 09/13/2021 11:35   |
|               | Standard Methods 2320 B 1997, 2011             |                 |                  |                  | 09/13/2021 11:35   |
|               | Standard Methods 2540 C (Total) 1997, 2011     |                 |                  |                  | 09/14/2021 13:27   |
|               | Standard Methods 2550 B Field                  |                 |                  |                  | 09/10/2021 8:34    |
|               | Standard Methods 4500-NO2 B (Total) 2000, 2011 |                 |                  |                  | 09/10/2021 19:05   |
|               | Standard Methods 4500-NO3 F (Total) 2000, 2011 |                 |                  |                  | 09/10/2021 19:00   |
|               | Standard Methods 4500-O G Field                |                 |                  |                  | 09/10/2021 8:34    |
|               | SW-846 9036 (Total)                            |                 |                  |                  | 09/16/2021 20:55   |
|               | SW-846 9040B                                   |                 |                  |                  | 09/10/2021 8:34    |
|               | SW-846 9050A                                   |                 |                  |                  | 09/10/2021 8:34    |
|               | SW-846 9214 (Total)                            |                 |                  |                  | 09/13/2021 11:37   |
|               | SW-846 9251 (Total)                            |                 |                  |                  | 09/16/2021 20:55   |

**Client:** Vistra Energy

**Work Order:** 21081266

**Client Project:** Hennepin GW Q3 2021

**Report Date:** 15-Oct-21

| Sample ID     | Client Sample ID                               | Collection Date  | Received Date    |                  |                    |
|---------------|------------------------------------------------|------------------|------------------|------------------|--------------------|
|               | Test Name                                      |                  |                  | Prep Date/Time   | Analysis Date/Time |
| 21081266-004C | 05DR                                           | 09/10/2021 8:34  | 09/10/2021 14:25 |                  |                    |
|               | SW-846 3005A, 6010B, Metals by ICP (Total)     |                  |                  | 09/17/2021 11:38 | 09/20/2021 11:21   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)   |                  |                  | 09/17/2021 11:57 | 09/21/2021 15:54   |
| 21081266-005A | 05R                                            | 09/10/2021 8:20  | 09/10/2021 14:25 |                  |                    |
|               | Field Elevation Measurements                   |                  |                  |                  | 09/10/2021 8:20    |
|               | Standard Methods 2130 B Field                  |                  |                  |                  | 09/10/2021 8:20    |
|               | Standard Methods 2320 B 1997, 2011             |                  |                  |                  | 09/13/2021 11:41   |
|               | Standard Methods 18th Ed. 2580 B Field         |                  |                  |                  | 09/10/2021 8:20    |
|               | Standard Methods 2320 B (Total) 1997, 2011     |                  |                  |                  | 09/13/2021 11:41   |
|               | Standard Methods 2320 B 1997, 2011             |                  |                  |                  | 09/13/2021 11:41   |
|               | Standard Methods 2540 C (Total) 1997, 2011     |                  |                  |                  | 09/14/2021 15:10   |
|               | Standard Methods 2550 B Field                  |                  |                  |                  | 09/10/2021 8:20    |
|               | Standard Methods 4500-NO2 B (Total) 2000, 2011 |                  |                  |                  | 09/10/2021 19:06   |
|               | Standard Methods 4500-NO3 F (Total) 2000, 2011 |                  |                  |                  | 09/10/2021 19:02   |
|               | Standard Methods 4500-O G Field                |                  |                  |                  | 09/10/2021 8:20    |
|               | SW-846 9036 (Total)                            |                  |                  |                  | 09/16/2021 1:27    |
|               | SW-846 9040B                                   |                  |                  |                  | 09/10/2021 8:20    |
|               | SW-846 9050A                                   |                  |                  |                  | 09/10/2021 8:20    |
|               | SW-846 9214 (Total)                            |                  |                  |                  | 09/13/2021 11:39   |
|               | SW-846 9251 (Total)                            |                  |                  |                  | 09/16/2021 1:28    |
| 21081266-005C | 05R                                            | 09/10/2021 8:20  | 09/10/2021 14:25 |                  |                    |
|               | SW-846 3005A, 6010B, Metals by ICP (Total)     |                  |                  | 09/17/2021 11:38 | 09/20/2021 12:39   |
|               | SW-846 3005A, 6010B, Metals by ICP (Total)     |                  |                  | 09/17/2021 11:38 | 09/20/2021 17:50   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)   |                  |                  | 09/17/2021 11:57 | 09/21/2021 16:02   |
| 21081266-007A | 07                                             | 09/09/2021 17:08 | 09/10/2021 14:25 |                  |                    |
|               | Field Elevation Measurements                   |                  |                  |                  | 09/09/2021 17:08   |
|               | Standard Methods 2130 B Field                  |                  |                  |                  | 09/09/2021 17:08   |
|               | Standard Methods 18th Ed. 2580 B Field         |                  |                  |                  | 09/09/2021 17:08   |
|               | Standard Methods 2320 B (Total) 1997, 2011     |                  |                  |                  | 09/13/2021 11:47   |
|               | Standard Methods 2320 B 1997, 2011             |                  |                  |                  | 09/13/2021 11:47   |
|               | Standard Methods 2540 C (Total) 1997, 2011     |                  |                  |                  | 09/14/2021 15:10   |
|               | Standard Methods 2550 B Field                  |                  |                  |                  | 09/09/2021 17:08   |
|               | Standard Methods 4500-NO2 B (Total) 2000, 2011 |                  |                  |                  | 09/10/2021 19:07   |
|               | Standard Methods 4500-NO3 F (Total) 2000, 2011 |                  |                  |                  | 09/10/2021 19:07   |
|               | Standard Methods 4500-O G Field                |                  |                  |                  | 09/09/2021 17:08   |
|               | SW-846 9036 (Total)                            |                  |                  |                  | 09/16/2021 1:30    |
|               | SW-846 9040B                                   |                  |                  |                  | 09/09/2021 17:08   |



**Client:** Vistra Energy

**Work Order:** 21081266

**Client Project:** Hennepin GW Q3 2021

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|---------------|------------------------------------------------|------------------|------------------|------------------|--------------------|
| Test Name     |                                                |                  |                  |                  |                    |
|               | SW-846 9050A                                   |                  |                  |                  | 09/09/2021 17:08   |
|               | SW-846 9214 (Total)                            |                  |                  |                  | 09/13/2021 11:41   |
|               | SW-846 9251 (Total)                            |                  |                  |                  | 09/16/2021 1:30    |
| 21081266-007D | 07                                             | 09/09/2021 17:08 | 09/10/2021 14:25 |                  |                    |
|               | SW-846 3005A, 6010B, Metals by ICP (Total)     |                  |                  | 09/17/2021 8:04  | 09/17/2021 21:57   |
|               | SW-846 3005A, 6010B, Metals by ICP (Total)     |                  |                  | 09/17/2021 8:04  | 09/20/2021 11:44   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)   |                  |                  | 09/17/2021 8:19  | 09/24/2021 11:47   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)   |                  |                  | 09/17/2021 8:19  | 09/27/2021 12:46   |
|               | SW-846 7470A (Total)                           |                  |                  | 09/16/2021 7:00  | 09/16/2021 18:04   |
| 21081266-008A | 08                                             | 09/09/2021 14:33 | 09/10/2021 14:25 |                  |                    |
|               | Field Elevation Measurements                   |                  |                  |                  | 09/09/2021 14:33   |
|               | Standard Methods 2130 B Field                  |                  |                  |                  | 09/09/2021 14:33   |
|               | Standard Methods 2320 B 1997, 2011             |                  |                  |                  | 09/13/2021 11:54   |
|               | Standard Methods 18th Ed. 2580 B Field         |                  |                  |                  | 09/09/2021 14:33   |
|               | Standard Methods 2320 B (Total) 1997, 2011     |                  |                  |                  | 09/13/2021 11:54   |
|               | Standard Methods 2320 B 1997, 2011             |                  |                  |                  | 09/13/2021 11:54   |
|               | Standard Methods 2540 C (Total) 1997, 2011     |                  |                  |                  | 09/14/2021 15:10   |
|               | Standard Methods 2550 B Field                  |                  |                  |                  | 09/09/2021 14:33   |
|               | Standard Methods 4500-NO2 B (Total) 2000, 2011 |                  |                  |                  | 09/10/2021 19:08   |
|               | Standard Methods 4500-NO3 F (Total) 2000, 2011 |                  |                  |                  | 09/10/2021 19:22   |
|               | Standard Methods 4500-O G Field                |                  |                  |                  | 09/09/2021 14:33   |
|               | SW-846 9036 (Total)                            |                  |                  |                  | 09/16/2021 1:33    |
|               | SW-846 9040B                                   |                  |                  |                  | 09/09/2021 14:33   |
|               | SW-846 9050A                                   |                  |                  |                  | 09/09/2021 14:33   |
|               | SW-846 9214 (Total)                            |                  |                  |                  | 09/13/2021 11:42   |
|               | SW-846 9251 (Total)                            |                  |                  |                  | 09/16/2021 1:33    |
| 21081266-008D | 08                                             | 09/09/2021 14:33 | 09/10/2021 14:25 |                  |                    |
|               | SW-846 3005A, 6010B, Metals by ICP (Total)     |                  |                  | 09/17/2021 8:04  | 09/17/2021 21:59   |
|               | SW-846 3005A, 6010B, Metals by ICP (Total)     |                  |                  | 09/17/2021 8:04  | 09/20/2021 11:46   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)   |                  |                  | 09/17/2021 8:19  | 09/24/2021 11:55   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)   |                  |                  | 09/17/2021 8:19  | 09/27/2021 12:52   |
|               | SW-846 7470A (Total)                           |                  |                  | 09/17/2021 10:47 | 09/17/2021 22:37   |
| 21081266-009A | 08 Duplicate                                   | 09/09/2021 14:33 | 09/10/2021 14:25 |                  |                    |
|               | Field Elevation Measurements                   |                  |                  |                  | 09/09/2021 14:33   |
|               | Standard Methods 2130 B Field                  |                  |                  |                  | 09/09/2021 14:33   |
|               | Standard Methods 2320 B 1997, 2011             |                  |                  |                  | 09/13/2021 12:01   |
|               | Standard Methods 18th Ed. 2580 B Field         |                  |                  |                  | 09/09/2021 14:33   |

**Client:** Vistra Energy

**Work Order:** 21081266

**Client Project:** Hennepin GW Q3 2021

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|---------------|------------------------------------------------|------------------|------------------|------------------|--------------------|
| Test Name     |                                                |                  |                  | Prep Date/Time   | Analysis Date/Time |
|               | Standard Methods 2320 B (Total) 1997, 2011     |                  |                  |                  | 09/13/2021 12:01   |
|               | Standard Methods 2320 B 1997, 2011             |                  |                  |                  | 09/13/2021 12:01   |
|               | Standard Methods 2540 C (Total) 1997, 2011     |                  |                  |                  | 09/14/2021 15:11   |
|               | Standard Methods 2550 B Field                  |                  |                  |                  | 09/09/2021 14:33   |
|               | Standard Methods 4500-NO2 B (Total) 2000, 2011 |                  |                  |                  | 09/10/2021 19:09   |
|               | Standard Methods 4500-NO3 F (Total) 2000, 2011 |                  |                  |                  | 09/10/2021 19:24   |
|               | Standard Methods 4500-O G Field                |                  |                  |                  | 09/09/2021 14:33   |
|               | SW-846 9036 (Total)                            |                  |                  |                  | 09/16/2021 1:52    |
|               | SW-846 9040B                                   |                  |                  |                  | 09/09/2021 14:33   |
|               | SW-846 9050A                                   |                  |                  |                  | 09/09/2021 14:33   |
|               | SW-846 9214 (Total)                            |                  |                  |                  | 09/13/2021 11:44   |
|               | SW-846 9251 (Total)                            |                  |                  |                  | 09/16/2021 1:52    |
| 21081266-009D | 08 Duplicate                                   | 09/09/2021 14:33 | 09/10/2021 14:25 |                  |                    |
|               | SW-846 3005A, 6010B, Metals by ICP (Total)     |                  |                  | 09/17/2021 8:04  | 09/17/2021 22:00   |
|               | SW-846 3005A, 6010B, Metals by ICP (Total)     |                  |                  | 09/17/2021 8:04  | 09/20/2021 11:48   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)   |                  |                  | 09/17/2021 8:19  | 09/24/2021 12:04   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)   |                  |                  | 09/17/2021 8:19  | 09/27/2021 12:58   |
|               | SW-846 7470A (Total)                           |                  |                  | 09/17/2021 10:47 | 09/17/2021 22:46   |
| 21081266-010A | 08D                                            | 09/09/2021 14:11 | 09/10/2021 14:25 |                  |                    |
|               | Field Elevation Measurements                   |                  |                  |                  | 09/09/2021 14:11   |
|               | Standard Methods 2130 B Field                  |                  |                  |                  | 09/09/2021 14:11   |
|               | Standard Methods 2320 B 1997, 2011             |                  |                  |                  | 09/13/2021 12:09   |
|               | Standard Methods 18th Ed. 2580 B Field         |                  |                  |                  | 09/09/2021 14:11   |
|               | Standard Methods 2320 B (Total) 1997, 2011     |                  |                  |                  | 09/13/2021 12:09   |
|               | Standard Methods 2320 B 1997, 2011             |                  |                  |                  | 09/13/2021 12:09   |
|               | Standard Methods 2540 C (Total) 1997, 2011     |                  |                  |                  | 09/14/2021 15:11   |
|               | Standard Methods 2550 B Field                  |                  |                  |                  | 09/09/2021 14:11   |
|               | Standard Methods 4500-NO2 B (Total) 2000, 2011 |                  |                  |                  | 09/10/2021 19:09   |
|               | Standard Methods 4500-NO3 F (Total) 2000, 2011 |                  |                  |                  | 09/10/2021 19:26   |
|               | Standard Methods 4500-O G Field                |                  |                  |                  | 09/09/2021 14:11   |
|               | SW-846 9036 (Total)                            |                  |                  |                  | 09/16/2021 1:54    |
|               | SW-846 9040B                                   |                  |                  |                  | 09/09/2021 14:11   |
|               | SW-846 9050A                                   |                  |                  |                  | 09/09/2021 14:11   |
|               | SW-846 9214 (Total)                            |                  |                  |                  | 09/13/2021 11:46   |
|               | SW-846 9251 (Total)                            |                  |                  |                  | 09/16/2021 1:54    |
| 21081266-010D | 08D                                            | 09/09/2021 14:11 | 09/10/2021 14:25 |                  |                    |
|               | SW-846 3005A, 6010B, Metals by ICP (Total)     |                  |                  | 09/17/2021 8:04  | 09/17/2021 22:06   |
|               | SW-846 3005A, 6010B, Metals by ICP (Total)     |                  |                  | 09/17/2021 8:04  | 09/20/2021 11:53   |

**Client:** Vistra Energy

**Work Order:** 21081266

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|---------------|------------------|------------------|------------------|------------------------------------------------|------------------|--------------------|
|               |                  |                  |                  | SW-846 3005A, 6020A, Metals by ICPMS (Total)   | 09/17/2021 8:19  | 09/24/2021 12:30   |
|               |                  |                  |                  | SW-846 3005A, 6020A, Metals by ICPMS (Total)   | 09/17/2021 8:19  | 09/27/2021 13:17   |
|               |                  |                  |                  | SW-846 7470A (Total)                           | 09/17/2021 10:47 | 09/17/2021 22:55   |
| 21081266-015A | 16               | 09/09/2021 13:53 | 09/10/2021 14:25 | Field Elevation Measurements                   |                  | 09/09/2021 13:53   |
|               |                  |                  |                  | Standard Methods 2130 B Field                  |                  | 09/09/2021 13:53   |
|               |                  |                  |                  | Standard Methods 18th Ed. 2580 B Field         |                  | 09/09/2021 13:53   |
|               |                  |                  |                  | Standard Methods 2320 B (Total) 1997, 2011     |                  | 09/13/2021 12:45   |
|               |                  |                  |                  | Standard Methods 2320 B 1997, 2011             |                  | 09/13/2021 12:45   |
|               |                  |                  |                  | Standard Methods 2540 C (Total) 1997, 2011     |                  | 09/15/2021 15:18   |
|               |                  |                  |                  | Standard Methods 2550 B Field                  |                  | 09/09/2021 13:53   |
|               |                  |                  |                  | Standard Methods 4500-NO2 B (Total) 2000, 2011 |                  | 09/10/2021 18:58   |
|               |                  |                  |                  | Standard Methods 4500-NO3 F (Total) 2000, 2011 |                  | 09/10/2021 19:44   |
|               |                  |                  |                  | Standard Methods 4500-O G Field                |                  | 09/09/2021 13:53   |
|               |                  |                  |                  | SW-846 9036 (Total)                            |                  | 09/16/2021 2:10    |
|               |                  |                  |                  | SW-846 9040B                                   |                  | 09/09/2021 13:53   |
|               |                  |                  |                  | SW-846 9050A                                   |                  | 09/09/2021 13:53   |
|               |                  |                  |                  | SW-846 9214 (Total)                            |                  | 09/13/2021 12:00   |
|               |                  |                  |                  | SW-846 9251 (Total)                            |                  | 09/16/2021 21:06   |
| 21081266-015C | 16               | 09/09/2021 13:53 | 09/10/2021 14:25 | SW-846 3005A, 6010B, Metals by ICP (Total)     | 09/17/2021 8:04  | 09/17/2021 22:11   |
|               |                  |                  |                  | SW-846 3005A, 6010B, Metals by ICP (Total)     | 09/17/2021 8:04  | 09/20/2021 12:16   |
|               |                  |                  |                  | SW-846 3005A, 6020A, Metals by ICPMS (Total)   | 09/17/2021 8:19  | 09/23/2021 0:36    |
|               |                  |                  |                  | SW-846 3005A, 6020A, Metals by ICPMS (Total)   | 09/17/2021 8:19  | 09/27/2021 14:17   |
| 21081266-016A | 17               | 09/09/2021 13:36 | 09/10/2021 14:25 | Field Elevation Measurements                   |                  | 09/09/2021 13:36   |
|               |                  |                  |                  | Standard Methods 2130 B Field                  |                  | 09/09/2021 13:36   |
|               |                  |                  |                  | Standard Methods 18th Ed. 2580 B Field         |                  | 09/09/2021 13:36   |
|               |                  |                  |                  | Standard Methods 2320 B (Total) 1997, 2011     |                  | 09/13/2021 12:57   |
|               |                  |                  |                  | Standard Methods 2320 B 1997, 2011             |                  | 09/13/2021 12:57   |
|               |                  |                  |                  | Standard Methods 2540 C (Total) 1997, 2011     |                  | 09/15/2021 15:18   |
|               |                  |                  |                  | Standard Methods 2550 B Field                  |                  | 09/09/2021 13:36   |
|               |                  |                  |                  | Standard Methods 4500-NO2 B (Total) 2000, 2011 |                  | 09/10/2021 18:59   |
|               |                  |                  |                  | Standard Methods 4500-NO3 F (Total) 2000, 2011 |                  | 09/10/2021 19:59   |
|               |                  |                  |                  | Standard Methods 4500-O G Field                |                  | 09/09/2021 13:36   |
|               |                  |                  |                  | SW-846 9036 (Total)                            |                  | 09/16/2021 2:15    |
|               |                  |                  |                  | SW-846 9040B                                   |                  | 09/09/2021 13:36   |
|               |                  |                  |                  | SW-846 9050A                                   |                  | 09/09/2021 13:36   |

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|------------------------------------------------|------------------|------------------|------------------|----------------|--------------------|
| Test Name                                      |                  |                  |                  |                |                    |
| SW-846 9214 (Total)                            |                  |                  |                  |                |                    |
| SW-846 9251 (Total)                            |                  |                  |                  |                |                    |
| 21081266-016C                                  | 17               | 09/09/2021 13:36 | 09/10/2021 14:25 |                |                    |
| SW-846 3005A, 6010B, Metals by ICP (Total)     |                  |                  |                  |                |                    |
| SW-846 3005A, 6010B, Metals by ICP (Total)     |                  |                  |                  |                |                    |
| SW-846 3005A, 6020A, Metals by ICPMS (Total)   |                  |                  |                  |                |                    |
| SW-846 3005A, 6020A, Metals by ICPMS (Total)   |                  |                  |                  |                |                    |
| 21081266-017A                                  | 18D              | 09/10/2021 9:09  | 09/10/2021 14:25 |                |                    |
| Field Elevation Measurements                   |                  |                  |                  |                |                    |
| Standard Methods 2130 B Field                  |                  |                  |                  |                |                    |
| Standard Methods 18th Ed. 2580 B Field         |                  |                  |                  |                |                    |
| Standard Methods 2320 B (Total) 1997, 2011     |                  |                  |                  |                |                    |
| Standard Methods 2320 B 1997, 2011             |                  |                  |                  |                |                    |
| Standard Methods 2540 C (Total) 1997, 2011     |                  |                  |                  |                |                    |
| Standard Methods 2550 B Field                  |                  |                  |                  |                |                    |
| Standard Methods 4500-NO2 B (Total) 2000, 2011 |                  |                  |                  |                |                    |
| Standard Methods 4500-NO3 F (Total) 2000, 2011 |                  |                  |                  |                |                    |
| Standard Methods 4500-O G Field                |                  |                  |                  |                |                    |
| SW-846 9036 (Total)                            |                  |                  |                  |                |                    |
| SW-846 9040B                                   |                  |                  |                  |                |                    |
| SW-846 9050A                                   |                  |                  |                  |                |                    |
| SW-846 9214 (Total)                            |                  |                  |                  |                |                    |
| SW-846 9251 (Total)                            |                  |                  |                  |                |                    |
| 21081266-017D                                  | 18D              | 09/10/2021 9:09  | 09/10/2021 14:25 |                |                    |
| SW-846 3005A, 6010B, Metals by ICP (Total)     |                  |                  |                  |                |                    |
| SW-846 3005A, 6010B, Metals by ICP (Total)     |                  |                  |                  |                |                    |
| SW-846 3005A, 6020A, Metals by ICPMS (Total)   |                  |                  |                  |                |                    |
| SW-846 3005A, 6020A, Metals by ICPMS (Total)   |                  |                  |                  |                |                    |
| SW-846 7470A (Total)                           |                  |                  |                  |                |                    |
| 21081266-018A                                  | 18S              | 09/10/2021 8:54  | 09/10/2021 14:25 |                |                    |
| Field Elevation Measurements                   |                  |                  |                  |                |                    |
| Standard Methods 2130 B Field                  |                  |                  |                  |                |                    |
| Standard Methods 18th Ed. 2580 B Field         |                  |                  |                  |                |                    |
| Standard Methods 2320 B (Total) 1997, 2011     |                  |                  |                  |                |                    |
| Standard Methods 2320 B 1997, 2011             |                  |                  |                  |                |                    |
| Standard Methods 2540 C (Total) 1997, 2011     |                  |                  |                  |                |                    |
| Standard Methods 2550 B Field                  |                  |                  |                  |                |                    |

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|---------------|------------------------------------------------|------------------|------------------|------------------|--------------------|
|               | Test Name                                      |                  |                  | Prep Date/Time   | Analysis Date/Time |
|               | Standard Methods 4500-NO2 B (Total) 2000, 2011 |                  |                  |                  | 09/10/2021 18:59   |
|               | Standard Methods 4500-NO3 F (Total) 2000, 2011 |                  |                  |                  | 09/10/2021 20:03   |
|               | Standard Methods 4500-O G Field                |                  |                  |                  | 09/10/2021 8:54    |
|               | SW-846 9036 (Total)                            |                  |                  |                  | 09/16/2021 2:23    |
|               | SW-846 9040B                                   |                  |                  |                  | 09/10/2021 8:54    |
|               | SW-846 9050A                                   |                  |                  |                  | 09/10/2021 8:54    |
|               | SW-846 9214 (Total)                            |                  |                  |                  | 09/13/2021 12:05   |
|               | SW-846 9251 (Total)                            |                  |                  |                  | 09/16/2021 2:24    |
| 21081266-018D | 18S                                            | 09/10/2021 8:54  | 09/10/2021 14:25 |                  |                    |
|               | SW-846 3005A, 6010B, Metals by ICP (Total)     |                  |                  | 09/17/2021 11:38 | 09/20/2021 12:54   |
|               | SW-846 3005A, 6010B, Metals by ICP (Total)     |                  |                  | 09/17/2021 11:38 | 09/20/2021 18:33   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)   |                  |                  | 09/17/2021 11:57 | 09/21/2021 17:11   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)   |                  |                  | 09/17/2021 11:57 | 09/23/2021 23:44   |
|               | SW-846 7470A (Total)                           |                  |                  | 09/17/2021 10:53 | 09/17/2021 21:02   |
| 21081266-019A | 19D                                            | 09/09/2021 16:08 | 09/10/2021 14:25 |                  |                    |
|               | Field Elevation Measurements                   |                  |                  |                  | 09/09/2021 16:08   |
|               | Standard Methods 2130 B Field                  |                  |                  |                  | 09/09/2021 16:08   |
|               | Standard Methods 18th Ed. 2580 B Field         |                  |                  |                  | 09/09/2021 16:08   |
|               | Standard Methods 2320 B (Total) 1997, 2011     |                  |                  |                  | 09/13/2021 13:15   |
|               | Standard Methods 2320 B 1997, 2011             |                  |                  |                  | 09/13/2021 13:15   |
|               | Standard Methods 2540 C (Total) 1997, 2011     |                  |                  |                  | 09/15/2021 15:19   |
|               | Standard Methods 2550 B Field                  |                  |                  |                  | 09/09/2021 16:08   |
|               | Standard Methods 4500-NO2 B (Total) 2000, 2011 |                  |                  |                  | 09/10/2021 19:00   |
|               | Standard Methods 4500-NO3 F (Total) 2000, 2011 |                  |                  |                  | 09/10/2021 20:05   |
|               | Standard Methods 4500-O G Field                |                  |                  |                  | 09/09/2021 16:08   |
|               | SW-846 9036 (Total)                            |                  |                  |                  | 09/16/2021 2:26    |
|               | SW-846 9040B                                   |                  |                  |                  | 09/09/2021 16:08   |
|               | SW-846 9050A                                   |                  |                  |                  | 09/09/2021 16:08   |
|               | SW-846 9214 (Total)                            |                  |                  |                  | 09/13/2021 12:07   |
|               | SW-846 9251 (Total)                            |                  |                  |                  | 09/16/2021 2:27    |
| 21081266-019C | 19D                                            | 09/09/2021 16:08 | 09/10/2021 14:25 |                  |                    |
|               | SW-846 3005A, 6010B, Metals by ICP (Total)     |                  |                  | 09/17/2021 8:04  | 09/17/2021 22:28   |
|               | SW-846 3005A, 6010B, Metals by ICP (Total)     |                  |                  | 09/17/2021 8:04  | 09/20/2021 12:19   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)   |                  |                  | 09/17/2021 8:19  | 09/23/2021 0:53    |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)   |                  |                  | 09/17/2021 8:19  | 09/27/2021 14:29   |
| 21081266-020A | 19S                                            | 09/09/2021 15:51 | 09/10/2021 14:25 |                  |                    |
|               | Field Elevation Measurements                   |                  |                  |                  | 09/09/2021 15:51   |



**Client:** Vistra Energy

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|---------------|------------------------------------------------|------------------|------------------|------------------|--------------------|
|               | Test Name                                      |                  |                  | Prep Date/Time   | Analysis Date/Time |
|               | Standard Methods 2130 B Field                  |                  |                  |                  | 09/09/2021 15:51   |
|               | Standard Methods 18th Ed. 2580 B Field         |                  |                  |                  | 09/09/2021 15:51   |
|               | Standard Methods 2320 B (Total) 1997, 2011     |                  |                  |                  | 09/13/2021 13:21   |
|               | Standard Methods 2320 B 1997, 2011             |                  |                  |                  | 09/13/2021 13:21   |
|               | Standard Methods 2540 C (Total) 1997, 2011     |                  |                  |                  | 09/15/2021 15:19   |
|               | Standard Methods 2550 B Field                  |                  |                  |                  | 09/09/2021 15:51   |
|               | Standard Methods 4500-NO2 B (Total) 2000, 2011 |                  |                  |                  | 09/10/2021 19:01   |
|               | Standard Methods 4500-NO3 F (Total) 2000, 2011 |                  |                  |                  | 09/10/2021 20:14   |
|               | Standard Methods 4500-O G Field                |                  |                  |                  | 09/09/2021 15:51   |
|               | SW-846 9036 (Total)                            |                  |                  |                  | 09/16/2021 2:50    |
|               | SW-846 9040B                                   |                  |                  |                  | 09/09/2021 15:51   |
|               | SW-846 9050A                                   |                  |                  |                  | 09/09/2021 15:51   |
|               | SW-846 9214 (Total)                            |                  |                  |                  | 09/13/2021 12:09   |
|               | SW-846 9251 (Total)                            |                  |                  |                  | 09/16/2021 2:45    |
| 21081266-020C | 19S                                            | 09/09/2021 15:51 | 09/10/2021 14:25 |                  |                    |
|               | SW-846 3005A, 6010B, Metals by ICP (Total)     |                  |                  | 09/17/2021 8:04  | 09/17/2021 22:29   |
|               | SW-846 3005A, 6010B, Metals by ICP (Total)     |                  |                  | 09/17/2021 8:04  | 09/20/2021 12:21   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)   |                  |                  | 09/17/2021 8:19  | 09/23/2021 1:02    |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)   |                  |                  | 09/17/2021 8:19  | 09/27/2021 14:35   |
| 21081266-036A | 45S                                            | 09/10/2021 10:24 | 09/10/2021 14:25 |                  |                    |
|               | Field Elevation Measurements                   |                  |                  |                  | 09/10/2021 10:24   |
|               | Standard Methods 2130 B Field                  |                  |                  |                  | 09/10/2021 10:24   |
|               | Standard Methods 18th Ed. 2580 B Field         |                  |                  |                  | 09/10/2021 10:24   |
|               | Standard Methods 2320 B (Total) 1997, 2011     |                  |                  |                  | 09/13/2021 14:29   |
|               | Standard Methods 2320 B 1997, 2011             |                  |                  |                  | 09/13/2021 14:29   |
|               | Standard Methods 2540 C (Total) 1997, 2011     |                  |                  |                  | 09/16/2021 16:52   |
|               | Standard Methods 2550 B Field                  |                  |                  |                  | 09/10/2021 10:24   |
|               | Standard Methods 4500-NO2 B (Total) 2000, 2011 |                  |                  |                  | 09/10/2021 19:02   |
|               | Standard Methods 4500-NO3 F (Total) 2000, 2011 |                  |                  |                  | 09/10/2021 20:18   |
|               | Standard Methods 4500-O G Field                |                  |                  |                  | 09/10/2021 10:24   |
|               | SW-846 9036 (Total)                            |                  |                  |                  | 09/16/2021 3:43    |
|               | SW-846 9040B                                   |                  |                  |                  | 09/10/2021 10:24   |
|               | SW-846 9050A                                   |                  |                  |                  | 09/10/2021 10:24   |
|               | SW-846 9214 (Total)                            |                  |                  |                  | 09/13/2021 12:44   |
|               | SW-846 9251 (Total)                            |                  |                  |                  | 09/16/2021 3:44    |
| 21081266-036D | 45S                                            | 09/10/2021 10:24 | 09/10/2021 14:25 |                  |                    |
|               | SW-846 3005A, 6010B, Metals by ICP (Total)     |                  |                  | 09/17/2021 11:38 | 09/20/2021 12:58   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)   |                  |                  | 09/17/2021 11:57 | 09/21/2021 21:27   |

**Client:** Vistra Energy

**Work Order:** 21081266

**Client Project:** Hennepin GW Q3 2021

**Report Date:** 15-Oct-21

| Sample ID     | Client Sample ID                               | Collection Date  | Received Date    |                  |                    |
|---------------|------------------------------------------------|------------------|------------------|------------------|--------------------|
|               | Test Name                                      |                  |                  | Prep Date/Time   | Analysis Date/Time |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)   |                  |                  | 09/17/2021 11:57 | 09/23/2021 23:53   |
|               | SW-846 7470A (Total)                           |                  |                  | 09/17/2021 10:53 | 09/17/2021 21:39   |
| 21081266-043A | Field Blank                                    | 09/10/2021 10:45 | 09/10/2021 14:25 |                  |                    |
|               | Standard Methods 2320 B 1997, 2011             |                  |                  |                  | 09/13/2021 15:34   |
|               | Standard Methods 2320 B (Total) 1997, 2011     |                  |                  |                  | 09/13/2021 15:34   |
|               | Standard Methods 2320 B 1997, 2011             |                  |                  |                  | 09/13/2021 15:34   |
|               | Standard Methods 2540 C (Total) 1997, 2011     |                  |                  |                  | 09/16/2021 16:52   |
|               | Standard Methods 4500-NO2 B (Total) 2000, 2011 |                  |                  |                  | 09/10/2021 19:02   |
|               | Standard Methods 4500-NO3 F (Total) 2000, 2011 |                  |                  |                  | 09/10/2021 20:20   |
|               | SW-846 9036 (Total)                            |                  |                  |                  | 09/16/2021 4:34    |
|               | SW-846 9214 (Total)                            |                  |                  |                  | 09/13/2021 12:56   |
|               | SW-846 9251 (Total)                            |                  |                  |                  | 09/16/2021 4:34    |
| 21081266-043D | Field Blank                                    | 09/10/2021 10:45 | 09/10/2021 14:25 |                  |                    |
|               | SW-846 3005A, 6010B, Metals by ICP (Total)     |                  |                  | 09/17/2021 11:38 | 09/20/2021 13:42   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)   |                  |                  | 09/17/2021 11:57 | 09/21/2021 21:50   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)   |                  |                  | 09/17/2021 11:38 | 10/02/2021 1:16    |
|               | SW-846 7470A (Total)                           |                  |                  | 09/17/2021 10:53 | 09/17/2021 21:50   |



## Quality Control Results

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Client: Vistra Energy

Work Order: 21081266

Client Project: Hennepin GW Q3 2021

Report Date: 15-Oct-21

### SW-846 9040B

| Batch R299257       |      | SampType: LCS |      | Units  |       |             |       |           |            |               |
|---------------------|------|---------------|------|--------|-------|-------------|-------|-----------|------------|---------------|
| SampID: LCS-R299257 |      |               |      |        |       |             |       |           |            |               |
| Analyses            | Cert | RL            | Qual | Result | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
| pH, Field           | *    | 1.00          |      | 7.10   | 7.000 | 0           | 101.4 | 98.57     | 101.4      | 09/08/2021    |
| pH, Field           | *    | 1.00          |      | 6.99   | 7.000 | 0           | 99.9  | 98.57     | 101.4      | 09/09/2021    |
| pH, Field           | *    | 1.00          |      | 7.04   | 7.000 | 0           | 100.6 | 98.57     | 101.4      | 09/10/2021    |

### SW-846 9050A

| Batch R299257            |      | SampType: LCS |      | Units µS/cm |       |             |       |           |            |            |      |
|--------------------------|------|---------------|------|-------------|-------|-------------|-------|-----------|------------|------------|------|
| SampID: LCS-R299257      |      |               |      |             |       |             |       |           |            |            | Date |
| Analyses                 | Cert | RL            | Qual | Result      | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Analyzed   |      |
| Spec. Conductance, Field | *    | 1.00          |      | 1330        | 1412  | 0           | 94.3  | 90        | 110        | 09/09/2021 |      |
| Spec. Conductance, Field | *    | 1.00          |      | 1410        | 1412  | 0           | 99.6  | 90        | 110        | 09/10/2021 |      |
| Spec. Conductance, Field | *    | 1.00          |      | 1500        | 1412  | 0           | 106.4 | 90        | 110        | 09/08/2021 |      |

### STANDARD METHODS 2320 B 1997, 2011

| Batch R298870                |      | SampType: MBLK |      | Units mg/L |       |             |      |           |            |               |  |
|------------------------------|------|----------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: MBLK                 |      |                |      |            |       |             |      |           |            |               |  |
| Analyses                     | Cert | RL             | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Alkalinity, Total (as CaCO3) |      | 0              |      | 0          |       |             |      |           |            | 09/13/2021    |  |

### Batch R298870 SampType: LCS Units mg/L

| SampleID: LCS                |      |    |      |        |       |             |       |           |            | Date Analyzed |
|------------------------------|------|----|------|--------|-------|-------------|-------|-----------|------------|---------------|
| Analyses                     | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC  | Low Limit | High Limit |               |
| Alkalinity, Total (as CaCO3) |      | 0  |      | 235    | 232.0 | 0           | 101.3 | 90        | 110        | 09/13/2021    |

### STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011

| Batch R299042            |  | SampType: DUP |    | Units mg/L |        |       |             |      | RPD Limit: 5 |      | Date Analyzed |
|--------------------------|--|---------------|----|------------|--------|-------|-------------|------|--------------|------|---------------|
| SampID: 21081266-013BDUP |  |               |    |            |        |       |             |      |              |      |               |
| Analyses                 |  | Cert          | RL | Qual       | Result | Spike | SPK Ref Val | %REC | RPD Ref Val  | %RPD |               |
| Total Dissolved Solids   |  |               | 20 |            | 454    |       |             |      | 444.0        | 2.23 | 09/15/2021    |

### Batch R299042 SampType: DUP Units mg/L

| SampleID: 21081266-019BDUP |      |    |      |        |       |             |      |             |      | Date Analyzed |
|----------------------------|------|----|------|--------|-------|-------------|------|-------------|------|---------------|
| Analyses                   | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD |               |
| Total Dissolved Solids     |      | 20 |      | 386    |       |             |      | 374.0       | 3.16 | 09/15/2021    |



## Quality Control Results

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Client: Vistra Energy

Work Order: 21081266

Client Project: Hennepin GW Q3 2021

Report Date: 15-Oct-21

### STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011

| Batch R299087            |  | SampType: DUP |    | Units mg/L |        |       |             | RPD Limit: 5 |             |      | Date Analyzed |  |
|--------------------------|--|---------------|----|------------|--------|-------|-------------|--------------|-------------|------|---------------|--|
| SampID: 21081266-004BDUP |  |               |    |            |        |       |             |              |             |      |               |  |
| Analyses                 |  | Cert          | RL | Qual       | Result | Spike | SPK Ref Val | %REC         | RPD Ref Val | %RPD |               |  |
| Total Dissolved Solids   |  |               | 20 |            | 516    |       |             |              | 502.0       | 2.75 |               |  |
| 09/16/2021               |  |               |    |            |        |       |             |              |             |      |               |  |

### STANDARD METHODS 2540 C (TOTAL) 1997, 2011

| Batch R298922          |      | SampType: MBLK |      | Units mg/L |       |             |       |           |            |            |               |
|------------------------|------|----------------|------|------------|-------|-------------|-------|-----------|------------|------------|---------------|
| SampID: MBLK           |      |                |      |            |       |             |       |           |            |            | Date Analyzed |
| Analyses               | Cert | RL             | Qual | Result     | Spike | SPK Ref Val | %REC  | Low Limit | High Limit |            |               |
| Total Dissolved Solids |      | 20             | S    | 42         | 16.00 | 0           | 262.5 | -100      | 100        | 09/13/2021 |               |
| Total Dissolved Solids |      | 20             | S    | 30         | 16.00 | 0           | 187.5 | -100      | 100        | 09/13/2021 |               |
| Total Dissolved Solids |      | 20             | S    | 58         | 16.00 | 0           | 362.5 | -100      | 100        | 09/13/2021 |               |

| Batch R298922          |      | SampType: Lcs |      | Units mg/L |       |             |      |           |            |            |               |
|------------------------|------|---------------|------|------------|-------|-------------|------|-----------|------------|------------|---------------|
| SampID: LCS            |      |               |      |            |       |             |      |           |            |            | Date Analyzed |
| Analyses               | Cert | RL            | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit |            |               |
| Total Dissolved Solids |      | 20            | B    | 952        | 1000  | 0           | 95.2 | 90        | 110        | 09/13/2021 |               |
| Total Dissolved Solids |      | 20            | B    | 958        | 1000  | 0           | 95.8 | 90        | 110        | 09/13/2021 |               |
| Total Dissolved Solids |      | 20            | B    | 944        | 1000  | 0           | 94.4 | 90        | 110        | 09/13/2021 |               |

| Batch R298970          |      | SampType: MBLK |      | Units mg/L |       |             |      |           |            |            |               |
|------------------------|------|----------------|------|------------|-------|-------------|------|-----------|------------|------------|---------------|
| SampID: MBLK           |      |                |      |            |       |             |      |           |            |            | Date Analyzed |
| Analyses               | Cert | RL             | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit |            |               |
| Total Dissolved Solids |      | 20             |      | < 20       | 16.00 | 0           | 0    | -100      | 100        | 09/14/2021 |               |
| Total Dissolved Solids |      | 20             |      | < 20       | 16.00 | 0           | 0    | -100      | 100        | 09/14/2021 |               |
| Total Dissolved Solids |      | 20             |      | < 20       | 16.00 | 0           | 0    | -100      | 100        | 09/14/2021 |               |

| Batch R298970          |      | SampType: LCS |      | Units mg/L |       |             |      |           |            |               |
|------------------------|------|---------------|------|------------|-------|-------------|------|-----------|------------|---------------|
| SampID: LCS            |      |               |      |            |       |             |      |           |            |               |
| Analyses               | Cert | RL            | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
| Total Dissolved Solids |      | 20            |      | 900        | 1000  | 0           | 90.0 | 90        | 110        | 09/14/2021    |
| Total Dissolved Solids |      | 20            |      | 928        | 1000  | 0           | 92.8 | 90        | 110        | 09/14/2021    |
| Total Dissolved Solids |      | 20            |      | 914        | 1000  | 0           | 91.4 | 90        | 110        | 09/14/2021    |

| Batch R298970            |  | SampType: DUP |    | Units mg/L |        |       |             | RPD Limit: 5 |             |      | Date Analyzed |  |
|--------------------------|--|---------------|----|------------|--------|-------|-------------|--------------|-------------|------|---------------|--|
| SampID: 21081266-010ADUP |  |               |    |            |        |       |             |              |             |      |               |  |
| Analyses                 |  | Cert          | RL | Qual       | Result | Spike | SPK Ref Val | %REC         | RPD Ref Val | %RPD |               |  |
| Total Dissolved Solids   |  |               | 20 |            | 1070   |       |             |              | 1094        | 2.03 |               |  |
| 09/14/2021               |  |               |    |            |        |       |             |              |             |      |               |  |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081266

Client Project: Hennepin GW Q3 2021

Report Date: 15-Oct-21

### STANDARD METHODS 2540 C (TOTAL) 1997, 2011

| Batch R298970            |  | SampType: DUP |    | Units mg/L |        |       |             | RPD Limit: 5 |             |      | Date Analyzed |  |
|--------------------------|--|---------------|----|------------|--------|-------|-------------|--------------|-------------|------|---------------|--|
| SampID: 21081266-033ADUP |  |               |    |            |        |       |             |              |             |      |               |  |
| Analyses                 |  | Cert          | RL | Qual       | Result | Spike | SPK Ref Val | %REC         | RPD Ref Val | %RPD |               |  |
| Total Dissolved Solids   |  |               | 20 |            | 1130   |       |             |              | 1136        | 0.88 |               |  |
| 09/14/2021               |  |               |    |            |        |       |             |              |             |      |               |  |

| Batch R299042          |      | SampType: MBLK |      | Units mg/L |       |             |      |           |            |            |               |
|------------------------|------|----------------|------|------------|-------|-------------|------|-----------|------------|------------|---------------|
| SampID: MBLK           |      |                |      |            |       |             |      |           |            |            | Date Analyzed |
| Analyses               | Cert | RL             | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit |            |               |
| Total Dissolved Solids |      | 20             |      | < 20       | 16.00 | 0           | 0    | -100      | 100        | 09/15/2021 |               |
| Total Dissolved Solids |      | 20             |      | < 20       | 16.00 | 0           | 0    | -100      | 100        | 09/15/2021 |               |
| Total Dissolved Solids |      | 20             |      | < 20       | 16.00 | 0           | 0    | -100      | 100        | 09/15/2021 |               |

| Batch R299042          |      | SampType: LCS |      | Units mg/L |       |             |      |           |            |               |
|------------------------|------|---------------|------|------------|-------|-------------|------|-----------|------------|---------------|
| SampID: LCS            |      |               |      |            |       |             |      |           |            |               |
| Analyses               | Cert | RL            | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
| Total Dissolved Solids |      | 20            |      | 918        | 1000  | 0           | 91.8 | 90        | 110        | 09/16/2021    |
| Total Dissolved Solids |      | 20            |      | 928        | 1000  | 0           | 92.8 | 90        | 110        | 09/15/2021    |
| Total Dissolved Solids |      | 20            |      | 924        | 1000  | 0           | 92.4 | 90        | 110        | 09/15/2021    |

| Batch R299042            |  | SampType: DUP |    | Units mg/L |        |       |             | RPD Limit: 5 |             |      |  | Date Analyzed |
|--------------------------|--|---------------|----|------------|--------|-------|-------------|--------------|-------------|------|--|---------------|
| SampID: 21081266-030ADUP |  |               |    |            |        |       |             |              |             |      |  |               |
| Analyses                 |  | Cert          | RL | Qual       | Result | Spike | SPK Ref Val | %REC         | RPD Ref Val | %RPD |  |               |
| Total Dissolved Solids   |  |               | 20 |            | 488    |       |             |              | 486.0       | 0.41 |  |               |
| 09/15/2021               |  |               |    |            |        |       |             |              |             |      |  |               |

| Batch R299042            |      | SampType: DUP |      | Units mg/L |       |             |      | RPD Limit: 5 |      |  | Date Analyzed |
|--------------------------|------|---------------|------|------------|-------|-------------|------|--------------|------|--|---------------|
| SampID: 21081266-037ADUP |      |               |      |            |       |             |      |              |      |  |               |
| Analyses                 | Cert | RL            | Qual | Result     | Spike | SPK Ref Val | %REC | RPD Ref Val  | %RPD |  |               |
| Total Dissolved Solids   |      | 20            |      | 446        |       |             |      | 434.0        | 2.73 |  |               |
|                          |      |               |      |            |       |             |      |              |      |  | 09/15/2021    |

| Batch R299087          |      | SampType: MBLK |      | Units mg/L |       |             |      |           |            |            |               |
|------------------------|------|----------------|------|------------|-------|-------------|------|-----------|------------|------------|---------------|
| SampID: MBLK           |      |                |      |            |       |             |      |           |            |            | Date Analyzed |
| Analyses               | Cert | RL             | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit |            |               |
| Total Dissolved Solids |      | 20             |      | < 20       | 16.00 | 0           | 0    | -100      | 100        | 09/16/2021 |               |
| Total Dissolved Solids |      | 20             |      | < 20       | 16.00 | 0           | 0    | -100      | 100        | 09/16/2021 |               |





## Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy  
Client Project: Hennepin GW Q3 2021

Work Order: 21081266  
Report Date: 15-Oct-21

### STANDARD METHODS 2540 C (TOTAL) 1997, 2011

| Batch R299087          |      | SampType: LCS |      | Units mg/L |       |             |      |           |            |               |
|------------------------|------|---------------|------|------------|-------|-------------|------|-----------|------------|---------------|
| SampID: LCS            |      |               |      |            |       |             |      |           |            |               |
| Analyses               | Cert | RL            | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
| Total Dissolved Solids |      | 20            |      | 912        | 1000  | 0           | 91.2 | 90        | 110        | 09/16/2021    |
| Total Dissolved Solids |      | 20            |      | 930        | 1000  | 0           | 93.0 | 90        | 110        | 09/16/2021    |

| Batch R299087            |  | SampType: DUP |    | Units mg/L |        |       |             | RPD Limit: 5 |             |      |               |
|--------------------------|--|---------------|----|------------|--------|-------|-------------|--------------|-------------|------|---------------|
| SampID: 21081266-018ADUP |  |               |    |            |        |       |             |              |             |      |               |
| Analyses                 |  | Cert          | RL | Qual       | Result | Spike | SPK Ref Val | %REC         | RPD Ref Val | %RPD | Date Analyzed |
| Total Dissolved Solids   |  |               | 20 |            | 522    |       |             |              | 548.0       | 4.86 | 09/16/2021    |

### STANDARD METHODS 4500-NH3 G (TOTAL) 1997, 2011

| Batch R298862            |      | SampType: MBLK |      | Units mg/L |        |             |      |           |            |               |  |
|--------------------------|------|----------------|------|------------|--------|-------------|------|-----------|------------|---------------|--|
| SampID: ICB/MBLK         |      |                |      |            |        |             |      |           |            |               |  |
| Analyses                 | Cert | RL             | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Nitrogen, Ammonia (as N) |      | 0.10           |      | < 0.10     | 0.0270 | 0           | 0    | -100      | 100        | 09/13/2021    |  |

| Batch R298862            |      | SampType: LCS |      | Units mg/L |       |             |      |           |            |            |               |
|--------------------------|------|---------------|------|------------|-------|-------------|------|-----------|------------|------------|---------------|
| SampID: ICV/LCS          |      |               |      |            |       |             |      |           |            |            | Date Analyzed |
| Analyses                 | Cert | RL            | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit |            |               |
| Nitrogen, Ammonia (as N) |      | 0.10          |      | 1.00       | 1.000 | 0           | 99.8 | 90        | 110        | 09/13/2021 |               |

| Batch R298862            |      | SampType: MS |      | Units mg/L |       |             |      |           |            |               |
|--------------------------|------|--------------|------|------------|-------|-------------|------|-----------|------------|---------------|
| SampID: 21081266-008HMS  |      |              |      |            |       |             |      |           |            |               |
| Analyses                 | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
| Nitrogen, Ammonia (as N) |      | 0.10         |      | 1.97       | 2.000 | 0.06500     | 95.2 | 90        | 110        | 09/13/2021    |

| Batch R298862            |      | SampType: MSD |      | Units mg/L |       |             |      | RPD Limit: 10 |      |               |  |
|--------------------------|------|---------------|------|------------|-------|-------------|------|---------------|------|---------------|--|
| SampID: 21081266-008HMSD |      |               |      |            |       |             |      |               |      |               |  |
| Analyses                 | Cert | RL            | Qual | Result     | Spike | SPK Ref Val | %REC | RPD Ref Val   | %RPD | Date Analyzed |  |
| Nitrogen, Ammonia (as N) |      | 0.10          |      | 1.96       | 2.000 | 0.06500     | 94.9 | 1.968         | 0.25 | 09/13/2021    |  |

| Batch R298862            |      | SampType: MS |      | Units mg/L |       |             |      |           |            |               |  |
|--------------------------|------|--------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: 21081266-035GMS  |      |              |      |            |       |             |      |           |            |               |  |
| Analyses                 | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Nitrogen, Ammonia (as N) |      | 0.10         |      | 1.95       | 2.000 | 0           | 97.6 | 90        | 110        | 09/13/2021    |  |



## Quality Control Results

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Client: Vistra Energy

Work Order: 21081266

Client Project: Hennepin GW Q3 2021

Report Date: 15-Oct-21

### STANDARD METHODS 4500-NH3 G (TOTAL) 1997, 2011

| Batch R298862            |  | SampType: MSD |      | Units mg/L |        |       |             | RPD Limit: 10 |             |      | Date Analyzed |
|--------------------------|--|---------------|------|------------|--------|-------|-------------|---------------|-------------|------|---------------|
| SampID: 21081266-035GMSD |  |               |      |            |        |       |             |               |             |      |               |
| Analyses                 |  | Cert          | RL   | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD |               |
| Nitrogen, Ammonia (as N) |  |               | 0.10 |            | 1.96   | 2.000 | 0           | 98.2          | 1.951       | 0.72 | 09/13/2021    |

### STANDARD METHODS 4500-NO2 B (TOTAL) 2000, 2011

| Batch R298804            |      | SampType: MBLK |      | Units mg/L |        |             |      |           |            |               |  |
|--------------------------|------|----------------|------|------------|--------|-------------|------|-----------|------------|---------------|--|
| SampID: MBLK             |      |                |      |            |        |             |      |           |            |               |  |
| Analyses                 | Cert | RL             | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Nitrogen, Nitrite (as N) |      | 0.05           |      | < 0.05     | 0.0250 | 0           | 0    | -100      | 100        | 09/10/2021    |  |
| Nitrogen, Nitrite (as N) |      | 0.05           |      | < 0.05     | 0.0250 | 0           | 0    | -100      | 100        | 09/10/2021    |  |

| Batch R298804            |      | SampType: LCS |      | Units mg/L |       |             |       |           |            |               |  |
|--------------------------|------|---------------|------|------------|-------|-------------|-------|-----------|------------|---------------|--|
| SampID: LCS              |      |               |      |            |       |             |       |           |            |               |  |
| Analyses                 | Cert | RL            | Qual | Result     | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |  |
| Nitrogen, Nitrite (as N) |      | 0.25          |      | 1.66       | 1.520 | 0           | 109.5 | 90        | 110        | 09/10/2021    |  |
| Nitrogen, Nitrite (as N) |      | 0.25          |      | 1.66       | 1.520 | 0           | 109.5 | 90        | 110        | 09/10/2021    |  |

| Batch R298804            |      | SampType: MS |      | Units mg/L |       |             |      |           |            |     |               |
|--------------------------|------|--------------|------|------------|-------|-------------|------|-----------|------------|-----|---------------|
| SampID: 21081266-001AMS  |      |              |      |            |       |             |      |           |            |     | Date Analyzed |
| Analyses                 | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit |     |               |
| Nitrogen, Nitrite (as N) |      | 0.05         |      |            | 0.49  | 0.5000      | 0    | 98.2      | 85         | 115 | 09/10/2021    |

| Batch R298804            |  | SampType: MSD |      | Units mg/L |        |        |             | RPD Limit: 10 |             |      | Date Analyzed |  |
|--------------------------|--|---------------|------|------------|--------|--------|-------------|---------------|-------------|------|---------------|--|
| SampID: 21081266-001AMSD |  |               |      |            |        |        |             |               |             |      |               |  |
| Analyses                 |  | Cert          | RL   | Qual       | Result | Spike  | SPK Ref Val | %REC          | RPD Ref Val | %RPD |               |  |
| Nitrogen, Nitrite (as N) |  |               | 0.05 |            | 0.52   | 0.5000 | 0           | 103.2         | 0.4910      | 4.97 | 09/10/2021    |  |

| Batch R298804            |      | SampType: MS |      | Units mg/L |        |             |      |           |            |               |  |
|--------------------------|------|--------------|------|------------|--------|-------------|------|-----------|------------|---------------|--|
| SampID: 21081266-011AMS  |      |              |      |            |        |             |      |           |            |               |  |
| Analyses                 | Cert | RL           | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Nitrogen, Nitrite (as N) |      | 0.05         |      | 0.47       | 0.5000 | 0           | 93.4 | 85        | 115        | 09/10/2021    |  |

| Batch R298804            |  | SampType: MSD |      | Units mg/L |        |        |             | RPD Limit: 10 |             |      | Date Analyzed |  |
|--------------------------|--|---------------|------|------------|--------|--------|-------------|---------------|-------------|------|---------------|--|
| SampID: 21081266-011AMSD |  |               |      |            |        |        |             |               |             |      |               |  |
| Analyses                 |  | Cert          | RL   | Qual       | Result | Spike  | SPK Ref Val | %REC          | RPD Ref Val | %RPD |               |  |
| Nitrogen, Nitrite (as N) |  |               | 0.05 |            | 0.50   | 0.5000 | 0           | 99.2          | 0.4670      | 6.02 | 09/10/2021    |  |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081266

Client Project: Hennepin GW Q3 2021

Report Date: 15-Oct-21

### STANDARD METHODS 4500-NO2 B (TOTAL) 2000, 2011

Batch R298804 SampType: MS Units mg/L

SampID: 21081266-014AMS

| Analyses                 | Cert | RL   | Qual | Result | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|--------------------------|------|------|------|--------|--------|-------------|-------|-----------|------------|---------------|
| Nitrogen, Nitrite (as N) |      | 0.05 |      | 0.51   | 0.5000 | 0           | 101.2 | 85        | 115        | 09/10/2021    |

Batch R298804 SampType: MSD Units mg/L

RPD Limit: 10

SampID: 21081266-014AMSD

| Analyses                 | Cert | RL   | Qual | Result | Spike  | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|--------------------------|------|------|------|--------|--------|-------------|------|-------------|------|---------------|
| Nitrogen, Nitrite (as N) |      | 0.05 |      | 0.49   | 0.5000 | 0           | 98.8 | 0.5060      | 2.40 | 09/10/2021    |

### STANDARD METHODS 4500-NO3 F (TOTAL) 2000, 2011

Batch R298842 SampType: MBLK Units mg/L

SampID: ICB/MBLK

| Analyses                         | Cert | RL    | Qual | Result  | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|----------------------------------|------|-------|------|---------|--------|-------------|------|-----------|------------|---------------|
| Nitrogen, Nitrate-Nitrite (as N) |      | 0.050 |      | < 0.050 | 0.0090 | 0           | 0    | -100      | 100        | 09/10/2021    |

Batch R298842 SampType: LCS Units mg/L

SampID: ICB/LCS

| Analyses                         | Cert | RL    | Qual | Result | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|----------------------------------|------|-------|------|--------|--------|-------------|------|-----------|------------|---------------|
| Nitrogen, Nitrate-Nitrite (as N) |      | 0.050 |      | 0.496  | 0.5000 | 0           | 99.3 | 90        | 110        | 09/10/2021    |

Batch R298842 SampType: MS Units mg/L

SampID: 21081266-001AMS

| Analyses                         | Cert | RL   | Qual | Result | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|----------------------------------|------|------|------|--------|-------|-------------|-------|-----------|------------|---------------|
| Nitrogen, Nitrate-Nitrite (as N) |      | 1.00 |      | 12.6   | 5.000 | 7.446       | 102.8 | 85        | 115        | 09/10/2021    |

Batch R298842 SampType: MSD Units mg/L

RPD Limit: 10

SampID: 21081266-001AMSD

| Analyses                         | Cert | RL   | Qual | Result | Spike | SPK Ref Val | %REC  | RPD Ref Val | %RPD | Date Analyzed |
|----------------------------------|------|------|------|--------|-------|-------------|-------|-------------|------|---------------|
| Nitrogen, Nitrate-Nitrite (as N) |      | 1.00 |      | 12.8   | 5.000 | 7.446       | 106.1 | 12.59       | 1.29 | 09/10/2021    |

Batch R298842 SampType: MS Units mg/L

SampID: 21081266-011AMS

| Analyses                         | Cert | RL   | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|----------------------------------|------|------|------|--------|-------|-------------|------|-----------|------------|---------------|
| Nitrogen, Nitrate-Nitrite (as N) |      | 1.00 |      | 7.56   | 5.000 | 2.594       | 99.3 | 85        | 115        | 09/10/2021    |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081266

Client Project: Hennepin GW Q3 2021

Report Date: 15-Oct-21

### STANDARD METHODS 4500-NO3 F (TOTAL) 2000, 2011

| Batch R298842                    |  | SampType: MSD |      | Units mg/L |        |       |             | RPD Limit: 10 |             |      | Date Analyzed |
|----------------------------------|--|---------------|------|------------|--------|-------|-------------|---------------|-------------|------|---------------|
| SampID: 21081266-011AMSD         |  |               |      |            |        |       |             |               |             |      |               |
| Analyses                         |  | Cert          | RL   | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD |               |
| Nitrogen, Nitrate-Nitrite (as N) |  |               | 1.00 |            | 7.68   | 5.000 | 2.594       | 101.8         | 7.558       | 1.63 | 09/10/2021    |

| Batch R298842                    |      | SampType: MS |      | Units mg/L |       |             |       |           |            |            |               |
|----------------------------------|------|--------------|------|------------|-------|-------------|-------|-----------|------------|------------|---------------|
| SampID: 21081266-019AMS          |      |              |      |            |       |             |       |           |            |            | Date Analyzed |
| Analyses                         | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC  | Low Limit | High Limit |            |               |
| Nitrogen, Nitrate-Nitrite (as N) |      | 1.00         |      | 8.21       | 5.000 | 3.183       | 100.5 | 85        | 115        | 09/10/2021 |               |

| Batch R298842                    |  | SampType: MSD |      | Units mg/L |        |       | RPD Limit: 10 |      |             |      | Date Analyzed |
|----------------------------------|--|---------------|------|------------|--------|-------|---------------|------|-------------|------|---------------|
| SampID: 21081266-019AMSD         |  |               |      |            |        |       |               |      |             |      |               |
| Analyses                         |  | Cert          | RL   | Qual       | Result | Spike | SPK Ref Val   | %REC | RPD Ref Val | %RPD |               |
| Nitrogen, Nitrate-Nitrite (as N) |  |               | 1.00 |            | 8.17   | 5.000 | 3.183         | 99.8 | 8.206       | 0.38 | 09/10/2021    |

### SW-846 9012A (TOTAL)

| Batch 181732             |      | SampType: MBLK |      | Units mg/L |        |             |      |           |            |               |  |
|--------------------------|------|----------------|------|------------|--------|-------------|------|-----------|------------|---------------|--|
| SampID: MBLK 210913 TCN1 |      |                |      |            |        |             |      |           |            |               |  |
| Analyses                 | Cert | RL             | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Cyanide                  |      | 0.005          |      | < 0.005    | 0.0015 | 0           | 0    | -100      | 100        | 09/14/2021    |  |

| Batch 181732            |      | SampType: LCS |      | Units mg/L |        |             |      |           |            |               |  |
|-------------------------|------|---------------|------|------------|--------|-------------|------|-----------|------------|---------------|--|
| SampID: LCS 210913 TCN1 |      |               |      |            |        |             |      |           |            |               |  |
| Analyses                | Cert | RL            | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Cyanide                 |      | 0.005         |      | 0.024      | 0.0250 | 0           | 96.9 | 90        | 110        | 09/14/2021    |  |

| Batch 181732            |      | SampType: MS |      | Units mg/L |        |             |      |           |            |               |  |
|-------------------------|------|--------------|------|------------|--------|-------------|------|-----------|------------|---------------|--|
| SampID: 21081266-008FMS |      |              |      |            |        |             |      |           |            |               |  |
| Analyses                | Cert | RL           | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Cyanide                 |      | 0.005        |      | 0.031      | 0.0250 | 0.006460    | 99.6 | 75        | 125        | 09/14/2021    |  |

| Batch 181732             |  | SampType: MSD |       | Units mg/L |        |        |             | RPD Limit: 15 |             |      |               |
|--------------------------|--|---------------|-------|------------|--------|--------|-------------|---------------|-------------|------|---------------|
| SampID: 21081266-008FMSD |  |               |       |            |        |        |             |               |             |      |               |
| Analyses                 |  | Cert          | RL    | Qual       | Result | Spike  | SPK Ref Val | %REC          | RPD Ref Val | %RPD | Date Analyzed |
| Cyanide                  |  |               | 0.005 |            | 0.031  | 0.0250 | 0.006460    | 99.5          | 0.03136     | 0.05 | 09/14/2021    |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081266

Client Project: Hennepin GW Q3 2021

Report Date: 15-Oct-21

### SW-846 9012A (TOTAL)

Batch 181840 SampType: MS Units mg/L

SampID: 21081266-019EMS

| Analyses | Cert | RL    | Qual | Result | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|----------|------|-------|------|--------|--------|-------------|-------|-----------|------------|---------------|
| Cyanide  |      | 0.005 |      | 0.026  | 0.0250 | 0           | 103.1 | 75        | 125        | 09/16/2021    |

Batch 181840 SampType: MSD Units mg/L

RPD Limit: 15

SampID: 21081266-019EMSD

| Analyses | Cert | RL    | Qual | Result | Spike  | SPK Ref Val | %REC | RPD Ref Val | %RPD  | Date Analyzed |
|----------|------|-------|------|--------|--------|-------------|------|-------------|-------|---------------|
| Cyanide  |      | 0.005 |      | 0.023  | 0.0250 | 0           | 90.1 | 0.02578     | 13.43 | 09/16/2021    |

Batch 181844 SampType: MBLK Units mg/L

SampID: MBLK 210915 TCN1

| Analyses | Cert | RL    | Qual | Result  | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|----------|------|-------|------|---------|--------|-------------|------|-----------|------------|---------------|
| Cyanide  |      | 0.005 |      | < 0.005 | 0.0015 | 0           | 0    | -100      | 100        | 09/16/2021    |

Batch 181844 SampType: LCS Units mg/L

SampID: LCS 210915 TCN1

| Analyses | Cert | RL    | Qual | Result | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|----------|------|-------|------|--------|--------|-------------|------|-----------|------------|---------------|
| Cyanide  |      | 0.005 |      | 0.023  | 0.0250 | 0           | 92.6 | 85        | 115        | 09/16/2021    |

Batch 181844 SampType: MS Units mg/L

SampID: 21081266-011FMS

| Analyses | Cert | RL    | Qual | Result | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|----------|------|-------|------|--------|--------|-------------|-------|-----------|------------|---------------|
| Cyanide  |      | 0.005 |      | 0.025  | 0.0250 | 0           | 100.6 | 75        | 125        | 09/16/2021    |

Batch 181844 SampType: MSD Units mg/L

RPD Limit: 15

SampID: 21081266-011FMDS

| Analyses | Cert | RL    | Qual | Result | Spike  | SPK Ref Val | %REC  | RPD Ref Val | %RPD | Date Analyzed |
|----------|------|-------|------|--------|--------|-------------|-------|-------------|------|---------------|
| Cyanide  |      | 0.005 |      | 0.026  | 0.0250 | 0           | 103.8 | 0.02515     | 3.13 | 09/16/2021    |

### SW-846 9036 (DISSOLVED)

Batch R298928 SampType: MS Units mg/L

SampID: 21081266-012BMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|----------|------|----|------|--------|-------|-------------|------|-----------|------------|---------------|
| Sulfate  |      | 20 | E    | 103    | 40.00 | 64.61       | 95.1 | 85        | 115        | 09/14/2021    |





## Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy  
Client Project: Hennepin GW Q3 2021

Work Order: 21081266  
Report Date: 15-Oct-21

### SW-846 9036 (DISSOLVED)

| Batch R298928            |  | SampType: MSD |    | Units mg/L |        |       |             | RPD Limit: 10 |             |      |               |
|--------------------------|--|---------------|----|------------|--------|-------|-------------|---------------|-------------|------|---------------|
| SampID: 21081266-012BMSD |  |               |    |            |        |       |             |               |             |      |               |
| Analyses                 |  | Cert          | RL | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD | Date Analyzed |
| Sulfate                  |  |               | 20 | E          | 103    | 40.00 | 64.61       | 97.2          | 102.6       | 0.81 | 09/14/2021    |

| Batch R299021           |      | SampType: MS |      | Units mg/L |       |             |       |           |            |            |               |
|-------------------------|------|--------------|------|------------|-------|-------------|-------|-----------|------------|------------|---------------|
| SampID: 21081266-001CMS |      |              |      |            |       |             |       |           |            |            | Date Analyzed |
| Analyses                | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC  | Low Limit | High Limit |            |               |
| Sulfate                 |      | 50           |      | 178        | 100.0 | 71.63       | 106.5 | 85        | 115        | 09/15/2021 |               |

| Batch R299021            |  | SampType: MSD |    | Units mg/L |        |       |             | RPD Limit: 10 |             |      |               |
|--------------------------|--|---------------|----|------------|--------|-------|-------------|---------------|-------------|------|---------------|
| SampID: 21081266-001CMSD |  |               |    |            |        |       |             |               |             |      |               |
| Analyses                 |  | Cert          | RL | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD | Date Analyzed |
| Sulfate                  |  |               | 50 |            | 176    | 100.0 | 71.63       | 104.4         | 178.2       | 1.21 | 09/15/2021    |

| Batch R299089           |      | SampType: MS |      | Units mg/L |       |             |       |           |            |               |
|-------------------------|------|--------------|------|------------|-------|-------------|-------|-----------|------------|---------------|
| SampID: 21081266-019BMS |      |              |      |            |       |             |       |           |            | Date Analyzed |
| Analyses                | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC  | Low Limit | High Limit |               |
| Sulfate                 |      | 50           |      | 191        | 100.0 | 90.60       | 100.4 | 85        | 115        |               |
|                         |      |              |      |            |       |             |       |           |            | 09/16/2021    |

| Batch R299089            |  | SampType: MSD |    | Units mg/L |        |       |             |       | RPD Limit: 10 |      |               |
|--------------------------|--|---------------|----|------------|--------|-------|-------------|-------|---------------|------|---------------|
| SampID: 21081266-019BMSD |  |               |    |            |        |       |             |       |               |      |               |
| Analyses                 |  | Cert          | RL | Qual       | Result | Spike | SPK Ref Val | %REC  | RPD Ref Val   | %RPD | Date Analyzed |
| Sulfate                  |  |               | 50 |            | 191    | 100.0 | 90.60       | 100.2 | 191.0         | 0.05 | 09/16/2021    |

| Batch R299276      |      | SampType: MBLK |      | Units mg/L |       |             |      |           |            |               |  |
|--------------------|------|----------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: MB-R299276 |      |                |      |            |       |             |      |           |            |               |  |
| Analyses           | Cert | RL             | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Sulfate            |      | 10             |      | < 10       | 7.620 | 0           | 0    | -100      | 100        | 09/20/2021    |  |

| Batch R299276       |      | SampType: LCS |      | Units mg/L |       |             |      |           |            |               |  |
|---------------------|------|---------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: LCS-R299276 |      |               |      |            |       |             |      |           |            |               |  |
| Analyses            | Cert | RL            | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Sulfate             |      | 10            |      | 20         | 20.00 | 0           | 98.5 | 90        | 110        | 09/20/2021    |  |

**Client:** Vistra Energy  
**Client Project:** Hennepin GW Q3 2021

**Work Order:** 21081266  
**Report Date:** 15-Oct-21

**SW-846 9036 (TOTAL)**

|                  |  |                |    |            |        |       |             |      |           |            |               |
|------------------|--|----------------|----|------------|--------|-------|-------------|------|-----------|------------|---------------|
| Batch R298928    |  | SampType: MBLK |    | Units mg/L |        |       |             |      |           |            |               |
| SampID: ICB/MBLK |  |                |    |            |        |       |             |      |           |            |               |
| Analyses         |  | Cert           | RL | Qual       | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
| Sulfate          |  |                | 10 |            | < 10   | 6.140 | 0           | 0    | -100      | 100        | 09/13/2021    |

| Batch R298928   |      | SampType: LCS |      | Units mg/L |       |             |       |           |            |               |  |
|-----------------|------|---------------|------|------------|-------|-------------|-------|-----------|------------|---------------|--|
| SampID: ICV/LCS |      |               |      |            |       |             |       |           |            |               |  |
| Analyses        | Cert | RL            | Qual | Result     | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |  |
| Sulfate         |      | 10            |      | 21         | 20.00 | 0           | 105.2 | 90        | 110        | 09/13/2021    |  |

| Batch R299021    |      | SampType: MBLK |      | Units mg/L |       |             |      |           |            |            |      |
|------------------|------|----------------|------|------------|-------|-------------|------|-----------|------------|------------|------|
| SampID: ICB/MBLK |      |                |      |            |       |             |      |           |            |            | Date |
| Analyses         | Cert | RL             | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Analyzed   |      |
| Sulfate          |      | 10             |      | < 10       | 6.140 | 0           | 0    | -100      | 100        | 09/15/2021 |      |

| Batch R299021   |      | SampType: LCS |      | Units mg/L |       |             |      |           |            |               |  |
|-----------------|------|---------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: ICV/LCS |      |               |      |            |       |             |      |           |            |               |  |
| Analyses        | Cert | RL            | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Sulfate         |      | 10            |      | 20         | 20.00 | 0           | 98.5 | 90        | 110        | 09/15/2021    |  |

| Batch R299021           |      | SampType: MS |      | Units mg/L |       |             |      |           |            |               |  |
|-------------------------|------|--------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: 21081266-002AMS |      |              |      |            |       |             |      |           |            |               |  |
| Analyses                | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Sulfate                 |      | 50           |      | 183        | 100.0 | 86.35       | 96.2 | 85        | 115        | 09/16/2021    |  |

| Batch R299021            |  | SampType: MSD |    | Units mg/L |        |       |             | RPD Limit: 10 |             |      |               |
|--------------------------|--|---------------|----|------------|--------|-------|-------------|---------------|-------------|------|---------------|
| SampID: 21081266-002AMSD |  |               |    |            |        |       |             |               |             |      |               |
| Analyses                 |  | Cert          | RL | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD | Date Analyzed |
| Sulfate                  |  |               | 50 |            | 182    | 100.0 | 86.35       | 96.0          | 182.6       | 0.16 | 09/16/2021    |

| Batch R299021           |      | SampType: MS |      | Units mg/L |       |             |      |           |            |               |  |
|-------------------------|------|--------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: 21081266-037AMS |      |              |      |            |       |             |      |           |            |               |  |
| Analyses                | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Sulfate                 |      | 50           |      | 159        | 100.0 | 65.81       | 93.2 | 85        | 115        | 09/16/2021    |  |

| Batch R299021            |  | SampType: MSD |    | Units mg/L |        |       |             | RPD Limit: 10 |             |      |               |
|--------------------------|--|---------------|----|------------|--------|-------|-------------|---------------|-------------|------|---------------|
| SampID: 21081266-037AMSD |  |               |    |            |        |       |             |               |             |      |               |
| Analyses                 |  | Cert          | RL | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD | Date Analyzed |
| Sulfate                  |  |               | 50 |            | 165    | 100.0 | 65.81       | 98.9          | 159.0       | 3.50 | 09/16/2021    |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081266

Client Project: Hennepin GW Q3 2021

Report Date: 15-Oct-21

### SW-846 9036 (TOTAL)

| Batch R299089    |      | SampType: MBLK |      | Units mg/L |       |             |      |           |            |               |  |
|------------------|------|----------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: ICB/MBLK |      |                |      |            |       |             |      |           |            |               |  |
| Analyses         | Cert | RL             | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Sulfate          |      | 10             |      | < 10       | 6.140 | 0           | 0    | -100      | 100        | 09/16/2021    |  |

| Batch R299089   |      | SampType: LCS |      | Units mg/L |       |             |       |           |            |               |  |
|-----------------|------|---------------|------|------------|-------|-------------|-------|-----------|------------|---------------|--|
| SampID: ICV/LCS |      |               |      |            |       |             |       |           |            |               |  |
| Analyses        | Cert | RL            | Qual | Result     | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |  |
| Sulfate         |      | 10            |      | 21         | 20.00 | 0           | 106.4 | 90        | 110        | 09/16/2021    |  |

| Batch R299089           |      | SampType: MS |      | Units mg/L |       |             |       |           |            |               |  |
|-------------------------|------|--------------|------|------------|-------|-------------|-------|-----------|------------|---------------|--|
| SampID: 21081266-004AMS |      |              |      |            |       |             |       |           |            |               |  |
| Analyses                | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |  |
| Sulfate                 |      | 50           |      | 189        | 100.0 | 84.17       | 104.4 | 85        | 115        | 09/16/2021    |  |

| Batch R299089            |  | SampType: MSD |    | Units mg/L |        |       |             | RPD Limit: 10 |             |      |               |
|--------------------------|--|---------------|----|------------|--------|-------|-------------|---------------|-------------|------|---------------|
| SampID: 21081266-004AMSD |  |               |    |            |        |       |             |               |             |      |               |
| Analyses                 |  | Cert          | RL | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD | Date Analyzed |
| Sulfate                  |  |               | 50 |            | 188    | 100.0 | 84.17       | 104.1         | 188.6       | 0.15 | 09/16/2021    |

| Batch R299276    |      | SampType: MBLK |      | Units mg/L |       |             |      |           |            |            |  |
|------------------|------|----------------|------|------------|-------|-------------|------|-----------|------------|------------|--|
| SampID: ICB/MBLK |      | Date Analyzed  |      |            |       |             |      |           |            |            |  |
| Analyses         | Cert | RL             | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit |            |  |
| Sulfate          |      | 10             |      | < 10       | 6.140 | 0           | 0    | -100      | 100        | 09/20/2021 |  |

| Batch R299276   |      | SampType: LCS |      | Units mg/L |       |             |      |           |            |               |  |
|-----------------|------|---------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: ICB/LCS |      |               |      |            |       |             |      |           |            |               |  |
| Analyses        | Cert | RL            | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Sulfate         |      | 10            |      | 20         | 20.00 | 0           | 98.5 | 90        | 110        | 09/20/2021    |  |

### SW-846 9066 (TOTAL)

| Batch R298976    |      | SampType: MBLK |      | Units mg/L |        |             |      |           |            |               |  |
|------------------|------|----------------|------|------------|--------|-------------|------|-----------|------------|---------------|--|
| SampID: ICB/MBLK |      |                |      |            |        |             |      |           |            |               |  |
| Analyses         | Cert | RL             | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Phenols          |      | 0.005          |      | < 0.005    | 0.0028 | 0           | 0    | -100      | 100        | 09/15/2021    |  |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081266

Client Project: Hennepin GW Q3 2021

Report Date: 15-Oct-21

### SW-846 9066 (TOTAL)

Batch R298976 SampType: LCS Units mg/L

SampID: ICV/LCS

| Analyses | Cert | RL    | Qual | Result | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|----------|------|-------|------|--------|--------|-------------|------|-----------|------------|---------------|
| Phenols  |      | 0.005 |      | 0.050  | 0.0500 | 0           | 99.2 | 90        | 110        | 09/15/2021    |

Batch R298976 SampType: MS Units µg/L

SampID: 21081266-011GMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|----------|------|----|------|--------|-------|-------------|-------|-----------|------------|---------------|
| Phenols  |      | 5  |      | 53     | 50.00 | 0           | 106.4 | 85        | 115        | 09/15/2021    |

Batch R298976 SampType: MSD Units µg/L

SampID: 21081266-011GMSD

RPD Limit: 15

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC  | RPD Ref Val | %RPD | Date Analyzed |
|----------|------|----|------|--------|-------|-------------|-------|-------------|------|---------------|
| Phenols  |      | 5  |      | 57     | 50.00 | 0           | 113.6 | 53.21       | 6.51 | 09/15/2021    |

### SW-846 9214 (DISSOLVED)

Batch R298849 SampType: MS Units mg/L

SampID: 21081266-008CMS

| Analyses | Cert | RL   | Qual | Result | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|----------|------|------|------|--------|-------|-------------|-------|-----------|------------|---------------|
| Fluoride |      | 0.10 |      | 2.22   | 2.000 | 0.09100     | 106.4 | 75        | 125        | 09/13/2021    |

Batch R298849 SampType: MSD Units mg/L

SampID: 21081266-008CMSD

RPD Limit: 15

| Analyses | Cert | RL   | Qual | Result | Spike | SPK Ref Val | %REC  | RPD Ref Val | %RPD | Date Analyzed |
|----------|------|------|------|--------|-------|-------------|-------|-------------|------|---------------|
| Fluoride |      | 0.10 |      | 2.23   | 2.000 | 0.09100     | 106.9 | 2.218       | 0.49 | 09/13/2021    |

Batch R298849 SampType: MS Units mg/L

SampID: 21081266-016BMS

| Analyses | Cert | RL   | Qual | Result | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|----------|------|------|------|--------|-------|-------------|-------|-----------|------------|---------------|
| Fluoride |      | 0.10 |      | 2.34   | 2.000 | 0.2320      | 105.2 | 75        | 125        | 09/13/2021    |

Batch R298849 SampType: MSD Units mg/L

SampID: 21081266-016BMSD

RPD Limit: 15

| Analyses | Cert | RL   | Qual | Result | Spike | SPK Ref Val | %REC  | RPD Ref Val | %RPD | Date Analyzed |
|----------|------|------|------|--------|-------|-------------|-------|-------------|------|---------------|
| Fluoride |      | 0.10 |      | 2.33   | 2.000 | 0.2320      | 104.8 | 2.336       | 0.30 | 09/13/2021    |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081266

Client Project: Hennepin GW Q3 2021

Report Date: 15-Oct-21

### SW-846 9214 (DISSOLVED)

| Batch R298849           |      | SampType: MS |      | Units mg/L |       |             |       |           |            |            |               |
|-------------------------|------|--------------|------|------------|-------|-------------|-------|-----------|------------|------------|---------------|
| SampID: 21081266-043CMS |      |              |      |            |       |             |       |           |            |            | Date Analyzed |
| Analyses                | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC  | Low Limit | High Limit |            |               |
| Fluoride                |      | 0.10         |      | 2.08       | 2.000 | 0           | 104.0 | 75        | 125        | 09/13/2021 |               |

| Batch R298849            |  | SampType: MSD |      | Units mg/L |        |       |             | RPD Limit: 15 |             |      |               |
|--------------------------|--|---------------|------|------------|--------|-------|-------------|---------------|-------------|------|---------------|
| SampID: 21081266-043CMSD |  |               |      |            |        |       |             |               |             |      |               |
| Analyses                 |  | Cert          | RL   | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD | Date Analyzed |
| Fluoride                 |  |               | 0.10 |            | 2.09   | 2.000 | 0           | 104.6         | 2.079       | 0.58 | 09/13/2021    |

### SW-846 9214 (TOTAL)

| Batch R298849 |      | SampType: MBLK |      | Units mg/L |        |             |      |           |            |               |  |
|---------------|------|----------------|------|------------|--------|-------------|------|-----------|------------|---------------|--|
| SampID: MBLK  |      |                |      |            |        |             |      |           |            | Date Analyzed |  |
| Analyses      | Cert | RL             | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit |               |  |
| Fluoride      |      | 0.10           |      | < 0.10     | 0.0370 | 0           | 0    | -100      | 100        | 09/13/2021    |  |

| Batch R298849 |      | SampType: LCS |      | Units mg/L |       |             |      |           |            |               |  |
|---------------|------|---------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: LCS   |      |               |      |            |       |             |      |           |            | Date Analyzed |  |
| Analyses      | Cert | RL            | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit |               |  |
| Fluoride      |      | 0.10          |      | 0.94       | 1.000 | 0           | 94.5 | 90        | 110        | 09/13/2021    |  |

| Batch R298849           |      | SampType: MS |      | Units mg/L |       |             |       |           |            |               |  |
|-------------------------|------|--------------|------|------------|-------|-------------|-------|-----------|------------|---------------|--|
| SampID: 21081266-012AMS |      |              |      |            |       |             |       |           |            |               |  |
| Analyses                | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |  |
| Fluoride                |      | 0.10         |      | 2.36       | 2.000 | 0.2520      | 105.4 | 75        | 125        | 09/13/2021    |  |

| Batch R298849            |  | SampType: MSD |      | Units mg/L |        |       |             | RPD Limit: 15 |             |      |               |
|--------------------------|--|---------------|------|------------|--------|-------|-------------|---------------|-------------|------|---------------|
| SampID: 21081266-012AMSD |  |               |      |            |        |       |             |               |             |      |               |
| Analyses                 |  | Cert          | RL   | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD | Date Analyzed |
| Fluoride                 |  |               | 0.10 |            | 2.38   | 2.000 | 0.2520      | 106.4         | 2.360       | 0.84 | 09/13/2021    |

| Batch R298849           |      | SampType: MS |      | Units mg/L |       |             |       |           |            |               |  |
|-------------------------|------|--------------|------|------------|-------|-------------|-------|-----------|------------|---------------|--|
| SampID: 21081266-021AMS |      |              |      |            |       |             |       |           |            |               |  |
| Analyses                | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |  |
| Fluoride                |      | 0.10         |      | 2.22       | 2.000 | 0.1440      | 104.0 | 75        | 125        | 09/13/2021    |  |





## Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081266

Client Project: Hennepin GW Q3 2021

Report Date: 15-Oct-21

### SW-846 9214 (TOTAL)

| Batch R298849            |      | SampType: MSD |      | Units mg/L |       |             |       | RPD Limit: 15 |      |            | Date Analyzed |
|--------------------------|------|---------------|------|------------|-------|-------------|-------|---------------|------|------------|---------------|
| SampID: 21081266-021AMSD |      |               |      |            |       |             |       |               |      |            |               |
| Analyses                 | Cert | RL            | Qual | Result     | Spike | SPK Ref Val | %REC  | RPD Ref Val   | %RPD |            |               |
| Fluoride                 |      | 0.10          |      | 2.24       | 2.000 | 0.1440      | 104.8 | 2.223         | 0.72 | 09/13/2021 |               |

| Batch R298849           |      | SampType: MS |      | Units mg/L |       |             |       |           |            |            |               |
|-------------------------|------|--------------|------|------------|-------|-------------|-------|-----------|------------|------------|---------------|
| SampID: 21081266-035AMS |      |              |      |            |       |             |       |           |            |            | Date Analyzed |
| Analyses                | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC  | Low Limit | High Limit |            |               |
| Fluoride                |      | 0.10         |      | 2.26       | 2.000 | 0.1540      | 105.4 | 75        | 125        | 09/13/2021 |               |

| Batch R298849            |  | SampType: MSD |      | Units mg/L |        |       |             | RPD Limit: 15 |             |      |            | Date Analyzed |
|--------------------------|--|---------------|------|------------|--------|-------|-------------|---------------|-------------|------|------------|---------------|
| SampID: 21081266-035AMSD |  |               |      |            |        |       |             |               |             |      |            |               |
| Analyses                 |  | Cert          | RL   | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD |            |               |
| Fluoride                 |  |               | 0.10 |            | 2.27   | 2.000 | 0.1540      | 105.7         | 2.262       | 0.26 | 09/13/2021 |               |

| Batch R298849           |      | SampType: MS |      | Units mg/L |       |             |       |           |            |               |  |
|-------------------------|------|--------------|------|------------|-------|-------------|-------|-----------|------------|---------------|--|
| SampID: 21081266-043AMS |      |              |      |            |       |             |       |           |            |               |  |
| Analyses                | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |  |
| Fluoride                |      | 0.10         |      | 2.08       | 2.000 | 0           | 104.0 | 75        | 125        | 09/13/2021    |  |

| Batch R298849            |  | SampType: MSD |      | Units mg/L |        |       |             | RPD Limit: 15 |             |      | Date Analyzed |  |
|--------------------------|--|---------------|------|------------|--------|-------|-------------|---------------|-------------|------|---------------|--|
| SampID: 21081266-043AMSD |  |               |      |            |        |       |             |               |             |      |               |  |
| Analyses                 |  | Cert          | RL   | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD |               |  |
| Fluoride                 |  |               | 0.10 |            | 2.11   | 2.000 | 0           | 105.6         | 2.080       | 1.57 | 09/13/2021    |  |

### SW-846 9251 (DISSOLVED)

| Batch R298905           |      | SampType: MS |      | Units mg/L |       |             |      |           |            |               |  |
|-------------------------|------|--------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: 21081266-001CMS |      |              |      |            |       |             |      |           |            |               |  |
| Analyses                | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Chloride                |      | 2            | E    | 101        | 40.00 | 64.33       | 91.8 | 85        | 115        | 09/14/2021    |  |

| Batch R298905            |  | SampType: MSD |    | Units mg/L |        |       |             | RPD Limit: 15 |             |      |               |
|--------------------------|--|---------------|----|------------|--------|-------|-------------|---------------|-------------|------|---------------|
| SampID: 21081266-001CMSD |  |               |    |            |        |       |             |               |             |      |               |
| Analyses                 |  | Cert          | RL | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD | Date Analyzed |
| Chloride                 |  |               | 2  | E          | 102    | 40.00 | 64.33       | 93.0          | 101.1       | 0.46 | 09/14/2021    |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081266

Client Project: Hennepin GW Q3 2021

Report Date: 15-Oct-21

### SW-846 9251 (DISSOLVED)

Batch R298905 SampType: MS Units mg/L

SampID: 21081266-012BMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|----------|------|----|------|--------|-------|-------------|-------|-----------|------------|---------------|
| Chloride |      | 2  | E    | 108    | 40.00 | 66.90       | 102.7 | 85        | 115        | 09/14/2021    |

Batch R298905 SampType: MSD Units mg/L

RPD Limit: 15

SampID: 21081266-012BMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC  | RPD Ref Val | %RPD | Date Analyzed |
|----------|------|----|------|--------|-------|-------------|-------|-------------|------|---------------|
| Chloride |      | 2  | E    | 110    | 40.00 | 66.90       | 108.5 | 108.0       | 2.10 | 09/14/2021    |

Batch R299022 SampType: MS Units mg/L

SampID: 21081266-019BMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|----------|------|----|------|--------|-------|-------------|-------|-----------|------------|---------------|
| Chloride |      | 2  | E    | 111    | 40.00 | 70.71       | 101.6 | 85        | 115        | 09/15/2021    |

Batch R299022 SampType: MSD Units mg/L

RPD Limit: 15

SampID: 21081266-019BMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC  | RPD Ref Val | %RPD | Date Analyzed |
|----------|------|----|------|--------|-------|-------------|-------|-------------|------|---------------|
| Chloride |      | 2  | E    | 112    | 40.00 | 70.71       | 104.4 | 111.4       | 0.98 | 09/15/2021    |

Batch R299022 SampType: MS Units mg/L

SampID: 21081266-023BMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|----------|------|----|------|--------|-------|-------------|------|-----------|------------|---------------|
| Chloride |      | 5  |      | 193    | 100.0 | 98.87       | 94.3 | 85        | 115        | 09/16/2021    |

Batch R299022 SampType: MSD Units mg/L

RPD Limit: 15

SampID: 21081266-023BMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|----------|------|----|------|--------|-------|-------------|------|-------------|------|---------------|
| Chloride |      | 5  |      | 192    | 100.0 | 98.87       | 93.2 | 193.2       | 0.59 | 09/16/2021    |

### SW-846 9251 (TOTAL)

Batch R298905 SampType: MBLK Units mg/L

SampID: ICB/MBLK

| Analyses | Cert | RL | Qual | Result | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|----------|------|----|------|--------|--------|-------------|------|-----------|------------|---------------|
| Chloride |      | 1  |      | < 1    | 0.5000 | 0           | 0    | -100      | 100        | 09/13/2021    |
| Chloride |      | 1  |      | < 1    | 0.5000 | 0           | 0    | -100      | 100        | 09/13/2021    |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy  
Client Project: Hennepin GW Q3 2021

Work Order: 21081266  
Report Date: 15-Oct-21

### SW-846 9251 (TOTAL)

| Batch R298905   |      | SampType: LCS |      | Units mg/L |       |             |       |           |            |               |
|-----------------|------|---------------|------|------------|-------|-------------|-------|-----------|------------|---------------|
| SampID: ICV/LCS |      |               |      |            |       |             |       |           |            |               |
| Analyses        | Cert | RL            | Qual | Result     | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
| Chloride        |      | 1             |      | 21         | 20.00 | 0           | 104.6 | 90        | 110        | 09/13/2021    |
| Chloride        |      | 1             |      | 21         | 20.00 | 0           | 102.9 | 90        | 110        | 09/13/2021    |

| Batch R299022    |      | SampType: MBLK |      | Units mg/L |        |             |      |           |            |            |               |
|------------------|------|----------------|------|------------|--------|-------------|------|-----------|------------|------------|---------------|
| SampID: ICB/MBLK |      |                |      |            |        |             |      |           |            |            | Date Analyzed |
| Analyses         | Cert | RL             | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit |            |               |
| Chloride         |      | 1              |      | < 1        | 0.5000 | 0           | 0    | -100      | 100        | 09/15/2021 |               |

| Batch R299022   |      | SampType: LCS |      | Units mg/L |       |             |      |           |            |            |               |
|-----------------|------|---------------|------|------------|-------|-------------|------|-----------|------------|------------|---------------|
| SampID: ICV/LCS |      |               |      |            |       |             |      |           |            |            | Date Analyzed |
| Analyses        | Cert | RL            | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit |            |               |
| Chloride        |      | 1             |      | 20         | 20.00 | 0           | 98.6 | 90        | 110        | 09/15/2021 |               |

| Batch R299022           |      | SampType: MS |      | Units mg/L |       |             |      |           |            |               |  |
|-------------------------|------|--------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: 21081266-002AMS |      |              |      |            |       |             |      |           |            |               |  |
| Analyses                | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Chloride                |      | 5            |      | 167        | 100.0 | 78.08       | 88.5 | 85        | 115        | 09/16/2021    |  |

| Batch R299022            |  | SampType: MSD |    | Units mg/L |        |       |             | RPD Limit: 15 |             |      |               |
|--------------------------|--|---------------|----|------------|--------|-------|-------------|---------------|-------------|------|---------------|
| SampID: 21081266-002AMSD |  |               |    |            |        |       |             |               |             |      |               |
| Analyses                 |  | Cert          | RL | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD | Date Analyzed |
| Chloride                 |  |               | 5  |            | 165    | 100.0 | 78.08       | 87.0          | 166.6       | 0.92 | 09/16/2021    |

| Batch R299022           |      | SampType: MS |      | Units mg/L |       |             |      |           |            |               |  |
|-------------------------|------|--------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: 21081266-037AMS |      |              |      |            |       |             |      |           |            |               |  |
| Analyses                | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Chloride                |      | 5            |      | 161        | 100.0 | 75.03       | 86.4 | 85        | 115        | 09/16/2021    |  |

| Batch R299022            |  | SampType: MSD |    | Units mg/L |        |       |             |      | RPD Limit: 15 |      |               |
|--------------------------|--|---------------|----|------------|--------|-------|-------------|------|---------------|------|---------------|
| SampID: 21081266-037AMSD |  |               |    |            |        |       |             |      |               |      |               |
| Analyses                 |  | Cert          | RL | Qual       | Result | Spike | SPK Ref Val | %REC | RPD Ref Val   | %RPD | Date Analyzed |
| Chloride                 |  |               | 5  |            | 166    | 100.0 | 75.03       | 90.6 | 161.5         | 2.54 | 09/16/2021    |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081266

Client Project: Hennepin GW Q3 2021

Report Date: 15-Oct-21

### SW-846 9251 (TOTAL)

Batch R299090 SampType: MBLK Units mg/L

SampID: ICB/MBLK

| Analyses | Cert | RL | Qual | Result | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|----------|------|----|------|--------|--------|-------------|------|-----------|------------|---------------|
| Chloride |      | 1  |      | < 1    | 0.5000 | 0           | 0    | -100      | 100        | 09/16/2021    |

Batch R299090 SampType: LCS Units mg/L

SampID: ICB/LCS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|----------|------|----|------|--------|-------|-------------|-------|-----------|------------|---------------|
| Chloride |      | 1  |      | 20     | 20.00 | 0           | 100.4 | 90        | 110        | 09/16/2021    |

Batch R299090 SampType: MS Units mg/L

SampID: 21081266-004AMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|----------|------|----|------|--------|-------|-------------|------|-----------|------------|---------------|
| Chloride |      | 5  |      | 172    | 100.0 | 84.89       | 87.2 | 85        | 115        | 09/16/2021    |

Batch R299090 SampType: MSD Units mg/L

RPD Limit: 15

SampID: 21081266-004AMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|----------|------|----|------|--------|-------|-------------|------|-------------|------|---------------|
| Chloride |      | 5  | S    | 170    | 100.0 | 84.89       | 84.9 | 172.1       | 1.32 | 09/16/2021    |

Batch R299278 SampType: MBLK Units mg/L

SampID: ICB/MBLK

| Analyses | Cert | RL | Qual | Result | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|----------|------|----|------|--------|--------|-------------|------|-----------|------------|---------------|
| Chloride |      | 1  |      | < 1    | 0.5000 | 0           | 0    | -100      | 100        | 09/20/2021    |

Batch R299278 SampType: LCS Units mg/L

SampID: ICB/LCS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|----------|------|----|------|--------|-------|-------------|------|-----------|------------|---------------|
| Chloride |      | 1  |      | 20     | 20.00 | 0           | 99.8 | 90        | 110        | 09/20/2021    |

### SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 181824 SampType: MBLK Units mg/L

SampID: MBLK-181824

| Analyses  | Cert | RL     | Qual | Result   | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|-----------|------|--------|------|----------|--------|-------------|------|-----------|------------|---------------|
| Calcium   |      | 0.100  |      | < 0.100  | 0.0350 | 0           | 0    | -100      | 100        | 09/15/2021    |
| Magnesium |      | 0.0500 |      | < 0.0500 | 0.0055 | 0           | 0    | -100      | 100        | 09/15/2021    |

**Client:** Vistra Energy  
**Client Project:** Hennepin GW Q3 2021

**Work Order:** 21081266  
**Report Date:** 15-Oct-21

### SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

| Batch 181824       |      | SampType: LCS |      | Units mg/L |       |             |      |           |            |               |
|--------------------|------|---------------|------|------------|-------|-------------|------|-----------|------------|---------------|
| SampID: LCS-181824 |      |               |      |            |       |             |      |           |            |               |
| Analyses           | Cert | RL            | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
| Calcium            |      | 0.100         |      | 2.39       | 2.500 | 0           | 95.4 | 85        | 115        | 09/15/2021    |
| Magnesium          |      | 0.0500        |      | 2.48       | 2.500 | 0           | 99.4 | 85        | 115        | 09/15/2021    |

| Batch 181824            |      | SampType: MS |      | Units mg/L |       |             |      |           |            |  | Date Analyzed |  |
|-------------------------|------|--------------|------|------------|-------|-------------|------|-----------|------------|--|---------------|--|
| SampID: 21081266-043EMS |      |              |      |            |       |             |      |           |            |  |               |  |
| Analyses                | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit |  |               |  |
| Calcium                 |      | 0.100        |      | 2.41       | 2.500 | 0           | 96.5 | 75        | 125        |  |               |  |
| Magnesium               |      | 0.0500       |      | 2.49       | 2.500 | 0           | 99.5 | 75        | 125        |  |               |  |

| Batch 181824             |      | SampType: MSD |      | Units mg/L |       |             |      |             | RPD Limit: 20 |               |  |
|--------------------------|------|---------------|------|------------|-------|-------------|------|-------------|---------------|---------------|--|
| SampID: 21081266-043EMSD |      |               |      |            |       |             |      |             |               |               |  |
| Analyses                 | Cert | RL            | Qual | Result     | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD          | Date Analyzed |  |
| Calcium                  |      | 0.100         |      | 2.39       | 2.500 | 0           | 95.7 | 2.412       | 0.83          | 09/15/2021    |  |
| Magnesium                |      | 0.0500        |      | 2.48       | 2.500 | 0           | 99.4 | 2.488       | 0.16          | 09/15/2021    |  |

### SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

| Batch 181934        |      | SampType: MBLK |      | Units mg/L |        |             |      |           |            |  | Date Analyzed |
|---------------------|------|----------------|------|------------|--------|-------------|------|-----------|------------|--|---------------|
| SampID: MBLK-181934 |      |                |      |            |        |             |      |           |            |  |               |
| Analyses            | Cert | RL             | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit |  |               |
| Calcium             |      | 0.100          |      | < 0.100    | 0.0350 | 0           | 0    | -100      | 100        |  |               |
| Magnesium           |      | 0.0500         |      | < 0.0500   | 0.0055 | 0           | 0    | -100      | 100        |  |               |
| Potassium           |      | 0.100          |      | < 0.100    | 0.0400 | 0           | 0    | -100      | 100        |  |               |
| Sodium              |      | 0.0500         |      | < 0.0500   | 0.0180 | 0           | 0    | -100      | 100        |  |               |

| Batch 181934       |      | SampType: LCS |      | Units mg/L |       |             |       |           |            |            |               |
|--------------------|------|---------------|------|------------|-------|-------------|-------|-----------|------------|------------|---------------|
| SampID: LCS-181934 |      |               |      |            |       |             |       |           |            |            | Date Analyzed |
| Analyses           | Cert | RL            | Qual | Result     | Spike | SPK Ref Val | %REC  | Low Limit | High Limit |            |               |
| Calcium            |      | 0.100         |      | 2.32       | 2.500 | 0           | 92.8  | 85        | 115        | 09/17/2021 |               |
| Magnesium          |      | 0.0500        |      | 2.68       | 2.500 | 0           | 107.3 | 85        | 115        | 09/17/2021 |               |
| Potassium          |      | 0.100         |      | 2.76       | 2.500 | 0           | 110.6 | 85        | 115        | 09/20/2021 |               |
| Sodium             |      | 0.0500        |      | 2.34       | 2.500 | 0           | 93.6  | 85        | 115        | 09/17/2021 |               |





## Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081266

Client Project: Hennepin GW Q3 2021

Report Date: 15-Oct-21

### SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 181934 SampType: MS Units mg/L

SampleID: 21081266-009DMS

| Analyses  | Cert | RL     | Qual | Result | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|-----------|------|--------|------|--------|-------|-------------|-------|-----------|------------|---------------|
| Calcium   |      | 0.100  | S    | 197    | 2.500 | 190.8       | 240.4 | 75        | 125        | 09/17/2021    |
| Magnesium |      | 0.0500 | S    | 58.8   | 2.500 | 54.81       | 158.6 | 75        | 125        | 09/17/2021    |
| Potassium |      | 0.100  |      | 5.84   | 2.500 | 3.038       | 112.3 | 75        | 125        | 09/20/2021    |
| Sodium    |      | 0.0500 | S    | 88.3   | 2.500 | 84.38       | 158.4 | 75        | 125        | 09/17/2021    |

Batch 181934 SampType: MSD Units mg/L

RPD Limit: 20

SampleID: 21081266-009DMSD

| Analyses  | Cert | RL     | Qual | Result | Spike | SPK Ref Val | %REC  | RPD Ref Val | %RPD | Date Analyzed |
|-----------|------|--------|------|--------|-------|-------------|-------|-------------|------|---------------|
| Calcium   |      | 0.100  | S    | 191    | 2.500 | 190.8       | 21.2  | 196.9       | 2.82 | 09/17/2021    |
| Magnesium |      | 0.0500 |      | 57.2   | 2.500 | 54.81       | 94.0  | 58.78       | 2.79 | 09/17/2021    |
| Potassium |      | 0.100  |      | 5.85   | 2.500 | 3.038       | 112.4 | 5.845       | 0.04 | 09/20/2021    |
| Sodium    |      | 0.0500 | S    | 85.8   | 2.500 | 84.38       | 58.8  | 88.34       | 2.86 | 09/17/2021    |

Batch 181934 SampType: MS Units mg/L

SampleID: 21081266-012CMS

| Analyses  | Cert | RL     | Qual | Result | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|-----------|------|--------|------|--------|-------|-------------|-------|-----------|------------|---------------|
| Calcium   |      | 0.100  | S    | 85.1   | 2.500 | 85.87       | -31.2 | 75        | 125        | 09/17/2021    |
| Magnesium |      | 0.0500 | S    | 34.8   | 2.500 | 33.48       | 52.7  | 75        | 125        | 09/17/2021    |
| Potassium |      | 0.100  |      | 6.81   | 2.500 | 4.415       | 95.7  | 75        | 125        | 09/20/2021    |
| Sodium    |      | 0.0500 | S    | 43.5   | 2.500 | 42.51       | 38.8  | 75        | 125        | 09/17/2021    |

Batch 181934 SampType: MSD Units mg/L

RPD Limit: 20

SampleID: 21081266-012CMSD

| Analyses  | Cert | RL     | Qual | Result | Spike | SPK Ref Val | %REC   | RPD Ref Val | %RPD | Date Analyzed |
|-----------|------|--------|------|--------|-------|-------------|--------|-------------|------|---------------|
| Calcium   |      | 0.100  | S    | 82.2   | 2.500 | 85.87       | -146.0 | 85.09       | 3.43 | 09/17/2021    |
| Magnesium |      | 0.0500 | S    | 33.6   | 2.500 | 33.48       | 6.0    | 34.80       | 3.41 | 09/17/2021    |
| Potassium |      | 0.100  |      | 6.82   | 2.500 | 4.415       | 96.2   | 6.806       | 0.20 | 09/20/2021    |
| Sodium    |      | 0.0500 | S    | 43.0   | 2.500 | 42.51       | 20.0   | 43.48       | 1.09 | 09/17/2021    |

Batch 181936 SampType: MBLK Units mg/L

SampleID: MBLK-181936

| Analyses  | Cert | RL     | Qual | Result   | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|-----------|------|--------|------|----------|--------|-------------|------|-----------|------------|---------------|
| Calcium   |      | 0.100  |      | < 0.100  | 0.0350 | 0           | 0    | -100      | 100        | 09/17/2021    |
| Magnesium |      | 0.0500 |      | < 0.0500 | 0.0055 | 0           | 0    | -100      | 100        | 09/17/2021    |
| Potassium |      | 0.100  |      | < 0.100  | 0.0400 | 0           | 0    | -100      | 100        | 09/17/2021    |
| Sodium    |      | 0.0500 |      | < 0.0500 | 0.0180 | 0           | 0    | -100      | 100        | 09/17/2021    |

**Client:** Vistra Energy

**Work Order:** 21081266

**Client Project:** Hennepin GW Q3 2021

**Report Date:** 15-Oct-21

**SW-846 3005A, 6010B, METALS BY ICP (TOTAL)**
**Batch** 181936    **SampType:** LCS    Units mg/L

SampID: LCS-181936

| Analyses  | Cert | RL     | Qual | Result      | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|-----------|------|--------|------|-------------|-------|-------------|-------|-----------|------------|---------------|
| Calcium   |      | 0.100  |      | <b>2.62</b> | 2.500 | 0           | 104.7 | 85        | 115        | 09/17/2021    |
| Magnesium |      | 0.0500 |      | <b>2.69</b> | 2.500 | 0           | 107.5 | 85        | 115        | 09/17/2021    |
| Potassium |      | 0.100  |      | <b>2.53</b> | 2.500 | 0           | 101.3 | 85        | 115        | 09/17/2021    |
| Sodium    |      | 0.0500 |      | <b>2.42</b> | 2.500 | 0           | 96.6  | 85        | 115        | 09/17/2021    |

**Batch** 181936    **SampType:** MS    Units mg/L

SampID: 21081266-041CMS

| Analyses  | Cert | RL     | Qual | Result      | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|-----------|------|--------|------|-------------|-------|-------------|-------|-----------|------------|---------------|
| Calcium   |      | 0.100  | S    | <b>117</b>  | 2.500 | 118.6       | -64.0 | 75        | 125        | 09/17/2021    |
| Magnesium |      | 0.0500 | S    | <b>34.9</b> | 2.500 | 33.45       | 56.8  | 75        | 125        | 09/17/2021    |
| Potassium |      | 0.100  | E    | <b>11.8</b> | 2.500 | 9.691       | 84.4  | 75        | 125        | 09/17/2021    |
| Sodium    |      | 0.0500 | S    | <b>59.1</b> | 2.500 | 58.64       | 18.0  | 75        | 125        | 09/17/2021    |

**Batch** 181936    **SampType:** MSD    Units mg/L

RPD Limit: 20

SampID: 21081266-041CMSD

| Analyses  | Cert | RL     | Qual | Result      | Spike | SPK Ref Val | %REC  | RPD Ref Val | %RPD | Date Analyzed |
|-----------|------|--------|------|-------------|-------|-------------|-------|-------------|------|---------------|
| Calcium   |      | 0.100  |      | <b>121</b>  | 2.500 | 118.6       | 104.0 | 117.0       | 3.53 | 09/17/2021    |
| Magnesium |      | 0.0500 |      | <b>36.1</b> | 2.500 | 33.45       | 105.2 | 34.87       | 3.41 | 09/17/2021    |
| Potassium |      | 0.100  | E    | <b>12.3</b> | 2.500 | 9.691       | 103.2 | 11.80       | 3.91 | 09/17/2021    |
| Sodium    |      | 0.0500 |      | <b>61.3</b> | 2.500 | 58.64       | 107.2 | 59.09       | 3.70 | 09/17/2021    |

**Batch** 181946    **SampType:** MBLK    Units mg/L

SampID: MBLK-181946

| Analyses   | Cert | RL     | Qual | Result             | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|------------|------|--------|------|--------------------|--------|-------------|------|-----------|------------|---------------|
| Calcium    |      | 0.100  |      | <b>&lt; 0.100</b>  | 0.0350 | 0           | 0    | -100      | 100        | 09/20/2021    |
| Magnesium  |      | 0.0500 |      | <b>&lt; 0.0500</b> | 0.0055 | 0           | 0    | -100      | 100        | 09/20/2021    |
| Molybdenum |      | 0.0100 |      | <b>&lt; 0.0100</b> | 0.0037 | 0           | 0    | -100      | 100        | 09/20/2021    |
| Potassium  |      | 0.100  |      | <b>&lt; 0.100</b>  | 0.0400 | 0           | 0    | -100      | 100        | 09/20/2021    |
| Selenium   |      | 0.0400 |      | <b>&lt; 0.0400</b> | 0.0170 | 0           | 0    | -100      | 100        | 09/20/2021    |
| Sodium     |      | 0.0500 |      | <b>&lt; 0.0500</b> | 0.0180 | 0           | 0    | -100      | 100        | 09/20/2021    |
| Thallium   |      | 0.0500 |      | <b>&lt; 0.0500</b> | 0.0111 | 0           | 0    | -100      | 100        | 09/20/2021    |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081266

Client Project: Hennepin GW Q3 2021

Report Date: 15-Oct-21

### SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 181946 SampType: LCS Units mg/L

SampleID: LCS-181946

| Analyses   | Cert | RL     | Qual | Result | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|------------|------|--------|------|--------|--------|-------------|-------|-----------|------------|---------------|
| Calcium    |      | 0.100  |      | 2.66   | 2.500  | 0           | 106.2 | 85        | 115        | 09/20/2021    |
| Magnesium  |      | 0.0500 |      | 2.77   | 2.500  | 0           | 110.9 | 85        | 115        | 09/20/2021    |
| Molybdenum |      | 0.0100 |      | 0.518  | 0.5000 | 0           | 103.7 | 85        | 115        | 09/20/2021    |
| Potassium  |      | 0.100  |      | 2.58   | 2.500  | 0           | 103.2 | 85        | 115        | 09/20/2021    |
| Selenium   |      | 0.0400 |      | 0.533  | 0.5000 | 0           | 106.6 | 85        | 115        | 09/20/2021    |
| Sodium     |      | 0.0500 |      | 2.49   | 2.500  | 0           | 99.7  | 85        | 115        | 09/20/2021    |
| Thallium   |      | 0.0500 |      | 0.259  | 0.2500 | 0           | 103.5 | 85        | 115        | 09/20/2021    |

Batch 181946 SampType: MS Units mg/L

SampleID: 21081266-005CMS

| Analyses  | Cert | RL     | Qual | Result | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|-----------|------|--------|------|--------|-------|-------------|-------|-----------|------------|---------------|
| Calcium   |      | 0.100  | S    | 93.6   | 2.500 | 89.29       | 173.2 | 75        | 125        | 09/20/2021    |
| Magnesium |      | 0.0500 |      | 35.1   | 2.500 | 32.31       | 112.4 | 75        | 125        | 09/20/2021    |
| Potassium |      | 0.500  |      | 12.5   | 2.500 | 9.945       | 103.4 | 75        | 125        | 09/20/2021    |
| Sodium    |      | 0.0500 | S    | 51.8   | 2.500 | 49.95       | 72.8  | 75        | 125        | 09/20/2021    |

Batch 181946 SampType: MSD Units mg/L

RPD Limit: 20

SampleID: 21081266-005CMSD

| Analyses  | Cert | RL     | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|-----------|------|--------|------|--------|-------|-------------|------|-------------|------|---------------|
| Calcium   |      | 0.100  | S    | 90.6   | 2.500 | 89.29       | 50.8 | 93.62       | 3.32 | 09/20/2021    |
| Magnesium |      | 0.0500 | S    | 34.0   | 2.500 | 32.31       | 68.4 | 35.12       | 3.18 | 09/20/2021    |
| Potassium |      | 0.500  |      | 12.1   | 2.500 | 9.945       | 86.8 | 12.53       | 3.37 | 09/20/2021    |
| Sodium    |      | 0.0500 | S    | 49.9   | 2.500 | 49.95       | -2.0 | 51.77       | 3.68 | 09/20/2021    |



## Quality Control Results

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Client: Vistra Energy

Work Order: 21081266

Client Project: Hennepin GW Q3 2021

Report Date: 15-Oct-21

### SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

| Batch 181825        |      | SampType: MBLK |      | Units mg/L |        |             |      |           |            |            | Date Analyzed |  |
|---------------------|------|----------------|------|------------|--------|-------------|------|-----------|------------|------------|---------------|--|
| SampID: MBLK-181825 |      |                |      |            |        |             |      |           |            |            |               |  |
| Analyses            | Cert | RL             | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit |            |               |  |
| Aluminum            |      | 0.0250         |      | < 0.0250   | 0.0125 | 0           | 0    | -100      | 100        | 09/15/2021 |               |  |
| Antimony            |      | 0.0010         |      | < 0.0010   | 0.0004 | 0           | 0    | -100      | 100        | 09/15/2021 |               |  |
| Arsenic             |      | 0.0010         |      | < 0.0010   | 0.0004 | 0           | 0    | -100      | 100        | 09/15/2021 |               |  |
| Barium              |      | 0.0010         |      | < 0.0010   | 0.0007 | 0           | 0    | -100      | 100        | 09/15/2021 |               |  |
| Beryllium           |      | 0.0010         |      | < 0.0010   | 0.0002 | 0           | 0    | -100      | 100        | 09/17/2021 |               |  |
| Boron               |      | 0.0250         |      | < 0.0250   | 0.0093 | 0           | 0    | -100      | 100        | 09/21/2021 |               |  |
| Cadmium             |      | 0.0010         |      | < 0.0010   | 0.0001 | 0           | 0    | -100      | 100        | 09/15/2021 |               |  |
| Chromium            |      | 0.0150         |      | < 0.0150   | 0.0007 | 0           | 0    | -100      | 100        | 09/15/2021 |               |  |
| Cobalt              |      | 0.0010         |      | < 0.0010   | 0.0001 | 0           | 0    | -100      | 100        | 09/15/2021 |               |  |
| Copper              |      | 0.0010         |      | < 0.0010   | 0.0003 | 0           | 0    | -100      | 100        | 09/15/2021 |               |  |
| Iron                |      | 0.0250         |      | < 0.0250   | 0.0115 | 0           | 0    | -100      | 100        | 09/15/2021 |               |  |
| Lead                |      | 0.0010         |      | < 0.0010   | 0.0006 | 0           | 0    | -100      | 100        | 09/15/2021 |               |  |
| Manganese           |      | 0.0020         |      | < 0.0020   | 0.0008 | 0           | 0    | -100      | 100        | 09/15/2021 |               |  |
| Molybdenum          |      | 0.0015         |      | < 0.0015   | 0.0006 | 0           | 0    | -100      | 100        | 09/15/2021 |               |  |
| Nickel              |      | 0.0010         |      | < 0.0010   | 0.0004 | 0           | 0    | -100      | 100        | 09/15/2021 |               |  |
| Selenium            |      | 0.0010         |      | < 0.0010   | 0.0006 | 0           | 0    | -100      | 100        | 09/17/2021 |               |  |
| Silver              |      | 0.0010         |      | < 0.0010   | 0.0001 | 0           | 0    | -100      | 100        | 09/15/2021 |               |  |
| Thallium            |      | 0.0020         |      | < 0.0020   | 0.0010 | 0           | 0    | -100      | 100        | 09/15/2021 |               |  |
| Vanadium            |      | 0.0050         |      | < 0.0050   | 0.0028 | 0           | 0    | -100      | 100        | 09/15/2021 |               |  |
| Zinc                |      | 0.0150         |      | < 0.0150   | 0.0059 | 0           | 0    | -100      | 100        | 09/15/2021 |               |  |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081266

Client Project: Hennepin GW Q3 2021

Report Date: 15-Oct-21

### SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

| Batch 181825       |      | SampType: LCS |      | Units mg/L |        |             |       |           |            |               |
|--------------------|------|---------------|------|------------|--------|-------------|-------|-----------|------------|---------------|
| SampID: LCS-181825 |      |               |      |            |        |             |       |           |            |               |
| Analyses           | Cert | RL            | Qual | Result     | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
| Aluminum           |      | 0.0250        |      | 1.89       | 2.000  | 0           | 94.7  | 85        | 115        | 09/15/2021    |
| Antimony           |      | 0.0010        |      | 0.457      | 0.5000 | 0           | 91.5  | 85        | 115        | 09/15/2021    |
| Arsenic            |      | 0.0010        |      | 0.481      | 0.5000 | 0           | 96.3  | 85        | 115        | 09/15/2021    |
| Barium             |      | 0.0010        |      | 2.15       | 2.000  | 0           | 107.5 | 85        | 115        | 09/15/2021    |
| Beryllium          |      | 0.0010        |      | 0.0446     | 0.0500 | 0           | 89.3  | 85        | 115        | 09/17/2021    |
| Boron              |      | 0.0250        |      | 0.457      | 0.5000 | 0           | 91.5  | 85        | 115        | 09/21/2021    |
| Cadmium            |      | 0.0010        |      | 0.0434     | 0.0500 | 0           | 86.8  | 85        | 115        | 09/15/2021    |
| Chromium           |      | 0.0150        |      | 0.173      | 0.2000 | 0           | 86.5  | 85        | 115        | 09/15/2021    |
| Cobalt             |      | 0.0010        |      | 0.432      | 0.5000 | 0           | 86.4  | 85        | 115        | 09/15/2021    |
| Copper             |      | 0.0010        |      | 0.218      | 0.2500 | 0           | 87.0  | 85        | 115        | 09/15/2021    |
| Iron               |      | 0.0250        |      | 1.71       | 2.000  | 0           | 85.3  | 85        | 115        | 09/15/2021    |
| Lead               |      | 0.0010        |      | 0.469      | 0.5000 | 0           | 93.9  | 85        | 115        | 09/15/2021    |
| Manganese          |      | 0.0020        |      | 0.475      | 0.5000 | 0           | 95.1  | 85        | 115        | 09/15/2021    |
| Molybdenum         |      | 0.0015        |      | 0.453      | 0.5000 | 0           | 90.6  | 85        | 115        | 09/16/2021    |
| Nickel             |      | 0.0010        |      | 0.462      | 0.5000 | 0           | 92.4  | 85        | 115        | 09/16/2021    |
| Selenium           |      | 0.0010        |      | 0.479      | 0.5000 | 0           | 95.7  | 85        | 115        | 09/17/2021    |
| Silver             |      | 0.0010        |      | 0.0433     | 0.0500 | 0           | 86.6  | 85        | 115        | 09/15/2021    |
| Thallium           |      | 0.0020        |      | 0.228      | 0.2500 | 0           | 91.2  | 85        | 115        | 09/15/2021    |
| Vanadium           |      | 0.0050        |      | 0.453      | 0.5000 | 0           | 90.5  | 85        | 115        | 09/15/2021    |
| Zinc               |      | 0.0150        |      | 0.434      | 0.5000 | 0           | 86.8  | 85        | 115        | 09/15/2021    |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081266

Client Project: Hennepin GW Q3 2021

Report Date: 15-Oct-21

### SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 181825 SampType: MS

Units mg/L

SampleID: 21081266-043EMS

| Analyses   | Cert | RL     | Qual | Result | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|------------|------|--------|------|--------|--------|-------------|-------|-----------|------------|---------------|
| Aluminum   |      | 0.0250 |      | 1.79   | 2.000  | 0           | 89.6  | 75        | 125        | 09/15/2021    |
| Antimony   |      | 0.0010 |      | 0.447  | 0.5000 | 0           | 89.3  | 75        | 125        | 09/15/2021    |
| Arsenic    |      | 0.0010 |      | 0.466  | 0.5000 | 0           | 93.3  | 75        | 125        | 09/15/2021    |
| Barium     |      | 0.0010 |      | 2.08   | 2.000  | 0           | 104.2 | 75        | 125        | 09/15/2021    |
| Beryllium  |      | 0.0010 |      | 0.0416 | 0.0500 | 0           | 83.1  | 75        | 125        | 09/21/2021    |
| Boron      |      | 0.0250 |      | 0.447  | 0.5000 | 0           | 89.3  | 75        | 125        | 09/21/2021    |
| Cadmium    |      | 0.0010 |      | 0.0416 | 0.0500 | 0           | 83.1  | 75        | 125        | 09/15/2021    |
| Chromium   |      | 0.0015 |      | 0.167  | 0.2000 | 0           | 83.4  | 75        | 125        | 09/15/2021    |
| Cobalt     |      | 0.0010 |      | 0.413  | 0.5000 | 0           | 82.7  | 75        | 125        | 09/15/2021    |
| Copper     |      | 0.0010 |      | 0.233  | 0.2500 | 0.001857    | 92.6  | 75        | 125        | 09/21/2021    |
| Iron       |      | 0.0250 |      | 1.63   | 2.000  | 0           | 81.3  | 75        | 125        | 09/15/2021    |
| Lead       |      | 0.0010 |      | 0.473  | 0.5000 | 0           | 94.7  | 75        | 125        | 09/15/2021    |
| Manganese  |      | 0.0020 |      | 0.461  | 0.5000 | 0           | 92.1  | 75        | 125        | 09/15/2021    |
| Molybdenum |      | 0.0015 |      | 0.446  | 0.5000 | 0           | 89.2  | 75        | 125        | 09/21/2021    |
| Nickel     |      | 0.0010 |      | 0.472  | 0.5000 | 0           | 94.4  | 75        | 125        | 09/16/2021    |
| Selenium   |      | 0.0010 |      | 0.476  | 0.5000 | 0           | 95.1  | 75        | 125        | 09/17/2021    |
| Silver     |      | 0.0010 |      | 0.0406 | 0.0500 | 0           | 81.2  | 75        | 125        | 09/15/2021    |
| Thallium   |      | 0.0020 |      | 0.224  | 0.2500 | 0           | 89.8  | 75        | 125        | 09/15/2021    |
| Vanadium   |      | 0.0050 |      | 0.438  | 0.5000 | 0           | 87.6  | 75        | 125        | 09/15/2021    |
| Zinc       |      | 0.0150 |      | 0.423  | 0.5000 | 0           | 84.5  | 75        | 125        | 09/15/2021    |





## Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081266

Client Project: Hennepin GW Q3 2021

Report Date: 15-Oct-21

### SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

| Batch 181825               |      | SampType: MSD |      | Units mg/L |        |             |       | RPD Limit: 20 |      |               |
|----------------------------|------|---------------|------|------------|--------|-------------|-------|---------------|------|---------------|
| SampleID: 21081266-043EMSD |      |               |      |            |        |             |       |               |      |               |
| Analyses                   | Cert | RL            | Qual | Result     | Spike  | SPK Ref Val | %REC  | RPD Ref Val   | %RPD | Date Analyzed |
| Aluminum                   |      | 0.0250        |      | 1.75       | 2.000  | 0           | 87.3  | 1.793         | 2.65 | 09/15/2021    |
| Antimony                   |      | 0.0010        |      | 0.462      | 0.5000 | 0           | 92.3  | 0.4467        | 3.30 | 09/15/2021    |
| Arsenic                    |      | 0.0010        |      | 0.471      | 0.5000 | 0           | 94.2  | 0.4663        | 1.06 | 09/15/2021    |
| Barium                     |      | 0.0010        |      | 2.11       | 2.000  | 0           | 105.5 | 2.084         | 1.24 | 09/15/2021    |
| Beryllium                  |      | 0.0010        |      | 0.0419     | 0.0500 | 0           | 83.7  | 0.04157       | 0.68 | 09/21/2021    |
| Boron                      |      | 0.0250        |      | 0.434      | 0.5000 | 0           | 86.8  | 0.4467        | 2.90 | 09/21/2021    |
| Cadmium                    |      | 0.0010        |      | 0.0424     | 0.0500 | 0           | 84.7  | 0.04156       | 1.90 | 09/15/2021    |
| Chromium                   |      | 0.0015        |      | 0.164      | 0.2000 | 0           | 82.2  | 0.1668        | 1.50 | 09/15/2021    |
| Cobalt                     |      | 0.0010        |      | 0.417      | 0.5000 | 0           | 83.4  | 0.4135        | 0.80 | 09/15/2021    |
| Copper                     |      | 0.0010        |      | 0.233      | 0.2500 | 0.001857    | 92.3  | 0.2333        | 0.27 | 09/21/2021    |
| Iron                       |      | 0.0250        |      | 1.67       | 2.000  | 0           | 83.5  | 1.626         | 2.75 | 09/15/2021    |
| Lead                       |      | 0.0010        |      | 0.470      | 0.5000 | 0           | 93.9  | 0.4733        | 0.80 | 09/15/2021    |
| Manganese                  |      | 0.0020        |      | 0.458      | 0.5000 | 0           | 91.6  | 0.4606        | 0.59 | 09/15/2021    |
| Molybdenum                 |      | 0.0015        |      | 0.440      | 0.5000 | 0           | 88.0  | 0.4462        | 1.39 | 09/21/2021    |
| Nickel                     |      | 0.0010        |      | 0.476      | 0.5000 | 0           | 95.2  | 0.4720        | 0.88 | 09/16/2021    |
| Selenium                   |      | 0.0010        |      | 0.477      | 0.5000 | 0           | 95.3  | 0.4756        | 0.20 | 09/17/2021    |
| Silver                     |      | 0.0010        |      | 0.0417     | 0.0500 | 0           | 83.4  | 0.04060       | 2.69 | 09/15/2021    |
| Thallium                   |      | 0.0020        |      | 0.229      | 0.2500 | 0           | 91.5  | 0.2244        | 1.96 | 09/15/2021    |
| Vanadium                   |      | 0.0050        |      | 0.437      | 0.5000 | 0           | 87.4  | 0.4382        | 0.25 | 09/15/2021    |
| Zinc                       |      | 0.0150        |      | 0.425      | 0.5000 | 0           | 85.0  | 0.4226        | 0.59 | 09/15/2021    |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081266

Client Project: Hennepin GW Q3 2021

Report Date: 15-Oct-21

### SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 181873 SampType: MBLK Units mg/L

SampID: MBLK-181873

| Analyses  | Cert | RL     | Qual | Result   | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|-----------|------|--------|------|----------|--------|-------------|------|-----------|------------|---------------|
| Antimony  |      | 0.0010 |      | < 0.0010 | 0.0004 | 0           | 0    | -100      | 100        | 09/21/2021    |
| Arsenic   |      | 0.0010 |      | < 0.0010 | 0.0004 | 0           | 0    | -100      | 100        | 09/18/2021    |
| Barium    |      | 0.0010 |      | < 0.0010 | 0.0007 | 0           | 0    | -100      | 100        | 09/18/2021    |
| Beryllium |      | 0.0010 |      | < 0.0010 | 0.0002 | 0           | 0    | -100      | 100        | 09/18/2021    |
| Boron     |      | 0.0250 |      | < 0.0250 | 0.0150 | 0           | 0    | -100      | 100        | 09/21/2021    |
| Cadmium   |      | 0.0010 |      | < 0.0010 | 0.0001 | 0           | 0    | -100      | 100        | 09/18/2021    |
| Chromium  |      | 0.0015 |      | < 0.0015 | 0.0007 | 0           | 0    | -100      | 100        | 09/18/2021    |
| Cobalt    |      | 0.0010 |      | < 0.0010 | 0.0001 | 0           | 0    | -100      | 100        | 09/18/2021    |
| Copper    |      | 0.0010 |      | < 0.0010 | 0.0003 | 0           | 0    | -100      | 100        | 09/18/2021    |
| Iron      |      | 0.0250 |      | < 0.0250 | 0.0115 | 0           | 0    | -100      | 100        | 09/18/2021    |
| Lead      |      | 0.0010 |      | < 0.0010 | 0.0006 | 0           | 0    | -100      | 100        | 09/18/2021    |
| Manganese |      | 0.0020 |      | < 0.0020 | 0.0008 | 0           | 0    | -100      | 100        | 09/18/2021    |
| Nickel    |      | 0.0010 |      | < 0.0010 | 0.0004 | 0           | 0    | -100      | 100        | 09/18/2021    |
| Selenium  |      | 0.0010 |      | < 0.0010 | 0.0006 | 0           | 0    | -100      | 100        | 09/18/2021    |
| Silver    |      | 0.0010 |      | < 0.0010 | 0.0001 | 0           | 0    | -100      | 100        | 09/18/2021    |
| Thallium  |      | 0.0020 |      | < 0.0020 | 0.0010 | 0           | 0    | -100      | 100        | 09/23/2021    |
| Vanadium  |      | 0.0050 |      | < 0.0050 | 0.0028 | 0           | 0    | -100      | 100        | 09/21/2021    |
| Zinc      |      | 0.0150 |      | < 0.0150 | 0.0059 | 0           | 0    | -100      | 100        | 09/21/2021    |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081266

Client Project: Hennepin GW Q3 2021

Report Date: 15-Oct-21

### SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

| Batch 181873       |      | SampType: LCS |      | Units mg/L |        |             |      |           |            |            |               |
|--------------------|------|---------------|------|------------|--------|-------------|------|-----------|------------|------------|---------------|
| SampID: LCS-181873 |      |               |      |            |        |             |      |           |            |            | Date Analyzed |
| Analyses           | Cert | RL            | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit |            |               |
| Antimony           |      | 0.0010        |      | 0.444      | 0.5000 | 0           | 88.9 | 80        | 120        | 09/21/2021 |               |
| Arsenic            |      | 0.0010        |      | 0.456      | 0.5000 | 0           | 91.1 | 80        | 120        | 09/18/2021 |               |
| Barium             |      | 0.0010        |      | 1.94       | 2.000  | 0           | 97.0 | 80        | 120        | 09/18/2021 |               |
| Beryllium          |      | 0.0010        |      | 0.0406     | 0.0500 | 0           | 81.2 | 80        | 120        | 09/18/2021 |               |
| Boron              |      | 0.0250        |      | 0.461      | 0.5000 | 0           | 92.2 | 80        | 120        | 09/21/2021 |               |
| Cadmium            |      | 0.0010        |      | 0.0422     | 0.0500 | 0           | 84.4 | 80        | 120        | 09/18/2021 |               |
| Chromium           |      | 0.0015        |      | 0.166      | 0.2000 | 0           | 83.1 | 80        | 120        | 09/18/2021 |               |
| Cobalt             |      | 0.0010        |      | 0.417      | 0.5000 | 0           | 83.5 | 80        | 120        | 09/18/2021 |               |
| Copper             |      | 0.0010        |      | 0.216      | 0.2500 | 0           | 86.4 | 80        | 120        | 09/18/2021 |               |
| Iron               |      | 0.0250        |      | 1.62       | 2.000  | 0           | 80.9 | 80        | 120        | 09/18/2021 |               |
| Lead               |      | 0.0010        |      | 0.441      | 0.5000 | 0           | 88.1 | 80        | 120        | 09/18/2021 |               |
| Manganese          |      | 0.0020        |      | 0.447      | 0.5000 | 0           | 89.5 | 80        | 120        | 09/18/2021 |               |
| Nickel             |      | 0.0010        |      | 0.417      | 0.5000 | 0           | 83.4 | 80        | 120        | 09/18/2021 |               |
| Selenium           |      | 0.0010        |      | 0.460      | 0.5000 | 0           | 91.9 | 80        | 120        | 09/18/2021 |               |
| Silver             |      | 0.0010        |      | 0.0470     | 0.0500 | 0           | 94.1 | 80        | 120        | 09/18/2021 |               |
| Thallium           |      | 0.0020        |      | 0.237      | 0.2500 | 0           | 94.8 | 80        | 120        | 09/23/2021 |               |
| Vanadium           |      | 0.0050        |      | 0.449      | 0.5000 | 0           | 89.9 | 80        | 120        | 09/21/2021 |               |
| Zinc               |      | 0.0150        |      | 0.434      | 0.5000 | 0           | 86.7 | 80        | 120        | 09/21/2021 |               |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081266

Client Project: Hennepin GW Q3 2021

Report Date: 15-Oct-21

### SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 181873 SampType: MS

Units mg/L

SampleID: 21081266-015DMS

| Analyses  | Cert | RL     | Qual | Result | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|-----------|------|--------|------|--------|--------|-------------|------|-----------|------------|---------------|
| Antimony  |      | 0.0010 |      | 0.466  | 0.5000 | 0           | 93.2 | 75        | 125        | 09/21/2021    |
| Arsenic   |      | 0.0010 |      | 0.484  | 0.5000 | 0           | 96.8 | 75        | 125        | 09/21/2021    |
| Barium    |      | 0.0010 |      | 2.05   | 2.000  | 0.07375     | 98.9 | 75        | 125        | 09/21/2021    |
| Beryllium |      | 0.0010 |      | 0.0433 | 0.0500 | 0           | 86.6 | 75        | 125        | 09/21/2021    |
| Boron     |      | 0.0250 |      | 0.564  | 0.5000 | 0.1175      | 89.3 | 75        | 125        | 09/21/2021    |
| Cadmium   |      | 0.0010 |      | 0.0442 | 0.0500 | 0           | 88.3 | 75        | 125        | 09/21/2021    |
| Chromium  |      | 0.0015 |      | 0.178  | 0.2000 | 0           | 88.8 | 75        | 125        | 09/21/2021    |
| Cobalt    |      | 0.0010 |      | 0.452  | 0.5000 | 0.0001438   | 90.3 | 75        | 125        | 09/21/2021    |
| Copper    |      | 0.0010 |      | 0.228  | 0.2500 | 0.002347    | 90.2 | 75        | 125        | 09/21/2021    |
| Iron      |      | 0.0250 |      | 1.65   | 2.000  | 0           | 82.4 | 75        | 125        | 09/21/2021    |
| Lead      |      | 0.0010 |      | 0.487  | 0.5000 | 0           | 97.5 | 75        | 125        | 09/21/2021    |
| Manganese |      | 0.0020 |      | 0.464  | 0.5000 | 0           | 92.8 | 75        | 125        | 09/21/2021    |
| Nickel    |      | 0.0010 |      | 0.472  | 0.5000 | 0.001356    | 94.1 | 75        | 125        | 09/23/2021    |
| Selenium  |      | 0.0010 |      | 0.453  | 0.5000 | 0           | 90.5 | 75        | 125        | 09/21/2021    |
| Silver    |      | 0.0010 |      | 0.0402 | 0.0500 | 0           | 80.5 | 75        | 125        | 09/21/2021    |
| Thallium  |      | 0.0020 |      | 0.249  | 0.2500 | 0           | 99.6 | 75        | 125        | 09/23/2021    |
| Zinc      |      | 0.0150 |      | 0.433  | 0.5000 | 0           | 86.7 | 75        | 125        | 09/21/2021    |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081266

Client Project: Hennepin GW Q3 2021

Report Date: 15-Oct-21

### SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

| Batch 181873             |      | SampType: MSD |      | Units mg/L |        |             |      | RPD Limit: 20 |      |               |
|--------------------------|------|---------------|------|------------|--------|-------------|------|---------------|------|---------------|
| SampID: 21081266-015DMSD |      |               |      |            |        |             |      |               |      |               |
| Analyses                 | Cert | RL            | Qual | Result     | Spike  | SPK Ref Val | %REC | RPD Ref Val   | %RPD | Date Analyzed |
| Antimony                 |      | 0.0010        |      | 0.472      | 0.5000 | 0           | 94.4 | 0.4661        | 1.20 | 09/21/2021    |
| Arsenic                  |      | 0.0010        |      | 0.479      | 0.5000 | 0           | 95.9 | 0.4838        | 0.91 | 09/21/2021    |
| Barium                   |      | 0.0010        |      | 2.06       | 2.000  | 0.07375     | 99.5 | 2.053         | 0.58 | 09/21/2021    |
| Beryllium                |      | 0.0010        |      | 0.0431     | 0.0500 | 0           | 86.1 | 0.04330       | 0.52 | 09/21/2021    |
| Boron                    |      | 0.0250        |      | 0.577      | 0.5000 | 0.1175      | 91.9 | 0.5640        | 2.28 | 09/21/2021    |
| Cadmium                  |      | 0.0010        |      | 0.0442     | 0.0500 | 0           | 88.3 | 0.04417       | 0.03 | 09/21/2021    |
| Chromium                 |      | 0.0015        |      | 0.177      | 0.2000 | 0           | 88.6 | 0.1775        | 0.22 | 09/21/2021    |
| Cobalt                   |      | 0.0010        |      | 0.456      | 0.5000 | 0.0001438   | 91.2 | 0.4516        | 1.03 | 09/21/2021    |
| Copper                   |      | 0.0010        |      | 0.227      | 0.2500 | 0.002347    | 89.8 | 0.2278        | 0.38 | 09/21/2021    |
| Iron                     |      | 0.0250        |      | 1.69       | 2.000  | 0           | 84.3 | 1.648         | 2.30 | 09/21/2021    |
| Lead                     |      | 0.0010        |      | 0.475      | 0.5000 | 0           | 95.0 | 0.4875        | 2.56 | 09/21/2021    |
| Manganese                |      | 0.0020        |      | 0.462      | 0.5000 | 0           | 92.3 | 0.4638        | 0.45 | 09/21/2021    |
| Nickel                   |      | 0.0010        |      | 0.465      | 0.5000 | 0.001356    | 92.7 | 0.4716        | 1.40 | 09/23/2021    |
| Selenium                 |      | 0.0010        |      | 0.449      | 0.5000 | 0           | 89.8 | 0.4527        | 0.85 | 09/21/2021    |
| Silver                   |      | 0.0010        |      | 0.0401     | 0.0500 | 0           | 80.3 | 0.04023       | 0.26 | 09/21/2021    |
| Thallium                 |      | 0.0020        |      | 0.247      | 0.2500 | 0           | 98.9 | 0.2489        | 0.64 | 09/23/2021    |
| Zinc                     |      | 0.0150        |      | 0.432      | 0.5000 | 0           | 86.3 | 0.4334        | 0.43 | 09/21/2021    |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081266

Client Project: Hennepin GW Q3 2021

Report Date: 15-Oct-21

### SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 181873 SampType: MS

Units mg/L

SampleID: 21081266-020DMS

| Analyses  | Cert | RL     | Qual | Result | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|-----------|------|--------|------|--------|--------|-------------|-------|-----------|------------|---------------|
| Antimony  |      | 0.0010 |      | 0.475  | 0.5000 | 0.001452    | 94.7  | 75        | 125        | 09/21/2021    |
| Arsenic   |      | 0.0010 |      | 0.484  | 0.5000 | 0.001151    | 96.6  | 75        | 125        | 09/21/2021    |
| Barium    |      | 0.0010 |      | 2.09   | 2.000  | 0.07700     | 100.5 | 75        | 125        | 09/21/2021    |
| Beryllium |      | 0.0010 |      | 0.0429 | 0.0500 | 0           | 85.7  | 75        | 125        | 09/21/2021    |
| Boron     |      | 0.0250 | S    | 4.35   | 0.5000 | 4.000       | 69.3  | 75        | 125        | 09/21/2021    |
| Cadmium   |      | 0.0010 |      | 0.0445 | 0.0500 | 0           | 88.9  | 75        | 125        | 09/21/2021    |
| Chromium  |      | 0.0015 |      | 0.179  | 0.2000 | 0.001370    | 88.9  | 75        | 125        | 09/21/2021    |
| Cobalt    |      | 0.0010 |      | 0.457  | 0.5000 | 0.0004484   | 91.3  | 75        | 125        | 09/21/2021    |
| Copper    |      | 0.0010 |      | 0.229  | 0.2500 | 0.0007152   | 91.2  | 75        | 125        | 09/21/2021    |
| Iron      |      | 0.0250 |      | 1.89   | 2.000  | 0.2403      | 82.7  | 75        | 125        | 09/21/2021    |
| Lead      |      | 0.0010 |      | 0.492  | 0.5000 | 0           | 98.5  | 75        | 125        | 09/21/2021    |
| Manganese |      | 0.0020 |      | 0.587  | 0.5000 | 0.1225      | 92.9  | 75        | 125        | 09/21/2021    |
| Nickel    |      | 0.0010 |      | 0.489  | 0.5000 | 0.001956    | 97.5  | 75        | 125        | 09/23/2021    |
| Selenium  |      | 0.0010 |      | 0.470  | 0.5000 | 0.01707     | 90.5  | 75        | 125        | 09/21/2021    |
| Silver    |      | 0.0010 |      | 0.0405 | 0.0500 | 0           | 80.9  | 75        | 125        | 09/21/2021    |
| Thallium  |      | 0.0020 |      | 0.244  | 0.2500 | 0           | 97.5  | 75        | 125        | 09/23/2021    |
| Zinc      |      | 0.0150 |      | 0.441  | 0.5000 | 0           | 88.2  | 75        | 125        | 09/21/2021    |





## Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081266

Client Project: Hennepin GW Q3 2021

Report Date: 15-Oct-21

### SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

| Batch 181873               |      | SampType: MSD |      | Units mg/L |        |             | RPD Limit: 20 |             |      |               |
|----------------------------|------|---------------|------|------------|--------|-------------|---------------|-------------|------|---------------|
| SampleID: 21081266-020DMSD |      |               |      |            |        |             |               |             |      |               |
| Analyses                   | Cert | RL            | Qual | Result     | Spike  | SPK Ref Val | %REC          | RPD Ref Val | %RPD | Date Analyzed |
| Antimony                   |      | 0.0010        |      | 0.486      | 0.5000 | 0.001452    | 97.0          | 0.4752      | 2.29 | 09/21/2021    |
| Arsenic                    |      | 0.0010        |      | 0.487      | 0.5000 | 0.001151    | 97.2          | 0.4842      | 0.61 | 09/21/2021    |
| Barium                     |      | 0.0010        |      | 2.11       | 2.000  | 0.07700     | 101.7         | 2.087       | 1.14 | 09/21/2021    |
| Beryllium                  |      | 0.0010        |      | 0.0441     | 0.0500 | 0           | 88.1          | 0.04286     | 2.74 | 09/21/2021    |
| Boron                      |      | 0.0250        | S    | 4.33       | 0.5000 | 4.000       | 65.1          | 4.347       | 0.49 | 09/21/2021    |
| Cadmium                    |      | 0.0010        |      | 0.0452     | 0.0500 | 0           | 90.4          | 0.04446     | 1.71 | 09/21/2021    |
| Chromium                   |      | 0.0015        |      | 0.182      | 0.2000 | 0.001370    | 90.2          | 0.1792      | 1.42 | 09/21/2021    |
| Cobalt                     |      | 0.0010        |      | 0.462      | 0.5000 | 0.0004484   | 92.3          | 0.4571      | 1.06 | 09/21/2021    |
| Copper                     |      | 0.0010        |      | 0.232      | 0.2500 | 0.0007152   | 92.7          | 0.2288      | 1.58 | 09/21/2021    |
| Iron                       |      | 0.0250        |      | 2.05       | 2.000  | 0.2403      | 90.6          | 1.894       | 7.97 | 09/21/2021    |
| Lead                       |      | 0.0010        |      | 0.501      | 0.5000 | 0           | 100.2         | 0.4925      | 1.67 | 09/21/2021    |
| Manganese                  |      | 0.0020        |      | 0.593      | 0.5000 | 0.1225      | 94.2          | 0.5871      | 1.08 | 09/21/2021    |
| Nickel                     |      | 0.0010        |      | 0.489      | 0.5000 | 0.001956    | 97.4          | 0.4894      | 0.07 | 09/23/2021    |
| Selenium                   |      | 0.0010        |      | 0.474      | 0.5000 | 0.01707     | 91.5          | 0.4695      | 1.05 | 09/21/2021    |
| Silver                     |      | 0.0010        |      | 0.0406     | 0.0500 | 0           | 81.2          | 0.04045     | 0.32 | 09/21/2021    |
| Thallium                   |      | 0.0020        |      | 0.249      | 0.2500 | 0           | 99.5          | 0.2437      | 2.01 | 09/23/2021    |
| Zinc                       |      | 0.0150        |      | 0.444      | 0.5000 | 0           | 88.9          | 0.4408      | 0.79 | 09/21/2021    |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081266

Client Project: Hennepin GW Q3 2021

Report Date: 15-Oct-21

### SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

| Batch 181874        |      | SampType: MBLK |      | Units mg/L |        |             |      |           |            |            | Date Analyzed |  |
|---------------------|------|----------------|------|------------|--------|-------------|------|-----------|------------|------------|---------------|--|
| SampID: MBLK-181874 |      |                |      |            |        |             |      |           |            |            |               |  |
| Analyses            | Cert | RL             | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit |            |               |  |
| Aluminum            |      | 0.0250         |      | < 0.0250   | 0.0125 | 0           | 0    | -100      | 100        | 09/18/2021 |               |  |
| Antimony            |      | 0.0010         |      | < 0.0010   | 0.0004 | 0           | 0    | -100      | 100        | 09/18/2021 |               |  |
| Arsenic             |      | 0.0010         |      | < 0.0010   | 0.0004 | 0           | 0    | -100      | 100        | 09/18/2021 |               |  |
| Arsenic             |      | 0.0010         |      | < 0.0010   | 0.0004 | 0           | 0    | -100      | 100        | 09/18/2021 |               |  |
| Barium              |      | 0.0010         |      | < 0.0010   | 0.0007 | 0           | 0    | -100      | 100        | 09/18/2021 |               |  |
| Beryllium           |      | 0.0010         |      | < 0.0010   | 0.0002 | 0           | 0    | -100      | 100        | 09/18/2021 |               |  |
| Boron               |      | 0.0250         |      | < 0.0250   | 0.0093 | 0           | 0    | -100      | 100        | 09/18/2021 |               |  |
| Cadmium             |      | 0.0010         |      | < 0.0010   | 0.0001 | 0           | 0    | -100      | 100        | 09/18/2021 |               |  |
| Chromium            |      | 0.0015         |      | < 0.0015   | 0.0007 | 0           | 0    | -100      | 100        | 09/18/2021 |               |  |
| Cobalt              |      | 0.0010         |      | < 0.0010   | 0.0001 | 0           | 0    | -100      | 100        | 09/18/2021 |               |  |
| Copper              |      | 0.0010         |      | < 0.0010   | 0.0003 | 0           | 0    | -100      | 100        | 09/18/2021 |               |  |
| Iron                |      | 0.0250         |      | < 0.0250   | 0.0040 | 0           | 0    | -100      | 100        | 09/18/2021 |               |  |
| Lead                |      | 0.0010         |      | < 0.0010   | 0.0006 | 0           | 0    | -100      | 100        | 09/18/2021 |               |  |
| Manganese           |      | 0.0020         |      | < 0.0020   | 0.0008 | 0           | 0    | -100      | 100        | 09/18/2021 |               |  |
| Nickel              |      | 0.0010         |      | < 0.0010   | 0.0004 | 0           | 0    | -100      | 100        | 09/18/2021 |               |  |
| Selenium            |      | 0.0010         |      | < 0.0010   | 0.0006 | 0           | 0    | -100      | 100        | 09/18/2021 |               |  |
| Silver              |      | 0.0010         |      | < 0.0010   | 0.0001 | 0           | 0    | -100      | 100        | 09/18/2021 |               |  |
| Thallium            |      | 0.0020         |      | < 0.0020   | 0.0010 | 0           | 0    | -100      | 100        | 09/17/2021 |               |  |
| Vanadium            |      | 0.0050         |      | < 0.0050   | 0.0028 | 0           | 0    | -100      | 100        | 09/17/2021 |               |  |
| Zinc                |      | 0.0150         |      | < 0.0150   | 0.0059 | 0           | 0    | -100      | 100        | 09/17/2021 |               |  |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081266

Client Project: Hennepin GW Q3 2021

Report Date: 15-Oct-21

### SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 181874 SampType: LCS

Units mg/L

SampleID: LCS-181874

| Analyses  | Cert | RL     | Qual | Result | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|-----------|------|--------|------|--------|--------|-------------|------|-----------|------------|---------------|
| Aluminum  |      | 0.0250 |      | 1.95   | 2.000  | 0           | 97.4 | 80        | 120        | 09/18/2021    |
| Antimony  |      | 0.0010 |      | 0.471  | 0.5000 | 0           | 94.3 | 80        | 120        | 09/18/2021    |
| Arsenic   |      | 0.0010 |      | 0.488  | 0.5000 | 0           | 97.7 | 80        | 120        | 09/18/2021    |
| Arsenic   |      | 0.0010 |      | 0.480  | 0.5000 | 0           | 96.0 | 80        | 120        | 09/18/2021    |
| Barium    |      | 0.0010 |      | 2.00   | 2.000  | 0           | 99.9 | 80        | 120        | 09/18/2021    |
| Beryllium |      | 0.0010 |      | 0.0418 | 0.0500 | 0           | 83.7 | 80        | 120        | 09/18/2021    |
| Boron     |      | 0.0250 |      | 0.436  | 0.5000 | 0           | 87.3 | 80        | 120        | 09/18/2021    |
| Cadmium   |      | 0.0010 |      | 0.0425 | 0.0500 | 0           | 85.0 | 80        | 120        | 09/18/2021    |
| Chromium  |      | 0.0015 |      | 0.174  | 0.2000 | 0           | 86.8 | 80        | 120        | 09/18/2021    |
| Cobalt    |      | 0.0010 |      | 0.442  | 0.5000 | 0           | 88.4 | 80        | 120        | 09/18/2021    |
| Copper    |      | 0.0010 |      | 0.226  | 0.2500 | 0           | 90.5 | 80        | 120        | 09/18/2021    |
| Iron      |      | 0.0250 |      | 1.69   | 2.000  | 0           | 84.4 | 80        | 120        | 09/18/2021    |
| Lead      |      | 0.0010 |      | 0.461  | 0.5000 | 0           | 92.3 | 80        | 120        | 09/18/2021    |
| Manganese |      | 0.0020 |      | 0.470  | 0.5000 | 0           | 93.9 | 80        | 120        | 09/18/2021    |
| Nickel    |      | 0.0010 |      | 0.438  | 0.5000 | 0           | 87.5 | 80        | 120        | 09/18/2021    |
| Selenium  |      | 0.0010 |      | 0.473  | 0.5000 | 0           | 94.5 | 80        | 120        | 09/18/2021    |
| Silver    |      | 0.0010 |      | 0.0471 | 0.0500 | 0           | 94.2 | 80        | 120        | 09/18/2021    |
| Thallium  |      | 0.0020 |      | 0.223  | 0.2500 | 0           | 89.1 | 80        | 120        | 09/17/2021    |
| Vanadium  |      | 0.0050 |      | 0.465  | 0.5000 | 0           | 93.0 | 80        | 120        | 09/17/2021    |
| Zinc      |      | 0.0150 |      | 0.468  | 0.5000 | 0           | 93.7 | 80        | 120        | 09/17/2021    |

**Client:** Vistra Energy

**Work Order:** 21081266

**Client Project:** Hennepin GW Q3 2021

**Report Date:** 15-Oct-21

### SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

**Batch** 181874      **SampType:** MS

Units mg/L

SampID: 21081266-036EMS

| Analyses  | Cert | RL     | Qual | Result        | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|-----------|------|--------|------|---------------|--------|-------------|-------|-----------|------------|---------------|
| Antimony  |      | 0.0010 |      | <b>0.481</b>  | 0.5000 | 0           | 96.2  | 75        | 125        | 09/20/2021    |
| Arsenic   |      | 0.0010 |      | <b>0.496</b>  | 0.5000 | 0           | 99.2  | 75        | 125        | 09/20/2021    |
| Barium    |      | 0.0010 |      | <b>2.09</b>   | 2.000  | 0.06081     | 101.6 | 75        | 125        | 09/18/2021    |
| Beryllium |      | 0.0010 |      | <b>0.0432</b> | 0.0500 | 0           | 86.4  | 75        | 125        | 09/18/2021    |
| Boron     |      | 0.0250 |      | <b>0.671</b>  | 0.5000 | 0.2236      | 89.5  | 75        | 125        | 09/18/2021    |
| Cadmium   |      | 0.0010 |      | <b>0.0446</b> | 0.0500 | 0.0005411   | 88.1  | 75        | 125        | 09/18/2021    |
| Chromium  |      | 0.0015 |      | <b>0.176</b>  | 0.2000 | 0           | 87.8  | 75        | 125        | 09/18/2021    |
| Cobalt    |      | 0.0010 |      | <b>0.442</b>  | 0.5000 | 0.0005000   | 88.2  | 75        | 125        | 09/18/2021    |
| Copper    |      | 0.0010 |      | <b>0.224</b>  | 0.2500 | 0.001851    | 88.9  | 75        | 125        | 09/18/2021    |
| Iron      |      | 0.0250 |      | <b>1.74</b>   | 2.000  | 0           | 87.0  | 75        | 125        | 09/18/2021    |
| Lead      |      | 0.0010 |      | <b>0.472</b>  | 0.5000 | 0           | 94.4  | 75        | 125        | 09/18/2021    |
| Manganese |      | 0.0020 |      | <b>0.474</b>  | 0.5000 | 0           | 94.8  | 75        | 125        | 09/18/2021    |
| Nickel    |      | 0.0010 |      | <b>0.438</b>  | 0.5000 | 0.003447    | 86.9  | 75        | 125        | 09/18/2021    |
| Selenium  |      | 0.0010 |      | <b>0.472</b>  | 0.5000 | 0           | 94.3  | 75        | 125        | 09/20/2021    |
| Silver    |      | 0.0010 |      | <b>0.0490</b> | 0.0500 | 0           | 97.9  | 75        | 125        | 09/18/2021    |
| Thallium  |      | 0.0020 |      | <b>0.230</b>  | 0.2500 | 0           | 91.9  | 75        | 125        | 09/17/2021    |
| Vanadium  |      | 0.0050 |      | <b>0.471</b>  | 0.5000 | 0           | 94.2  | 75        | 125        | 09/17/2021    |
| Zinc      |      | 0.0150 |      | <b>0.461</b>  | 0.5000 | 0           | 92.2  | 75        | 125        | 09/17/2021    |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081266

Client Project: Hennepin GW Q3 2021

Report Date: 15-Oct-21

### SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

| Batch 181874             |      | SampType: MSD |      | Units mg/L |        |             |       | RPD Limit: 20 |      |               |
|--------------------------|------|---------------|------|------------|--------|-------------|-------|---------------|------|---------------|
| SampID: 21081266-036EMSD |      |               |      |            |        |             |       |               |      |               |
| Analyses                 | Cert | RL            | Qual | Result     | Spike  | SPK Ref Val | %REC  | RPD Ref Val   | %RPD | Date Analyzed |
| Antimony                 |      | 0.0010        |      | 0.482      | 0.5000 | 0           | 96.4  | 0.4809        | 0.19 | 09/20/2021    |
| Arsenic                  |      | 0.0010        |      | 0.494      | 0.5000 | 0           | 98.7  | 0.4959        | 0.46 | 09/20/2021    |
| Barium                   |      | 0.0010        |      | 2.09       | 2.000  | 0.06081     | 101.2 | 2.093         | 0.36 | 09/18/2021    |
| Beryllium                |      | 0.0010        |      | 0.0431     | 0.0500 | 0           | 86.2  | 0.04322       | 0.27 | 09/18/2021    |
| Boron                    |      | 0.0250        |      | 0.688      | 0.5000 | 0.2236      | 92.9  | 0.6711        | 2.47 | 09/18/2021    |
| Cadmium                  |      | 0.0010        |      | 0.0440     | 0.0500 | 0.0005411   | 86.9  | 0.04458       | 1.34 | 09/18/2021    |
| Chromium                 |      | 0.0015        |      | 0.171      | 0.2000 | 0           | 85.3  | 0.1755        | 2.88 | 09/18/2021    |
| Cobalt                   |      | 0.0010        |      | 0.437      | 0.5000 | 0.0005000   | 87.2  | 0.4416        | 1.14 | 09/18/2021    |
| Copper                   |      | 0.0010        |      | 0.221      | 0.2500 | 0.001851    | 87.5  | 0.2241        | 1.60 | 09/18/2021    |
| Iron                     |      | 0.0250        |      | 1.72       | 2.000  | 0           | 86.2  | 1.740         | 0.99 | 09/18/2021    |
| Lead                     |      | 0.0010        |      | 0.458      | 0.5000 | 0           | 91.7  | 0.4719        | 2.94 | 09/18/2021    |
| Manganese                |      | 0.0020        |      | 0.468      | 0.5000 | 0           | 93.6  | 0.4742        | 1.29 | 09/18/2021    |
| Nickel                   |      | 0.0010        |      | 0.431      | 0.5000 | 0.003447    | 85.5  | 0.4378        | 1.52 | 09/18/2021    |
| Selenium                 |      | 0.0010        |      | 0.471      | 0.5000 | 0           | 94.1  | 0.4717        | 0.24 | 09/20/2021    |
| Silver                   |      | 0.0010        |      | 0.0483     | 0.0500 | 0           | 96.6  | 0.04895       | 1.36 | 09/18/2021    |
| Thallium                 |      | 0.0020        |      | 0.228      | 0.2500 | 0           | 91.4  | 0.2297        | 0.51 | 09/17/2021    |
| Vanadium                 |      | 0.0050        |      | 0.466      | 0.5000 | 0           | 93.1  | 0.4712        | 1.19 | 09/17/2021    |
| Zinc                     |      | 0.0150        |      | 0.462      | 0.5000 | 0           | 92.3  | 0.4611        | 0.12 | 09/17/2021    |

### SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

| Batch 181826        |      | SampType: MBLK |      | Units mg/L |        |             |      |           |            |            | Date Analyzed |
|---------------------|------|----------------|------|------------|--------|-------------|------|-----------|------------|------------|---------------|
| SampID: MBLK-181826 |      |                |      |            |        |             |      |           |            |            |               |
| Analyses            | Cert | RL             | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit |            |               |
| Antimony            |      | 0.0010         |      | < 0.0010   | 0.0004 | 0           | 0    | -100      | 100        | 09/16/2021 |               |
| Arsenic             |      | 0.0010         |      | < 0.0010   | 0.0004 | 0           | 0    | -100      | 100        | 09/16/2021 |               |
| Barium              |      | 0.0010         |      | < 0.0010   | 0.0007 | 0           | 0    | -100      | 100        | 09/16/2021 |               |
| Beryllium           |      | 0.0010         |      | < 0.0010   | 0.0002 | 0           | 0    | -100      | 100        | 09/16/2021 |               |
| Boron               |      | 0.0250         |      | < 0.0250   | 0.0093 | 0           | 0    | -100      | 100        | 09/17/2021 |               |
| Cadmium             |      | 0.0010         |      | < 0.0010   | 0.0001 | 0           | 0    | -100      | 100        | 09/16/2021 |               |
| Chromium            |      | 0.0015         |      | < 0.0015   | 0.0007 | 0           | 0    | -100      | 100        | 09/16/2021 |               |
| Cobalt              |      | 0.0010         |      | < 0.0010   | 0.0001 | 0           | 0    | -100      | 100        | 09/16/2021 |               |
| Lead                |      | 0.0010         |      | < 0.0010   | 0.0006 | 0           | 0    | -100      | 100        | 09/16/2021 |               |
| Lithium             | *    | 0.0030         |      | < 0.0030   | 0.0015 | 0           | 0    | -100      | 100        | 09/16/2021 |               |
| Molybdenum          |      | 0.0015         |      | < 0.0015   | 0.0006 | 0           | 0    | -100      | 100        | 09/16/2021 |               |
| Selenium            |      | 0.0010         |      | < 0.0010   | 0.0006 | 0           | 0    | -100      | 100        | 09/16/2021 |               |
| Thallium            |      | 0.0020         |      | < 0.0020   | 0.0010 | 0           | 0    | -100      | 100        | 09/17/2021 |               |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081266

Client Project: Hennepin GW Q3 2021

Report Date: 15-Oct-21

### SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 181826 SampType: LCS Units mg/L

SampleID: LCS-181826

| Analyses   | Cert | RL     | Qual | Result | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|------------|------|--------|------|--------|--------|-------------|-------|-----------|------------|---------------|
| Antimony   |      | 0.0010 |      | 0.498  | 0.5000 | 0           | 99.6  | 85        | 115        | 09/16/2021    |
| Arsenic    |      | 0.0010 |      | 0.531  | 0.5000 | 0           | 106.2 | 85        | 115        | 09/16/2021    |
| Barium     |      | 0.0010 |      | 2.06   | 2.000  | 0           | 102.9 | 85        | 115        | 09/16/2021    |
| Beryllium  |      | 0.0010 |      | 0.0502 | 0.0500 | 0           | 100.3 | 85        | 115        | 09/16/2021    |
| Boron      |      | 0.0250 |      | 0.520  | 0.5000 | 0           | 104.1 | 85        | 115        | 09/20/2021    |
| Cadmium    |      | 0.0010 |      | 0.0551 | 0.0500 | 0           | 110.2 | 85        | 115        | 09/16/2021    |
| Chromium   |      | 0.0015 |      | 0.205  | 0.2000 | 0           | 102.5 | 85        | 115        | 09/16/2021    |
| Cobalt     |      | 0.0010 |      | 0.510  | 0.5000 | 0           | 101.9 | 85        | 115        | 09/16/2021    |
| Lead       |      | 0.0010 |      | 0.525  | 0.5000 | 0           | 105.0 | 85        | 115        | 09/16/2021    |
| Lithium    | *    | 0.0030 |      | 0.526  | 0.5000 | 0           | 105.2 | 85        | 115        | 09/16/2021    |
| Molybdenum |      | 0.0015 |      | 0.495  | 0.5000 | 0           | 99.0  | 85        | 115        | 09/16/2021    |
| Selenium   |      | 0.0010 |      | 0.455  | 0.5000 | 0           | 91.1  | 85        | 115        | 09/16/2021    |
| Thallium   |      | 0.0020 |      | 0.235  | 0.2500 | 0           | 93.9  | 85        | 115        | 09/16/2021    |

Batch 181826 SampType: MS Units mg/L

SampleID: 21081266-041CMS

| Analyses   | Cert | RL     | Qual | Result | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|------------|------|--------|------|--------|--------|-------------|-------|-----------|------------|---------------|
| Antimony   |      | 0.0010 |      | 0.470  | 0.5000 | 0           | 93.9  | 75        | 125        | 09/16/2021    |
| Arsenic    |      | 0.0010 |      | 0.496  | 0.5000 | 0.0006075   | 99.0  | 75        | 125        | 09/16/2021    |
| Barium     |      | 0.0010 |      | 2.05   | 2.000  | 0.09765     | 97.8  | 75        | 125        | 09/16/2021    |
| Beryllium  |      | 0.0010 |      | 0.0503 | 0.0500 | 0           | 100.7 | 75        | 125        | 09/16/2021    |
| Boron      |      | 0.0250 |      | 1.22   | 0.5000 | 0.6961      | 104.7 | 75        | 125        | 09/20/2021    |
| Cadmium    |      | 0.0010 |      | 0.0487 | 0.0500 | 0.001544    | 94.4  | 75        | 125        | 09/16/2021    |
| Chromium   |      | 0.0015 |      | 0.194  | 0.2000 | 0           | 96.9  | 75        | 125        | 09/16/2021    |
| Cobalt     |      | 0.0010 |      | 0.486  | 0.5000 | 0.006753    | 95.9  | 75        | 125        | 09/16/2021    |
| Lead       |      | 0.0010 |      | 0.488  | 0.5000 | 0           | 97.7  | 75        | 125        | 09/16/2021    |
| Lithium    | *    | 0.0030 |      | 0.540  | 0.5000 | 0.01967     | 104.1 | 75        | 125        | 09/21/2021    |
| Molybdenum |      | 0.0015 |      | 0.529  | 0.5000 | 0.03575     | 98.7  | 75        | 125        | 09/16/2021    |
| Selenium   |      | 0.0010 |      | 0.446  | 0.5000 | 0           | 89.2  | 75        | 125        | 09/16/2021    |
| Thallium   |      | 0.0020 |      | 0.234  | 0.2500 | 0           | 93.7  | 75        | 125        | 09/16/2021    |





## Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081266

Client Project: Hennepin GW Q3 2021

Report Date: 15-Oct-21

### SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

| Batch 181826               |      | SampType: MSD |      | Units mg/L |        |             |       | RPD Limit: 20 |      |               |
|----------------------------|------|---------------|------|------------|--------|-------------|-------|---------------|------|---------------|
| SampleID: 21081266-041CMSD |      |               |      |            |        |             |       |               |      |               |
| Analyses                   | Cert | RL            | Qual | Result     | Spike  | SPK Ref Val | %REC  | RPD Ref Val   | %RPD | Date Analyzed |
| Antimony                   |      | 0.0010        |      | 0.491      | 0.5000 | 0           | 98.1  | 0.4695        | 4.37 | 09/16/2021    |
| Arsenic                    |      | 0.0010        |      | 0.515      | 0.5000 | 0.0006075   | 102.8 | 0.4957        | 3.73 | 09/16/2021    |
| Barium                     |      | 0.0010        |      | 2.13       | 2.000  | 0.09765     | 101.7 | 2.054         | 3.65 | 09/16/2021    |
| Beryllium                  |      | 0.0010        |      | 0.0517     | 0.0500 | 0           | 103.3 | 0.05033       | 2.64 | 09/16/2021    |
| Boron                      |      | 0.0250        |      | 1.26       | 0.5000 | 0.6961      | 112.8 | 1.219         | 3.29 | 09/20/2021    |
| Cadmium                    |      | 0.0010        |      | 0.0507     | 0.0500 | 0.001544    | 98.3  | 0.04874       | 3.93 | 09/16/2021    |
| Chromium                   |      | 0.0015        |      | 0.201      | 0.2000 | 0           | 100.7 | 0.1937        | 3.92 | 09/16/2021    |
| Cobalt                     |      | 0.0010        |      | 0.506      | 0.5000 | 0.006753    | 99.8  | 0.4864        | 3.92 | 09/16/2021    |
| Lead                       |      | 0.0010        |      | 0.505      | 0.5000 | 0           | 101.0 | 0.4883        | 3.39 | 09/16/2021    |
| Lithium                    | *    | 0.0030        |      | 0.537      | 0.5000 | 0.01967     | 103.4 | 0.5404        | 0.71 | 09/21/2021    |
| Molybdenum                 |      | 0.0015        |      | 0.558      | 0.5000 | 0.03575     | 104.4 | 0.5294        | 5.19 | 09/16/2021    |
| Selenium                   |      | 0.0010        |      | 0.465      | 0.5000 | 0           | 93.0  | 0.4458        | 4.25 | 09/16/2021    |
| Thallium                   |      | 0.0020        |      | 0.246      | 0.2500 | 0           | 98.5  | 0.2343        | 4.96 | 09/16/2021    |

| Batch 181937          |      | SampType: MBLK |      | Units mg/L |        |             |      |           |            |               |
|-----------------------|------|----------------|------|------------|--------|-------------|------|-----------|------------|---------------|
| SampleID: MBLK-181937 |      |                |      |            |        |             |      |           |            |               |
| Analyses              | Cert | RL             | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
| Antimony              |      | 0.0010         |      | < 0.0010   | 0.0004 | 0           | 0    | -100      | 100        | 09/21/2021    |
| Arsenic               |      | 0.0010         |      | < 0.0010   | 0.0004 | 0           | 0    | -100      | 100        | 09/21/2021    |
| Barium                |      | 0.0010         |      | < 0.0010   | 0.0007 | 0           | 0    | -100      | 100        | 09/21/2021    |
| Beryllium             |      | 0.0010         |      | < 0.0010   | 0.0002 | 0           | 0    | -100      | 100        | 09/21/2021    |
| Boron                 |      | 0.0250         |      | < 0.0250   | 0.0093 | 0           | 0    | -100      | 100        | 09/21/2021    |
| Cadmium               |      | 0.0010         |      | < 0.0010   | 0.0001 | 0           | 0    | -100      | 100        | 09/21/2021    |
| Chromium              |      | 0.0015         |      | < 0.0015   | 0.0007 | 0           | 0    | -100      | 100        | 09/21/2021    |
| Cobalt                |      | 0.0010         |      | < 0.0010   | 0.0001 | 0           | 0    | -100      | 100        | 09/21/2021    |
| Lead                  |      | 0.0010         |      | < 0.0010   | 0.0006 | 0           | 0    | -100      | 100        | 09/21/2021    |
| Lithium               | *    | 0.0030         |      | < 0.0030   | 0.0015 | 0           | 0    | -100      | 100        | 09/21/2021    |
| Molybdenum            |      | 0.0015         |      | < 0.0015   | 0.0006 | 0           | 0    | -100      | 100        | 09/21/2021    |
| Selenium              |      | 0.0010         |      | < 0.0010   | 0.0006 | 0           | 0    | -100      | 100        | 09/21/2021    |
| Thallium              |      | 0.0020         |      | < 0.0020   | 0.0010 | 0           | 0    | -100      | 100        | 09/23/2021    |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081266

Client Project: Hennepin GW Q3 2021

Report Date: 15-Oct-21

### SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 181937 SampType: LCS Units mg/L  
 SampleID: LCS-181937

| Analyses   | Cert | RL     | Qual | Result | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|------------|------|--------|------|--------|--------|-------------|-------|-----------|------------|---------------|
| Antimony   |      | 0.0010 |      | 0.495  | 0.5000 | 0           | 99.1  | 80        | 120        | 09/23/2021    |
| Arsenic    |      | 0.0010 |      | 0.530  | 0.5000 | 0           | 105.9 | 80        | 120        | 09/21/2021    |
| Barium     |      | 0.0010 |      | 2.17   | 2.000  | 0           | 108.5 | 80        | 120        | 09/21/2021    |
| Beryllium  |      | 0.0010 |      | 0.0518 | 0.0500 | 0           | 103.5 | 80        | 120        | 09/21/2021    |
| Boron      |      | 0.0250 |      | 0.507  | 0.5000 | 0           | 101.4 | 80        | 120        | 09/21/2021    |
| Cadmium    |      | 0.0010 |      | 0.0575 | 0.0500 | 0           | 114.9 | 80        | 120        | 09/21/2021    |
| Chromium   |      | 0.0015 |      | 0.205  | 0.2000 | 0           | 102.4 | 80        | 120        | 09/21/2021    |
| Cobalt     |      | 0.0010 |      | 0.529  | 0.5000 | 0           | 105.7 | 80        | 120        | 09/21/2021    |
| Lead       |      | 0.0010 |      | 0.508  | 0.5000 | 0           | 101.6 | 80        | 120        | 09/21/2021    |
| Lithium    | *    | 0.0030 |      | 0.533  | 0.5000 | 0           | 106.6 | 80        | 120        | 09/21/2021    |
| Molybdenum |      | 0.0015 |      | 0.506  | 0.5000 | 0           | 101.2 | 80        | 120        | 09/21/2021    |
| Selenium   |      | 0.0010 |      | 0.493  | 0.5000 | 0           | 98.7  | 80        | 120        | 09/21/2021    |
| Thallium   |      | 0.0020 |      | 0.273  | 0.2500 | 0           | 109.2 | 80        | 120        | 09/23/2021    |

Batch 181937 SampType: MS Units mg/L  
 SampleID: 21081266-009DMS

| Analyses   | Cert | RL     | Qual | Result | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|------------|------|--------|------|--------|--------|-------------|-------|-----------|------------|---------------|
| Antimony   |      | 0.0010 |      | 0.523  | 0.5000 | 0           | 104.5 | 75        | 125        | 09/24/2021    |
| Arsenic    |      | 0.0010 |      | 0.535  | 0.5000 | 0           | 107.1 | 75        | 125        | 09/24/2021    |
| Barium     |      | 0.0010 |      | 2.21   | 2.000  | 0.08785     | 106.3 | 75        | 125        | 09/24/2021    |
| Beryllium  |      | 0.0010 |      | 0.0548 | 0.0500 | 0           | 109.7 | 75        | 125        | 09/24/2021    |
| Boron      |      | 0.0250 |      | 0.650  | 0.5000 | 0.1137      | 107.3 | 75        | 125        | 09/27/2021    |
| Cadmium    |      | 0.0010 |      | 0.0493 | 0.0500 | 0.0002488   | 98.2  | 75        | 125        | 09/24/2021    |
| Chromium   |      | 0.0015 |      | 0.199  | 0.2000 | 0           | 99.5  | 75        | 125        | 09/24/2021    |
| Cobalt     |      | 0.0010 |      | 0.494  | 0.5000 | 0.004875    | 97.8  | 75        | 125        | 09/24/2021    |
| Lead       |      | 0.0010 |      | 0.513  | 0.5000 | 0           | 102.6 | 75        | 125        | 09/24/2021    |
| Lithium    | *    | 0.0030 |      | 0.566  | 0.5000 | 0.01313     | 110.5 | 75        | 125        | 09/24/2021    |
| Molybdenum |      | 0.0015 |      | 0.497  | 0.5000 | 0.001136    | 99.2  | 75        | 125        | 09/24/2021    |
| Selenium   |      | 0.0010 |      | 0.498  | 0.5000 | 0           | 99.5  | 75        | 125        | 09/24/2021    |
| Thallium   |      | 0.0020 |      | 0.251  | 0.2500 | 0           | 100.6 | 75        | 125        | 09/24/2021    |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081266

Client Project: Hennepin GW Q3 2021

Report Date: 15-Oct-21

### SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

| Batch 181937               |      | SampType: MSD |      | Units mg/L |        |             |       | RPD Limit: 20 |      |               |
|----------------------------|------|---------------|------|------------|--------|-------------|-------|---------------|------|---------------|
| SampleID: 21081266-009DMSD |      |               |      |            |        |             |       |               |      |               |
| Analyses                   | Cert | RL            | Qual | Result     | Spike  | SPK Ref Val | %REC  | RPD Ref Val   | %RPD | Date Analyzed |
| Antimony                   |      | 0.0010        |      | 0.529      | 0.5000 | 0           | 105.8 | 0.5227        | 1.17 | 09/24/2021    |
| Arsenic                    |      | 0.0010        |      | 0.536      | 0.5000 | 0           | 107.3 | 0.5354        | 0.17 | 09/24/2021    |
| Barium                     |      | 0.0010        |      | 2.24       | 2.000  | 0.08785     | 107.4 | 2.214         | 1.03 | 09/24/2021    |
| Beryllium                  |      | 0.0010        |      | 0.0543     | 0.0500 | 0           | 108.7 | 0.05484       | 0.92 | 09/24/2021    |
| Boron                      |      | 0.0250        |      | 0.675      | 0.5000 | 0.1137      | 112.3 | 0.6502        | 3.76 | 09/27/2021    |
| Cadmium                    |      | 0.0010        |      | 0.0499     | 0.0500 | 0.0002488   | 99.4  | 0.04933       | 1.19 | 09/24/2021    |
| Chromium                   |      | 0.0015        |      | 0.199      | 0.2000 | 0           | 99.3  | 0.1989        | 0.18 | 09/24/2021    |
| Cobalt                     |      | 0.0010        |      | 0.494      | 0.5000 | 0.004875    | 97.8  | 0.4937        | 0.01 | 09/24/2021    |
| Lead                       |      | 0.0010        |      | 0.514      | 0.5000 | 0           | 102.9 | 0.5131        | 0.24 | 09/24/2021    |
| Lithium                    | *    | 0.0030        |      | 0.556      | 0.5000 | 0.01313     | 108.5 | 0.5659        | 1.80 | 09/24/2021    |
| Molybdenum                 |      | 0.0015        |      | 0.497      | 0.5000 | 0.001136    | 99.2  | 0.4974        | 0.06 | 09/24/2021    |
| Selenium                   |      | 0.0010        |      | 0.502      | 0.5000 | 0           | 100.4 | 0.4977        | 0.87 | 09/24/2021    |
| Thallium                   |      | 0.0020        |      | 0.253      | 0.2500 | 0           | 101.4 | 0.2514        | 0.79 | 09/24/2021    |

| Batch 181937            |      | SampType: MS |      | Units mg/L |        |             |       |           |            |               |
|-------------------------|------|--------------|------|------------|--------|-------------|-------|-----------|------------|---------------|
| SampID: 21081266-012CMS |      |              |      |            |        |             |       |           |            |               |
| Analyses                | Cert | RL           | Qual | Result     | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
| Arsenic                 |      | 0.0010       |      | 0.534      | 0.5000 | 0           | 106.8 | 75        | 125        | 09/24/2021    |
| Barium                  |      | 0.0010       |      | 2.18       | 2.000  | 0.05559     | 106.0 | 75        | 125        | 09/24/2021    |
| Boron                   |      | 0.0250       |      | 0.761      | 0.5000 | 0.2242      | 107.4 | 75        | 125        | 09/27/2021    |
| Cadmium                 |      | 0.0010       |      | 0.0486     | 0.0500 | 0           | 97.2  | 75        | 125        | 09/24/2021    |
| Chromium                |      | 0.0015       |      | 0.198      | 0.2000 | 0.0009706   | 98.5  | 75        | 125        | 09/24/2021    |
| Cobalt                  |      | 0.0010       |      | 0.482      | 0.5000 | 0           | 96.4  | 75        | 125        | 09/24/2021    |
| Lead                    |      | 0.0010       |      | 0.506      | 0.5000 | 0           | 101.2 | 75        | 125        | 09/24/2021    |
| Lithium                 | *    | 0.0030       |      | 0.548      | 0.5000 | 0.01209     | 107.1 | 75        | 125        | 09/24/2021    |
| Molybdenum              |      | 0.0015       |      | 0.515      | 0.5000 | 0.02598     | 97.9  | 75        | 125        | 09/24/2021    |
| Selenium                |      | 0.0010       |      | 0.502      | 0.5000 | 0.0006941   | 100.3 | 75        | 125        | 09/24/2021    |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081266

Client Project: Hennepin GW Q3 2021

Report Date: 15-Oct-21

### SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

| Batch 181937               |      | SampType: MSD |      | Units mg/L |        |             |       | RPD Limit: 20 |      |               |
|----------------------------|------|---------------|------|------------|--------|-------------|-------|---------------|------|---------------|
| SampleID: 21081266-012CMSD |      |               |      |            |        |             |       |               |      |               |
| Analyses                   | Cert | RL            | Qual | Result     | Spike  | SPK Ref Val | %REC  | RPD Ref Val   | %RPD | Date Analyzed |
| Arsenic                    |      | 0.0010        |      | 0.531      | 0.5000 | 0           | 106.3 | 0.5339        | 0.49 | 09/24/2021    |
| Barium                     |      | 0.0010        |      | 2.16       | 2.000  | 0.05559     | 105.1 | 2.175         | 0.84 | 09/24/2021    |
| Boron                      |      | 0.0250        |      | 0.770      | 0.5000 | 0.2242      | 109.1 | 0.7611        | 1.11 | 09/27/2021    |
| Cadmium                    |      | 0.0010        |      | 0.0490     | 0.0500 | 0           | 98.0  | 0.04858       | 0.82 | 09/24/2021    |
| Chromium                   |      | 0.0015        |      | 0.198      | 0.2000 | 0.0009706   | 98.6  | 0.1980        | 0.09 | 09/24/2021    |
| Cobalt                     |      | 0.0010        |      | 0.484      | 0.5000 | 0           | 96.9  | 0.4822        | 0.43 | 09/24/2021    |
| Lead                       |      | 0.0010        |      | 0.506      | 0.5000 | 0           | 101.3 | 0.5061        | 0.05 | 09/24/2021    |
| Lithium                    | *    | 0.0030        |      | 0.539      | 0.5000 | 0.01209     | 105.4 | 0.5478        | 1.58 | 09/24/2021    |
| Molybdenum                 |      | 0.0015        |      | 0.514      | 0.5000 | 0.02598     | 97.5  | 0.5153        | 0.34 | 09/24/2021    |
| Selenium                   |      | 0.0010        |      | 0.505      | 0.5000 | 0.0006941   | 100.8 | 0.5022        | 0.49 | 09/24/2021    |

| Batch 181947          |      | SampType: MBLK |      | Units mg/L |        |             |      |           |            |               |
|-----------------------|------|----------------|------|------------|--------|-------------|------|-----------|------------|---------------|
| SampleID: MBLK-181947 |      |                |      |            |        |             |      |           |            |               |
| Analyses              | Cert | RL             | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
| Antimony              |      | 0.0010         |      | < 0.0010   | 0.0004 | 0           | 0    | -100      | 100        | 09/21/2021    |
| Arsenic               |      | 0.0010         |      | < 0.0010   | 0.0004 | 0           | 0    | -100      | 100        | 09/21/2021    |
| Barium                |      | 0.0010         |      | < 0.0010   | 0.0007 | 0           | 0    | -100      | 100        | 09/21/2021    |
| Beryllium             |      | 0.0010         |      | < 0.0010   | 0.0002 | 0           | 0    | -100      | 100        | 09/21/2021    |
| Boron                 |      | 0.0250         |      | < 0.0250   | 0.0093 | 0           | 0    | -100      | 100        | 09/21/2021    |
| Cadmium               |      | 0.0010         |      | < 0.0010   | 0.0001 | 0           | 0    | -100      | 100        | 09/21/2021    |
| Chromium              |      | 0.0015         |      | < 0.0015   | 0.0007 | 0           | 0    | -100      | 100        | 09/21/2021    |
| Cobalt                |      | 0.0010         |      | < 0.0010   | 0.0001 | 0           | 0    | -100      | 100        | 09/21/2021    |
| Lead                  |      | 0.0010         |      | < 0.0010   | 0.0006 | 0           | 0    | -100      | 100        | 09/21/2021    |
| Lithium               | *    | 0.0030         |      | < 0.0030   | 0.0015 | 0           | 0    | -100      | 100        | 09/21/2021    |
| Molybdenum            |      | 0.0015         |      | < 0.0015   | 0.0006 | 0           | 0    | -100      | 100        | 09/21/2021    |
| Selenium              |      | 0.0010         |      | < 0.0010   | 0.0006 | 0           | 0    | -100      | 100        | 09/21/2021    |
| Thallium              |      | 0.0020         |      | < 0.0020   | 0.0010 | 0           | 0    | -100      | 100        | 09/23/2021    |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081266

Client Project: Hennepin GW Q3 2021

Report Date: 15-Oct-21

### SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 181947 SampType: LCS Units mg/L  
SampID: LCS-181947

| Analyses   | Cert | RL     | Qual | Result | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|------------|------|--------|------|--------|--------|-------------|-------|-----------|------------|---------------|
| Antimony   |      | 0.0010 |      | 0.528  | 0.5000 | 0           | 105.7 | 80        | 120        | 09/21/2021    |
| Arsenic    |      | 0.0010 |      | 0.519  | 0.5000 | 0           | 103.7 | 80        | 120        | 09/21/2021    |
| Barium     |      | 0.0010 |      | 2.20   | 2.000  | 0           | 110.2 | 80        | 120        | 09/21/2021    |
| Beryllium  |      | 0.0010 |      | 0.0459 | 0.0500 | 0           | 91.8  | 80        | 120        | 09/21/2021    |
| Boron      |      | 0.0250 |      | 0.460  | 0.5000 | 0           | 92.0  | 80        | 120        | 09/21/2021    |
| Cadmium    |      | 0.0010 |      | 0.0491 | 0.0500 | 0           | 98.2  | 80        | 120        | 09/21/2021    |
| Chromium   |      | 0.0015 |      | 0.193  | 0.2000 | 0           | 96.6  | 80        | 120        | 09/21/2021    |
| Cobalt     |      | 0.0010 |      | 0.496  | 0.5000 | 0           | 99.2  | 80        | 120        | 09/21/2021    |
| Lead       |      | 0.0010 |      | 0.534  | 0.5000 | 0           | 106.9 | 80        | 120        | 09/21/2021    |
| Lithium    | *    | 0.0030 |      | 0.471  | 0.5000 | 0           | 94.1  | 80        | 120        | 09/21/2021    |
| Molybdenum |      | 0.0015 |      | 0.511  | 0.5000 | 0           | 102.1 | 80        | 120        | 09/21/2021    |
| Selenium   |      | 0.0010 |      | 0.490  | 0.5000 | 0           | 98.0  | 80        | 120        | 09/21/2021    |
| Thallium   |      | 0.0020 |      | 0.257  | 0.2500 | 0           | 102.8 | 80        | 120        | 09/23/2021    |

Batch 181947 SampType: MS Units mg/L  
SampID: 21081266-005CMS

| Analyses   | Cert | RL     | Qual | Result | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|------------|------|--------|------|--------|--------|-------------|-------|-----------|------------|---------------|
| Antimony   |      | 0.0010 |      | 0.519  | 0.5000 | 0           | 103.8 | 75        | 125        | 09/21/2021    |
| Arsenic    |      | 0.0010 |      | 0.520  | 0.5000 | 0.001073    | 103.7 | 75        | 125        | 09/21/2021    |
| Barium     |      | 0.0010 |      | 2.21   | 2.000  | 0.05243     | 108.1 | 75        | 125        | 09/21/2021    |
| Boron      |      | 0.0250 |      | 1.19   | 0.5000 | 0.7149      | 95.9  | 75        | 125        | 09/21/2021    |
| Cadmium    |      | 0.0010 |      | 0.0478 | 0.0500 | 0.0002589   | 95.2  | 75        | 125        | 09/21/2021    |
| Chromium   |      | 0.0015 |      | 0.189  | 0.2000 | 0           | 94.4  | 75        | 125        | 09/21/2021    |
| Cobalt     |      | 0.0010 |      | 0.480  | 0.5000 | 0.0002782   | 95.9  | 75        | 125        | 09/21/2021    |
| Lead       |      | 0.0010 |      | 0.519  | 0.5000 | 0           | 103.8 | 75        | 125        | 09/21/2021    |
| Lithium    | *    | 0.0030 |      | 0.499  | 0.5000 | 0.04025     | 91.7  | 75        | 125        | 09/21/2021    |
| Molybdenum |      | 0.0015 |      | 0.530  | 0.5000 | 0.01926     | 102.2 | 75        | 125        | 09/21/2021    |
| Selenium   |      | 0.0010 |      | 0.494  | 0.5000 | 0.003437    | 98.2  | 75        | 125        | 09/21/2021    |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081266

Client Project: Hennepin GW Q3 2021

Report Date: 15-Oct-21

### SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

| Batch 181947             |      | SampType: MSD |      | Units mg/L |        |             |       | RPD Limit: 20 |      |               |
|--------------------------|------|---------------|------|------------|--------|-------------|-------|---------------|------|---------------|
| SampID: 21081266-005CMSD |      |               |      |            |        |             |       |               |      |               |
| Analyses                 | Cert | RL            | Qual | Result     | Spike  | SPK Ref Val | %REC  | RPD Ref Val   | %RPD | Date Analyzed |
| Antimony                 |      | 0.0010        |      | 0.507      | 0.5000 | 0           | 101.5 | 0.5188        | 2.22 | 09/21/2021    |
| Arsenic                  |      | 0.0010        |      | 0.512      | 0.5000 | 0.001073    | 102.2 | 0.5196        | 1.44 | 09/21/2021    |
| Barium                   |      | 0.0010        |      | 2.19       | 2.000  | 0.05243     | 106.9 | 2.214         | 1.09 | 09/21/2021    |
| Boron                    |      | 0.0250        |      | 1.15       | 0.5000 | 0.7149      | 86.4  | 1.194         | 4.05 | 09/21/2021    |
| Cadmium                  |      | 0.0010        |      | 0.0469     | 0.0500 | 0.0002589   | 93.2  | 0.04785       | 2.07 | 09/21/2021    |
| Chromium                 |      | 0.0015        |      | 0.191      | 0.2000 | 0           | 95.6  | 0.1888        | 1.27 | 09/21/2021    |
| Cobalt                   |      | 0.0010        |      | 0.479      | 0.5000 | 0.0002782   | 95.8  | 0.4797        | 0.14 | 09/21/2021    |
| Lead                     |      | 0.0010        |      | 0.523      | 0.5000 | 0           | 104.7 | 0.5188        | 0.88 | 09/21/2021    |
| Lithium                  | *    | 0.0030        |      | 0.498      | 0.5000 | 0.04025     | 91.5  | 0.4988        | 0.18 | 09/21/2021    |
| Molybdenum               |      | 0.0015        |      | 0.507      | 0.5000 | 0.01926     | 97.6  | 0.5302        | 4.41 | 09/21/2021    |
| Selenium                 |      | 0.0010        |      | 0.483      | 0.5000 | 0.003437    | 95.9  | 0.4944        | 2.36 | 09/21/2021    |

### SW-846 7470A (DISSOLVED)

| Batch 181944            |      | SampType: MS |      | Units mg/L |        |             |      |           |            |               |
|-------------------------|------|--------------|------|------------|--------|-------------|------|-----------|------------|---------------|
| SampID: 21081266-006CMS |      |              |      |            |        |             |      |           |            |               |
| Analyses                | Cert | RL           | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
| Mercury                 |      | 0.00020      |      | 0.00490    | 0.0050 | 0           | 98.0 | 75        | 125        | 09/17/2021    |

| Batch 181944             |  | SampType: MSD |         | Units mg/L |         |        |             | RPD Limit: 15 |             |      |            | Date Analyzed |
|--------------------------|--|---------------|---------|------------|---------|--------|-------------|---------------|-------------|------|------------|---------------|
| SampID: 21081266-006CMSD |  |               |         |            |         |        |             |               |             |      |            |               |
| Analyses                 |  | Cert          | RL      | Qual       | Result  | Spike  | SPK Ref Val | %REC          | RPD Ref Val | %RPD |            |               |
| Mercury                  |  |               | 0.00020 |            | 0.00469 | 0.0050 | 0           | 93.7          | 0.004901    | 4.46 | 09/17/2021 |               |

| Batch 181944            |      | SampType: MS |      | Units mg/L |        |             |       |           |            |  | Date Analyzed |
|-------------------------|------|--------------|------|------------|--------|-------------|-------|-----------|------------|--|---------------|
| SampID: 21081266-009EMS |      |              |      |            |        |             |       |           |            |  |               |
| Analyses                | Cert | RL           | Qual | Result     | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit |  |               |
| Mercury                 |      | 0.00020      |      | 0.00511    | 0.0050 | 0           | 102.2 | 75        | 125        |  |               |

| Batch 181944             |  | SampType: MSD |         | Units mg/L |         |        |             | RPD Limit: 15 |             |      | Date Analyzed |
|--------------------------|--|---------------|---------|------------|---------|--------|-------------|---------------|-------------|------|---------------|
| SampID: 21081266-009EMSD |  |               |         |            |         |        |             |               |             |      |               |
| Analyses                 |  | Cert          | RL      | Qual       | Result  | Spike  | SPK Ref Val | %REC          | RPD Ref Val | %RPD |               |
| Mercury                  |  |               | 0.00020 |            | 0.00499 | 0.0050 | 0           | 99.7          | 0.005112    | 2.50 | 09/17/2021    |





## Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081266

Client Project: Hennepin GW Q3 2021

Report Date: 15-Oct-21

### SW-846 7470A (DISSOLVED)

| Batch 181945              |      | SampType: MS |      | Units mg/L |        |             |       |           |            |            |               |
|---------------------------|------|--------------|------|------------|--------|-------------|-------|-----------|------------|------------|---------------|
| SampleID: 21081266-020DMS |      |              |      |            |        |             |       |           |            |            | Date Analyzed |
| Analyses                  | Cert | RL           | Qual | Result     | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit |            |               |
| Mercury                   |      | 0.00020      |      | 0.00503    | 0.0050 | 0           | 100.6 | 75        | 125        | 09/17/2021 |               |

| Batch 181945               |  | SampType: MSD |         | Units mg/L |         |        |             | RPD Limit: 15 |             |      |               |
|----------------------------|--|---------------|---------|------------|---------|--------|-------------|---------------|-------------|------|---------------|
| SampleID: 21081266-020DMSD |  |               |         |            |         |        |             |               |             |      |               |
| Analyses                   |  | Cert          | RL      | Qual       | Result  | Spike  | SPK Ref Val | %REC          | RPD Ref Val | %RPD | Date Analyzed |
| Mercury                    |  |               | 0.00020 |            | 0.00517 | 0.0050 | 0           | 103.5         | 0.005030    | 2.83 | 09/17/2021    |

### SW-846 7470A (TOTAL)

| Batch 181879          |      | SampType: MBLK |      | Units mg/L |        |             |      |           |            |               |  |
|-----------------------|------|----------------|------|------------|--------|-------------|------|-----------|------------|---------------|--|
| SampleID: MBLK-181879 |      |                |      |            |        |             |      |           |            |               |  |
| Analyses              | Cert | RL             | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Mercury               |      | 0.00020        |      | < 0.00020  | 0.0001 | 0           | 0    | -100      | 100        | 09/16/2021    |  |

| Batch 181879         |      | SampType: LCS |      | Units mg/L |        |             |      |           |            |            |               |
|----------------------|------|---------------|------|------------|--------|-------------|------|-----------|------------|------------|---------------|
| SampleID: LCS-181879 |      |               |      |            |        |             |      |           |            |            | Date Analyzed |
| Analyses             | Cert | RL            | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit |            |               |
| Mercury              |      | 0.00020       |      | 0.00492    | 0.0050 | 0           | 98.4 | 85        | 115        | 09/16/2021 |               |

| Batch 181879              |      | SampType: MS |      | Units mg/L |        |             |      |           |            |               |  |
|---------------------------|------|--------------|------|------------|--------|-------------|------|-----------|------------|---------------|--|
| SampleID: 21081266-007DMS |      |              |      |            |        |             |      |           |            |               |  |
| Analyses                  | Cert | RL           | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Mercury                   |      | 0.00020      |      | 0.00493    | 0.0050 | 0           | 98.5 | 75        | 125        | 09/16/2021    |  |

| Batch 181879               |  | SampType: MSD |         | Units mg/L |         |        |             | RPD Limit: 15 |             |      |               |
|----------------------------|--|---------------|---------|------------|---------|--------|-------------|---------------|-------------|------|---------------|
| SampleID: 21081266-007DMSD |  |               |         |            |         |        |             |               |             |      |               |
| Analyses                   |  | Cert          | RL      | Qual       | Result  | Spike  | SPK Ref Val | %REC          | RPD Ref Val | %RPD | Date Analyzed |
| Mercury                    |  |               | 0.00020 |            | 0.00485 | 0.0050 | 0           | 96.9          | 0.004927    | 1.63 | 09/16/2021    |

| Batch 181879              |      | SampType: MS |      | Units mg/L |        |             |       |           |            |               |  |
|---------------------------|------|--------------|------|------------|--------|-------------|-------|-----------|------------|---------------|--|
| SampleID: 21081266-041CMS |      |              |      |            |        |             |       |           |            |               |  |
| Analyses                  | Cert | RL           | Qual | Result     | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |  |
| Mercury                   |      | 0.00020      |      | 0.00501    | 0.0050 | 0           | 100.2 | 75        | 125        | 09/16/2021    |  |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081266

Client Project: Hennepin GW Q3 2021

Report Date: 15-Oct-21

### SW-846 7470A (TOTAL)

| Batch 181879             |  | SampType: MSD |         | Units mg/L |         |        |             | RPD Limit: 15 |             |      |               |
|--------------------------|--|---------------|---------|------------|---------|--------|-------------|---------------|-------------|------|---------------|
| SampID: 21081266-041CMSD |  |               |         |            |         |        |             |               |             |      |               |
| Analyses                 |  | Cert          | RL      | Qual       | Result  | Spike  | SPK Ref Val | %REC          | RPD Ref Val | %RPD | Date Analyzed |
| Mercury                  |  |               | 0.00020 |            | 0.00494 | 0.0050 | 0           | 98.7          | 0.005009    | 1.48 | 09/16/2021    |

| Batch 181944        |      | SampType: MBLK |      | Units mg/L |        |             |      |           |            |               |
|---------------------|------|----------------|------|------------|--------|-------------|------|-----------|------------|---------------|
| SampID: MBLK-181944 |      |                |      |            |        |             |      |           |            |               |
| Analyses            | Cert | RL             | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
| Mercury             |      | 0.00020        |      | < 0.00020  | 0.0001 | 0           | 0    | -100      | 100        | 09/18/2021    |
| Mercury             |      | 0.00020        |      | < 0.00020  | 0.0001 | 0           | 0    | -100      | 100        | 09/18/2021    |

| Batch 181944       |      | SampType: LCS |      | Units mg/L |        |             |      |           |            |            |               |
|--------------------|------|---------------|------|------------|--------|-------------|------|-----------|------------|------------|---------------|
| SampID: LCS-181944 |      |               |      |            |        |             |      |           |            |            | Date Analyzed |
| Analyses           | Cert | RL            | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit |            |               |
| Mercury            |      | 0.00020       |      | 0.00497    | 0.0050 | 0           | 99.3 | 85        | 115        | 09/17/2021 |               |

| Batch 181945        |      | SampType: MBLK |      | Units mg/L |        |             |      |           |            |               |  |
|---------------------|------|----------------|------|------------|--------|-------------|------|-----------|------------|---------------|--|
| SampID: MBLK-181945 |      |                |      |            |        |             |      |           |            |               |  |
| Analyses            | Cert | RL             | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Mercury             |      | 0.00020        |      | < 0.00020  | 0.0001 | 0           | 0    | -100      | 100        | 09/17/2021    |  |

| Batch 181945       |      | SampType: LCS |      | Units mg/L |        |             |       |           |            |               |  |
|--------------------|------|---------------|------|------------|--------|-------------|-------|-----------|------------|---------------|--|
| SampID: LCS-181945 |      |               |      |            |        |             |       |           |            |               |  |
| Analyses           | Cert | RL            | Qual | Result     | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |  |
| Mercury            |      | 0.00020       |      | 0.00505    | 0.0050 | 0           | 101.0 | 85        | 115        | 09/17/2021    |  |

| Batch 181945            |      | SampType: MS |      | Units mg/L |        |             |      |           |            |               |  |
|-------------------------|------|--------------|------|------------|--------|-------------|------|-----------|------------|---------------|--|
| SampID: 21081266-032CMS |      |              |      |            |        |             |      |           |            |               |  |
| Analyses                | Cert | RL           | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Mercury                 |      | 0.00020      |      | 0.00468    | 0.0050 | 0           | 93.7 | 75        | 125        | 09/17/2021    |  |

| Batch 181945             |  | SampType: MSD |         | Units mg/L |         |        |             | RPD Limit: 15 |             |      |               |
|--------------------------|--|---------------|---------|------------|---------|--------|-------------|---------------|-------------|------|---------------|
| SampID: 21081266-032CMSD |  |               |         |            |         |        |             |               |             |      |               |
| Analyses                 |  | Cert          | RL      | Qual       | Result  | Spike  | SPK Ref Val | %REC          | RPD Ref Val | %RPD | Date Analyzed |
| Mercury                  |  |               | 0.00020 |            | 0.00459 | 0.0050 | 0           | 91.9          | 0.004684    | 1.94 | 09/17/2021    |



## Receiving Check List

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081266

Client Project: Hennepin GW Q3 2021

Report Date: 15-Oct-21

Carrier: Joe Riley

Received By: MEK

Completed by:

On:

10-Sep-21

Mary E. Kemp

Reviewed by:

On:

10-Sep-21

Elizabeth A. Hurley

Pages to follow:

Chain of custody

4

Extra pages included

0

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Temp °C

2.8

Type of thermal preservation?

None ☐

Ice ☒

Blue Ice ☐

Dry Ice

☐

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Reported field parameters measured:

Field ☒

Lab ☐

NA ☐

Container/Temp Blank temperature in compliance?

Yes ☒

No ☐

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water – at least one vial per sample has zero headspace?

Yes ☒

No ☐

No VOA vials ☐

Water - TOX containers have zero headspace?

Yes ☐

No ☐

No TOX containers ☒

Water - pH acceptable upon receipt?

Yes ☐

No ☒

NA ☐

NPDES/CWA TCN interferences checked/treated in the field?

Yes ☐

No ☐

NA ☒

Any No responses must be detailed below or on the COC.

pH strip #77366/75846. - ERH/MKemp - 9/10/2021 4:45:11 PM

Additional nitric acid (78237) was needed in 02, 08, 08D, 32, and 51, and additional sodium hydroxide (78386) was needed in all samples for cyanide analysis but the Field Blank upon arrival at the laboratory. - ERH/MKemp - 9/10/2021 4:45:27 PM

# CHAIN OF CUSTODY

Pg 1 of 1 Workorder # 21081266

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

HS<sup>ok</sup> vial 10

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |                                                      |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |                                                                                                                                                                                      |       |     |      |        |     |       |                 |           |               |          |           |                  |              |         |        |               |        |         |      |             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------------------------------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----|------|--------|-----|-------|-----------------|-----------|---------------|----------|-----------|------------------|--------------|---------|--------|---------------|--------|---------|------|-------------|
| Client: <u>Vistra Energy</u><br>Address: <u>1500 Eastport Plaza Drive</u><br>City/State/Zip: <u>Collinsville, IL 62234</u><br>Contact: <u>Brian Voelker</u> Phone: <u>(217) 412-6605</u><br>Email: <u>brian.voelker@vistraenergy.com</u> Fax: _____                                                                                                                                                                                                                                 |              |                                                      |             | Samples on: <input checked="" type="checkbox"/> ICE <input type="checkbox"/> BLUE ICE <input type="checkbox"/> NO ICE <u>2.8</u> °C LTG# <u>5</u><br>Preserved in: <input checked="" type="checkbox"/> LAB <input type="checkbox"/> FIELD <u>FOR LAB USE ONLY</u><br>LAB NOTES: <u>ANDs (78237) to 02, 08, 08D, 32, 51</u><br><u>NaOH (78380) to all but FB 77300 / 75840</u><br>Client Comments: _____<br>Field measurements required: pH, conductivity, temperature, ORP, DO, turbidity, and depths<br>Metals determined by program requirements. |      |                                                                                                                                                                                      |       |     |      |        |     |       |                 |           |               |          |           |                  |              |         |        |               |        |         |      |             |
| Are these samples known to be involved in litigation? If yes, a surcharge will apply: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Are these samples known to be hazardous? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Are there any required reporting limits to be met on the requested analysis? If yes, please provide limits in the comment section: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |              |                                                      |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |                                                                                                                                                                                      |       |     |      |        |     |       |                 |           |               |          |           |                  |              |         |        |               |        |         |      |             |
| PROJECT NAME/NUMBER<br><u>Hennepin GW Q3 2021</u>                                                                                                                                                                                                                                                                                                                                                                                                                                   |              | SAMPLE COLLECTOR'S NAME<br><u>J. RILEY J. WILSON</u> |             | # and Type of Containers<br>UNP HNO3 NaOH H2SO4 HCL MeOH NaHSO4 TSP Other                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      | INDICATE ANALYSIS REQUESTED<br>(T) Cl, SO4, F- Total TDS Diss. Cl, SO4 Diss. F- Diss. TDS Total Alkalinity Bicarb/Carb. Nitrate Metals Total Cyanide Phenol Ammonia BTEX Perchlorate |       |     |      |        |     |       |                 |           |               |          |           |                  |              |         |        |               |        |         |      |             |
| RESULTS REQUESTED<br><input checked="" type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge)<br><input type="checkbox"/> Other _____ <input type="checkbox"/> 3 Day (50% Surcharge)                                                                                                                                                                                                                                                                          |              | BILLING INSTRUCTIONS<br><u>Vistra PO#s</u>           |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |                                                                                                                                                                                      |       |     |      |        |     |       |                 |           |               |          |           |                  |              |         |        |               |        |         |      |             |
| Lab Use Only                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Sample ID    | Date/Time Sampled                                    | Matrix      | UNP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | HNO3 | NaOH                                                                                                                                                                                 | H2SO4 | HCL | MeOH | NaHSO4 | TSP | Other | (T) Cl, SO4, F- | Total TDS | Diss. Cl, SO4 | Diss. F- | Diss. TDS | Total Alkalinity | Bicarb/Carb. | Nitrate | Metals | Total Cyanide | Phenol | Ammonia | BTEX | Perchlorate |
| 21081266-001                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 02           | 9/9/21 1503                                          | Groundwater | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1    | 1                                                                                                                                                                                    |       | 3   |      |        |     |       |                 | ✓         | ✓             | ✓        | ✓         | ✓                | ✓            | ✓       | ✓      | ✓             | ✓      | ✓       | ✓    | ✓           |
| 002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 03R          | 9/10/21 0934                                         | Groundwater | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2    | 1                                                                                                                                                                                    |       | 3   |      |        |     |       |                 | ✓         | ✓             | ✓        | ✓         | ✓                | ✓            | ✓       | ✓      | ✓             | ✓      | ✓       | ✓    | ✓           |
| 003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 04R          | 9/9/21 1521                                          | Groundwater | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1    | 1                                                                                                                                                                                    |       |     |      |        |     |       |                 | ✓         | ✓             | ✓        | ✓         | ✓                | ✓            | ✓       | ✓      | ✓             | ✓      | ✓       | ✓    | ✓           |
| 004                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 05DR         | 9/10/21 0934                                         | Groundwater | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2    | 1                                                                                                                                                                                    | 2     |     |      |        |     |       |                 | ✓         | ✓             | ✓        | ✓         | ✓                | ✓            | ✓       | ✓      | ✓             | ✓      | ✓       | ✓    | ✓           |
| 005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 05R          | 9/10/21 0920                                         | Groundwater | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2    | 1                                                                                                                                                                                    | 2     |     |      |        |     |       |                 | ✓         | ✓             | ✓        | ✓         | ✓                | ✓            | ✓       | ✓      | ✓             | ✓      | ✓       | ✓    | ✓           |
| 006                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 06           | 9/10/21 1010                                         | Groundwater | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1    | 1                                                                                                                                                                                    |       |     |      |        |     |       |                 | ✓         | ✓             | ✓        | ✓         | ✓                | ✓            | ✓       | ✓      | ✓             | ✓      | ✓       | ✓    | ✓           |
| 007                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 07           | 9/9/21 1708                                          | Groundwater | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2    | 1                                                                                                                                                                                    |       | 3   |      |        |     |       |                 | ✓         | ✓             | ✓        | ✓         | ✓                | ✓            | ✓       | ✓      | ✓             | ✓      | ✓       | ✓    | ✓           |
| 008                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 08           | 9/9/21 1433                                          | Groundwater | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2    | 1                                                                                                                                                                                    | 2     | 3   |      |        |     |       |                 | ✓         | ✓             | ✓        | ✓         | ✓                | ✓            | ✓       | ✓      | ✓             | ✓      | ✓       | ✓    | ✓           |
| 009                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 08 Duplicate | 9/9/21 1433                                          | Groundwater | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2    | 1                                                                                                                                                                                    | 2     | 3   |      |        |     |       |                 | ✓         | ✓             | ✓        | ✓         | ✓                | ✓            | ✓       | ✓      | ✓             | ✓      | ✓       | ✓    | ✓           |
| 010                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 08D          | 9/9/21 1411                                          | Groundwater | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2    | 1                                                                                                                                                                                    | 2     | 3   |      |        |     |       |                 | ✓         | ✓             | ✓        | ✓         | ✓                | ✓            | ✓       | ✓      | ✓             | ✓      | ✓       | ✓    | ✓           |
| 011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 10           | 9/9/21 1140                                          | Groundwater | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2    | 1                                                                                                                                                                                    | 2     | 3   |      |        |     |       |                 | ✓         | ✓             | ✓        | ✓         | ✓                | ✓            | ✓       | ✓      | ✓             | ✓      | ✓       | ✓    | ✓           |
| Relinquished By                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              | Date/Time                                            |             | Received By                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      | Date/Time                                                                                                                                                                            |       |     |      |        |     |       |                 |           |               |          |           |                  |              |         |        |               |        |         |      |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              | 9/10/21 1425                                         |             | Mang Lamp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      | 9/10/21 1425                                                                                                                                                                         |       |     |      |        |     |       |                 |           |               |          |           |                  |              |         |        |               |        |         |      |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |                                                      |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |                                                                                                                                                                                      |       |     |      |        |     |       |                 |           |               |          |           |                  |              |         |        |               |        |         |      |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |                                                      |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |                                                                                                                                                                                      |       |     |      |        |     |       |                 |           |               |          |           |                  |              |         |        |               |        |         |      |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |                                                      |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |                                                                                                                                                                                      |       |     |      |        |     |       |                 |           |               |          |           |                  |              |         |        |               |        |         |      |             |

EH  
9/10/21

\*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See [www.teklabinc.com](http://www.teklabinc.com) for terms and conditions

CoC Rev C Aug 2020

EH  
9/10/21

Pg 2 of 4 Workorder # 21081266

Client: Vistra Energy  
Address: 1500 Eastport Plaza Drive  
City/State/Zip: Collinsville, IL 62234  
Contact: Brian Voelker Phone: (217) 412-6605  
Email: brian.voelker@vistraenergy.com Fax:

Preserved in: ☐ LAB ☐ FIELD **FOR LAB USE ONLY**

**Client Comments:**

Field measurements required: pH, conductivity, temperature, ORP, DO, turbidity, and depths  
Metals determined by program requirements.

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☒ No

Are these samples known to be hazardous? ☐ Yes ☒ No

Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☐ Yes ☒ No

|                     |                     |
|---------------------|---------------------|
| PROJECT NAME/NUMBER | Hennepin GW Q3 2021 |
|---------------------|---------------------|

SAMPLE COLLECTOR'S NAME

| # | Type of Containers |
|---|--------------------|
| 1 | 100% Plastic       |
| 2 | 100% Metal         |
| 3 | 100% Glass         |
| 4 | 100% Paper         |
| 5 | 100% Composite     |
| 6 | 100% Other         |
| 7 | Other              |

**INDICATE ANALYSIS REQUESTED**

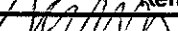
**RESULTS REQUESTED**

☒ Standard      ☐ 1-2 Day (100% Surcharge)

☐ Other      ☐ 3 Day (50% Surcharge)

**BILLING INSTRUCTIONS**  
**Vistra PO#s**

[illegible]

|                                                                                     |              |
|-------------------------------------------------------------------------------------|--------------|
| Relinquished By                                                                     | Date/Time    |
|  | 9/10/21 1425 |
|                                                                                     |              |
|                                                                                     |              |
|                                                                                     |              |
|                                                                                     |              |

| Received By | Date/Time    |
|-------------|--------------|
| Mang Kamp   | 9/10/21 1425 |
|             |              |
|             |              |
|             |              |
|             |              |

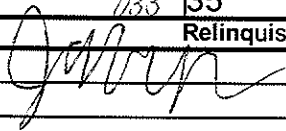
\*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See [www.teklabinc.com](http://www.teklabinc.com) for terms and conditions

CoC Rev C Aug 2020

# CHAIN OF CUSTODY

Pg 3 of 4 Workorder # 21081266

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |                                            |             |                                                                                                                                                                                                                                                         |   |                                                                                                                                                             |  |                                  |  |  |  |  |  |  |  |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------------------------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------|--|--|--|--|--|--|--|--|--|--|
| Client: <u>Vistra Energy</u><br>Address: <u>1500 Eastport Plaza Drive</u><br>City/State/Zip: <u>Collinsville, IL 62234</u><br>Contact: <u>Brian Voelker</u> Phone: <u>(217) 412-6605</u><br>Email: <u>brian.voelker@vistraenergy.com</u> Fax: _____                                                                                                                                                                                                                                 |           |                                            |             | Samples on: <input type="checkbox"/> ICE <input type="checkbox"/> BLUE ICE <input type="checkbox"/> NO ICE _____ °C LTG# _____<br>Preserved in: <input type="checkbox"/> LAB <input type="checkbox"/> FIELD <u>FOR LAB USE ONLY</u><br>LAB NOTES: _____ |   |                                                                                                                                                             |  |                                  |  |  |  |  |  |  |  |  |  |  |
| Are these samples known to be involved in litigation? If yes, a surcharge will apply: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Are these samples known to be hazardous? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Are there any required reporting limits to be met on the requested analysis? If yes, please provide limits in the comment section: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |           |                                            |             | Client Comments:<br>Field measurements required: pH, conductivity, temperature, ORP, DO, turbidity, and depths<br>Depths only: 25, 26, 30, 31, and 33<br>Metals determined by program requirements.                                                     |   |                                                                                                                                                             |  |                                  |  |  |  |  |  |  |  |  |  |  |
| PROJECT NAME/NUMBER<br><u>Hennepin GW Q3 2021</u>                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | SAMPLE COLLECTOR'S NAME<br>_____           |             | # and Type of Containers<br>UNP HNO3 NaOH H2SO4 HCL MeOH NaHSO4 TSP Other                                                                                                                                                                               |   | INDICATE ANALYSIS REQUESTED<br>Total TDS Diss. SO4, F- Diss. TDS Total Alkalinity Bicarb/Carb. Nitrate Metals Total Cyanide Phenol Ammonia BTEX Perchlorate |  |                                  |  |  |  |  |  |  |  |  |  |  |
| RESULTS REQUESTED<br><input checked="" type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge)<br><input type="checkbox"/> Other _____ <input type="checkbox"/> 3 Day (50% Surcharge)                                                                                                                                                                                                                                                                          |           | BILLING INSTRUCTIONS<br><u>Vistra PO#s</u> |             |                                                                                                                                                                                                                                                         |   |                                                                                                                                                             |  |                                  |  |  |  |  |  |  |  |  |  |  |
| Lab Use Only                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Sample ID | Date/Time Sampled                          | Matrix      |                                                                                                                                                                                                                                                         |   |                                                                                                                                                             |  |                                  |  |  |  |  |  |  |  |  |  |  |
| 21081266-023                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 22D       | 9/8/21 1401                                | Groundwater | 2                                                                                                                                                                                                                                                       | 2 |                                                                                                                                                             |  |                                  |  |  |  |  |  |  |  |  |  |  |
| 024                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 23        | 9/9/21 1112                                | Groundwater | 2                                                                                                                                                                                                                                                       | 2 |                                                                                                                                                             |  |                                  |  |  |  |  |  |  |  |  |  |  |
| 025                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 25        | 9/8/21 1625                                | Groundwater |                                                                                                                                                                                                                                                         |   |                                                                                                                                                             |  |                                  |  |  |  |  |  |  |  |  |  |  |
| 026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 26        | 9/8/21 1616                                | Groundwater |                                                                                                                                                                                                                                                         |   |                                                                                                                                                             |  |                                  |  |  |  |  |  |  |  |  |  |  |
| 027                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 27        | 9/9/21 0824                                | Groundwater | 2                                                                                                                                                                                                                                                       | 2 |                                                                                                                                                             |  |                                  |  |  |  |  |  |  |  |  |  |  |
| 028                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 30        | 9/8/21 1455                                | Groundwater |                                                                                                                                                                                                                                                         |   |                                                                                                                                                             |  |                                  |  |  |  |  |  |  |  |  |  |  |
| 029                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 31        | 9/8/21 1456                                | Groundwater |                                                                                                                                                                                                                                                         |   |                                                                                                                                                             |  |                                  |  |  |  |  |  |  |  |  |  |  |
| 030                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 32        | 9/9/21 0848                                | Groundwater | 2                                                                                                                                                                                                                                                       | 2 |                                                                                                                                                             |  |                                  |  |  |  |  |  |  |  |  |  |  |
| 031                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 33        | 9/8/21 1508                                | Groundwater |                                                                                                                                                                                                                                                         |   |                                                                                                                                                             |  |                                  |  |  |  |  |  |  |  |  |  |  |
| 032                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 34        | 9/9/21 0935                                | Groundwater | 2                                                                                                                                                                                                                                                       | 2 |                                                                                                                                                             |  |                                  |  |  |  |  |  |  |  |  |  |  |
| 033                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 35        | 9/8/21 1602                                | Groundwater | 2                                                                                                                                                                                                                                                       | 2 |                                                                                                                                                             |  |                                  |  |  |  |  |  |  |  |  |  |  |
| Relinquished By<br>                                                                                                                                                                                                                                                                                                                                                                              |           | Date/Time<br><u>9/10/21 1425</u>           |             | Received By<br><u>Mary Kemp</u>                                                                                                                                                                                                                         |   |                                                                                                                                                             |  | Date/Time<br><u>9/10/21 1425</u> |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |                                            |             |                                                                                                                                                                                                                                                         |   |                                                                                                                                                             |  |                                  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |                                            |             |                                                                                                                                                                                                                                                         |   |                                                                                                                                                             |  |                                  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |                                            |             |                                                                                                                                                                                                                                                         |   |                                                                                                                                                             |  |                                  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |                                            |             |                                                                                                                                                                                                                                                         |   |                                                                                                                                                             |  |                                  |  |  |  |  |  |  |  |  |  |  |

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# CHAIN OF CUSTODY

Pg 4 of 4 Workorder # 21081266

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: Vistra Energy  
 Address: 1500 Eastport Plaza Drive  
 City/State/Zip: Collinsville, IL 62234  
 Contact: Brian Voelker Phone: (217) 412-6605  
 Email: brian.voelker@vistraenergy.com Fax:

Samples on: ☐ ICE ☐ BLUE ICE ☐ NO ICE °C LTG# \_\_\_\_\_  
 Preserved in: ☐ LAB ☐ FIELD **FOR LAB USE ONLY**  
 LAB NOTES:

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☒ No  
 Are these samples known to be hazardous? ☐ Yes ☒ No  
 Are there any required reporting limits to be met on the requested analysis? If yes, please provide limits in the comment section: ☐ Yes ☒ No

Client Comments:  
 Field measurements required: pH, conductivity, temperature, ORP, DO, turbidity, and depths  
 Depths only: 36  
 Metals determined by program requirements.

PROJECT NAME/NUMBER: Hennepin GW Q3 2021  
 SAMPLE COLLECTOR'S NAME: \_\_\_\_\_  
 RESULTS REQUESTED: ☒ Standard ☐ 1-2 Day (100% Surcharge) ☐ Other \_\_\_\_\_  
 BILLING INSTRUCTIONS: Vistra PO#s  
☐ 3 Day (50% Surcharge)

| # and Type of Containers |      |      |       |     |      |        |     |       | INDICATE ANALYSIS REQUESTED |           |          |               |           |                  |              |         |        |               |        |         |      |             |
|--------------------------|------|------|-------|-----|------|--------|-----|-------|-----------------------------|-----------|----------|---------------|-----------|------------------|--------------|---------|--------|---------------|--------|---------|------|-------------|
| UNP                      | HNO3 | NaOH | H2SO4 | HCL | MeOH | NaHSO4 | TSP | Other | (T) Cl, SO4, F-             | Total TDS | Diss. Cl | Diss. SO4, F- | Diss. TDS | Total Alkalinity | Bicarb/Carb. | Nitrate | Metals | Total Cyanide | Phenol | Ammonia | BTEX | Perchlorate |
| 2                        | 2    | 1    | 2     |     |      |        |     |       | ✓                           | ✓         | ✓        | ✓             | ✓         |                  | ✓            | ✓       | ✓      | ✓             | ✓      | ✓       | ✓    | ✓           |
| 3                        | 2    | 1    |       | 3   |      |        |     |       | ✓                           | ✓         | ✓        |               |           |                  | ✓            | ✓       | ✓      | ✓             |        |         | ✓    | ✓           |
| 1                        | 1    |      |       |     |      |        |     |       | ✓                           | ✓         | ✓        |               |           |                  | ✓            | ✓       | ✓      |               |        |         |      |             |
| 1                        | 1    |      |       |     |      |        |     |       | ✓                           | ✓         | ✓        |               |           |                  | ✓            | ✓       | ✓      |               |        |         |      |             |
| 2                        | 2    |      |       |     |      |        |     |       | ✓                           | ✓         | ✓        | ✓             |           |                  | ✓            | ✓       | ✓      |               |        |         |      |             |
| 2                        | 2    |      |       |     |      |        |     |       | ✓                           | ✓         | ✓        | ✓             |           |                  | ✓            | ✓       | ✓      |               |        |         |      |             |
| 2                        | 2    |      |       |     |      |        |     |       | ✓                           | ✓         | ✓        | ✓             |           |                  | ✓            | ✓       | ✓      |               |        |         |      |             |
| 3                        | 2    | 1    | 2     | 3   |      |        |     |       | ✓                           | ✓         | ✓        | ✓             | ✓         | ✓                | ✓            | ✓       | ✓      | ✓             | ✓      | ✓       | ✓    | ✓           |

| Lab Use Only | Sample ID   | Date/Time Sampled | Matrix      |
|--------------|-------------|-------------------|-------------|
| 21081266-034 | 36          | 9/8/21 1619       | Groundwater |
| 035          | 40S         | 9/9/21 1626       | Groundwater |
| 036          | 45S         | 9/9/21 1024       | Groundwater |
| 037          | 46          | 9/9/21 1501       | Groundwater |
| 038          | 47          | 9/9/21 1203       | Groundwater |
| 039          | 48          | 9/10/21 0955      | Groundwater |
| 040          | 49          | 9/8/21 1635       | Groundwater |
| 041          | 50          | 9/8/21 1313       | Groundwater |
| 042          | 51          | 9/9/21 1044       | Groundwater |
| 043          | Field Blank | 9/10/21 1045      | Groundwater |
|              |             |                   | Groundwater |

Relinquished By: [Signature] Date/Time: 9/10/21 1425

Received By: Mary Lup Date/Time: 9/10/21 1425

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October 12, 2021

Steve Wiskes  
Ramboll  
234 W. Florida St.  
5th Floor  
Milwaukee, WI 53204  
TEL: (414) 837-3614  
FAX:



|           |         |
|-----------|---------|
| Illinois  | 100226  |
| Kansas    | E-10374 |
| Louisiana | 05002   |
| Louisiana | 05003   |
| Oklahoma  | 9978    |

**RE:** Hennepin CCR Q3 2021

**WorkOrder:** 21081267

Dear Steve Wiskes:

TEKLAB, INC received 30 samples on 9/10/2021 2:25:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Elizabeth A. Hurley  
Project Manager  
(618)344-1004 ex 33  
[ehurley@teklabinc.com](mailto:ehurley@teklabinc.com)

**Client:** Ramboll

**Work Order:** 21081267

**Client Project:** Hennepin CCR Q3 2021

**Report Date:** 12-Oct-21

**This reporting package includes the following:**

|                      |          |
|----------------------|----------|
| Cover Letter         | 1        |
| Report Contents      | 2        |
| Definitions          | 3        |
| Case Narrative       | 5        |
| Accreditations       | 6        |
| Laboratory Results   | 7        |
| Sample Summary       | 19       |
| Dates Report         | 20       |
| Receiving Check List | 21       |
| Chain of Custody     | Appended |

**Client:** Ramboll**Work Order:** 21081267**Client Project:** Hennepin CCR Q3 2021**Report Date:** 12-Oct-21**Abbr Definition**

\* Analytes on report marked with an asterisk are not NELAP accredited

CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.

CRQL A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.

DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.

DNI Did not ignite

DUP Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.

ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.

IDPH IL Dept. of Public Health

LCS Laboratory control sample is a sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.

LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).

MBLK Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.

MDL "The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."

MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).

MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).

MW Molecular weight

NC Data is not acceptable for compliance purposes

ND Not Detected at the Reporting Limit

NELAP NELAP Accredited

PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.

RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.

RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).

SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.

Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.

TIC Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"

TNTC Too numerous to count (> 200 CFU)

**Client:** Ramboll

**Work Order:** 21081267

**Client Project:** Hennepin CCR Q3 2021

**Report Date:** 12-Oct-21

### Qualifiers

- |                                                       |                                                              |
|-------------------------------------------------------|--------------------------------------------------------------|
| # - Unknown hydrocarbon                               | B - Analyte detected in associated Method Blank              |
| C - RL shown is a Client Requested Quantitation Limit | E - Value above quantitation range                           |
| H - Holding times exceeded                            | I - Associated internal standard was outside method criteria |
| J - Analyte detected below quantitation limits        | M - Manual Integration used to determine area response       |
| ND - Not Detected at the Reporting Limit              | R - RPD outside accepted recovery limits                     |
| S - Spike Recovery outside recovery limits            | T - TIC(Tentatively identified compound)                     |
| X - Value exceeds Maximum Contaminant Level           |                                                              |



## Case Narrative

<http://www.teklabinc.com/>

**Client:** Ramboll

**Work Order:** 21081267

**Client Project:** Hennepin CCR Q3 2021

**Report Date:** 12-Oct-21

**Cooler Receipt Temp:** 2.8 °C

An employee of Teklab, Inc. collected the sample(s).

45S was not collected due to field error; the sample will be collected at a later date. EAH 9/13/21

05DR, 08D, and 12 were lost in transit and recollected for reporting on a separate WO#. (ehurley - 9/30/2021 1:35:31 PM)

Radium-226 and Radium-228 analysis was performed by Pace Analytical Services, LLC. See attached report for results.

This report contains CCR 802 data. EAH 10/12/21

### Locations

#### Collinsville

**Address** 5445 Horseshoe Lake Road  
Collinsville, IL 62234-7425  
**Phone** (618) 344-1004  
**Fax** (618) 344-1005  
**Email** jhriley@teklabinc.com

#### Collinsville Air

**Address** 5445 Horseshoe Lake Road  
Collinsville, IL 62234-7425  
**Phone** (618) 344-1004  
**Fax** (618) 344-1005  
**Email** EHurley@teklabinc.com

#### Springfield

**Address** 3920 Pintail Dr  
Springfield, IL 62711-9415  
**Phone** (217) 698-1004  
**Fax** (217) 698-1005  
**Email** KKlostermann@teklabinc.com

#### Chicago

**Address** 1319 Butterfield Rd.  
Downers Grove, IL 60515  
**Phone** (630) 324-6855  
**Fax**  
**Email** arenner@teklabinc.com

#### Kansas City

**Address** 8421 Nieman Road  
Lenexa, KS 66214  
**Phone** (913) 541-1998  
**Fax** (913) 541-1998  
**Email** jhriley@teklabinc.com



**Client:** Ramboll**Work Order:** 21081267**Client Project:** Hennepin CCR Q3 2021**Report Date:** 12-Oct-21

| State     | Dept | Cert #  | NELAP | Exp Date  | Lab          |
|-----------|------|---------|-------|-----------|--------------|
| Illinois  | IEPA | 100226  | NELAP | 1/31/2022 | Collinsville |
| Kansas    | KDHE | E-10374 | NELAP | 4/30/2022 | Collinsville |
| Louisiana | LDEQ | 05002   | NELAP | 6/30/2022 | Collinsville |
| Louisiana | LDEQ | 05003   | NELAP | 6/30/2022 | Collinsville |
| Oklahoma  | ODEQ | 9978    | NELAP | 8/31/2022 | Collinsville |
| Arkansas  | ADEQ | 88-0966 |       | 3/14/2022 | Collinsville |
| Illinois  | IDPH | 17584   |       | 5/31/2021 | Collinsville |
| Kentucky  | UST  | 0073    |       | 1/31/2022 | Collinsville |
| Missouri  | MDNR | 00930   |       | 5/31/2021 | Collinsville |
| Missouri  | MDNR | 930     |       | 1/31/2022 | Collinsville |

**Client:** Ramboll  
**Client Project:** Hennepin CCR Q3 2021  
**Lab ID:** 21081267-001  
**Matrix:** GROUNDWATER

**Work Order:** 21081267  
**Report Date:** 12-Oct-21  
**Client Sample ID:** 03R  
**Collection Date:** 09/10/2021 9:34

| Analyses                               | Certification | RL | Qual | Result       | Units | DF | Date Analyzed   | Batch   |
|----------------------------------------|---------------|----|------|--------------|-------|----|-----------------|---------|
| <b>EPA 903.0/904.0, RADIUM 226/228</b> |               |    |      |              |       |    |                 |         |
| Radium-226                             | *             | 0  |      | See Attached | pci/L | 1  | 09/22/2021 0:00 | R299679 |
| Radium-228                             | *             | 0  |      | See Attached | pci/L | 1  | 09/22/2021 0:00 | R299679 |



## Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll  
Client Project: Hennepin CCR Q3 2021  
Lab ID: 21081267-003  
Matrix: GROUNDWATER

Work Order: 21081267  
Report Date: 12-Oct-21  
Client Sample ID: 05R  
Collection Date: 09/10/2021 8:20

| Analyses                               | Certification | RL | Qual | Result       | Units | DF | Date Analyzed   | Batch   |
|----------------------------------------|---------------|----|------|--------------|-------|----|-----------------|---------|
| <b>EPA 903.0/904.0, RADIUM 226/228</b> |               |    |      |              |       |    |                 |         |
| Radium-226                             | *             | 0  |      | See Attached | pci/L | 1  | 09/22/2021 0:00 | R299679 |
| Radium-228                             | *             | 0  |      | See Attached | pci/L | 1  | 09/22/2021 0:00 | R299679 |



## Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll  
Client Project: Hennepin CCR Q3 2021  
Lab ID: 21081267-004  
Matrix: GROUNDWATER

Work Order: 21081267  
Report Date: 12-Oct-21  
Client Sample ID: 07  
Collection Date: 09/09/2021 17:08

| Analyses                               | Certification | RL | Qual | Result       | Units | DF | Date Analyzed   | Batch   |
|----------------------------------------|---------------|----|------|--------------|-------|----|-----------------|---------|
| <b>EPA 903.0/904.0, RADIUM 226/228</b> |               |    |      |              |       |    |                 |         |
| Radium-226                             | *             | 0  |      | See Attached | pci/L | 1  | 09/22/2021 0:00 | R299679 |
| Radium-228                             | *             | 0  |      | See Attached | pci/L | 1  | 09/22/2021 0:00 | R299679 |



## Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll  
Client Project: Hennepin CCR Q3 2021  
Lab ID: 21081267-005  
Matrix: GROUNDWATER

Work Order: 21081267  
Report Date: 12-Oct-21  
Client Sample ID: 08  
Collection Date: 09/09/2021 14:33

| Analyses                               | Certification | RL | Qual | Result       | Units | DF | Date Analyzed   | Batch   |
|----------------------------------------|---------------|----|------|--------------|-------|----|-----------------|---------|
| <b>EPA 903.0/904.0, RADIUM 226/228</b> |               |    |      |              |       |    |                 |         |
| Radium-226                             | *             | 0  |      | See Attached | pci/L | 1  | 09/22/2021 0:00 | R299679 |
| Radium-228                             | *             | 0  |      | See Attached | pci/L | 1  | 09/22/2021 0:00 | R299679 |

**Client:** Ramboll  
**Client Project:** Hennepin CCR Q3 2021  
**Lab ID:** 21081267-006  
**Matrix:** GROUNDWATER

**Work Order:** 21081267  
**Report Date:** 12-Oct-21  
**Client Sample ID:** 08 Duplicate  
**Collection Date:** 09/09/2021 14:33

| Analyses                               | Certification | RL | Qual | Result       | Units | DF | Date Analyzed   | Batch   |
|----------------------------------------|---------------|----|------|--------------|-------|----|-----------------|---------|
| <b>EPA 903.0/904.0, RADIUM 226/228</b> |               |    |      |              |       |    |                 |         |
| Radium-226                             | *             | 0  |      | See Attached | pci/L | 1  | 09/22/2021 0:00 | R299679 |
| Radium-228                             | *             | 0  |      | See Attached | pci/L | 1  | 09/22/2021 0:00 | R299679 |





## Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll  
Client Project: Hennepin CCR Q3 2021  
Lab ID: 21081267-010  
Matrix: GROUNDWATER

Work Order: 21081267  
Report Date: 12-Oct-21  
Client Sample ID: 16  
Collection Date: 09/09/2021 13:53

| Analyses                               | Certification | RL | Qual | Result       | Units | DF | Date Analyzed   | Batch   |
|----------------------------------------|---------------|----|------|--------------|-------|----|-----------------|---------|
| <b>EPA 903.0/904.0, RADIUM 226/228</b> |               |    |      |              |       |    |                 |         |
| Radium-226                             | *             | 0  |      | See Attached | pCi/L | 1  | 09/22/2021 0:00 | R299679 |
| Radium-228                             | *             | 0  |      | See Attached | pCi/L | 1  | 09/22/2021 0:00 | R299679 |



## Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll  
Client Project: Hennepin CCR Q3 2021  
Lab ID: 21081267-011  
Matrix: GROUNDWATER

Work Order: 21081267  
Report Date: 12-Oct-21  
Client Sample ID: 17  
Collection Date: 09/09/2021 13:36

| Analyses                               | Certification | RL | Qual | Result       | Units | DF | Date Analyzed   | Batch   |
|----------------------------------------|---------------|----|------|--------------|-------|----|-----------------|---------|
| <b>EPA 903.0/904.0, RADIUM 226/228</b> |               |    |      |              |       |    |                 |         |
| Radium-226                             | *             | 0  |      | See Attached | pci/L | 1  | 09/22/2021 0:00 | R299679 |
| Radium-228                             | *             | 0  |      | See Attached | pci/L | 1  | 09/22/2021 0:00 | R299679 |

**Client:** Ramboll  
**Client Project:** Hennepin CCR Q3 2021  
**Lab ID:** 21081267-012  
**Matrix:** GROUNDWATER

**Work Order:** 21081267  
**Report Date:** 12-Oct-21  
**Client Sample ID:** 18D  
**Collection Date:** 09/10/2021 9:09

| Analyses                               | Certification | RL | Qual | Result       | Units | DF | Date Analyzed   | Batch   |
|----------------------------------------|---------------|----|------|--------------|-------|----|-----------------|---------|
| <b>EPA 903.0/904.0, RADIUM 226/228</b> |               |    |      |              |       |    |                 |         |
| Radium-226                             | *             | 0  |      | See Attached | pci/L | 1  | 09/22/2021 0:00 | R299679 |
| Radium-228                             | *             | 0  |      | See Attached | pci/L | 1  | 09/22/2021 0:00 | R299679 |



## Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 21081267

Client Project: Hennepin CCR Q3 2021

Report Date: 12-Oct-21

Lab ID: 21081267-013

Client Sample ID: 18S

Matrix: GROUNDWATER

Collection Date: 09/10/2021 8:54

| Analyses                               | Certification | RL | Qual | Result       | Units | DF | Date Analyzed   | Batch   |
|----------------------------------------|---------------|----|------|--------------|-------|----|-----------------|---------|
| <b>EPA 903.0/904.0, RADIUM 226/228</b> |               |    |      |              |       |    |                 |         |
| Radium-226                             | *             | 0  |      | See Attached | pci/L | 1  | 09/22/2021 0:00 | R299679 |
| Radium-228                             | *             | 0  |      | See Attached | pci/L | 1  | 09/22/2021 0:00 | R299679 |



## Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll  
Client Project: Hennepin CCR Q3 2021  
Lab ID: 21081267-014  
Matrix: GROUNDWATER

Work Order: 21081267  
Report Date: 12-Oct-21  
Client Sample ID: 19D  
Collection Date: 09/09/2021 16:08

| Analyses                               | Certification | RL | Qual | Result       | Units | DF | Date Analyzed   | Batch   |
|----------------------------------------|---------------|----|------|--------------|-------|----|-----------------|---------|
| <b>EPA 903.0/904.0, RADIUM 226/228</b> |               |    |      |              |       |    |                 |         |
| Radium-226                             | *             | 0  |      | See Attached | pCi/L | 1  | 09/22/2021 0:00 | R299679 |
| Radium-228                             | *             | 0  |      | See Attached | pCi/L | 1  | 09/22/2021 0:00 | R299679 |



## Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll  
Client Project: Hennepin CCR Q3 2021  
Lab ID: 21081267-015  
Matrix: GROUNDWATER

Work Order: 21081267  
Report Date: 12-Oct-21  
Client Sample ID: 19S  
Collection Date: 09/09/2021 15:51

| Analyses                               | Certification | RL | Qual | Result       | Units | DF | Date Analyzed   | Batch   |
|----------------------------------------|---------------|----|------|--------------|-------|----|-----------------|---------|
| <b>EPA 903.0/904.0, RADIUM 226/228</b> |               |    |      |              |       |    |                 |         |
| Radium-226                             | *             | 0  |      | See Attached | pci/L | 1  | 09/22/2021 0:00 | R299679 |
| Radium-228                             | *             | 0  |      | See Attached | pci/L | 1  | 09/22/2021 0:00 | R299679 |



## Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll  
Client Project: Hennepin CCR Q3 2021  
Lab ID: 21081267-030  
Matrix: GROUNDWATER

Work Order: 21081267  
Report Date: 12-Oct-21  
Client Sample ID: Field Blank  
Collection Date: 09/10/2021 10:45

| Analyses                               | Certification | RL | Qual | Result       | Units | DF | Date Analyzed   | Batch   |
|----------------------------------------|---------------|----|------|--------------|-------|----|-----------------|---------|
| <b>EPA 903.0/904.0, RADIUM 226/228</b> |               |    |      |              |       |    |                 |         |
| Radium-226                             | *             | 0  |      | See Attached | pci/L | 1  | 09/23/2021 0:00 | R299679 |
| Radium-228                             | *             | 0  |      | See Attached | pci/L | 1  | 09/23/2021 0:00 | R299679 |



**Client:** Ramboll**Work Order:** 21081267**Client Project:** Hennepin CCR Q3 2021**Report Date:** 12-Oct-21

| Lab Sample ID | Client Sample ID | Matrix      | Fractions | Collection Date  |
|---------------|------------------|-------------|-----------|------------------|
| 21081267-001  | 03R              | Groundwater | 1         | 09/10/2021 9:34  |
| 21081267-002  | 05DR             | Groundwater | 1         | 09/10/2021 8:34  |
| 21081267-003  | 05R              | Groundwater | 1         | 09/10/2021 8:20  |
| 21081267-004  | 07               | Groundwater | 1         | 09/09/2021 17:08 |
| 21081267-005  | 08               | Groundwater | 1         | 09/09/2021 14:33 |
| 21081267-006  | 08 Duplicate     | Groundwater | 1         | 09/09/2021 14:33 |
| 21081267-007  | 08D              | Groundwater | 1         | 09/09/2021 14:11 |
| 21081267-010  | 16               | Groundwater | 1         | 09/09/2021 13:53 |
| 21081267-011  | 17               | Groundwater | 1         | 09/09/2021 13:36 |
| 21081267-012  | 18D              | Groundwater | 1         | 09/10/2021 9:09  |
| 21081267-013  | 18S              | Groundwater | 1         | 09/10/2021 8:54  |
| 21081267-014  | 19D              | Groundwater | 1         | 09/09/2021 16:08 |
| 21081267-015  | 19S              | Groundwater | 1         | 09/09/2021 15:51 |
| 21081267-024  | 45S              | Groundwater | 1         | 09/10/2021 10:24 |
| 21081267-030  | Field Blank      | Groundwater | 1         | 09/10/2021 10:45 |

**Client:** Ramboll

**Work Order:** 21081267

**Client Project:** Hennepin CCR Q3 2021

**Report Date:** 12-Oct-21

| Sample ID     | Client Sample ID                | Collection Date  | Received Date    | Prep Date/Time | Analysis Date/Time |
|---------------|---------------------------------|------------------|------------------|----------------|--------------------|
| Test Name     |                                 |                  |                  |                |                    |
| 21081267-001A | 03R                             | 09/10/2021 9:34  | 09/10/2021 14:25 |                |                    |
|               | EPA 903.0/904.0, Radium 226/228 |                  |                  |                | 09/22/2021 0:00    |
| 21081267-003A | 05R                             | 09/10/2021 8:20  | 09/10/2021 14:25 |                |                    |
|               | EPA 903.0/904.0, Radium 226/228 |                  |                  |                | 09/22/2021 0:00    |
| 21081267-004A | 07                              | 09/09/2021 17:08 | 09/10/2021 14:25 |                |                    |
|               | EPA 903.0/904.0, Radium 226/228 |                  |                  |                | 09/22/2021 0:00    |
| 21081267-005A | 08                              | 09/09/2021 14:33 | 09/10/2021 14:25 |                |                    |
|               | EPA 903.0/904.0, Radium 226/228 |                  |                  |                | 09/22/2021 0:00    |
| 21081267-006A | 08 Duplicate                    | 09/09/2021 14:33 | 09/10/2021 14:25 |                |                    |
|               | EPA 903.0/904.0, Radium 226/228 |                  |                  |                | 09/22/2021 0:00    |
| 21081267-010A | 16                              | 09/09/2021 13:53 | 09/10/2021 14:25 |                |                    |
|               | EPA 903.0/904.0, Radium 226/228 |                  |                  |                | 09/22/2021 0:00    |
| 21081267-011A | 17                              | 09/09/2021 13:36 | 09/10/2021 14:25 |                |                    |
|               | EPA 903.0/904.0, Radium 226/228 |                  |                  |                | 09/22/2021 0:00    |
| 21081267-012A | 18D                             | 09/10/2021 9:09  | 09/10/2021 14:25 |                |                    |
|               | EPA 903.0/904.0, Radium 226/228 |                  |                  |                | 09/22/2021 0:00    |
| 21081267-013A | 18S                             | 09/10/2021 8:54  | 09/10/2021 14:25 |                |                    |
|               | EPA 903.0/904.0, Radium 226/228 |                  |                  |                | 09/22/2021 0:00    |
| 21081267-014A | 19D                             | 09/09/2021 16:08 | 09/10/2021 14:25 |                |                    |
|               | EPA 903.0/904.0, Radium 226/228 |                  |                  |                | 09/22/2021 0:00    |
| 21081267-015A | 19S                             | 09/09/2021 15:51 | 09/10/2021 14:25 |                |                    |
|               | EPA 903.0/904.0, Radium 226/228 |                  |                  |                | 09/22/2021 0:00    |
| 21081267-030A | Field Blank                     | 09/10/2021 10:45 | 09/10/2021 14:25 |                |                    |
|               | EPA 903.0/904.0, Radium 226/228 |                  |                  |                | 09/23/2021 0:00    |



## Receiving Check List

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 21081267

Client Project: Hennepin CCR Q3 2021

Report Date: 12-Oct-21

Carrier: Joseph Riley

Received By: MEK

Completed by:

On:

13-Sep-21

Mary E. Kemp

Reviewed by:

On:

13-Sep-21

Elizabeth A. Hurley

Pages to follow:

Chain of custody

3

Extra pages included

43

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Temp °C 2.8

Type of thermal preservation?

None ☐

Ice ☒

Blue Ice ☐

Dry Ice ☐

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Reported field parameters measured:

Field ☐

Lab ☐

NA ☒

Container/Temp Blank temperature in compliance?

Yes ☒

No ☐

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water – at least one vial per sample has zero headspace?

Yes ☐

No ☐

No VOA vials ☒

Water - TOX containers have zero headspace?

Yes ☐

No ☐

No TOX containers ☒

Water - pH acceptable upon receipt?

Yes ☐

No ☒

NA ☐

NPDES/CWA TCN interferences checked/treated in the field?

Yes ☐

No ☐

NA ☒

Any No responses must be detailed below or on the COC.

pH strip #78237. - MLDII/MKemp - 9/13/2021 8:54:15 AM

Additional nitric acid (78237) was needed in 08 Duplicate, 34, and 51 upon arrival at the laboratory. - MLDII/MKemp - 9/13/2021 8:54:17 AM

# CHAIN OF CUSTODY

Pg 1 of 3 Workorder # 21081267

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

| Client: <u>Ramboll</u><br>Address: <u>234 W. Florida St.</u><br>City/State/Zip: <u>Milwaukee, WI 53204</u><br>Contact: <u>Steve Wiskes</u> Phone: <u>(414) 837-3607</u><br>Email: <u>steve.wiskes@ramboll.com</u> Fax: _____                                                                                                                                                                                                                                                        |                     |                                                      |                    | Samples on: <input checked="" type="checkbox"/> ICE <input type="checkbox"/> BLUE ICE <input type="checkbox"/> NO ICE <u>2-8 °C</u> LTG# <u>1</u><br>Preserved in: <input checked="" type="checkbox"/> LAB <input type="checkbox"/> FIELD <b>FOR LAB USE ONLY</b><br>LAB NOTES: <u>Add H<sub>2</sub>O<sub>2</sub> (75237) to lot 2 34; 2 of 2 O&amp;DUP and 51. M&amp;D 9/10/21</u>                                                                                                                                                                                                                                                                                                  |      |                                  |     |                             |            |            |  |  |  |  |  |  |  |     |      |      |       |     |      |        |     |       |            |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------------------------------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------------------|-----|-----------------------------|------------|------------|--|--|--|--|--|--|--|-----|------|------|-------|-----|------|--------|-----|-------|------------|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Are these samples known to be involved in litigation? If yes, a surcharge will apply: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Are these samples known to be hazardous? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Are there any required reporting limits to be met on the requested analysis? If yes, please provide limits in the comment section: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |                     |                                                      |                    | Client Comments: <u>Bottles for 45S empty upon arrival</u><br>Subcontract to Pace-National <u>mEK 9/10/21</u><br>Program reporting: <u>Closure 802-806, Closure 804, CCR 802, CCR 803, and CCR 804</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |                                  |     |                             |            |            |  |  |  |  |  |  |  |     |      |      |       |     |      |        |     |       |            |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PROJECT NAME/NUMBER<br><u>Hennepin CCR Q3 2021</u>                                                                                                                                                                                                                                                                                                                                                                                                                                  |                     | SAMPLE COLLECTOR'S NAME<br><u>J. RILEY J. WILSON</u> |                    | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="2"># and Type of Containers</th> <th colspan="10">INDICATE ANALYSIS REQUESTED</th> </tr> <tr> <th>UNP</th> <th>HNO3</th> <th>NaOH</th> <th>H2SO4</th> <th>HCL</th> <th>MeOH</th> <th>NaHSO4</th> <th>TSP</th> <th>Other</th> <th>Radium 226</th> <th>Radium 228</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table> |      | # and Type of Containers         |     | INDICATE ANALYSIS REQUESTED |            |            |  |  |  |  |  |  |  | UNP | HNO3 | NaOH | H2SO4 | HCL | MeOH | NaHSO4 | TSP | Other | Radium 226 | Radium 228 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| # and Type of Containers                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                     | INDICATE ANALYSIS REQUESTED                          |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |                                  |     |                             |            |            |  |  |  |  |  |  |  |     |      |      |       |     |      |        |     |       |            |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| UNP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | HNO3                | NaOH                                                 | H2SO4              | HCL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | MeOH | NaHSO4                           | TSP | Other                       | Radium 226 | Radium 228 |  |  |  |  |  |  |  |     |      |      |       |     |      |        |     |       |            |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                                                      |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |                                  |     |                             |            |            |  |  |  |  |  |  |  |     |      |      |       |     |      |        |     |       |            |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| RESULTS REQUESTED<br><input checked="" type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge)<br><input type="checkbox"/> Other _____ <input type="checkbox"/> 3 Day (50% Surcharge)                                                                                                                                                                                                                                                                          |                     | BILLING INSTRUCTIONS<br><u>Vistra PO# 1054896</u>    |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |                                  |     |                             |            |            |  |  |  |  |  |  |  |     |      |      |       |     |      |        |     |       |            |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lab Use Only                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Sample ID           | Date/Time Sampled                                    | Matrix             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |                                  |     |                             |            |            |  |  |  |  |  |  |  |     |      |      |       |     |      |        |     |       |            |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>21081267-001</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <u>03R</u>          | <u>9/10/21 0834</u>                                  | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |                                  |     |                             |            |            |  |  |  |  |  |  |  |     |      |      |       |     |      |        |     |       |            |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>002</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>05DR</u>         | <u>9/10/21 0834</u>                                  | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |                                  |     |                             |            |            |  |  |  |  |  |  |  |     |      |      |       |     |      |        |     |       |            |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>003</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>05R</u>          | <u>9/10/21 0820</u>                                  | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |                                  |     |                             |            |            |  |  |  |  |  |  |  |     |      |      |       |     |      |        |     |       |            |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>004</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>07</u>           | <u>9/9/21 1708</u>                                   | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |                                  |     |                             |            |            |  |  |  |  |  |  |  |     |      |      |       |     |      |        |     |       |            |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>005</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>08</u>           | <u>9/9/21 1433</u>                                   | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |                                  |     |                             |            |            |  |  |  |  |  |  |  |     |      |      |       |     |      |        |     |       |            |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>006</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>08 Duplicate</u> | <u>9/9/21 1433</u>                                   | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |                                  |     |                             |            |            |  |  |  |  |  |  |  |     |      |      |       |     |      |        |     |       |            |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>007</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>08D</u>          | <u>9/9/21 1411</u>                                   | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |                                  |     |                             |            |            |  |  |  |  |  |  |  |     |      |      |       |     |      |        |     |       |            |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>008</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>12</u>           | <u>9/9/21 1241</u>                                   | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |                                  |     |                             |            |            |  |  |  |  |  |  |  |     |      |      |       |     |      |        |     |       |            |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>009</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>13</u>           | <u>9/9/21 1224</u>                                   | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |                                  |     |                             |            |            |  |  |  |  |  |  |  |     |      |      |       |     |      |        |     |       |            |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>010</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>16</u>           | <u>9/9/21 1353</u>                                   | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |                                  |     |                             |            |            |  |  |  |  |  |  |  |     |      |      |       |     |      |        |     |       |            |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>011</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>17</u>           | <u>9/9/21 1336</u>                                   | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |                                  |     |                             |            |            |  |  |  |  |  |  |  |     |      |      |       |     |      |        |     |       |            |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Relinquished By<br><u>[Signature]</u>                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     | Date/Time<br><u>9/10/21 1425</u>                     |                    | Received By<br><u>Mary Kemp</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      | Date/Time<br><u>9/10/21 1425</u> |     |                             |            |            |  |  |  |  |  |  |  |     |      |      |       |     |      |        |     |       |            |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                                                      |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |                                  |     |                             |            |            |  |  |  |  |  |  |  |     |      |      |       |     |      |        |     |       |            |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                                                      |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |                                  |     |                             |            |            |  |  |  |  |  |  |  |     |      |      |       |     |      |        |     |       |            |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                                                      |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |                                  |     |                             |            |            |  |  |  |  |  |  |  |     |      |      |       |     |      |        |     |       |            |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

\*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See [www.teklabinc.com](http://www.teklabinc.com) for terms and conditions

CoC Rev C Aug 2020

Pg 2 of 3 Workorder # 21081267

Client: Ramboll  
Address: 234 W. Florida St.  
City/State/Zip: Milwaukee, WI 53204  
Contact: Steve Wiskes Phone: (414) 837-3607  
Email: steve.wiskes@ramboll.com Fax: \_\_\_\_\_

Samples on: ☐ ICE ☐ BLUE ICE ☐ NO ICE \_\_\_\_\_ °C LTG# \_\_\_\_\_

Preserved in: ☐ LAB ☐ FIELD FOR LAB USE ONLY

**Client Comments:**

Subcontract to Pace-National

Program reporting: Closure 802-806, Closure 804, CCR 802, CCR 803, and CCR 804

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☒ No

Are these samples known to be hazardous? ☐ Yes ☒ No

Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☐ Yes ☒ No

PROJECT NAME/NUMBER

SAMPLE COLLECTOR'S NAME

Hennepin CCR Q3 2021

### RESULTS REQUESTED

☒ Standard

☐ 1-2 Day (100% Surcharge)☐ Other☐ 3 Day (50% Surcharge)

## BILLING INSTRUCTIONS

Vistra PO# 1054896

### # and Type of Containers

**INDICATE ANALYSIS REQUESTED**

| Lab Use Only | Sample ID | Date/Time Sampled | Matrix      |
|--------------|-----------|-------------------|-------------|
| 21081267-012 | 18D       | 9/10/21 0909      | Groundwater |
| 013          | 18S       | 9/10/21 0854      | Groundwater |
| 014          | 19D       | 9/9/21 1608       | Groundwater |
| 015          | 19S       | 9/9/21 1551       | Groundwater |
| 016          | 21R       | 9/9/21 1013       | Groundwater |
| 017          | 22        | 9/9/21 1345       | Groundwater |
| 018          | 22D       | 9/9/21 1401       | Groundwater |
| 019          | 23        | 9/9/21 1112       | Groundwater |
| 020          | 27        | 9/9/21 0829       | Groundwater |
| 021          | 32        | 9/9/21 0848       | Groundwater |
| 022          | 34        | 9/9/21 0835       | Groundwater |

## Relinquished By

Date/Time

Received By

Date/Time

\*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See [www.teklabinc.com](http://www.teklabinc.com) for terms and conditions

CoC Rev C Aug 2020

# CHAIN OF CUSTODY

Pg 3 of 3 Workorder # 21081267

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

| Client: <u>Ramboll</u><br>Address: <u>234 W. Florida St.</u><br>City/State/Zip: <u>Milwaukee, WI 53204</u><br>Contact: <u>Steve Wiskes</u> Phone: <u>(414) 837-3607</u><br>Email: <u>steve.wiskes@ramboll.com</u> Fax: _____                                                                                                                                                                                                                                                        |                    |                                                   |             | Samples on: <input type="checkbox"/> ICE <input type="checkbox"/> BLUE ICE <input type="checkbox"/> NO ICE _____ °C LTG# _____<br>Preserved in: <input type="checkbox"/> LAB <input type="checkbox"/> FIELD <u>FOR LAB USE ONLY</u><br>LAB NOTES: _____                                                                                                                                                                                                                                                                                                                                                                      |      |                                  |      |       |            |            |      |        |     |       |            |            |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------------------|------|-------|------------|------------|------|--------|-----|-------|------------|------------|--|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|---|---|--|--|--|--|--|--|--|--|--|--|
| Are these samples known to be involved in litigation? If yes, a surcharge will apply: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Are these samples known to be hazardous? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Are there any required reporting limits to be met on the requested analysis? If yes, please provide limits in the comment section: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |                    |                                                   |             | Client Comments:<br>Subcontract to Pace-National<br>Program reporting: Closure 802-806, Closure 804, CCR 802, CCR 803, and CCR 804                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                  |      |       |            |            |      |        |     |       |            |            |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |  |
| PROJECT NAME/NUMBER<br><u>Hennepin CCR Q3 2021</u>                                                                                                                                                                                                                                                                                                                                                                                                                                  |                    | SAMPLE COLLECTOR'S NAME<br>_____                  |             | # and Type of Containers<br><table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>UNP</th> <th>HNO3</th> <th>NaOH</th> <th>H2SO4</th> <th>HCL</th> <th>MeOH</th> <th>NaHSO4</th> <th>TSP</th> <th>Other</th> <th>Radium 226</th> <th>Radium 228</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>✓</td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table> |      | UNP                              | HNO3 | NaOH  | H2SO4      | HCL        | MeOH | NaHSO4 | TSP | Other | Radium 226 | Radium 228 |  |  |  |  |  |  |  |  |  |  | 2 |  |  |  |  |  |  |  |  | ✓ | ✓ |  |  |  |  |  |  |  |  |  |  |
| UNP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | HNO3               | NaOH                                              | H2SO4       | HCL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | MeOH | NaHSO4                           | TSP  | Other | Radium 226 | Radium 228 |      |        |     |       |            |            |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |  |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                    |                                                   |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |                                  |      |       | ✓          | ✓          |      |        |     |       |            |            |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |  |
| RESULTS REQUESTED<br><input checked="" type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge)<br><input type="checkbox"/> Other _____ <input type="checkbox"/> 3 Day (50% Surcharge)                                                                                                                                                                                                                                                                          |                    | BILLING INSTRUCTIONS<br><u>Vistra PO# 1054896</u> |             | INDICATE ANALYSIS REQUESTED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |                                  |      |       |            |            |      |        |     |       |            |            |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |  |
| Lab Use Only                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Sample ID          | Date/Time Sampled                                 | Matrix      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |                                  |      |       |            |            |      |        |     |       |            |            |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |  |
| <u>21081267-023</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <u>35</u>          | <u>9/8/21 1602</u>                                | Groundwater |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |                                  |      |       |            |            |      |        |     |       |            |            |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |  |
| <u>024</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>45S</u>         | <u>9/10/21 1024</u>                               | Groundwater |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |                                  |      |       |            |            |      |        |     |       |            |            |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |  |
| <u>025</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>46</u>          | <u>9/9/21 1301</u>                                | Groundwater |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |                                  |      |       |            |            |      |        |     |       |            |            |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |  |
| <u>026</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>47</u>          | <u>9/9/21 1203</u>                                | Groundwater |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |                                  |      |       |            |            |      |        |     |       |            |            |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |  |
| <u>027</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>49</u>          | <u>9/9/21 1635</u>                                | Groundwater |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |                                  |      |       |            |            |      |        |     |       |            |            |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |  |
| <u>028</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>50</u>          | <u>9/8/21 1313</u>                                | Groundwater |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |                                  |      |       |            |            |      |        |     |       |            |            |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |  |
| <u>029</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>51</u>          | <u>9/9/21 1044</u>                                | Groundwater |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |                                  |      |       |            |            |      |        |     |       |            |            |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |  |
| <u>030</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>Field Blank</u> | <u>9/10/21 1045</u>                               | Groundwater |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |                                  |      |       |            |            |      |        |     |       |            |            |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |                                                   | Groundwater |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |                                  |      |       |            |            |      |        |     |       |            |            |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |                                                   | Groundwater |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |                                  |      |       |            |            |      |        |     |       |            |            |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |                                                   | Groundwater |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |                                  |      |       |            |            |      |        |     |       |            |            |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |  |
| Relinquished By<br><u>[Signature]</u>                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    | Date/Time<br><u>9/10/21 1425</u>                  |             | Received By<br><u>Mary Kemp</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      | Date/Time<br><u>9/10/21 1425</u> |      |       |            |            |      |        |     |       |            |            |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |                                                   |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |                                  |      |       |            |            |      |        |     |       |            |            |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |                                                   |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |                                  |      |       |            |            |      |        |     |       |            |            |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |                                                   |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |                                  |      |       |            |            |      |        |     |       |            |            |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |                                                   |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |                                  |      |       |            |            |      |        |     |       |            |            |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |   |  |  |  |  |  |  |  |  |  |  |

\*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See [www.teklabinc.com](http://www.teklabinc.com) for terms and conditions

CoC Rev C Aug 2020

October 02, 2021

Revised Report

**TEKLAB, Inc.**

Sample Delivery Group: L1403564

Samples Received: 09/15/2021

Project Number: 21081267

Description:

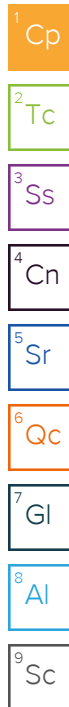
Report To: Elizabeth Hurley  
5445 Horseshoe Lake Road  
Collinsville, IL 62234

Entire Report Reviewed By:



Mark W. Beasley  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

**Pace Analytical National**12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 [www.pacenational.com](http://www.pacenational.com)



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| <sup>1</sup> Cp |
| <sup>2</sup> Tc |
| <sup>3</sup> Ss |
| <sup>4</sup> Cn |
| <sup>5</sup> Sr |
| <sup>6</sup> Qc |
| <sup>7</sup> Gl |
| <sup>8</sup> Al |
| <sup>9</sup> Sc |

# SAMPLE SUMMARY

## 21081267-001 L1403564-01 Non-Potable Water

|                                       |           |          |                       | Collected by       | Collected date/time | Received date/time |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------------------|--------------------|
|                                       |           |          |                       |                    | 09/10/21 09:34      | 09/15/21 11:00     |
| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst             | Location           |
| Radiochemistry by Method Calculation  | WG1743106 | 1        | 09/23/21 09:55        | 09/28/21 10:48     | RGT                 | Mt. Juliet, TN     |
| Radiochemistry by Method SM7500Ra B M | WG1743106 | 1        | 09/23/21 09:55        | 09/28/21 10:48     | RGT                 | Mt. Juliet, TN     |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

## 21081267-003 L1403564-02 Non-Potable Water

|                                       |           |          |                       | Collected by       | Collected date/time | Received date/time |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------------------|--------------------|
|                                       |           |          |                       |                    | 09/10/21 08:34      | 09/15/21 11:00     |
| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst             | Location           |
| Radiochemistry by Method Calculation  | WG1743106 | 1        | 09/23/21 09:55        | 09/28/21 10:48     | RGT                 | Mt. Juliet, TN     |
| Radiochemistry by Method SM7500Ra B M | WG1743106 | 1        | 09/23/21 09:55        | 09/28/21 10:48     | RGT                 | Mt. Juliet, TN     |

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

## 21081267-004 L1403564-03 Non-Potable Water

|                                       |           |          |                       | Collected by       | Collected date/time | Received date/time |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------------------|--------------------|
|                                       |           |          |                       |                    | 09/09/21 17:08      | 09/15/21 11:00     |
| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst             | Location           |
| Radiochemistry by Method Calculation  | WG1743106 | 1        | 09/23/21 09:55        | 09/28/21 10:48     | RGT                 | Mt. Juliet, TN     |
| Radiochemistry by Method SM7500Ra B M | WG1743106 | 1        | 09/23/21 09:55        | 09/28/21 10:48     | RGT                 | Mt. Juliet, TN     |

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

## 21081267-005 L1403564-04 Non-Potable Water

|                                       |           |          |                       | Collected by       | Collected date/time | Received date/time |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------------------|--------------------|
|                                       |           |          |                       |                    | 09/09/21 14:33      | 09/15/21 11:00     |
| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst             | Location           |
| Radiochemistry by Method Calculation  | WG1743106 | 1        | 09/23/21 09:55        | 09/28/21 10:48     | RGT                 | Mt. Juliet, TN     |
| Radiochemistry by Method SM7500Ra B M | WG1743106 | 1        | 09/23/21 09:55        | 09/28/21 10:48     | RGT                 | Mt. Juliet, TN     |

## 21081267-006 L1403564-05 Non-Potable Water

|                                       |           |          |                       | Collected by       | Collected date/time | Received date/time |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------------------|--------------------|
|                                       |           |          |                       |                    | 09/09/21 14:33      | 09/15/21 11:00     |
| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst             | Location           |
| Radiochemistry by Method Calculation  | WG1743106 | 1        | 09/23/21 09:55        | 09/28/21 10:48     | RGT                 | Mt. Juliet, TN     |
| Radiochemistry by Method SM7500Ra B M | WG1743106 | 1        | 09/23/21 09:55        | 09/28/21 10:48     | RGT                 | Mt. Juliet, TN     |

## 21081267-009 L1403564-06 Non-Potable Water

|                                       |           |          |                       | Collected by       | Collected date/time | Received date/time |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------------------|--------------------|
|                                       |           |          |                       |                    | 09/09/21 12:24      | 09/15/21 11:00     |
| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst             | Location           |
| Radiochemistry by Method Calculation  | WG1743106 | 1        | 09/23/21 09:55        | 09/28/21 10:48     | RGT                 | Mt. Juliet, TN     |
| Radiochemistry by Method SM7500Ra B M | WG1743106 | 1        | 09/23/21 09:55        | 09/28/21 10:48     | RGT                 | Mt. Juliet, TN     |

## 21081267-010 L1403564-07 Non-Potable Water

|                                       |           |          |                       | Collected by       | Collected date/time | Received date/time |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------------------|--------------------|
|                                       |           |          |                       |                    | 09/09/21 13:53      | 09/15/21 11:00     |
| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst             | Location           |
| Radiochemistry by Method Calculation  | WG1743106 | 1        | 09/23/21 09:55        | 09/28/21 10:48     | RGT                 | Mt. Juliet, TN     |
| Radiochemistry by Method SM7500Ra B M | WG1743106 | 1        | 09/23/21 09:55        | 09/28/21 10:48     | RGT                 | Mt. Juliet, TN     |

# SAMPLE SUMMARY

## 21081267-011 L1403564-08 Non-Potable Water

|                                       |           |          |                       | Collected by       | Collected date/time | Received date/time |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------------------|--------------------|
|                                       |           |          |                       |                    | 09/09/21 13:36      | 09/15/21 11:00     |
| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst             | Location           |
| Radiochemistry by Method Calculation  | WG1743106 | 1        | 09/23/21 09:55        | 09/28/21 10:48     | RGT                 | Mt. Juliet, TN     |
| Radiochemistry by Method SM7500Ra B M | WG1743106 | 1        | 09/23/21 09:55        | 09/28/21 10:48     | RGT                 | Mt. Juliet, TN     |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

## 21081267-012 L1403564-09 Non-Potable Water

|                                       |           |          |                       | Collected by       | Collected date/time | Received date/time |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------------------|--------------------|
|                                       |           |          |                       |                    | 09/10/21 09:09      | 09/15/21 11:00     |
| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst             | Location           |
| Radiochemistry by Method Calculation  | WG1743106 | 1        | 09/23/21 09:55        | 09/28/21 10:48     | RGT                 | Mt. Juliet, TN     |
| Radiochemistry by Method SM7500Ra B M | WG1743106 | 1        | 09/23/21 09:55        | 09/28/21 10:48     | RGT                 | Mt. Juliet, TN     |

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

## 21081267-013 L1403564-10 Non-Potable Water

|                                       |           |          |                       | Collected by       | Collected date/time | Received date/time |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------------------|--------------------|
|                                       |           |          |                       |                    | 09/10/21 08:54      | 09/15/21 11:00     |
| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst             | Location           |
| Radiochemistry by Method Calculation  | WG1743106 | 1        | 09/23/21 09:55        | 09/28/21 13:49     | RGT                 | Mt. Juliet, TN     |
| Radiochemistry by Method SM7500Ra B M | WG1743106 | 1        | 09/23/21 09:55        | 09/28/21 13:49     | RGT                 | Mt. Juliet, TN     |

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

## 21081267-014 L1403564-11 Non-Potable Water

|                                       |           |          |                       | Collected by       | Collected date/time | Received date/time |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------------------|--------------------|
|                                       |           |          |                       |                    | 09/09/21 16:08      | 09/15/21 11:00     |
| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst             | Location           |
| Radiochemistry by Method Calculation  | WG1743106 | 1        | 09/23/21 09:55        | 09/28/21 13:49     | RGT                 | Mt. Juliet, TN     |
| Radiochemistry by Method SM7500Ra B M | WG1743106 | 1        | 09/23/21 09:55        | 09/28/21 13:49     | RGT                 | Mt. Juliet, TN     |

## 21081267-015 L1403564-12 Non-Potable Water

|                                       |           |          |                       | Collected by       | Collected date/time | Received date/time |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------------------|--------------------|
|                                       |           |          |                       |                    | 09/09/21 17:51      | 09/15/21 11:00     |
| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst             | Location           |
| Radiochemistry by Method Calculation  | WG1743106 | 1        | 09/23/21 09:55        | 09/28/21 13:49     | RGT                 | Mt. Juliet, TN     |
| Radiochemistry by Method SM7500Ra B M | WG1743106 | 1        | 09/23/21 09:55        | 09/28/21 13:49     | RGT                 | Mt. Juliet, TN     |

## 21081267-016 L1403564-13 Non-Potable Water

|                                       |           |          |                       | Collected by       | Collected date/time | Received date/time |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------------------|--------------------|
|                                       |           |          |                       |                    | 09/09/21 10:13      | 09/15/21 11:00     |
| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst             | Location           |
| Radiochemistry by Method Calculation  | WG1743106 | 1        | 09/23/21 09:55        | 09/28/21 13:49     | RGT                 | Mt. Juliet, TN     |
| Radiochemistry by Method SM7500Ra B M | WG1743106 | 1        | 09/23/21 09:55        | 09/28/21 13:49     | RGT                 | Mt. Juliet, TN     |

## 21081267-017 L1403564-14 Non-Potable Water

|                                       |           |          |                       | Collected by       | Collected date/time | Received date/time |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------------------|--------------------|
|                                       |           |          |                       |                    | 09/08/21 13:45      | 09/15/21 11:00     |
| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst             | Location           |
| Radiochemistry by Method Calculation  | WG1743106 | 1        | 09/23/21 09:55        | 09/28/21 13:49     | RGT                 | Mt. Juliet, TN     |
| Radiochemistry by Method SM7500Ra B M | WG1743106 | 1        | 09/23/21 09:55        | 09/28/21 13:49     | RGT                 | Mt. Juliet, TN     |

# SAMPLE SUMMARY

## 21081267-018 L1403564-15 Non-Potable Water

Collected by  
Collected date/time  
09/08/21 14:01  
Received date/time  
09/15/21 11:00

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method Calculation  | WG1743106 | 1        | 09/23/21 09:55        | 09/28/21 13:49     | RGT     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1743106 | 1        | 09/23/21 09:55        | 09/28/21 13:49     | RGT     | Mt. Juliet, TN |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

## 21081267-019 L1403564-16 Non-Potable Water

Collected by  
Collected date/time  
09/09/21 11:12  
Received date/time  
09/15/21 11:00

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method Calculation  | WG1743106 | 1        | 09/23/21 09:55        | 09/28/21 13:49     | RGT     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1743106 | 1        | 09/23/21 09:55        | 09/28/21 13:49     | RGT     | Mt. Juliet, TN |

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

## 21081267-020 L1403564-17 Non-Potable Water

Collected by  
Collected date/time  
09/09/21 08:29  
Received date/time  
09/15/21 11:00

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method Calculation  | WG1743106 | 1        | 09/23/21 09:55        | 09/28/21 13:49     | RGT     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1743106 | 1        | 09/23/21 09:55        | 09/28/21 13:49     | RGT     | Mt. Juliet, TN |

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

## 21081267-021 L1403564-18 Non-Potable Water

Collected by  
Collected date/time  
09/09/21 08:48  
Received date/time  
09/15/21 11:00

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method Calculation  | WG1743106 | 1        | 09/23/21 09:55        | 09/28/21 13:49     | RGT     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1743106 | 1        | 09/23/21 09:55        | 09/28/21 13:49     | RGT     | Mt. Juliet, TN |

## 21081267-022 L1403564-19 Non-Potable Water

Collected by  
Collected date/time  
09/09/21 09:35  
Received date/time  
09/15/21 11:00

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method Calculation  | WG1743106 | 1        | 09/23/21 09:55        | 09/28/21 13:49     | RGT     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1743106 | 1        | 09/23/21 09:55        | 09/28/21 13:49     | RGT     | Mt. Juliet, TN |

## 21081267-023 L1403564-20 Non-Potable Water

Collected by  
Collected date/time  
09/08/21 16:02  
Received date/time  
09/15/21 11:00

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method Calculation  | WG1743108 | 1        | 09/28/21 09:10        | 09/28/21 16:57     | RGT     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1743108 | 1        | 09/28/21 09:10        | 09/28/21 16:57     | RGT     | Mt. Juliet, TN |

## 21081267-025 L1403564-21 Non-Potable Water

Collected by  
Collected date/time  
09/09/21 13:01  
Received date/time  
09/15/21 11:00

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method Calculation  | WG1743108 | 1        | 09/28/21 09:10        | 09/28/21 16:57     | RGT     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1743108 | 1        | 09/28/21 09:10        | 09/28/21 16:57     | RGT     | Mt. Juliet, TN |

# SAMPLE SUMMARY

## 21081267-026 L1403564-22 Non-Potable Water

Collected by  
Collected date/time  
09/09/21 12:03  
Received date/time  
09/15/21 11:00

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method Calculation  | WG1743108 | 1        | 09/28/21 09:10        | 09/28/21 16:57     | RGT     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1743108 | 1        | 09/28/21 09:10        | 09/28/21 16:57     | RGT     | Mt. Juliet, TN |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

## 21081267-027 L1403564-23 Non-Potable Water

Collected by  
Collected date/time  
09/08/21 16:35  
Received date/time  
09/15/21 11:00

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method Calculation  | WG1743108 | 1        | 09/28/21 09:10        | 09/28/21 16:57     | RGT     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1743108 | 1        | 09/28/21 09:10        | 09/28/21 16:57     | RGT     | Mt. Juliet, TN |

## 21081267-028 L1403564-24 Non-Potable Water

Collected by  
Collected date/time  
09/08/21 13:13  
Received date/time  
09/15/21 11:00

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method Calculation  | WG1743108 | 1        | 09/28/21 09:10        | 09/28/21 20:48     | RGT     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1743108 | 1        | 09/28/21 09:10        | 09/28/21 20:48     | RGT     | Mt. Juliet, TN |

## 21081267-029 L1403564-25 Non-Potable Water

Collected by  
Collected date/time  
09/09/21 10:44  
Received date/time  
09/15/21 11:00

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method Calculation  | WG1743108 | 1        | 09/28/21 09:10        | 09/28/21 20:48     | RGT     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1743108 | 1        | 09/28/21 09:10        | 09/28/21 20:48     | RGT     | Mt. Juliet, TN |

## 21081267-030 L1403564-26 Non-Potable Water

Collected by  
Collected date/time  
09/10/21 10:45  
Received date/time  
09/15/21 11:00

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method Calculation  | WG1743108 | 1        | 09/28/21 09:10        | 09/28/21 20:48     | RGT     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1743108 | 1        | 09/28/21 09:10        | 09/28/21 20:48     | RGT     | Mt. Juliet, TN |

# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Mark W. Beasley  
Project Manager

## Report Revision History

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Level II Report - Version 1: 09/29/21 22:57

## Project Narrative

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Corrected analysis time.



Radiochemistry by Method 904/9320

| Analyte     | Result  | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|-------------|---------|-----------|-------------|----------|------------------|-----------|
|             | pCi/l   |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-228  | -0.0135 | U         | 0.345       | 0.673    | 09/22/2021 12:15 | WG1737787 |
| (T) Barium  | 93.6    |           |             | 62.0-143 | 09/22/2021 12:15 | WG1737787 |
| (T) Yttrium | 106     |           |             | 79.0-136 | 09/22/2021 12:15 | WG1737787 |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch     |
|-----------------|--------|-----------|-------------|-------|------------------|-----------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |           |
| Combined Radium | 0.000  | U         | 0.526       | 1.1   | 09/28/2021 10:48 | WG1743106 |

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result  | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|----------------|---------|-----------|-------------|----------|------------------|-----------|
|                | pCi/l   |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-226     | -0.0758 | U         | 0.181       | 0.422    | 09/28/2021 10:48 | WG1743106 |
| (T) Barium-133 | 94.3    |           |             | 30.0-143 | 09/28/2021 10:48 | WG1743106 |



Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|-------------|--------|-----------|-------------|----------|------------------|-----------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-228  | -0.298 | U         | 0.334       | 0.66     | 09/22/2021 12:15 | WG1737787 |
| (T) Barium  | 96.9   |           |             | 62.0-143 | 09/22/2021 12:15 | WG1737787 |
| (T) Yttrium | 98.4   |           |             | 79.0-136 | 09/22/2021 12:15 | WG1737787 |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch     |
|-----------------|--------|-----------|-------------|-------|------------------|-----------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |           |
| Combined Radium | 0.322  | J         | 0.564       | 0.839 | 09/28/2021 10:48 | WG1743106 |

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|----------------|--------|-----------|-------------|----------|------------------|-----------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-226     | 0.322  |           | 0.230       | 0.179    | 09/28/2021 10:48 | WG1743106 |
| (T) Barium-133 | 95.7   |           |             | 30.0-143 | 09/28/2021 10:48 | WG1743106 |

## Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-228  | 0.667  |           | 0.311       | 0.587    | 09/22/2021 12:15 | <a href="#">WG1737787</a> |
| (T) Barium  | 103    |           |             | 62.0-143 | 09/22/2021 12:15 | <a href="#">WG1737787</a> |
| (T) Yttrium | 101    |           |             | 79.0-136 | 09/22/2021 12:15 | <a href="#">WG1737787</a> |

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss

## Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch                     |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |                           |
| Combined Radium | 1.14   |           | 0.584       | 0.761 | 09/28/2021 10:48 | <a href="#">WG1743106</a> |

<sup>4</sup> Cn<sup>5</sup> Sr

## Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-226     | 0.473  |           | 0.273       | 0.174    | 09/28/2021 10:48 | <a href="#">WG1743106</a> |
| (T) Barium-133 | 100    |           |             | 30.0-143 | 09/28/2021 10:48 | <a href="#">WG1743106</a> |

<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al<sup>9</sup> Sc

Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|-------------|--------|-----------|-------------|----------|------------------|-----------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-228  | -0.681 | U         | 0.327       | 0.648    | 09/22/2021 12:15 | WG1737787 |
| (T) Barium  | 91.4   |           |             | 62.0-143 | 09/22/2021 12:15 | WG1737787 |
| (T) Yttrium | 103    |           |             | 79.0-136 | 09/22/2021 12:15 | WG1737787 |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch     |
|-----------------|--------|-----------|-------------|-------|------------------|-----------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |           |
| Combined Radium | 0.295  | U         | 0.556       | 0.876 | 09/28/2021 10:48 | WG1743106 |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|----------------|--------|-----------|-------------|----------|------------------|-----------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-226     | 0.295  |           | 0.229       | 0.228    | 09/28/2021 10:48 | WG1743106 |
| (T) Barium-133 | 94.6   |           |             | 30.0-143 | 09/28/2021 10:48 | WG1743106 |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-228  | 0.631  |           | 0.300       | 0.554    | 09/22/2021 12:15 | <a href="#">WG1737787</a> |
| (T) Barium  | 93.3   |           |             | 62.0-143 | 09/22/2021 12:15 | <a href="#">WG1737787</a> |
| (T) Yttrium | 92.6   |           |             | 79.0-136 | 09/22/2021 12:15 | <a href="#">WG1737787</a> |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch                     |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |                           |
| Combined Radium | 0.855  |           | 0.506       | 0.756 | 09/28/2021 10:48 | <a href="#">WG1743106</a> |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-226     | 0.224  |           | 0.206       | 0.202    | 09/28/2021 10:48 | <a href="#">WG1743106</a> |
| (T) Barium-133 | 94.7   |           |             | 30.0-143 | 09/28/2021 10:48 | <a href="#">WG1743106</a> |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-228  | 0.721  |           | 0.310       | 0.568    | 09/22/2021 12:15 | <a href="#">WG1737787</a> |
| (T) Barium  | 96.1   |           |             | 62.0-143 | 09/22/2021 12:15 | <a href="#">WG1737787</a> |
| (T) Yttrium | 98.4   |           |             | 79.0-136 | 09/22/2021 12:15 | <a href="#">WG1737787</a> |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch                     |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |                           |
| Combined Radium | 0.778  | J         | 0.459       | 0.845 | 09/28/2021 10:48 | <a href="#">WG1743106</a> |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-226     | 0.0572 | U         | 0.149       | 0.277    | 09/28/2021 10:48 | <a href="#">WG1743106</a> |
| (T) Barium-133 | 91.7   |           |             | 30.0-143 | 09/28/2021 10:48 | <a href="#">WG1743106</a> |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

## Radiochemistry by Method 904/9320

| Analyte     | Result  | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|-------------|---------|-----------|-------------|----------|------------------|---------------------------|
|             | pCi/l   |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-228  | -0.0280 | <u>U</u>  | 0.315       | 0.602    | 09/22/2021 12:15 | <a href="#">WG1737787</a> |
| (T) Barium  | 97.0    |           |             | 62.0-143 | 09/22/2021 12:15 | <a href="#">WG1737787</a> |
| (T) Yttrium | 105     |           |             | 79.0-136 | 09/22/2021 12:15 | <a href="#">WG1737787</a> |

## Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch                     |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |                           |
| Combined Radium | 0.226  | <u>U</u>  | 0.553       | 0.904 | 09/28/2021 10:48 | <a href="#">WG1743106</a> |

## Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-226     | 0.226  | <u>J</u>  | 0.238       | 0.302    | 09/28/2021 10:48 | <a href="#">WG1743106</a> |
| (T) Barium-133 | 94.0   |           |             | 30.0-143 | 09/28/2021 10:48 | <a href="#">WG1743106</a> |

<sup>1</sup>Cp<sup>2</sup>Tc<sup>3</sup>Ss<sup>4</sup>Cn<sup>5</sup>Sr<sup>6</sup>Qc<sup>7</sup>Gl<sup>8</sup>Al<sup>9</sup>Sc

Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-228  | 0.392  | J         | 0.328       | 0.617    | 09/22/2021 12:15 | <a href="#">WG1737787</a> |
| (T) Barium  | 98.3   |           |             | 62.0-143 | 09/22/2021 12:15 | <a href="#">WG1737787</a> |
| (T) Yttrium | 105    |           |             | 79.0-136 | 09/22/2021 12:15 | <a href="#">WG1737787</a> |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch                     |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |                           |
| Combined Radium | 0.511  | J         | 0.512       | 0.901 | 09/28/2021 10:48 | <a href="#">WG1743106</a> |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-226     | 0.119  | J         | 0.184       | 0.284    | 09/28/2021 10:48 | <a href="#">WG1743106</a> |
| (T) Barium-133 | 98.5   |           |             | 30.0-143 | 09/28/2021 10:48 | <a href="#">WG1743106</a> |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc



## Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-228  | 0.729  |           | 0.317       | 0.582    | 09/22/2021 12:15 | <a href="#">WG1737787</a> |
| (T) Barium  | 95.2   |           |             | 62.0-143 | 09/22/2021 12:15 | <a href="#">WG1737787</a> |
| (T) Yttrium | 101    |           |             | 79.0-136 | 09/22/2021 12:15 | <a href="#">WG1737787</a> |

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss

## Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch                     |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |                           |
| Combined Radium | 0.833  | <u>J</u>  | 0.545       | 0.948 | 09/28/2021 10:48 | <a href="#">WG1743106</a> |

<sup>4</sup> Cn<sup>5</sup> Sr

## Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-226     | 0.104  | <u>U</u>  | 0.228       | 0.366    | 09/28/2021 10:48 | <a href="#">WG1743106</a> |
| (T) Barium-133 | 100    |           |             | 30.0-143 | 09/28/2021 10:48 | <a href="#">WG1743106</a> |

<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al<sup>9</sup> Sc

Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-228  | 0.684  |           | 0.360       | 0.666    | 09/22/2021 12:15 | <a href="#">WG1737787</a> |
| (T) Barium  | 89.9   |           |             | 62.0-143 | 09/22/2021 12:15 | <a href="#">WG1737787</a> |
| (T) Yttrium | 103    |           |             | 79.0-136 | 09/22/2021 12:15 | <a href="#">WG1737787</a> |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch                     |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |                           |
| Combined Radium | 0.930  |           | 0.573       | 0.879 | 09/28/2021 13:49 | <a href="#">WG1743106</a> |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-226     | 0.246  |           | 0.213       | 0.213    | 09/28/2021 13:49 | <a href="#">WG1743106</a> |
| (T) Barium-133 | 99.8   |           |             | 30.0-143 | 09/28/2021 13:49 | <a href="#">WG1743106</a> |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|-------------|--------|-----------|-------------|----------|------------------|-----------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-228  | 0.138  | U         | 0.322       | 0.611    | 09/22/2021 12:15 | WG1737787 |
| (T) Barium  | 100    |           |             | 62.0-143 | 09/22/2021 12:15 | WG1737787 |
| (T) Yttrium | 96.0   |           |             | 79.0-136 | 09/22/2021 12:15 | WG1737787 |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch     |
|-----------------|--------|-----------|-------------|-------|------------------|-----------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |           |
| Combined Radium | 0.242  | U         | 0.484       | 0.86  | 09/28/2021 13:49 | WG1743106 |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|----------------|--------|-----------|-------------|----------|------------------|-----------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-226     | 0.104  | J         | 0.162       | 0.249    | 09/28/2021 13:49 | WG1743106 |
| (T) Barium-133 | 98.1   |           |             | 30.0-143 | 09/28/2021 13:49 | WG1743106 |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-228  | -0.434 | <u>U</u>  | 0.328       | 0.644    | 09/22/2021 12:15 | <a href="#">WG1737787</a> |
| (T) Barium  | 89.8   |           |             | 62.0-143 | 09/22/2021 12:15 | <a href="#">WG1737787</a> |
| (T) Yttrium | 98.2   |           |             | 79.0-136 | 09/22/2021 12:15 | <a href="#">WG1737787</a> |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch                     |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |                           |
| Combined Radium | 0.0737 | <u>U</u>  | 0.457       | 0.858 | 09/28/2021 13:49 | <a href="#">WG1743106</a> |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-226     | 0.0737 | <u>U</u>  | 0.129       | 0.214    | 09/28/2021 13:49 | <a href="#">WG1743106</a> |
| (T) Barium-133 | 96.1   |           |             | 30.0-143 | 09/28/2021 13:49 | <a href="#">WG1743106</a> |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

## Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-228  | 0.832  |           | 0.309       | 0.564    | 09/22/2021 12:15 | <a href="#">WG1737787</a> |
| (T) Barium  | 96.9   |           |             | 62.0-143 | 09/22/2021 12:15 | <a href="#">WG1737787</a> |
| (T) Yttrium | 107    |           |             | 79.0-136 | 09/22/2021 12:15 | <a href="#">WG1737787</a> |

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss

## Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch                     |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |                           |
| Combined Radium | 1.54   |           | 0.751       | 1.02  | 09/28/2021 13:49 | <a href="#">WG1743106</a> |

<sup>4</sup> Cn<sup>5</sup> Sr

## Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-226     | 0.704  |           | 0.442       | 0.452    | 09/28/2021 13:49 | <a href="#">WG1743106</a> |
| (T) Barium-133 | 88.0   |           |             | 30.0-143 | 09/28/2021 13:49 | <a href="#">WG1743106</a> |

<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al<sup>9</sup> Sc

Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|-------------|--------|-----------|-------------|----------|------------------|-----------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-228  | 0.354  | J         | 0.336       | 0.631    | 09/22/2021 12:15 | WG1737787 |
| (T) Barium  | 87.9   |           |             | 62.0-143 | 09/22/2021 12:15 | WG1737787 |
| (T) Yttrium | 102    |           |             | 79.0-136 | 09/22/2021 12:15 | WG1737787 |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch     |
|-----------------|--------|-----------|-------------|-------|------------------|-----------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |           |
| Combined Radium | 0.431  | J         | 0.455       | 0.811 | 09/28/2021 13:49 | WG1743106 |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|----------------|--------|-----------|-------------|----------|------------------|-----------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-226     | 0.0764 | J         | 0.119       | 0.18     | 09/28/2021 13:49 | WG1743106 |
| (T) Barium-133 | 95.1   |           |             | 30.0-143 | 09/28/2021 13:49 | WG1743106 |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-228  | 0.483  | J         | 0.309       | 0.576    | 09/22/2021 12:15 | <a href="#">WG1737787</a> |
| (T) Barium  | 98.1   |           |             | 62.0-143 | 09/22/2021 12:15 | <a href="#">WG1737787</a> |
| (T) Yttrium | 107    |           |             | 79.0-136 | 09/22/2021 12:15 | <a href="#">WG1737787</a> |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch                     |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |                           |
| Combined Radium | 1.15   |           | 0.639       | 0.759 | 09/28/2021 13:49 | <a href="#">WG1743106</a> |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-226     | 0.665  |           | 0.330       | 0.183    | 09/28/2021 13:49 | <a href="#">WG1743106</a> |
| (T) Barium-133 | 95.1   |           |             | 30.0-143 | 09/28/2021 13:49 | <a href="#">WG1743106</a> |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc



Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|-------------|--------|-----------|-------------|----------|------------------|-----------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-228  | 0.178  | U         | 0.332       | 0.628    | 09/22/2021 12:15 | WG1737787 |
| (T) Barium  | 91.1   |           |             | 62.0-143 | 09/22/2021 12:15 | WG1737787 |
| (T) Yttrium | 100    |           |             | 79.0-136 | 09/22/2021 12:15 | WG1737787 |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch     |
|-----------------|--------|-----------|-------------|-------|------------------|-----------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |           |
| Combined Radium | 0.281  | U         | 0.507       | 0.906 | 09/28/2021 13:49 | WG1743106 |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|----------------|--------|-----------|-------------|----------|------------------|-----------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-226     | 0.103  | J         | 0.175       | 0.278    | 09/28/2021 13:49 | WG1743106 |
| (T) Barium-133 | 91.3   |           |             | 30.0-143 | 09/28/2021 13:49 | WG1743106 |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|-------------|--------|-----------|-------------|----------|------------------|-----------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-228  | 0.539  | J         | 0.295       | 0.546    | 09/22/2021 12:15 | WG1737787 |
| (T) Barium  | 91.7   |           |             | 62.0-143 | 09/22/2021 12:15 | WG1737787 |
| (T) Yttrium | 101    |           |             | 79.0-136 | 09/22/2021 12:15 | WG1737787 |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch     |
|-----------------|--------|-----------|-------------|-------|------------------|-----------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |           |
| Combined Radium | 0.582  | J         | 0.452       | 0.849 | 09/28/2021 13:49 | WG1743106 |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|----------------|--------|-----------|-------------|----------|------------------|-----------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-226     | 0.0435 | U         | 0.157       | 0.303    | 09/28/2021 13:49 | WG1743106 |
| (T) Barium-133 | 93.9   |           |             | 30.0-143 | 09/28/2021 13:49 | WG1743106 |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|-------------|--------|-----------|-------------|----------|------------------|-----------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-228  | 0.586  | J         | 0.330       | 0.617    | 09/23/2021 12:10 | WG1738092 |
| (T) Barium  | 98.4   |           |             | 62.0-143 | 09/23/2021 12:10 | WG1738092 |
| (T) Yttrium | 97.0   |           |             | 79.0-136 | 09/23/2021 12:10 | WG1738092 |

1  
Cp

2  
Tc

3  
Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch     |
|-----------------|--------|-----------|-------------|-------|------------------|-----------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |           |
| Combined Radium | 0.755  | J         | 0.538       | 0.901 | 09/28/2021 13:49 | WG1743106 |

4  
Cn

5  
Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|----------------|--------|-----------|-------------|----------|------------------|-----------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-226     | 0.168  | J         | 0.208       | 0.284    | 09/28/2021 13:49 | WG1743106 |
| (T) Barium-133 | 98.7   |           |             | 30.0-143 | 09/28/2021 13:49 | WG1743106 |

6  
Qc

7  
Gl

8  
Al

9  
Sc

Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|-------------|--------|-----------|-------------|----------|------------------|-----------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-228  | 0.273  | J         | 0.301       | 0.572    | 09/23/2021 12:10 | WG1738092 |
| (T) Barium  | 105    |           |             | 62.0-143 | 09/23/2021 12:10 | WG1738092 |
| (T) Yttrium | 98.4   |           |             | 79.0-136 | 09/23/2021 12:10 | WG1738092 |

1  
Cp

2  
Tc

3  
Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch     |
|-----------------|--------|-----------|-------------|-------|------------------|-----------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |           |
| Combined Radium | 0.596  | J         | 0.602       | 0.946 | 09/28/2021 13:49 | WG1743106 |

4  
Cn

5  
Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|----------------|--------|-----------|-------------|----------|------------------|-----------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-226     | 0.322  | J         | 0.301       | 0.374    | 09/28/2021 13:49 | WG1743106 |
| (T) Barium-133 | 97.9   |           |             | 30.0-143 | 09/28/2021 13:49 | WG1743106 |

6  
Qc

7  
Gl

8  
Al

9  
Sc

Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|-------------|--------|-----------|-------------|----------|------------------|-----------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-228  | -0.403 | U         | 0.368       | 0.726    | 09/23/2021 12:10 | WG1738092 |
| (T) Barium  | 90.8   |           |             | 62.0-143 | 09/23/2021 12:10 | WG1738092 |
| (T) Yttrium | 103    |           |             | 79.0-136 | 09/23/2021 12:10 | WG1738092 |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch     |
|-----------------|--------|-----------|-------------|-------|------------------|-----------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |           |
| Combined Radium | 0.360  | U         | 0.628       | 1.02  | 09/28/2021 16:57 | WG1743108 |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|----------------|--------|-----------|-------------|----------|------------------|-----------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-226     | 0.360  |           | 0.260       | 0.289    | 09/28/2021 16:57 | WG1743108 |
| (T) Barium-133 | 99.5   |           |             | 30.0-143 | 09/28/2021 16:57 | WG1743108 |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|-------------|--------|-----------|-------------|----------|------------------|-----------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-228  | -0.524 | U         | 0.295       | 0.596    | 09/23/2021 12:10 | WG1738092 |
| (T) Barium  | 102    |           |             | 62.0-143 | 09/23/2021 12:10 | WG1738092 |
| (T) Yttrium | 99.4   |           |             | 79.0-136 | 09/23/2021 12:10 | WG1738092 |

1  
Cp

2  
Tc

3  
Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch     |
|-----------------|--------|-----------|-------------|-------|------------------|-----------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |           |
| Combined Radium | 0.415  | J         | 0.558       | 0.78  | 09/28/2021 16:57 | WG1743108 |

4  
Cn

5  
Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|----------------|--------|-----------|-------------|----------|------------------|-----------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-226     | 0.415  |           | 0.263       | 0.184    | 09/28/2021 16:57 | WG1743108 |
| (T) Barium-133 | 99.9   |           |             | 30.0-143 | 09/28/2021 16:57 | WG1743108 |

6  
Qc

7  
Gl

8  
Al

9  
Sc

Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-228  | 1.25   |           | 0.347       | 0.628    | 09/23/2021 12:10 | <a href="#">WG1738092</a> |
| (T) Barium  | 106    |           |             | 62.0-143 | 09/23/2021 12:10 | <a href="#">WG1738092</a> |
| (T) Yttrium | 89.1   |           |             | 79.0-136 | 09/23/2021 12:10 | <a href="#">WG1738092</a> |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch                     |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |                           |
| Combined Radium | 1.34   |           | 0.515       | 0.903 | 09/28/2021 16:57 | <a href="#">WG1743108</a> |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier         | Uncertainty | MDA      | Analysis Date    | Batch                     |
|----------------|--------|-------------------|-------------|----------|------------------|---------------------------|
|                | pCi/l  |                   | + / -       | pCi/l    | date / time      |                           |
| RADIUM-226     | 0.0910 | <a href="#">U</a> | 0.168       | 0.275    | 09/28/2021 16:57 | <a href="#">WG1743108</a> |
| (T) Barium-133 | 92.3   |                   |             | 30.0-143 | 09/28/2021 16:57 | <a href="#">WG1743108</a> |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc



Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|-------------|--------|-----------|-------------|----------|------------------|-----------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-228  | 0.372  | J         | 0.342       | 0.647    | 09/23/2021 12:10 | WG1738092 |
| (T) Barium  | 102    |           |             | 62.0-143 | 09/23/2021 12:10 | WG1738092 |
| (T) Yttrium | 94.1   |           |             | 79.0-136 | 09/23/2021 12:10 | WG1738092 |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch     |
|-----------------|--------|-----------|-------------|-------|------------------|-----------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |           |
| Combined Radium | 0.452  | J         | 0.521       | 0.953 | 09/28/2021 16:57 | WG1743108 |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|----------------|--------|-----------|-------------|----------|------------------|-----------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-226     | 0.0802 | U         | 0.179       | 0.306    | 09/28/2021 16:57 | WG1743108 |
| (T) Barium-133 | 95.2   |           |             | 30.0-143 | 09/28/2021 16:57 | WG1743108 |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-228  | 0.398  | J         | 0.297       | 0.56     | 09/23/2021 12:10 | <a href="#">WG1738092</a> |
| (T) Barium  | 100    |           |             | 62.0-143 | 09/23/2021 12:10 | <a href="#">WG1738092</a> |
| (T) Yttrium | 99.0   |           |             | 79.0-136 | 09/23/2021 12:10 | <a href="#">WG1738092</a> |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch                     |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |                           |
| Combined Radium | 0.764  | J         | 0.566       | 0.795 | 09/28/2021 20:48 | <a href="#">WG1743108</a> |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-226     | 0.366  |           | 0.269       | 0.235    | 09/28/2021 20:48 | <a href="#">WG1743108</a> |
| (T) Barium-133 | 93.0   |           |             | 30.0-143 | 09/28/2021 20:48 | <a href="#">WG1743108</a> |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-228  | 0.438  | J         | 0.313       | 0.589    | 09/23/2021 12:10 | <a href="#">WG1738092</a> |
| (T) Barium  | 92.8   |           |             | 62.0-143 | 09/23/2021 12:10 | <a href="#">WG1738092</a> |
| (T) Yttrium | 104    |           |             | 79.0-136 | 09/23/2021 12:10 | <a href="#">WG1738092</a> |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch                     |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |                           |
| Combined Radium | 1.53   |           | 0.720       | 0.794 | 09/28/2021 20:48 | <a href="#">WG1743108</a> |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-226     | 1.09   |           | 0.407       | 0.205    | 09/28/2021 20:48 | <a href="#">WG1743108</a> |
| (T) Barium-133 | 94.6   |           |             | 30.0-143 | 09/28/2021 20:48 | <a href="#">WG1743108</a> |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|-------------|--------|-----------|-------------|----------|------------------|-----------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-228  | -0.474 | U         | 0.304       | 0.603    | 09/23/2021 12:10 | WG1738092 |
| (T) Barium  | 101    |           |             | 62.0-143 | 09/23/2021 12:10 | WG1738092 |
| (T) Yttrium | 93.4   |           |             | 79.0-136 | 09/23/2021 12:10 | WG1738092 |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch     |
|-----------------|--------|-----------|-------------|-------|------------------|-----------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |           |
| Combined Radium | 0.564  | J         | 0.641       | 0.95  | 09/28/2021 20:48 | WG1743108 |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|----------------|--------|-----------|-------------|----------|------------------|-----------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-226     | 0.564  |           | 0.337       | 0.347    | 09/28/2021 20:48 | WG1743108 |
| (T) Barium-133 | 95.2   |           |             | 30.0-143 | 09/28/2021 20:48 | WG1743108 |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R3707941-1 09/22/21 12:15

| Analyte     | MB Result<br>pCi/l | MB Qualifier | MB MDA<br>pCi/l |
|-------------|--------------------|--------------|-----------------|
| Radium-228  | 0.130              | <u>U</u>     | 0.414           |
| (T) Barium  | 102                |              |                 |
| (T) Yttrium | 104                |              |                 |

L1404457-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1404457-01 09/22/21 12:15 • (DUP) R3707941-5 09/22/21 12:15

| Analyte     | Original Result<br>pCi/l | DUP Result<br>pCi/l | Dilution | DUP RPD<br>% | DUP RER | DUP Qualifier | DUP RPD<br>Limits<br>% | DUP RER Limit |
|-------------|--------------------------|---------------------|----------|--------------|---------|---------------|------------------------|---------------|
| Radium-228  | 0.266                    | -0.854              | 1        | 200          | 1.88    | <u>U</u>      | 20                     | 3             |
| (T) Barium  | 89.8                     | 102                 |          |              |         |               |                        |               |
| (T) Yttrium | 98.3                     | 95.6                |          |              |         |               |                        |               |

Laboratory Control Sample (LCS)

(LCS) R3707941-2 09/22/21 12:15

| Analyte     | Spike Amount<br>pCi/l | LCS Result<br>pCi/l | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|-------------|-----------------------|---------------------|---------------|------------------|---------------|
| Radium-228  | 5.00                  | 5.55                | 111           | 80.0-120         |               |
| (T) Barium  |                       |                     | 105           |                  |               |
| (T) Yttrium |                       |                     | 105           |                  |               |

L1403564-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1403564-01 09/22/21 12:15 • (MS) R3707941-3 09/22/21 12:15 • (MSD) R3707941-4 09/22/21 12:15

| Analyte     | Spike Amount<br>pCi/l | Original Result<br>pCi/l | MS Result<br>pCi/l | MSD Result<br>pCi/l | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | MS RER | RPD Limits<br>% |
|-------------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|--------|-----------------|
| Radium-228  | 16.7                  | -0.0135                  | 19.5               | 17.4                | 117          | 104           | 1        | 70.0-130         |              |               | 11.3     |        | 20              |
| (T) Barium  |                       | 93.6                     |                    |                     | 98.8         | 103           |          |                  |              |               |          |        |                 |
| (T) Yttrium |                       | 106                      |                    |                     | 98.1         | 103           |          |                  |              |               |          |        |                 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3708395-1 09/23/21 12:10

| Analyte     | MB Result<br>pCi/l | MB Qualifier | MB MDA<br>pCi/l |
|-------------|--------------------|--------------|-----------------|
| Radium-228  | -0.255             | <u>U</u>     | 0.467           |
| (T) Barium  | 101                |              |                 |
| (T) Yttrium | 92.6               |              |                 |

L1403564-26 Original Sample (OS) • Duplicate (DUP)

(OS) L1403564-26 09/23/21 12:10 • (DUP) R3708395-5 09/23/21 12:10

| Analyte     | Original Result<br>pCi/l | DUP Result<br>pCi/l | Dilution | DUP RPD<br>% | DUP RER | DUP Qualifier | DUP RPD<br>Limits<br>% | DUP RER Limit |
|-------------|--------------------------|---------------------|----------|--------------|---------|---------------|------------------------|---------------|
| Radium-228  | -0.474                   | -0.627              | 1        | 0.000        | 0.262   | <u>U</u>      | 20                     | 3             |
| (T) Barium  | 101                      | 106                 |          |              |         |               |                        |               |
| (T) Yttrium | 93.4                     | 101                 |          |              |         |               |                        |               |

Laboratory Control Sample (LCS)

(LCS) R3708395-2 09/23/21 12:10

| Analyte     | Spike Amount<br>pCi/l | LCS Result<br>pCi/l | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|-------------|-----------------------|---------------------|---------------|------------------|---------------|
| Radium-228  | 5.00                  | 5.75                | 115           | 80.0-120         |               |
| (T) Barium  |                       |                     | 95.1          |                  |               |
| (T) Yttrium |                       |                     | 98.9          |                  |               |

Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) • (MS) R3708395-3 09/23/21 12:10 • (MSD) R3708395-4 09/23/21 12:10

| Analyte     | Spike Amount<br>pCi/l | Original Result | MS Result<br>pCi/l | MSD Result<br>pCi/l | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | MS RER | RPD Limits<br>% |
|-------------|-----------------------|-----------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|--------|-----------------|
| Radium-228  | 16.7                  |                 | 20.5               | 20.3                | 117          | 116           | 1        | 70.0-130         |              |               | 0.933    |        | 20              |
| (T) Barium  |                       |                 |                    |                     | 106          | 106           |          |                  |              |               |          |        |                 |
| (T) Yttrium |                       |                 |                    |                     | 98.1         | 94.9          |          |                  |              |               |          |        |                 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3709796-1 09/28/21 10:48

| Analyte        | MB Result<br>pCi/l | MB Qualifier | MB MDA<br>pCi/l |
|----------------|--------------------|--------------|-----------------|
| Radium-226     | -0.00526           | U            | 0.0627          |
| (T) Barium-133 | 94.6               |              |                 |

L1403564-19 Original Sample (OS) • Duplicate (DUP)

(OS) L1403564-19 09/28/21 13:49 • (DUP) R3709796-5 09/28/21 10:48

| Analyte        | Original Result<br>pCi/l | DUP Result<br>pCi/l | Dilution | DUP RPD<br>% | DUP RER | DUP Qualifier | DUP RPD<br>Limits<br>% | DUP RER Limit |
|----------------|--------------------------|---------------------|----------|--------------|---------|---------------|------------------------|---------------|
| Radium-226     | 0.322                    | 0.208               | 1        | 43.2         | 0.317   | J             | 20                     | 3             |
| (T) Barium-133 | 97.9                     | 94.2                |          |              |         |               |                        |               |

Laboratory Control Sample (LCS)

(LCS) R3709796-2 09/28/21 10:48

| Analyte        | Spike Amount<br>pCi/l | LCS Result<br>pCi/l | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|----------------|-----------------------|---------------------|---------------|------------------|---------------|
| Radium-226     | 5.02                  | 4.87                | 97.0          | 80.0-120         |               |
| (T) Barium-133 |                       |                     | 100           |                  |               |

L1403564-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1403564-04 09/28/21 10:48 • (MS) R3709796-3 09/28/21 10:48 • (MSD) R3709796-4 09/28/21 10:48

| Analyte        | Spike Amount<br>pCi/l | Original Result<br>pCi/l | MS Result<br>pCi/l | MSD Result<br>pCi/l | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | MS RER | RPD Limits<br>% |
|----------------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|--------|-----------------|
| Radium-226     | 20.1                  | 0.295                    | 20.3               | 19.9                | 99.4         | 97.4          | 1        | 75.0-125         |              |               | 1.99     |        | 20              |
| (T) Barium-133 |                       | 94.6                     |                    |                     | 96.7         | 96.7          |          |                  |              |               |          |        |                 |

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

Method Blank (MB)

(MB) R3710087-1 09/28/21 16:57

| Analyte        | MB Result<br>pCi/l | MB Qualifier | MB MDA<br>pCi/l |
|----------------|--------------------|--------------|-----------------|
| Radium-226     | 0.00952            | <u>U</u>     | 0.0663          |
| (T) Barium-133 | 103                |              |                 |

L1403564-20 Original Sample (OS) • Duplicate (DUP)

(OS) L1403564-20 09/28/21 16:57 • (DUP) R3710087-5 09/28/21 16:57

| Analyte        | Original Result<br>pCi/l | DUP Result<br>pCi/l | Dilution | DUP RPD<br>% | DUP RER | DUP Qualifier | DUP RPD<br>Limits<br>% | DUP RER Limit |
|----------------|--------------------------|---------------------|----------|--------------|---------|---------------|------------------------|---------------|
| Radium-226     | 0.360                    | 0.0854              | 1        | 123          | 0.881   | <u>U</u>      | 20                     | 3             |
| (T) Barium-133 | 99.5                     | 100                 |          |              |         |               |                        |               |

Laboratory Control Sample (LCS)

(LCS) R3710087-2 09/28/21 16:57

| Analyte        | Spike Amount<br>pCi/l | LCS Result<br>pCi/l | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|----------------|-----------------------|---------------------|---------------|------------------|---------------|
| Radium-226     | 5.02                  | 4.61                | 91.8          | 80.0-120         |               |
| (T) Barium-133 |                       |                     | 105           |                  |               |

L1405085-37 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1405085-37 09/28/21 16:57 • (MS) R3710087-3 09/28/21 16:57 • (MSD) R3710087-4 09/28/21 16:57

| Analyte        | Spike Amount<br>pCi/l | Original Result<br>pCi/l | MS Result<br>pCi/l | MSD Result<br>pCi/l | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | MS RER | RPD Limits<br>% |
|----------------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|--------|-----------------|
| Radium-226     | 20.1                  | -0.0263                  | 19.9               | 18.5                | 98.8         | 92.0          | 1        | 75.0-125         |              |               | 7.09     |        | 20              |
| (T) Barium-133 |                       | 88.7                     |                    |                     | 103          | 101           |          |                  |              |               |          |        |                 |

1  
Cp

2  
Tc

3  
Ss

4  
Cn

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Sr

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Qc

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Gl

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Al

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Sc



# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

### Abbreviations and Definitions

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MDA                          | Minimum Detectable Activity.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Rec.                         | Recovery.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| RER                          | Replicate Error Ratio.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| RPD                          | Relative Percent Difference.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| SDG                          | Sample Delivery Group.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| (T)                          | Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.                                                                                                                                                                                                                                                                                                                           |
| Analyte                      | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.                                                                                                                                                                                                                                                                                                                                                                                                 |
| Dilution                     | If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.                                                                                    |
| Limits                       | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.                                                                                                                                                                                                                                                      |
| Original Sample              | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.                                                                                                                                                                                                                                                                                                                            |
| Qualifier                    | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.                                                                                                                                                                  |
| Result                       | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Uncertainty (Radiochemistry) | Confidence level of 2 sigma.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Case Narrative (Cn)          | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.                                                                                                                                                                          |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.                                                                                                                                                                                              |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.                                                              |
| Sample Results (Sr)          | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.                                                                                                                                                                                             |
| Sample Summary (Ss)          | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.                                                                                                                                                                                                                                                                                                                                                            |

### Qualifier Description

|   |                                                                                     |
|---|-------------------------------------------------------------------------------------|
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| U | Below Detectable Limits: Indicates that the analyte was not detected.               |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

# ACCREDITATIONS & LOCATIONS

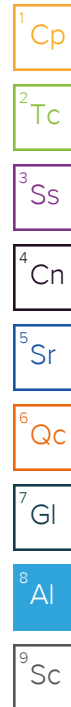
## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

|                                |             |                             |                  |
|--------------------------------|-------------|-----------------------------|------------------|
| Alabama                        | 40660       | Nebraska                    | NE-OS-15-05      |
| Alaska                         | 17-026      | Nevada                      | TN000032021-1    |
| Arizona                        | AZ0612      | New Hampshire               | 2975             |
| Arkansas                       | 88-0469     | New Jersey--NELAP           | TN002            |
| California                     | 2932        | New Mexico <sup>1</sup>     | TN00003          |
| Colorado                       | TN00003     | New York                    | 11742            |
| Connecticut                    | PH-0197     | North Carolina              | Env375           |
| Florida                        | E87487      | North Carolina <sup>1</sup> | DW21704          |
| Georgia                        | NELAP       | North Carolina <sup>3</sup> | 41               |
| Georgia <sup>1</sup>           | 923         | North Dakota                | R-140            |
| Idaho                          | TN00003     | Ohio--VAP                   | CL0069           |
| Illinois                       | 200008      | Oklahoma                    | 9915             |
| Indiana                        | C-TN-01     | Oregon                      | TN200002         |
| Iowa                           | 364         | Pennsylvania                | 68-02979         |
| Kansas                         | E-10277     | Rhode Island                | LA000356         |
| Kentucky <sup>1 6</sup>        | KY90010     | South Carolina              | 84004002         |
| Kentucky <sup>2</sup>          | 16          | South Dakota                | n/a              |
| Louisiana                      | AI30792     | Tennessee <sup>1 4</sup>    | 2006             |
| Louisiana                      | LA018       | Texas                       | T104704245-20-18 |
| Maine                          | TN00003     | Texas <sup>5</sup>          | LAB0152          |
| Maryland                       | 324         | Utah                        | TN000032021-11   |
| Massachusetts                  | M-TN003     | Vermont                     | VT2006           |
| Michigan                       | 9958        | Virginia                    | 110033           |
| Minnesota                      | 047-999-395 | Washington                  | C847             |
| Mississippi                    | TN00003     | West Virginia               | 233              |
| Missouri                       | 340         | Wisconsin                   | 998093910        |
| Montana                        | CERT0086    | Wyoming                     | A2LA             |
| A2LA -- ISO 17025              | 1461.01     | AIHA-LAP,LLC EMLAP          | 100789           |
| A2LA -- ISO 17025 <sup>5</sup> | 1461.02     | DOD                         | 1461.01          |
| Canada                         | 1461.01     | USDA                        | P330-15-00234    |
| EPA--Crypto                    | TN00003     |                             |                  |

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



**TEKLAB, INC. Chain of Custody**

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☒ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ FieldTeklab Inc  
5445 Horseshoe Lake Road  
Collinsville, IL 62234Cooler Temp:  Sampler: J. Riley J. Wilson

QC Level: 3

Project# 21081267

Contact: Elizabeth A. Hurley

Email: ehurley@teklabinc.com

Requested Due Date: 10-15 day TAT

Billing/PO: 31803

Comments: Please Issue reports and invoices via email only

Please analyze for Radium 226/228 per methods specified for Vistra/Ramboll projects.

IL site

Batch QC is required for all analyses requested.

Any changes to analysis/methods must be approved by Teklab, Inc.

Phone: (618) 3441004 ext 33

A205

**PLEASE NOTE:**

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

| Lab Use | Sample ID    | Sample Date/Time | Preservative | Matrix      | Ra226/228 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---------|--------------|------------------|--------------|-------------|-----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| -01     | 21081267-001 | 9/10/21 0934     | HNO3         | Groundwater | ✓         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|         | 21081267-002 | 9/10/21 0834     | HNO3         | Groundwater | ✓         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| -02     | 21081267-003 | 9/10/21 0820     | HNO3         | Groundwater | ✓         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| -03     | 21081267-004 | 9/9/21 1708      | HNO3         | Groundwater | ✓         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| -04     | 21081267-005 | 9/9/21 1433      | HNO3         | Groundwater | ✓         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| -05     | 21081267-006 | 9/9/21 1433      | HNO3         | Groundwater | ✓         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|         | 21081267-007 | 9/9/21 1411      | HNO3         | Groundwater | ✓         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|         | 21081267-008 | 9/9/21 1241      | HNO3         | Groundwater | ✓         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| -06     | 21081267-009 | 9/9/21 1224      | HNO3         | Groundwater | ✓         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| -07     | 21081267-010 | 9/9/21 1353      | HNO3         | Groundwater | ✓         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| -08     | 21081267-011 | 9/9/21 1336      | HNO3         | Groundwater | ✓         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| *Relinquished By | Date/Time    | Received By | Date/Time    |
|------------------|--------------|-------------|--------------|
| Mary Kump        | 9/13/21 1600 | Wally M     | 9/15/21 1100 |
|                  |              |             |              |
|                  |              |             |              |

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SubCocRevA  
3/2/2016530052014673  
53005201465  
530052014602

**TEKLAB, INC. Chain of Custody**

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☒ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ FieldTeklab Inc  
5445 Horseshoe Lake Road  
Collinsville, IL 62234Cooler Temp:  Sampler: J. Riley J. Wilson

QC Level: 3

Project# 21081267

Contact: Elizabeth A. Hurley

Email: ehurley@teklabinc.com

Requested Due Date: 10-15 day TAT

Billing/PO: 31803

Phone: (618) 3441004 ext 33

Comments: Please issue reports and invoices via email only

Please analyze for Radium 22/228 per methods specified for Vistra/Ramboll projects.

IL site

Batch QC is required for all analyses requested.

Any changes to analysis/methods must be approved by Teklab, Inc.

**PLEASE NOTE:**

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

| Lab Use | Sample ID    | Sample Date/Time | Preservative | Matrix      | Ra226/228 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---------|--------------|------------------|--------------|-------------|-----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| -09     | 21081267-012 | 9/10/21 0909     | HNO3         | Groundwater | ✓         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| -10     | 21081267-013 | 9/10/21 0854     | HNO3         | Groundwater | ✓         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| -11     | 21081267-014 | 9/9/21 1608      | HNO3         | Groundwater | ✓         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| -12     | 21081267-015 | 9/9/21 1751      | HNO3         | Groundwater | ✓         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| -13     | 21081267-016 | 9/9/21 1013      | HNO3         | Groundwater | ✓         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| -14     | 21081267-017 | 9/8/21 1345      | HNO3         | Groundwater | ✓         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| -15     | 21081267-018 | 9/8/21 1401      | HNO3         | Groundwater | ✓         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| -16     | 21081267-019 | 9/9/21 1112      | HNO3         | Groundwater | ✓         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| -17     | 21081267-020 | 9/9/21 0829      | HNO3         | Groundwater | ✓         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| -18     | 21081267-021 | 9/9/21 0848      | HNO3         | Groundwater | ✓         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| -19     | 21081267-022 | 9/9/21 0935      | HNO3         | Groundwater | ✓         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| *Relinquished By | Date/Time    | Received By | Date/Time     |
|------------------|--------------|-------------|---------------|
| Mary Kemp        | 9/13/21 1600 | Harley M    | 09/15/21 1100 |
|                  |              |             |               |
|                  |              |             |               |
|                  |              |             |               |



## TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☒ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

**Teklab Inc**  
**5445 Horseshoe Lake Road**  
**Collinsville, IL 62234**

Cooler Temp:  Sampler: J. Riley J. Wilson

QC Level: 3

|          |          |
|----------|----------|
| Project# | 21081267 |
|----------|----------|

Contact: Elizabeth A. Hurley

Email: [ehurley@teklabinc.com](mailto:ehurley@teklabinc.com)

Requested Due Date: 10-15 day TAT

Billing/PO: 31803

Comments: **Please Issue reports and invoices via email only**

Please analyze for Radium 22/228 per methods specified for Vistra/Ramboll projects.

IL site

Batch QC is required for all analyses requested.

Any changes to analysis/methods must be approved by Teklab, Inc.

Phone: (618) 3441004 ext 33

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

| Lab Use | Sample ID    | Sample Date/Time | Preservative | Matrix      |
|---------|--------------|------------------|--------------|-------------|
| -20     | 21081267-023 | 9/8/21 1602      | HNO3         | Groundwater |
| -21     | 21081267-025 | 9/9/21 1301      | HNO3         | Groundwater |
| -22     | 21081267-026 | 9/9/21 1203      | HNO3         | Groundwater |
| -23     | 21081267-027 | 9/8/21 1635      | HNO3         | Groundwater |
| -24     | 21081267-028 | 9/8/21 1313      | HNO3         | Groundwater |
| -25     | 21081267-029 | 9/9/21 1044      | HNO3         | Groundwater |
| -26     | 21081267-030 | 9/10/21 1045     | HNO3         | Groundwater |

[illegible]

### Sample Receipt Checklist

|                          |   |   |                      |     |
|--------------------------|---|---|----------------------|-----|
| COC Seal Present/Intact: | Y | N | If Applicable        |     |
| COC Signed/Accurate:     | Y | N | VOA Zero Headspace:  | Y N |
| Bottles arrive intact:   | Y | N | Pres. Correct/Check: | Y N |
| Correct bottles used:    | Y | N |                      |     |
| Sufficient volume sent:  | Y | N |                      |     |
| RAD Screen <0.5 mR/hr:   | Y | N |                      |     |

103 Groundwater

103 Groundwater

|    |             |
|----|-------------|
| 03 | Groundwater |
|----|-------------|

|    |             |
|----|-------------|
| 03 | Groundwater |
|----|-------------|

| Relinquished By | Date/Time    | Received By | Date/Time    |
|-----------------|--------------|-------------|--------------|
| Mary Kemp       | 9/13/21 1600 | Wesley M    | 9/15/21 1100 |
|                 |              |             |              |
|                 |              |             |              |

9/15-NCF-L1403564 TEKLABIL

R5

Time estimate: 0h      Time spent: 0h

Members

 Hailey Melson (responsible)       Mark Beasley

Due on 18 September 2021 8:00 AM for target Done

- ☒ Login Clarification needed
- ☐ Chain of custody is incomplete
- ☐ Please specify Metals requested
- ☐ Please specify TCLP requested
- ☐ Received additional samples not listed on COC
- ☐ Sample IDs on containers do not match IDs on COC
- ☐ Client did not "X" analysis
- ☐ Chain of Custody is missing
- ☐ If no COC: Received by: \_\_\_\_\_
- ☐ If no COC: Date/Time: \_\_\_\_\_
- ☐ If no COC: Temp./Cont.Rec./pH: \_\_\_\_\_
- ☐ If no COC: Carrier: \_\_\_\_\_
- ☐ If no COC: Tracking #: \_\_\_\_\_
- ☐ Client informed by call
- ☐ Client informed by Email
- ☐ Client informed by Voicemail
- ☐ Date/Time: 9/15/21 \_\_\_\_\_
- ☐ PM initials: \_\_\_\_\_ MB \_\_\_\_\_
- ☐ Client Contact: \_\_\_\_\_ Elizabeth Hurley \_\_\_\_\_

Comments

|                                       |                           |
|---------------------------------------|---------------------------|
| Hailey Melson                         | 15 September 2021 4:33 PM |
| Missing samples -002, -007, and -008. |                           |
| Mark Beasley                          | 15 September 2021 5:39 PM |
| Client notified                       |                           |

October 14, 2021

Steve Wiskes  
Ramboll  
234 W. Florida St.  
5th Floor  
Milwaukee, WI 53204  
TEL: (414) 837-3614  
FAX:



|           |         |
|-----------|---------|
| Illinois  | 100226  |
| Kansas    | E-10374 |
| Louisiana | 05002   |
| Louisiana | 05003   |
| Oklahoma  | 9978    |

**RE:** Hennepin CCR Q3 2021 Resampling

**WorkOrder:** 21091099

Dear Steve Wiskes:

TEKLAB, INC received 4 samples on 9/23/2021 7:20:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Elizabeth A. Hurley  
Project Manager  
(618)344-1004 ex 33  
[ehurley@teklabinc.com](mailto:ehurley@teklabinc.com)

**Client:** Ramboll

**Work Order:** 21091099

**Client Project:** Hennepin CCR Q3 2021 Resampling

**Report Date:** 14-Oct-21

**This reporting package includes the following:**

|                         |          |
|-------------------------|----------|
| Cover Letter            | 1        |
| Report Contents         | 2        |
| Definitions             | 3        |
| Case Narrative          | 5        |
| Accreditations          | 6        |
| Laboratory Results      | 7        |
| Sample Summary          | 10       |
| Dates Report            | 11       |
| Quality Control Results | 12       |
| Receiving Check List    | 13       |
| Chain of Custody        | Appended |



**Client:** Ramboll

**Work Order:** 21091099

**Client Project:** Hennepin CCR Q3 2021 Resampling

**Report Date:** 14-Oct-21

### Abbr Definition

\* Analytes on report marked with an asterisk are not NELAP accredited

**CCV** Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.

**CRQL** A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.

**DF** Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.

**DNI** Did not ignite

**DUP** Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.

**ICV** Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.

**IDPH** IL Dept. of Public Health

**LCS** Laboratory control sample is a sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.

**LCSD** Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).

**MBLK** Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.

**MDL** "The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."

**MS** Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).

**MSD** Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).

**MW** Molecular weight

**NC** Data is not acceptable for compliance purposes

**ND** Not Detected at the Reporting Limit

**NELAP** NELAP Accredited

**PQL** Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.

**RL** The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.

**RPD** Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).

**SPK** The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.

**Surr** Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.

**TIC** Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"

**TNTC** Too numerous to count (> 200 CFU)

**Client:** Ramboll

**Work Order:** 21091099

**Client Project:** Hennepin CCR Q3 2021 Resampling

**Report Date:** 14-Oct-21

### Qualifiers

- |                                                       |                                                              |
|-------------------------------------------------------|--------------------------------------------------------------|
| # - Unknown hydrocarbon                               | B - Analyte detected in associated Method Blank              |
| C - RL shown is a Client Requested Quantitation Limit | E - Value above quantitation range                           |
| H - Holding times exceeded                            | I - Associated internal standard was outside method criteria |
| J - Analyte detected below quantitation limits        | M - Manual Integration used to determine area response       |
| ND - Not Detected at the Reporting Limit              | R - RPD outside accepted recovery limits                     |
| S - Spike Recovery outside recovery limits            | T - TIC(Tentatively identified compound)                     |
| X - Value exceeds Maximum Contaminant Level           |                                                              |



## Case Narrative

<http://www.teklabinc.com/>

**Client:** Ramboll

**Work Order:** 21091099

**Client Project:** Hennepin CCR Q3 2021 Resampling

**Report Date:** 14-Oct-21

**Cooler Receipt Temp:** 0.2 °C

An employee of Teklab, Inc. collected the sample(s).

Radium-226 and Radium-228 analysis was performed by Pace Analytical Services, LLC. See attached report for results.

This report contains CCR 802 data. EAH 10/14/21

### Locations

#### Collinsville

**Address** 5445 Horseshoe Lake Road  
Collinsville, IL 62234-7425  
**Phone** (618) 344-1004  
**Fax** (618) 344-1005  
**Email** jhriley@teklabinc.com

#### Collinsville Air

**Address** 5445 Horseshoe Lake Road  
Collinsville, IL 62234-7425  
**Phone** (618) 344-1004  
**Fax** (618) 344-1005  
**Email** EHurley@teklabinc.com

#### Springfield

**Address** 3920 Pintail Dr  
Springfield, IL 62711-9415  
**Phone** (217) 698-1004  
**Fax** (217) 698-1005  
**Email** KKlostermann@teklabinc.com

#### Chicago

**Address** 1319 Butterfield Rd.  
Downers Grove, IL 60515  
**Phone** (630) 324-6855  
**Fax**  
**Email** arenner@teklabinc.com

#### Kansas City

**Address** 8421 Nieman Road  
Lenexa, KS 66214  
**Phone** (913) 541-1998  
**Fax** (913) 541-1998  
**Email** jhriley@teklabinc.com

**Client:** Ramboll**Work Order:** 21091099**Client Project:** Hennepin CCR Q3 2021 Resampling**Report Date:** 14-Oct-21

| State     | Dept | Cert #  | NELAP | Exp Date  | Lab          |
|-----------|------|---------|-------|-----------|--------------|
| Illinois  | IEPA | 100226  | NELAP | 1/31/2022 | Collinsville |
| Kansas    | KDHE | E-10374 | NELAP | 4/30/2022 | Collinsville |
| Louisiana | LDEQ | 05002   | NELAP | 6/30/2022 | Collinsville |
| Louisiana | LDEQ | 05003   | NELAP | 6/30/2022 | Collinsville |
| Oklahoma  | ODEQ | 9978    | NELAP | 8/31/2022 | Collinsville |
| Arkansas  | ADEQ | 88-0966 |       | 3/14/2022 | Collinsville |
| Illinois  | IDPH | 17584   |       | 5/31/2021 | Collinsville |
| Kentucky  | UST  | 0073    |       | 1/31/2022 | Collinsville |
| Missouri  | MDNR | 00930   |       | 5/31/2021 | Collinsville |
| Missouri  | MDNR | 930     |       | 1/31/2022 | Collinsville |



## Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll  
Client Project: Hennepin CCR Q3 2021 Resampling  
Lab ID: 21091099-001  
Matrix: GROUNDWATER

Work Order: 21091099  
Report Date: 14-Oct-21

Client Sample ID: 05DR

Collection Date: 09/22/2021 14:01

| Analyses                                      | Certification | RL   | Qual         | Result | Units | DF | Date Analyzed    | Batch   |
|-----------------------------------------------|---------------|------|--------------|--------|-------|----|------------------|---------|
| <b>FIELD ELEVATION MEASUREMENTS</b>           |               |      |              |        |       |    |                  |         |
| Depth to water from measuring point           | *             | 0    |              | 40.42  | ft    | 1  | 09/22/2021 14:01 | R301262 |
| <b>STANDARD METHOD 4500-H B 2001 FIELD</b>    |               |      |              |        |       |    |                  |         |
| pH                                            | *             | 1.00 |              | 7.30   |       | 1  | 09/22/2021 14:01 | R301262 |
| <b>STANDARD METHODS 2130 B FIELD</b>          |               |      |              |        |       |    |                  |         |
| Turbidity                                     | *             | 1.0  |              | 3.4    | NTU   | 1  | 09/22/2021 14:01 | R301262 |
| <b>STANDARD METHODS 18TH ED. 2580 B FIELD</b> |               |      |              |        |       |    |                  |         |
| Oxidation-Reduction Potential                 | *             | -300 |              | 149    | mV    | 1  | 09/22/2021 14:01 | R301262 |
| <b>STANDARD METHODS 2510 B FIELD</b>          |               |      |              |        |       |    |                  |         |
| Spec. Conductance, Field                      | *             | 0    |              | 1150   | µS/cm | 1  | 09/22/2021 14:01 | R301262 |
| <b>STANDARD METHODS 2550 B FIELD</b>          |               |      |              |        |       |    |                  |         |
| Temperature                                   | *             | 0    |              | 17.4   | °C    | 1  | 09/22/2021 14:01 | R301262 |
| <b>STANDARD METHODS 4500-O G FIELD</b>        |               |      |              |        |       |    |                  |         |
| Oxygen, Dissolved                             | *             | 0    |              | 0.68   | mg/L  | 1  | 09/22/2021 14:01 | R301262 |
| <b>EPA 903.0/904.0, RADIUM 226/228</b>        |               |      |              |        |       |    |                  |         |
| Radium-226                                    | *             | 0    | See Attached |        | pci/L | 1  | 10/06/2021 0:00  | R301230 |
| Radium-228                                    | *             | 0    | See Attached |        | pci/L | 1  | 10/06/2021 0:00  | R301230 |



## Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll  
Client Project: Hennepin CCR Q3 2021 Resampling  
Lab ID: 21091099-002  
Matrix: GROUNDWATER

Work Order: 21091099  
Report Date: 14-Oct-21

Client Sample ID: 08D

Collection Date: 09/22/2021 13:29

| Analyses                                      | Certification | RL   | Qual         | Result | Units | DF | Date Analyzed    | Batch   |
|-----------------------------------------------|---------------|------|--------------|--------|-------|----|------------------|---------|
| <b>FIELD ELEVATION MEASUREMENTS</b>           |               |      |              |        |       |    |                  |         |
| Depth to water from measuring point           | *             | 0    |              | 53.01  | ft    | 1  | 09/22/2021 13:29 | R301262 |
| <b>STANDARD METHOD 4500-H B 2001 FIELD</b>    |               |      |              |        |       |    |                  |         |
| pH                                            | *             | 1.00 |              | 6.58   |       | 1  | 09/22/2021 13:29 | R301262 |
| <b>STANDARD METHODS 2130 B FIELD</b>          |               |      |              |        |       |    |                  |         |
| Turbidity                                     | *             | 1.0  |              | 8.7    | NTU   | 1  | 09/22/2021 13:29 | R301262 |
| <b>STANDARD METHODS 18TH ED. 2580 B FIELD</b> |               |      |              |        |       |    |                  |         |
| Oxidation-Reduction Potential                 | *             | -300 |              | 181    | mV    | 1  | 09/22/2021 13:29 | R301262 |
| <b>STANDARD METHODS 2510 B FIELD</b>          |               |      |              |        |       |    |                  |         |
| Spec. Conductance, Field                      | *             | 0    |              | 2580   | µS/cm | 1  | 09/22/2021 13:29 | R301262 |
| <b>STANDARD METHODS 2550 B FIELD</b>          |               |      |              |        |       |    |                  |         |
| Temperature                                   | *             | 0    |              | 14.2   | °C    | 1  | 09/22/2021 13:29 | R301262 |
| <b>STANDARD METHODS 4500-O G FIELD</b>        |               |      |              |        |       |    |                  |         |
| Oxygen, Dissolved                             | *             | 0    |              | 0.39   | mg/L  | 1  | 09/22/2021 13:29 | R301262 |
| <b>EPA 903.0/904.0, RADIUM 226/228</b>        |               |      |              |        |       |    |                  |         |
| Radium-226                                    | *             | 0    | See Attached |        | pci/L | 1  | 10/06/2021 0:00  | R301230 |
| Radium-228                                    | *             | 0    | See Attached |        | pci/L | 1  | 10/06/2021 0:00  | R301230 |



## Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll  
Client Project: Hennepin CCR Q3 2021 Resampling  
Lab ID: 21091099-004  
Matrix: GROUNDWATER

Work Order: 21091099  
Report Date: 14-Oct-21

Client Sample ID: 45S

Collection Date: 09/22/2021 14:15

| Analyses                                      | Certification | RL   | Qual         | Result | Units | DF | Date Analyzed    | Batch   |
|-----------------------------------------------|---------------|------|--------------|--------|-------|----|------------------|---------|
| <b>FIELD ELEVATION MEASUREMENTS</b>           |               |      |              |        |       |    |                  |         |
| Depth to water from measuring point           | *             | 0    |              | 19.61  | ft    | 1  | 09/22/2021 14:15 | R301262 |
| <b>STANDARD METHOD 4500-H B 2001 FIELD</b>    |               |      |              |        |       |    |                  |         |
| pH                                            | *             | 1.00 |              | 7.12   |       | 1  | 09/22/2021 14:15 | R301262 |
| <b>STANDARD METHODS 2130 B FIELD</b>          |               |      |              |        |       |    |                  |         |
| Turbidity                                     | *             | 1.0  |              | 4.3    | NTU   | 1  | 09/22/2021 14:15 | R301262 |
| <b>STANDARD METHODS 18TH ED. 2580 B FIELD</b> |               |      |              |        |       |    |                  |         |
| Oxidation-Reduction Potential                 | *             | -300 |              | 141    | mV    | 1  | 09/22/2021 14:15 | R301262 |
| <b>STANDARD METHODS 2510 B FIELD</b>          |               |      |              |        |       |    |                  |         |
| Spec. Conductance, Field                      | *             | 0    |              | 1120   | µS/cm | 1  | 09/22/2021 14:15 | R301262 |
| <b>STANDARD METHODS 2550 B FIELD</b>          |               |      |              |        |       |    |                  |         |
| Temperature                                   | *             | 0    |              | 18.1   | °C    | 1  | 09/22/2021 14:15 | R301262 |
| <b>STANDARD METHODS 4500-O G FIELD</b>        |               |      |              |        |       |    |                  |         |
| Oxygen, Dissolved                             | *             | 0    |              | 0.36   | mg/L  | 1  | 09/22/2021 14:15 | R301262 |
| <b>EPA 903.0/904.0, RADIUM 226/228</b>        |               |      |              |        |       |    |                  |         |
| Radium-226                                    | *             | 0    | See Attached |        | pci/L | 1  | 10/06/2021 0:00  | R301230 |
| Radium-228                                    | *             | 0    | See Attached |        | pci/L | 1  | 10/06/2021 0:00  | R301230 |

## Sample Summary

<http://www.teklabinc.com/>

**Client:** Ramboll

**Work Order:** 21091099

**Client Project:** Hennepin CCR Q3 2021 Resampling

**Report Date:** 14-Oct-21

| Lab Sample ID | Client Sample ID | Matrix      | Fractions | Collection Date  |
|---------------|------------------|-------------|-----------|------------------|
| 21091099-001  | 05DR             | Groundwater | 2         | 09/22/2021 14:01 |
| 21091099-002  | 08D              | Groundwater | 2         | 09/22/2021 13:29 |
| 21091099-004  | 45S              | Groundwater | 2         | 09/22/2021 14:15 |



**Client:** Ramboll

**Work Order:** 21091099

**Client Project:** Hennepin CCR Q3 2021 Resampling

**Report Date:** 14-Oct-21

| Sample ID     | Client Sample ID                       | Collection Date  | Received Date   | Prep Date/Time | Analysis Date/Time |
|---------------|----------------------------------------|------------------|-----------------|----------------|--------------------|
| Test Name     |                                        |                  |                 |                |                    |
| 21091099-001A | 05DR                                   | 09/22/2021 14:01 | 09/23/2021 7:20 |                |                    |
|               | EPA 903.0/904.0, Radium 226/228        |                  |                 |                | 10/06/2021 0:00    |
| 21091099-001B | 05DR                                   | 09/22/2021 14:01 | 09/23/2021 7:20 |                |                    |
|               | Field Elevation Measurements           |                  |                 |                | 09/22/2021 14:01   |
|               | Standard Method 4500-H B 2001 Field    |                  |                 |                | 09/22/2021 14:01   |
|               | Standard Methods 2130 B Field          |                  |                 |                | 09/22/2021 14:01   |
|               | Standard Methods 18th Ed. 2580 B Field |                  |                 |                | 09/22/2021 14:01   |
|               | Standard Methods 2510 B Field          |                  |                 |                | 09/22/2021 14:01   |
|               | Standard Methods 2550 B Field          |                  |                 |                | 09/22/2021 14:01   |
|               | Standard Methods 4500-O G Field        |                  |                 |                | 09/22/2021 14:01   |
| 21091099-002A | 08D                                    | 09/22/2021 13:29 | 09/23/2021 7:20 |                |                    |
|               | EPA 903.0/904.0, Radium 226/228        |                  |                 |                | 10/06/2021 0:00    |
| 21091099-002B | 08D                                    | 09/22/2021 13:29 | 09/23/2021 7:20 |                |                    |
|               | Field Elevation Measurements           |                  |                 |                | 09/22/2021 13:29   |
|               | Standard Method 4500-H B 2001 Field    |                  |                 |                | 09/22/2021 13:29   |
|               | Standard Methods 2130 B Field          |                  |                 |                | 09/22/2021 13:29   |
|               | Standard Methods 18th Ed. 2580 B Field |                  |                 |                | 09/22/2021 13:29   |
|               | Standard Methods 2510 B Field          |                  |                 |                | 09/22/2021 13:29   |
|               | Standard Methods 2550 B Field          |                  |                 |                | 09/22/2021 13:29   |
|               | Standard Methods 4500-O G Field        |                  |                 |                | 09/22/2021 13:29   |
| 21091099-004A | 45S                                    | 09/22/2021 14:15 | 09/23/2021 7:20 |                |                    |
|               | EPA 903.0/904.0, Radium 226/228        |                  |                 |                | 10/06/2021 0:00    |
| 21091099-004B | 45S                                    | 09/22/2021 14:15 | 09/23/2021 7:20 |                |                    |
|               | Field Elevation Measurements           |                  |                 |                | 09/22/2021 14:15   |
|               | Standard Method 4500-H B 2001 Field    |                  |                 |                | 09/22/2021 14:15   |
|               | Standard Methods 2130 B Field          |                  |                 |                | 09/22/2021 14:15   |
|               | Standard Methods 18th Ed. 2580 B Field |                  |                 |                | 09/22/2021 14:15   |
|               | Standard Methods 2510 B Field          |                  |                 |                | 09/22/2021 14:15   |
|               | Standard Methods 2550 B Field          |                  |                 |                | 09/22/2021 14:15   |
|               | Standard Methods 4500-O G Field        |                  |                 |                | 09/22/2021 14:15   |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 21091099

Client Project: Hennepin CCR Q3 2021 Resampling

Report Date: 14-Oct-21

### STANDARD METHOD 4500-H B 2001 FIELD

| Batch R301262       |      | SampType: LCS |      | Units  |       |             |      |           |            |               |
|---------------------|------|---------------|------|--------|-------|-------------|------|-----------|------------|---------------|
| SampID: LCS-R301262 |      |               |      |        |       |             |      |           |            |               |
| Analyses            | Cert | RL            | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
| pH                  | *    | 1.00          |      | 6.96   | 7.000 | 0           | 99.4 | 98.57     | 101.4      | 09/22/2021    |

### STANDARD METHODS 2510 B FIELD

| Batch R301262            |      | SampType: LCS |      | Units $\mu\text{S}/\text{cm}$ |       |             |      |           |            |            |               |
|--------------------------|------|---------------|------|-------------------------------|-------|-------------|------|-----------|------------|------------|---------------|
| SampID: LCS-R301262      |      |               |      |                               |       |             |      |           |            |            | Date Analyzed |
| Analyses                 | Cert | RL            | Qual | Result                        | Spike | SPK Ref Val | %REC | Low Limit | High Limit |            |               |
| Spec. Conductance, Field | *    | 0             |      | 1340                          | 1409  | 0           | 95.3 | 90        | 110        | 09/22/2021 |               |



## Receiving Check List

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 21091099

Client Project: Hennepin CCR Q3 2021 Resampling

Report Date: 14-Oct-21

Carrier: Joe Riley

Received By: EAH

Completed by:

On:

23-Sep-21

Mary E. Kemp

Reviewed by:

On:

23-Sep-21

Elizabeth A. Hurley

Pages to follow:

Chain of custody

1

Extra pages included

13

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Temp °C 0.2

Type of thermal preservation?

None ☐

Ice ☒

Blue Ice ☐

Dry Ice ☐

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Reported field parameters measured:

Field ☒

Lab ☐

NA ☐

Container/Temp Blank temperature in compliance?

Yes ☒

No ☐

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water – at least one vial per sample has zero headspace?

Yes ☐

No ☐

No VOA vials ☒

Water - TOX containers have zero headspace?

Yes ☐

No ☐

No TOX containers ☒

Water - pH acceptable upon receipt?

Yes ☐

No ☒

NA ☐

NPDES/CWA TCN interferences checked/treated in the field?

Yes ☐

No ☐

NA ☒

Any No responses must be detailed below or on the COC.

pH strip #77492. - PR/MKemp - 9/23/2021 9:01:34 AM

Additional nitric acid (78366) was needed in all samples upon arrival at the laboratory. - PR/MKemp - 9/23/2021 9:01:36 AM

Pg 1 of 1 Workorder # 21091099

[illegible]

CoC Rev C Aug 2020

**TEKLAB, Inc.**

Sample Delivery Group: L1409908

Samples Received: 09/27/2021

Project Number: 21091099

Description:

Report To: Elizabeth Hurley  
5445 Horseshoe Lake Road  
Collinsville, IL 62234

Entire Report Reviewed By:



Mark W. Beasley  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

**Pace Analytical National**12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 [www.pacenational.com](http://www.pacenational.com)

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# SAMPLE SUMMARY

## 21091099-001 L1409908-01 Non-Potable Water

Collected by  
Collected date/time  
09/22/21 14:01  
Received date/time  
09/27/21 09:30

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method Calculation  | WG1740797 | 1        | 10/06/21 14:20        | 10/07/21 12:35     | RGT     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1740797 | 1        | 10/06/21 14:20        | 10/07/21 12:35     | RGT     | Mt. Juliet, TN |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

## 21091099-002 L1409908-02 Non-Potable Water

Collected by  
Collected date/time  
09/22/21 13:29  
Received date/time  
09/27/21 09:30

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method Calculation  | WG1740797 | 1        | 10/06/21 14:20        | 10/07/21 12:35     | RGT     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1740797 | 1        | 10/06/21 14:20        | 10/07/21 12:35     | RGT     | Mt. Juliet, TN |

## 21091099-003 L1409908-03 Non-Potable Water

Collected by  
Collected date/time  
09/22/21 13:44  
Received date/time  
09/27/21 09:30

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method Calculation  | WG1740797 | 1        | 10/06/21 14:20        | 10/07/21 12:35     | RGT     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1740797 | 1        | 10/06/21 14:20        | 10/07/21 12:35     | RGT     | Mt. Juliet, TN |

## 21091099-004 L1409908-04 Non-Potable Water

Collected by  
Collected date/time  
09/22/21 14:15  
Received date/time  
09/27/21 09:30

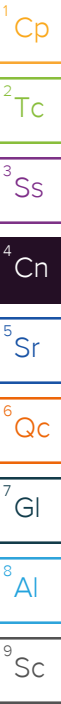
| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method Calculation  | WG1740797 | 1        | 10/06/21 14:20        | 10/07/21 12:36     | RGT     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1740797 | 1        | 10/06/21 14:20        | 10/07/21 12:36     | RGT     | Mt. Juliet, TN |

# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Mark W. Beasley  
Project Manager





Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-228  | 0.713  |           | 0.281       | 0.527    | 10/06/2021 16:45 | <a href="#">WG1748732</a> |
| (T) Barium  | 111    |           |             | 62.0-143 | 10/06/2021 16:45 | <a href="#">WG1748732</a> |
| (T) Yttrium | 102    |           |             | 79.0-136 | 10/06/2021 16:45 | <a href="#">WG1748732</a> |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch                     |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |                           |
| Combined Radium | 1.05   |           | 0.576       | 0.867 | 10/07/2021 12:35 | <a href="#">WG1740797</a> |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-226     | 0.337  | J         | 0.295       | 0.34     | 10/07/2021 12:35 | <a href="#">WG1740797</a> |
| (T) Barium-133 | 98.5   |           |             | 30.0-143 | 10/07/2021 12:35 | <a href="#">WG1740797</a> |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-228  | 1.15   |           | 0.286       | 0.52     | 10/06/2021 16:45 | <a href="#">WG1748732</a> |
| (T) Barium  | 112    |           |             | 62.0-143 | 10/06/2021 16:45 | <a href="#">WG1748732</a> |
| (T) Yttrium | 96.6   |           |             | 79.0-136 | 10/06/2021 16:45 | <a href="#">WG1748732</a> |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch                     |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |                           |
| Combined Radium | 1.67   |           | 0.625       | 0.869 | 10/07/2021 12:35 | <a href="#">WG1740797</a> |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-226     | 0.512  |           | 0.339       | 0.349    | 10/07/2021 12:35 | <a href="#">WG1740797</a> |
| (T) Barium-133 | 98.2   |           |             | 30.0-143 | 10/07/2021 12:35 | <a href="#">WG1740797</a> |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

## Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-228  | 0.375  | J         | 0.300       | 0.576    | 10/06/2021 16:45 | <a href="#">WG1748732</a> |
| (T) Barium  | 108    |           |             | 62.0-143 | 10/06/2021 16:45 | <a href="#">WG1748732</a> |
| (T) Yttrium | 92.4   |           |             | 79.0-136 | 10/06/2021 16:45 | <a href="#">WG1748732</a> |

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss

## Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch                     |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |                           |
| Combined Radium | 0.759  | J         | 0.564       | 0.794 | 10/07/2021 12:35 | <a href="#">WG1740797</a> |

<sup>4</sup> Cn<sup>5</sup> Sr

## Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-226     | 0.385  |           | 0.264       | 0.218    | 10/07/2021 12:35 | <a href="#">WG1740797</a> |
| (T) Barium-133 | 101    |           |             | 30.0-143 | 10/07/2021 12:35 | <a href="#">WG1740797</a> |

<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al<sup>9</sup> Sc

Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|-------------|--------|-----------|-------------|----------|------------------|-----------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-228  | 0.0558 | U         | 0.254       | 0.5      | 10/06/2021 16:45 | WG1748732 |
| (T) Barium  | 103    |           |             | 62.0-143 | 10/06/2021 16:45 | WG1748732 |
| (T) Yttrium | 95.4   |           |             | 79.0-136 | 10/06/2021 16:45 | WG1748732 |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch     |
|-----------------|--------|-----------|-------------|-------|------------------|-----------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |           |
| Combined Radium | 0.630  | J         | 0.577       | 0.772 | 10/07/2021 12:36 | WG1740797 |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|----------------|--------|-----------|-------------|----------|------------------|-----------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-226     | 0.574  |           | 0.323       | 0.272    | 10/07/2021 12:36 | WG1740797 |
| (T) Barium-133 | 97.4   |           |             | 30.0-143 | 10/07/2021 12:36 | WG1740797 |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R3713547-1 10/06/21 16:45

| Analyte     | MB Result<br>pCi/l | MB Qualifier | MB MDA<br>pCi/l |
|-------------|--------------------|--------------|-----------------|
| Radium-228  | 0.545              |              | 0.405           |
| (T) Barium  | 97.9               |              |                 |
| (T) Yttrium | 100                |              |                 |

Laboratory Control Sample (LCS)

(LCS) R3713547-2 10/06/21 16:45

| Analyte     | Spike Amount<br>pCi/l | LCS Result<br>pCi/l | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|-------------|-----------------------|---------------------|---------------|------------------|---------------|
| Radium-228  | 5.00                  | 5.45                | 109           | 80.0-120         |               |
| (T) Barium  |                       |                     | 109           |                  |               |
| (T) Yttrium |                       |                     | 98.2          |                  |               |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R3714137-1 10/07/21 12:35

| Analyte        | MB Result<br>pCi/l | MB Qualifier | MB MDA<br>pCi/l |
|----------------|--------------------|--------------|-----------------|
| Radium-226     | -0.0231            | <u>U</u>     | 0.0925          |
| (T) Barium-133 | 92.3               |              |                 |

L1402891-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1402891-01 10/07/21 12:35 • (DUP) R3714137-5 10/07/21 12:35

| Analyte        | Original Result<br>pCi/l | DUP Result<br>pCi/l | Dilution | DUP RPD<br>% | DUP RER | DUP Qualifier | DUP RPD<br>Limits<br>% | DUP RER Limit |
|----------------|--------------------------|---------------------|----------|--------------|---------|---------------|------------------------|---------------|
| Radium-226     | -0.0385                  | 0.0487              | 1        | 200          | 0.446   | <u>U</u>      | 20                     | 3             |
| (T) Barium-133 | 92.4                     | 92.5                |          |              |         |               |                        |               |

Laboratory Control Sample (LCS)

(LCS) R3714137-2 10/07/21 12:35

| Analyte        | Spike Amount<br>pCi/l | LCS Result<br>pCi/l | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|----------------|-----------------------|---------------------|---------------|------------------|---------------|
| Radium-226     | 5.02                  | 5.44                | 108           | 80.0-120         |               |
| (T) Barium-133 |                       |                     | 96.9          |                  |               |

L1409908-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1409908-04 10/07/21 12:36 • (MS) R3714137-3 10/07/21 12:35 • (MSD) R3714137-4 10/07/21 12:35

| Analyte        | Spike Amount<br>pCi/l | Original Result<br>pCi/l | MS Result<br>pCi/l | MSD Result<br>pCi/l | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | MS RER | RPD Limits<br>% |
|----------------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|--------|-----------------|
| Radium-226     | 20.1                  | 0.574                    | 20.8               | 20.5                | 100          | 99.2          | 1        | 75.0-125         |              |               | 1.21     |        | 20              |
| (T) Barium-133 |                       | 97.4                     |                    |                     | 94.8         | 96.6          |          |                  |              |               |          |        |                 |



# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

## Abbreviations and Definitions

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MDA                          | Minimum Detectable Activity.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Rec.                         | Recovery.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| RER                          | Replicate Error Ratio.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| RPD                          | Relative Percent Difference.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| SDG                          | Sample Delivery Group.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| (T)                          | Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.                                                                                                                                                                                                                                                                                                                           |
| Analyte                      | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.                                                                                                                                                                                                                                                                                                                                                                                                 |
| Dilution                     | If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.                                                                                    |
| Limits                       | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.                                                                                                                                                                                                                                                      |
| Original Sample              | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.                                                                                                                                                                                                                                                                                                                            |
| Qualifier                    | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.                                                                                                                                                                  |
| Result                       | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Uncertainty (Radiochemistry) | Confidence level of 2 sigma.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Case Narrative (Cn)          | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.                                                                                                                                                                          |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.                                                                                                                                                                                              |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.                                                              |
| Sample Results (Sr)          | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.                                                                                                                                                                                             |
| Sample Summary (Ss)          | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.                                                                                                                                                                                                                                                                                                                                                            |

## Qualifier Description

|   |                                                                                     |
|---|-------------------------------------------------------------------------------------|
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| U | Below Detectable Limits: Indicates that the analyte was not detected.               |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

# ACCREDITATIONS & LOCATIONS

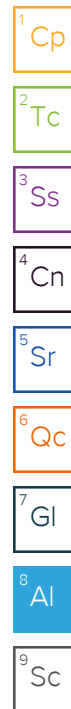
## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

|                                |             |                             |                  |
|--------------------------------|-------------|-----------------------------|------------------|
| Alabama                        | 40660       | Nebraska                    | NE-OS-15-05      |
| Alaska                         | 17-026      | Nevada                      | TN000032021-1    |
| Arizona                        | AZ0612      | New Hampshire               | 2975             |
| Arkansas                       | 88-0469     | New Jersey--NELAP           | TN002            |
| California                     | 2932        | New Mexico <sup>1</sup>     | TN00003          |
| Colorado                       | TN00003     | New York                    | 11742            |
| Connecticut                    | PH-0197     | North Carolina              | Env375           |
| Florida                        | E87487      | North Carolina <sup>1</sup> | DW21704          |
| Georgia                        | NELAP       | North Carolina <sup>3</sup> | 41               |
| Georgia <sup>1</sup>           | 923         | North Dakota                | R-140            |
| Idaho                          | TN00003     | Ohio--VAP                   | CL0069           |
| Illinois                       | 200008      | Oklahoma                    | 9915             |
| Indiana                        | C-TN-01     | Oregon                      | TN200002         |
| Iowa                           | 364         | Pennsylvania                | 68-02979         |
| Kansas                         | E-10277     | Rhode Island                | LA000356         |
| Kentucky <sup>1 6</sup>        | KY90010     | South Carolina              | 84004002         |
| Kentucky <sup>2</sup>          | 16          | South Dakota                | n/a              |
| Louisiana                      | AI30792     | Tennessee <sup>1 4</sup>    | 2006             |
| Louisiana                      | LA018       | Texas                       | T104704245-20-18 |
| Maine                          | TN00003     | Texas <sup>5</sup>          | LAB0152          |
| Maryland                       | 324         | Utah                        | TN000032021-11   |
| Massachusetts                  | M-TN003     | Vermont                     | VT2006           |
| Michigan                       | 9958        | Virginia                    | 110033           |
| Minnesota                      | 047-999-395 | Washington                  | C847             |
| Mississippi                    | TN00003     | West Virginia               | 233              |
| Missouri                       | 340         | Wisconsin                   | 998093910        |
| Montana                        | CERT0086    | Wyoming                     | A2LA             |
| A2LA -- ISO 17025              | 1461.01     | AIHA-LAP, LLC EMLAP         | 100789           |
| A2LA -- ISO 17025 <sup>5</sup> | 1461.02     | DOD                         | 1461.01          |
| Canada                         | 1461.01     | USDA                        | P330-15-00234    |
| EPA--Crypto                    | TN00003     |                             |                  |

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.





5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

L1409908

June 01, 2022

Eric Bauer  
Ramboll  
234 W. Florida St.  
5th Floor  
Milwaukee, WI 53204  
TEL: (414) 837-3607  
FAX:



|           |         |
|-----------|---------|
| Illinois  | 100226  |
| Kansas    | E-10374 |
| Louisiana | 05002   |
| Louisiana | 05003   |
| Oklahoma  | 9978    |

**RE:** Hennepin Q1 Groundwater

**WorkOrder:** 22030530

Dear Eric Bauer:

TEKLAB, INC received 49 samples on 3/24/2022 7:50:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Elizabeth A. Hurley  
Project Manager  
(618)344-1004 ex 33  
[ehurley@teklabinc.com](mailto:ehurley@teklabinc.com)

**Client:** Ramboll

**Work Order:** 22030530

**Client Project:** Hennepin Q1 Groundwater

**Report Date:** 01-Jun-22

**This reporting package includes the following:**

|                         |          |
|-------------------------|----------|
| Cover Letter            | 1        |
| Report Contents         | 2        |
| Definitions             | 3        |
| Case Narrative          | 5        |
| Accreditations          | 6        |
| Laboratory Results      | 7        |
| Sample Summary          | 25       |
| Dates Report            | 26       |
| Quality Control Results | 36       |
| Receiving Check List    | 80       |
| Chain of Custody        | Appended |

**Client:** Ramboll**Work Order:** 22030530**Client Project:** Hennepin Q1 Groundwater**Report Date:** 01-Jun-22**Abbr Definition**

\* Analytes on report marked with an asterisk are not NELAP accredited

CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.

CRQL A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.

DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.

DNI Did not ignite

DUP Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.

ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.

IDPH IL Dept. of Public Health

LCS Laboratory control sample is a sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.

LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).

MBLK Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.

MDL "The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."

MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).

MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).

MW Molecular weight

NC Data is not acceptable for compliance purposes

ND Not Detected at the Reporting Limit

NELAP NELAP Accredited

PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.

RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.

RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).

SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.

Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.

TIC Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"

TNTC Too numerous to count (> 200 CFU)

**Client:** Ramboll

**Work Order:** 22030530

**Client Project:** Hennepin Q1 Groundwater

**Report Date:** 01-Jun-22

### Qualifiers

- |                                                       |                                                              |
|-------------------------------------------------------|--------------------------------------------------------------|
| # - Unknown hydrocarbon                               | B - Analyte detected in associated Method Blank              |
| C - RL shown is a Client Requested Quantitation Limit | E - Value above quantitation range                           |
| H - Holding times exceeded                            | I - Associated internal standard was outside method criteria |
| J - Analyte detected below quantitation limits        | M - Manual Integration used to determine area response       |
| ND - Not Detected at the Reporting Limit              | R - RPD outside accepted recovery limits                     |
| S - Spike Recovery outside recovery limits            | T - TIC(Tentatively identified compound)                     |
| X - Value exceeds Maximum Contaminant Level           |                                                              |



## Case Narrative

<http://www.teklabinc.com/>

**Client:** Ramboll

**Work Order:** 22030530

**Client Project:** Hennepin Q1 Groundwater

**Report Date:** 01-Jun-22

**Cooler Receipt Temp:** 1.8 °C

An employee of Teklab, Inc. collected the sample(s).

Perchlorate analysis was performed by Keystone Laboratories, Inc. See attached report for QC summary.

Mercury (total) was omitted from 12 in error at sample log in and will be prepped/analyzed out of hold time. EAH 4/26/22

Hennepin Ash Pond No. 2 CCR 802 data is included in this report. EAH 5/2/22

This report was revised on June 1, 2022 per Eric Bauer (Ramboll)'s request. The reason for the revision is to corrected elevation values for 08D, 22, and 22D and to correct the Thallium result for 22D. Please replace reports dated May 2, 2022 and May 3, 2022 with these program reports. EAH 6/1/22

### Locations

#### Collinsville

**Address** 5445 Horseshoe Lake Road  
Collinsville, IL 62234-7425  
**Phone** (618) 344-1004  
**Fax** (618) 344-1005  
**Email** jhriley@teklabinc.com

#### Collinsville Air

**Address** 5445 Horseshoe Lake Road  
Collinsville, IL 62234-7425  
**Phone** (618) 344-1004  
**Fax** (618) 344-1005  
**Email** EHurley@teklabinc.com

#### Springfield

**Address** 3920 Pintail Dr  
Springfield, IL 62711-9415  
**Phone** (217) 698-1004  
**Fax** (217) 698-1005  
**Email** KKlostermann@teklabinc.com

#### Chicago

**Address** 1319 Butterfield Rd.  
Downers Grove, IL 60515  
**Phone** (630) 324-6855  
**Fax**  
**Email** arenner@teklabinc.com

#### Kansas City

**Address** 8421 Nieman Road  
Lenexa, KS 66214  
**Phone** (913) 541-1998  
**Fax** (913) 541-1998  
**Email** jhriley@teklabinc.com

**Client:** Ramboll**Work Order:** 22030530**Client Project:** Hennepin Q1 Groundwater**Report Date:** 01-Jun-22

| State     | Dept | Cert #  | NELAP | Exp Date  | Lab          |
|-----------|------|---------|-------|-----------|--------------|
| Illinois  | IEPA | 100226  | NELAP | 1/31/2023 | Collinsville |
| Kansas    | KDHE | E-10374 | NELAP | 4/30/2023 | Collinsville |
| Louisiana | LDEQ | 05002   | NELAP | 6/30/2023 | Collinsville |
| Louisiana | LDEQ | 05003   | NELAP | 6/30/2023 | Collinsville |
| Oklahoma  | ODEQ | 9978    | NELAP | 8/31/2022 | Collinsville |
| Arkansas  | ADEQ | 88-0966 |       | 3/14/2023 | Collinsville |
| Illinois  | IDPH | 17584   |       | 5/31/2023 | Collinsville |
| Kentucky  | UST  | 0073    |       | 1/31/2023 | Collinsville |
| Missouri  | MDNR | 00930   |       | 5/31/2023 | Collinsville |
| Missouri  | MDNR | 930     |       | 1/31/2025 | Collinsville |



Client: Ramboll  
 Client Project: Hennepin Q1 Groundwater  
 Lab ID: 22030530-002  
 Matrix: GROUNDWATER

Work Order: 22030530  
 Report Date: 01-Jun-22  
 Client Sample ID: 03R  
 Collection Date: 03/23/2022 12:08

| Analyses                                            | Certification | RL     | Qual | Result   | Units | DF | Date Analyzed    | Batch   |
|-----------------------------------------------------|---------------|--------|------|----------|-------|----|------------------|---------|
| <b>FIELD ELEVATION MEASUREMENTS</b>                 |               |        |      |          |       |    |                  |         |
| Depth to water from measuring point                 | *             | 0      |      | 34.21    | ft    | 1  | 03/21/2022 13:11 | R308977 |
| <b>STANDARD METHOD 4500-H B 2001 FIELD</b>          |               |        |      |          |       |    |                  |         |
| pH                                                  | *             | 1.00   |      | 7.20     |       | 1  | 03/23/2022 12:08 | R308977 |
| <b>STANDARD METHODS 2130 B FIELD</b>                |               |        |      |          |       |    |                  |         |
| Turbidity                                           | *             | 1.0    |      | 0.53     | NTU   | 1  | 03/23/2022 12:08 | R308977 |
| <b>STANDARD METHODS 18TH ED. 2580 B FIELD</b>       |               |        |      |          |       |    |                  |         |
| Oxidation-Reduction Potential                       | *             | -300   |      | -100     | mV    | 1  | 03/23/2022 12:08 | R308977 |
| <b>STANDARD METHODS 2510 B FIELD</b>                |               |        |      |          |       |    |                  |         |
| Spec. Conductance, Field                            | *             | 0      |      | 1300     | µS/cm | 1  | 03/23/2022 12:08 | R308977 |
| <b>STANDARD METHODS 2550 B FIELD</b>                |               |        |      |          |       |    |                  |         |
| Temperature                                         | *             | 0      |      | 18.5     | °C    | 1  | 03/23/2022 12:08 | R308977 |
| <b>STANDARD METHODS 4500-O G FIELD</b>              |               |        |      |          |       |    |                  |         |
| Oxygen, Dissolved                                   | *             | 0      |      | 0.19     | mg/L  | 1  | 03/23/2022 12:08 | R308977 |
| <b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>   |               |        |      |          |       |    |                  |         |
| Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )     | NELAP         | 0      |      | 256      | mg/L  | 1  | 03/29/2022 7:25  | R308865 |
| <b>STANDARD METHODS 2320 B 1997, 2011</b>           |               |        |      |          |       |    |                  |         |
| Alkalinity, Carbonate (as CaCO <sub>3</sub> )       | NELAP         | 0      |      | 0        | mg/L  | 1  | 03/29/2022 7:25  | R308865 |
| <b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>   |               |        |      |          |       |    |                  |         |
| Total Dissolved Solids                              | NELAP         | 20     |      | 522      | mg/L  | 1  | 03/30/2022 8:44  | R309043 |
| <b>SW-846 9036 (TOTAL)</b>                          |               |        |      |          |       |    |                  |         |
| Sulfate                                             | NELAP         | 50     |      | 90       | mg/L  | 5  | 03/25/2022 20:10 | R308817 |
| <b>SW-846 9214 (TOTAL)</b>                          |               |        |      |          |       |    |                  |         |
| Fluoride                                            | NELAP         | 0.10   |      | 0.30     | mg/L  | 1  | 03/31/2022 11:03 | R308988 |
| <b>SW-846 9251 (TOTAL)</b>                          |               |        |      |          |       |    |                  |         |
| Chloride                                            | NELAP         | 5      |      | 81       | mg/L  | 5  | 03/25/2022 20:09 | R308818 |
| <b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>   |               |        |      |          |       |    |                  |         |
| Calcium                                             | NELAP         | 0.100  |      | 103      | mg/L  | 1  | 03/30/2022 9:13  | 188963  |
| Magnesium                                           | NELAP         | 0.0500 |      | 28.5     | mg/L  | 1  | 03/30/2022 9:13  | 188963  |
| Potassium                                           | NELAP         | 0.100  |      | 9.86     | mg/L  | 1  | 03/30/2022 9:13  | 188963  |
| Sodium                                              | NELAP         | 0.0500 |      | 58.2     | mg/L  | 1  | 03/30/2022 9:13  | 188963  |
| <b>SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)</b> |               |        |      |          |       |    |                  |         |
| Antimony                                            | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 03/29/2022 20:32 | 188963  |
| Arsenic                                             | NELAP         | 0.0010 | J    | 0.0005   | mg/L  | 5  | 03/29/2022 20:32 | 188963  |
| Barium                                              | NELAP         | 0.0010 |      | 0.0651   | mg/L  | 5  | 03/29/2022 20:32 | 188963  |
| Beryllium                                           | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 03/31/2022 14:49 | 188963  |
| Boron                                               | NELAP         | 0.0250 |      | 1.04     | mg/L  | 5  | 03/31/2022 14:49 | 188963  |
| Cadmium                                             | NELAP         | 0.0010 | J    | 0.0002   | mg/L  | 5  | 03/29/2022 20:32 | 188963  |
| Chromium                                            | NELAP         | 0.0015 |      | < 0.0015 | mg/L  | 5  | 03/31/2022 14:49 | 188963  |
| Cobalt                                              | NELAP         | 0.0010 | J    | 0.0005   | mg/L  | 5  | 03/31/2022 14:49 | 188963  |
| Lead                                                | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 03/29/2022 20:32 | 188963  |
| Lithium                                             | *             | 0.0030 |      | 0.0290   | mg/L  | 5  | 03/31/2022 14:49 | 188963  |
| Molybdenum                                          | NELAP         | 0.0015 |      | 0.139    | mg/L  | 5  | 03/29/2022 20:32 | 188963  |
| Selenium                                            | NELAP         | 0.0010 |      | 0.0053   | mg/L  | 5  | 03/29/2022 20:32 | 188963  |
| Thallium                                            | NELAP         | 0.0020 |      | < 0.0020 | mg/L  | 5  | 03/29/2022 20:32 | 188963  |



**Client:** Ramboll**Work Order:** 22030530**Client Project:** Hennepin Q1 Groundwater**Report Date:** 01-Jun-22**Lab ID:** 22030530-002**Client Sample ID:** 03R**Matrix:** GROUNDWATER**Collection Date:** 03/23/2022 12:08

| Analyses                    | Certification | RL      | Qual | Result    | Units | DF | Date Analyzed    | Batch  |
|-----------------------------|---------------|---------|------|-----------|-------|----|------------------|--------|
| <b>SW-846 7470A (TOTAL)</b> |               |         |      |           |       |    |                  |        |
| Mercury                     | NELAP         | 0.00020 |      | < 0.00020 | mg/L  | 1  | 03/24/2022 17:56 | 188965 |



## Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll  
Client Project: Hennepin Q1 Groundwater  
Lab ID: 22030530-007  
Matrix: GROUNDWATER

Work Order: 22030530  
Report Date: 01-Jun-22  
Client Sample ID: 07  
Collection Date: 03/22/2022 15:31

| Analyses                                            | Certification | RL     | Qual | Result   | Units | DF | Date Analyzed    | Batch   |
|-----------------------------------------------------|---------------|--------|------|----------|-------|----|------------------|---------|
| <b>FIELD ELEVATION MEASUREMENTS</b>                 |               |        |      |          |       |    |                  |         |
| Depth to water from measuring point                 | *             | 0      |      | 67.62    | ft    | 1  | 03/21/2022 14:20 | R308977 |
| <b>STANDARD METHOD 4500-H B 2001 FIELD</b>          |               |        |      |          |       |    |                  |         |
| pH                                                  | *             | 1.00   |      | 6.81     |       | 1  | 03/22/2022 15:31 | R308977 |
| <b>STANDARD METHODS 2130 B FIELD</b>                |               |        |      |          |       |    |                  |         |
| Turbidity                                           | *             | 1.0    |      | 7.8      | NTU   | 1  | 03/22/2022 15:31 | R308977 |
| <b>STANDARD METHODS 18TH ED. 2580 B FIELD</b>       |               |        |      |          |       |    |                  |         |
| Oxidation-Reduction Potential                       | *             | -300   |      | 50       | mV    | 1  | 03/22/2022 15:31 | R308977 |
| <b>STANDARD METHODS 2510 B FIELD</b>                |               |        |      |          |       |    |                  |         |
| Spec. Conductance, Field                            | *             | 0      |      | 1350     | µS/cm | 1  | 03/22/2022 15:31 | R308977 |
| <b>STANDARD METHODS 2550 B FIELD</b>                |               |        |      |          |       |    |                  |         |
| Temperature                                         | *             | 0      |      | 11.2     | °C    | 1  | 03/22/2022 15:31 | R308977 |
| <b>STANDARD METHODS 4500-O G FIELD</b>              |               |        |      |          |       |    |                  |         |
| Oxygen, Dissolved                                   | *             | 0      |      | 4.93     | mg/L  | 1  | 03/22/2022 15:31 | R308977 |
| <b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>   |               |        |      |          |       |    |                  |         |
| Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )     | NELAP         | 0      |      | 390      | mg/L  | 1  | 03/29/2022 7:41  | R308865 |
| <b>STANDARD METHODS 2320 B 1997, 2011</b>           |               |        |      |          |       |    |                  |         |
| Alkalinity, Carbonate (as CaCO <sub>3</sub> )       | NELAP         | 0      |      | 0        | mg/L  | 1  | 03/29/2022 7:41  | R308865 |
| <b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>   |               |        |      |          |       |    |                  |         |
| Total Dissolved Solids                              | NELAP         | 20     |      | 582      | mg/L  | 1  | 03/28/2022 14:24 | R309037 |
| <b>SW-846 9036 (TOTAL)</b>                          |               |        |      |          |       |    |                  |         |
| Sulfate                                             | NELAP         | 20     |      | 56       | mg/L  | 2  | 03/25/2022 20:50 | R308817 |
| <b>SW-846 9214 (TOTAL)</b>                          |               |        |      |          |       |    |                  |         |
| Fluoride                                            | NELAP         | 0.10   |      | 0.12     | mg/L  | 1  | 03/31/2022 11:10 | R308988 |
| <b>SW-846 9251 (TOTAL)</b>                          |               |        |      |          |       |    |                  |         |
| Chloride                                            | NELAP         | 2      |      | 49       | mg/L  | 2  | 03/25/2022 20:49 | R308818 |
| <b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>   |               |        |      |          |       |    |                  |         |
| Calcium                                             | NELAP         | 0.100  |      | 140      | mg/L  | 1  | 03/30/2022 9:24  | 188963  |
| Magnesium                                           | NELAP         | 0.0500 |      | 49.8     | mg/L  | 1  | 03/30/2022 9:24  | 188963  |
| Potassium                                           | NELAP         | 0.100  |      | 2.53     | mg/L  | 1  | 03/30/2022 9:24  | 188963  |
| Sodium                                              | NELAP         | 0.0500 |      | 22.3     | mg/L  | 1  | 03/30/2022 9:24  | 188963  |
| <b>SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)</b> |               |        |      |          |       |    |                  |         |
| Antimony                                            | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 03/29/2022 20:50 | 188963  |
| Arsenic                                             | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 03/31/2022 14:56 | 188963  |
| Barium                                              | NELAP         | 0.0010 |      | 0.104    | mg/L  | 5  | 03/29/2022 20:50 | 188963  |
| Beryllium                                           | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 03/31/2022 14:56 | 188963  |
| Boron                                               | NELAP         | 0.0250 |      | 0.0755   | mg/L  | 5  | 03/31/2022 14:56 | 188963  |
| Cadmium                                             | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 03/31/2022 14:56 | 188963  |
| Chromium                                            | NELAP         | 0.0015 | J    | 0.0013   | mg/L  | 5  | 03/31/2022 14:56 | 188963  |
| Cobalt                                              | NELAP         | 0.0010 |      | 0.0018   | mg/L  | 5  | 03/31/2022 14:56 | 188963  |
| Lead                                                | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 03/29/2022 20:50 | 188963  |
| Lithium                                             | *             | 0.0030 |      | 0.0098   | mg/L  | 5  | 03/31/2022 14:56 | 188963  |
| Molybdenum                                          | NELAP         | 0.0015 | J    | 0.0010   | mg/L  | 5  | 03/31/2022 14:56 | 188963  |
| Selenium                                            | NELAP         | 0.0010 | J    | 0.0007   | mg/L  | 5  | 03/31/2022 14:56 | 188963  |
| Thallium                                            | NELAP         | 0.0020 |      | < 0.0020 | mg/L  | 5  | 03/29/2022 20:50 | 188963  |

**Client:** Ramboll**Work Order:** 22030530**Client Project:** Hennepin Q1 Groundwater**Report Date:** 01-Jun-22**Lab ID:** 22030530-007**Client Sample ID:** 07**Matrix:** GROUNDWATER**Collection Date:** 03/22/2022 15:31

| Analyses                    | Certification | RL      | Qual | Result    | Units | DF | Date Analyzed    | Batch  |
|-----------------------------|---------------|---------|------|-----------|-------|----|------------------|--------|
| <b>SW-846 7470A (TOTAL)</b> |               |         |      |           |       |    |                  |        |
| Mercury                     | NELAP         | 0.00020 |      | < 0.00020 | mg/L  | 1  | 03/24/2022 18:14 | 188965 |

Client: Ramboll  
 Client Project: Hennepin Q1 Groundwater  
 Lab ID: 22030530-008  
 Matrix: GROUNDWATER

Work Order: 22030530  
 Report Date: 01-Jun-22  
 Client Sample ID: 08  
 Collection Date: 03/22/2022 14:24

| Analyses                                            | Certification | RL     | Qual | Result   | Units | DF | Date Analyzed    | Batch   |
|-----------------------------------------------------|---------------|--------|------|----------|-------|----|------------------|---------|
| <b>FIELD ELEVATION MEASUREMENTS</b>                 |               |        |      |          |       |    |                  |         |
| Depth to water from measuring point                 | *             | 0      |      | 53.48    | ft    | 1  | 03/21/2022 12:38 | R308977 |
| <b>STANDARD METHOD 4500-H B 2001 FIELD</b>          |               |        |      |          |       |    |                  |         |
| pH                                                  | *             | 1.00   |      | 6.69     |       | 1  | 03/22/2022 14:24 | R308977 |
| <b>STANDARD METHODS 2130 B FIELD</b>                |               |        |      |          |       |    |                  |         |
| Turbidity                                           | *             | 1.0    |      | 0.09     | NTU   | 1  | 03/22/2022 14:24 | R308977 |
| <b>STANDARD METHODS 18TH ED. 2580 B FIELD</b>       |               |        |      |          |       |    |                  |         |
| Oxidation-Reduction Potential                       | *             | -300   |      | 15       | mV    | 1  | 03/22/2022 14:24 | R308977 |
| <b>STANDARD METHODS 2510 B FIELD</b>                |               |        |      |          |       |    |                  |         |
| Spec. Conductance, Field                            | *             | 0      |      | 2690     | µS/cm | 1  | 03/22/2022 14:24 | R308977 |
| <b>STANDARD METHODS 2550 B FIELD</b>                |               |        |      |          |       |    |                  |         |
| Temperature                                         | *             | 0      |      | 13.2     | °C    | 1  | 03/22/2022 14:24 | R308977 |
| <b>STANDARD METHODS 4500-O G FIELD</b>              |               |        |      |          |       |    |                  |         |
| Oxygen, Dissolved                                   | *             | 0      |      | 1.07     | mg/L  | 1  | 03/22/2022 14:24 | R308977 |
| <b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>   |               |        |      |          |       |    |                  |         |
| Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )     | NELAP         | 0      |      | 545      | mg/L  | 1  | 03/29/2022 7:47  | R308865 |
| <b>STANDARD METHODS 2320 B 1997, 2011</b>           |               |        |      |          |       |    |                  |         |
| Alkalinity, Carbonate (as CaCO <sub>3</sub> )       | NELAP         | 0      |      | 0        | mg/L  | 1  | 03/29/2022 7:47  | R308865 |
| <b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>   |               |        |      |          |       |    |                  |         |
| Total Dissolved Solids                              | NELAP         | 20     |      | 1170     | mg/L  | 1  | 03/28/2022 14:24 | R309037 |
| <b>SW-846 9036 (TOTAL)</b>                          |               |        |      |          |       |    |                  |         |
| Sulfate                                             | NELAP         | 100    |      | 153      | mg/L  | 10 | 03/25/2022 20:52 | R308817 |
| <b>SW-846 9214 (TOTAL)</b>                          |               |        |      |          |       |    |                  |         |
| Fluoride                                            | NELAP         | 0.10   |      | 0.11     | mg/L  | 1  | 03/31/2022 11:13 | R308988 |
| <b>SW-846 9251 (TOTAL)</b>                          |               |        |      |          |       |    |                  |         |
| Chloride                                            | NELAP         | 10     |      | 247      | mg/L  | 10 | 03/25/2022 20:52 | R308818 |
| <b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>   |               |        |      |          |       |    |                  |         |
| Calcium                                             | NELAP         | 0.100  |      | 207      | mg/L  | 1  | 03/30/2022 9:28  | 188963  |
| Magnesium                                           | NELAP         | 0.0500 |      | 57.5     | mg/L  | 1  | 03/30/2022 9:28  | 188963  |
| Potassium                                           | NELAP         | 0.100  |      | 6.07     | mg/L  | 1  | 03/30/2022 9:28  | 188963  |
| Sodium                                              | NELAP         | 0.0500 |      | 192      | mg/L  | 1  | 03/30/2022 9:28  | 188963  |
| <b>SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)</b> |               |        |      |          |       |    |                  |         |
| Antimony                                            | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 03/29/2022 20:57 | 188963  |
| Arsenic                                             | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 03/31/2022 15:02 | 188963  |
| Barium                                              | NELAP         | 0.0010 |      | 0.113    | mg/L  | 5  | 03/29/2022 20:57 | 188963  |
| Beryllium                                           | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 03/31/2022 15:02 | 188963  |
| Boron                                               | NELAP         | 0.0250 |      | 0.124    | mg/L  | 5  | 03/31/2022 15:02 | 188963  |
| Cadmium                                             | NELAP         | 0.0010 | J    | 0.0004   | mg/L  | 5  | 03/31/2022 15:02 | 188963  |
| Chromium                                            | NELAP         | 0.0015 | J    | 0.0009   | mg/L  | 5  | 03/31/2022 15:02 | 188963  |
| Cobalt                                              | NELAP         | 0.0010 |      | 0.0070   | mg/L  | 5  | 03/31/2022 15:02 | 188963  |
| Lead                                                | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 03/29/2022 20:57 | 188963  |
| Lithium                                             | *             | 0.0030 |      | 0.0155   | mg/L  | 5  | 03/31/2022 15:02 | 188963  |
| Molybdenum                                          | NELAP         | 0.0015 |      | 0.0016   | mg/L  | 5  | 03/31/2022 15:02 | 188963  |
| Selenium                                            | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 03/31/2022 15:02 | 188963  |
| Thallium                                            | NELAP         | 0.0020 |      | < 0.0020 | mg/L  | 5  | 03/29/2022 20:57 | 188963  |



## Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22030530

Client Project: Hennepin Q1 Groundwater

Report Date: 01-Jun-22

Lab ID: 22030530-008

Client Sample ID: 08

Matrix: GROUNDWATER

Collection Date: 03/22/2022 14:24

| Analyses                    | Certification | RL      | Qual | Result    | Units | DF | Date Analyzed    | Batch  |
|-----------------------------|---------------|---------|------|-----------|-------|----|------------------|--------|
| <b>SW-846 7470A (TOTAL)</b> |               |         |      |           |       |    |                  |        |
| Mercury                     | NELAP         | 0.00020 |      | < 0.00020 | mg/L  | 1  | 03/28/2022 16:12 | 189038 |



## Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll  
Client Project: Hennepin Q1 Groundwater  
Lab ID: 22030530-009  
Matrix: GROUNDWATER

Work Order: 22030530  
Report Date: 01-Jun-22  
Client Sample ID: 08 Duplicate  
Collection Date: 03/22/2022 14:24

| Analyses                                            | Certification | RL     | Qual | Result   | Units | DF | Date Analyzed    | Batch   |
|-----------------------------------------------------|---------------|--------|------|----------|-------|----|------------------|---------|
| <b>FIELD ELEVATION MEASUREMENTS</b>                 |               |        |      |          |       |    |                  |         |
| Depth to water from measuring point                 | *             | 0      |      | 53.48    | ft    | 1  | 03/21/2022 12:38 | R308977 |
| <b>STANDARD METHOD 4500-H B 2001 FIELD</b>          |               |        |      |          |       |    |                  |         |
| pH                                                  | *             | 1.00   |      | 6.69     |       | 1  | 03/22/2022 14:24 | R308977 |
| <b>STANDARD METHODS 2130 B FIELD</b>                |               |        |      |          |       |    |                  |         |
| Turbidity                                           | *             | 1.0    |      | 0.09     | NTU   | 1  | 03/22/2022 14:24 | R308977 |
| <b>STANDARD METHODS 18TH ED. 2580 B FIELD</b>       |               |        |      |          |       |    |                  |         |
| Oxidation-Reduction Potential                       | *             | -300   |      | 15       | mV    | 1  | 03/22/2022 14:24 | R308977 |
| <b>STANDARD METHODS 2510 B FIELD</b>                |               |        |      |          |       |    |                  |         |
| Spec. Conductance, Field                            | *             | 0      |      | 2690     | µS/cm | 1  | 03/22/2022 14:24 | R308977 |
| <b>STANDARD METHODS 2550 B FIELD</b>                |               |        |      |          |       |    |                  |         |
| Temperature                                         | *             | 0      |      | 13.2     | °C    | 1  | 03/22/2022 14:24 | R308977 |
| <b>STANDARD METHODS 4500-O G FIELD</b>              |               |        |      |          |       |    |                  |         |
| Oxygen, Dissolved                                   | *             | 0      |      | 1.07     | mg/L  | 1  | 03/22/2022 14:24 | R308977 |
| <b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>   |               |        |      |          |       |    |                  |         |
| Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )     | NELAP         | 0      |      | 544      | mg/L  | 1  | 03/29/2022 7:54  | R308865 |
| <b>STANDARD METHODS 2320 B 1997, 2011</b>           |               |        |      |          |       |    |                  |         |
| Alkalinity, Carbonate (as CaCO <sub>3</sub> )       | NELAP         | 0      |      | 0        | mg/L  | 1  | 03/29/2022 7:54  | R308865 |
| <b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>   |               |        |      |          |       |    |                  |         |
| Total Dissolved Solids                              | NELAP         | 20     |      | 1190     | mg/L  | 1  | 03/28/2022 14:25 | R309037 |
| <b>SW-846 9036 (TOTAL)</b>                          |               |        |      |          |       |    |                  |         |
| Sulfate                                             | NELAP         | 100    |      | 154      | mg/L  | 10 | 03/25/2022 20:58 | R308817 |
| <b>SW-846 9214 (TOTAL)</b>                          |               |        |      |          |       |    |                  |         |
| Fluoride                                            | NELAP         | 0.10   |      | 0.11     | mg/L  | 1  | 03/31/2022 11:15 | R308988 |
| <b>SW-846 9251 (TOTAL)</b>                          |               |        |      |          |       |    |                  |         |
| Chloride                                            | NELAP         | 10     |      | 246      | mg/L  | 10 | 03/25/2022 20:57 | R308818 |
| <b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>   |               |        |      |          |       |    |                  |         |
| Calcium                                             | NELAP         | 0.100  |      | 207      | mg/L  | 1  | 03/30/2022 9:32  | 188963  |
| Magnesium                                           | NELAP         | 0.0500 |      | 57.4     | mg/L  | 1  | 03/30/2022 9:32  | 188963  |
| Potassium                                           | NELAP         | 0.100  |      | 6.10     | mg/L  | 1  | 03/30/2022 9:32  | 188963  |
| Sodium                                              | NELAP         | 0.0500 |      | 191      | mg/L  | 1  | 03/30/2022 9:32  | 188963  |
| <b>SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)</b> |               |        |      |          |       |    |                  |         |
| Antimony                                            | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 03/29/2022 21:03 | 188963  |
| Arsenic                                             | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 03/31/2022 15:08 | 188963  |
| Barium                                              | NELAP         | 0.0010 |      | 0.117    | mg/L  | 5  | 03/29/2022 21:03 | 188963  |
| Beryllium                                           | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 03/31/2022 15:08 | 188963  |
| Boron                                               | NELAP         | 0.0250 |      | 0.128    | mg/L  | 5  | 03/31/2022 15:08 | 188963  |
| Cadmium                                             | NELAP         | 0.0010 | J    | 0.0003   | mg/L  | 5  | 03/31/2022 15:08 | 188963  |
| Chromium                                            | NELAP         | 0.0015 |      | < 0.0015 | mg/L  | 5  | 03/31/2022 15:08 | 188963  |
| Cobalt                                              | NELAP         | 0.0010 |      | 0.0072   | mg/L  | 5  | 03/31/2022 15:08 | 188963  |
| Lead                                                | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 03/29/2022 21:03 | 188963  |
| Lithium                                             | *             | 0.0030 |      | 0.0166   | mg/L  | 5  | 03/31/2022 15:08 | 188963  |
| Molybdenum                                          | NELAP         | 0.0015 |      | 0.0016   | mg/L  | 5  | 03/31/2022 15:08 | 188963  |
| Selenium                                            | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 03/31/2022 15:08 | 188963  |
| Thallium                                            | NELAP         | 0.0020 |      | < 0.0020 | mg/L  | 5  | 03/29/2022 21:03 | 188963  |

**Client:** Ramboll**Work Order:** 22030530**Client Project:** Hennepin Q1 Groundwater**Report Date:** 01-Jun-22**Lab ID:** 22030530-009**Client Sample ID:** 08 Duplicate**Matrix:** GROUNDWATER**Collection Date:** 03/22/2022 14:24

| Analyses                    | Certification | RL      | Qual | Result    | Units | DF | Date Analyzed    | Batch  |
|-----------------------------|---------------|---------|------|-----------|-------|----|------------------|--------|
| <b>SW-846 7470A (TOTAL)</b> |               |         |      |           |       |    |                  |        |
| Mercury                     | NELAP         | 0.00020 |      | < 0.00020 | mg/L  | 1  | 03/28/2022 16:21 | 189038 |

Client: Ramboll  
 Client Project: Hennepin Q1 Groundwater  
 Lab ID: 22030530-010  
 Matrix: GROUNDWATER

Work Order: 22030530  
 Report Date: 01-Jun-22  
 Client Sample ID: 08D  
 Collection Date: 03/22/2022 14:04

| Analyses                                            | Certification | RL     | Qual | Result   | Units | DF | Date Analyzed    | Batch   |
|-----------------------------------------------------|---------------|--------|------|----------|-------|----|------------------|---------|
| <b>FIELD ELEVATION MEASUREMENTS</b>                 |               |        |      |          |       |    |                  |         |
| Depth to water from measuring point                 | *             | 0      |      | 53.49    | ft    | 1  | 03/21/2022 12:37 | R308977 |
| <b>STANDARD METHOD 4500-H B 2001 FIELD</b>          |               |        |      |          |       |    |                  |         |
| pH                                                  | *             | 1.00   |      | 6.64     |       | 1  | 03/22/2022 14:04 | R308977 |
| <b>STANDARD METHODS 2130 B FIELD</b>                |               |        |      |          |       |    |                  |         |
| Turbidity                                           | *             | 1.0    |      | 3.0      | NTU   | 1  | 03/22/2022 14:04 | R308977 |
| <b>STANDARD METHODS 18TH ED. 2580 B FIELD</b>       |               |        |      |          |       |    |                  |         |
| Oxidation-Reduction Potential                       | *             | -300   |      | 8        | mV    | 1  | 03/22/2022 14:04 | R308977 |
| <b>STANDARD METHODS 2510 B FIELD</b>                |               |        |      |          |       |    |                  |         |
| Spec. Conductance, Field                            | *             | 0      |      | 2790     | µS/cm | 1  | 03/22/2022 14:04 | R308977 |
| <b>STANDARD METHODS 2550 B FIELD</b>                |               |        |      |          |       |    |                  |         |
| Temperature                                         | *             | 0      |      | 13.2     | °C    | 1  | 03/22/2022 14:04 | R308977 |
| <b>STANDARD METHODS 4500-O G FIELD</b>              |               |        |      |          |       |    |                  |         |
| Oxygen, Dissolved                                   | *             | 0      |      | 0.32     | mg/L  | 1  | 03/22/2022 14:04 | R308977 |
| <b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>   |               |        |      |          |       |    |                  |         |
| Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )     | NELAP         | 0      |      | 544      | mg/L  | 1  | 03/29/2022 8:00  | R308865 |
| <b>STANDARD METHODS 2320 B 1997, 2011</b>           |               |        |      |          |       |    |                  |         |
| Alkalinity, Carbonate (as CaCO <sub>3</sub> )       | NELAP         | 0      |      | 0        | mg/L  | 1  | 03/29/2022 8:00  | R308865 |
| <b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>   |               |        |      |          |       |    |                  |         |
| Total Dissolved Solids                              | NELAP         | 20     |      | 1210     | mg/L  | 1  | 03/28/2022 16:46 | R309037 |
| <b>SW-846 9036 (TOTAL)</b>                          |               |        |      |          |       |    |                  |         |
| Sulfate                                             | NELAP         | 100    |      | 174      | mg/L  | 10 | 03/25/2022 21:00 | R308817 |
| <b>SW-846 9214 (TOTAL)</b>                          |               |        |      |          |       |    |                  |         |
| Fluoride                                            | NELAP         | 0.10   |      | 0.11     | mg/L  | 1  | 03/31/2022 11:18 | R308988 |
| <b>SW-846 9251 (TOTAL)</b>                          |               |        |      |          |       |    |                  |         |
| Chloride                                            | NELAP         | 10     |      | 257      | mg/L  | 10 | 03/25/2022 21:00 | R308818 |
| <b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>   |               |        |      |          |       |    |                  |         |
| Calcium                                             | NELAP         | 0.100  |      | 208      | mg/L  | 1  | 03/30/2022 9:35  | 188963  |
| Magnesium                                           | NELAP         | 0.0500 |      | 59.7     | mg/L  | 1  | 03/30/2022 9:35  | 188963  |
| Potassium                                           | NELAP         | 0.100  |      | 4.50     | mg/L  | 1  | 03/30/2022 9:35  | 188963  |
| Sodium                                              | NELAP         | 0.0500 |      | 192      | mg/L  | 1  | 03/30/2022 9:35  | 188963  |
| <b>SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)</b> |               |        |      |          |       |    |                  |         |
| Antimony                                            | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 03/29/2022 21:09 | 188963  |
| Arsenic                                             | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 03/31/2022 15:14 | 188963  |
| Barium                                              | NELAP         | 0.0010 |      | 0.136    | mg/L  | 5  | 03/29/2022 21:09 | 188963  |
| Beryllium                                           | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 03/31/2022 15:14 | 188963  |
| Boron                                               | NELAP         | 0.0250 |      | 0.112    | mg/L  | 5  | 03/31/2022 15:14 | 188963  |
| Cadmium                                             | NELAP         | 0.0010 | J    | 0.0007   | mg/L  | 5  | 03/31/2022 15:14 | 188963  |
| Chromium                                            | NELAP         | 0.0015 | J    | 0.0008   | mg/L  | 5  | 03/31/2022 15:14 | 188963  |
| Cobalt                                              | NELAP         | 0.0010 |      | 0.0050   | mg/L  | 5  | 03/31/2022 15:14 | 188963  |
| Lead                                                | NELAP         | 0.0010 | J    | 0.0010   | mg/L  | 5  | 03/29/2022 21:09 | 188963  |
| Lithium                                             | *             | 0.0030 |      | 0.0165   | mg/L  | 5  | 03/31/2022 15:14 | 188963  |
| Molybdenum                                          | NELAP         | 0.0015 | J    | 0.0013   | mg/L  | 5  | 03/31/2022 15:14 | 188963  |
| Selenium                                            | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 03/31/2022 15:14 | 188963  |
| Thallium                                            | NELAP         | 0.0020 |      | < 0.0020 | mg/L  | 5  | 03/29/2022 21:09 | 188963  |



**Client:** Ramboll**Work Order:** 22030530**Client Project:** Hennepin Q1 Groundwater**Report Date:** 01-Jun-22**Lab ID:** 22030530-010**Client Sample ID:** 08D**Matrix:** GROUNDWATER**Collection Date:** 03/22/2022 14:04

| Analyses                    | Certification | RL      | Qual | Result    | Units | DF | Date Analyzed    | Batch  |
|-----------------------------|---------------|---------|------|-----------|-------|----|------------------|--------|
| <b>SW-846 7470A (TOTAL)</b> |               |         |      |           |       |    |                  |        |
| Mercury                     | NELAP         | 0.00020 |      | < 0.00020 | mg/L  | 1  | 03/28/2022 16:26 | 189038 |

Client: Ramboll  
 Client Project: Hennepin Q1 Groundwater  
 Lab ID: 22030530-017  
 Matrix: GROUNDWATER

Work Order: 22030530  
 Report Date: 01-Jun-22  
 Client Sample ID: 18D  
 Collection Date: 03/23/2022 11:51

| Analyses                                            | Certification | RL     | Qual | Result   | Units | DF | Date Analyzed    | Batch   |
|-----------------------------------------------------|---------------|--------|------|----------|-------|----|------------------|---------|
| <b>FIELD ELEVATION MEASUREMENTS</b>                 |               |        |      |          |       |    |                  |         |
| Depth to water from measuring point                 | *             | 0      |      | 39.91    | ft    | 1  | 03/21/2022 13:13 | R308977 |
| <b>STANDARD METHOD 4500-H B 2001 FIELD</b>          |               |        |      |          |       |    |                  |         |
| pH                                                  | *             | 1.00   |      | 7.12     |       | 1  | 03/23/2022 11:51 | R308977 |
| <b>STANDARD METHODS 2130 B FIELD</b>                |               |        |      |          |       |    |                  |         |
| Turbidity                                           | *             | 1.0    |      | 7.8      | NTU   | 1  | 03/23/2022 11:51 | R308977 |
| <b>STANDARD METHODS 18TH ED. 2580 B FIELD</b>       |               |        |      |          |       |    |                  |         |
| Oxidation-Reduction Potential                       | *             | -300   |      | -60      | mV    | 1  | 03/23/2022 11:51 | R308977 |
| <b>STANDARD METHODS 2510 B FIELD</b>                |               |        |      |          |       |    |                  |         |
| Spec. Conductance, Field                            | *             | 0      |      | 1290     | µS/cm | 1  | 03/23/2022 11:51 | R308977 |
| <b>STANDARD METHODS 2550 B FIELD</b>                |               |        |      |          |       |    |                  |         |
| Temperature                                         | *             | 0      |      | 17.0     | °C    | 1  | 03/23/2022 11:51 | R308977 |
| <b>STANDARD METHODS 4500-O G FIELD</b>              |               |        |      |          |       |    |                  |         |
| Oxygen, Dissolved                                   | *             | 0      |      | 0.33     | mg/L  | 1  | 03/23/2022 11:51 | R308977 |
| <b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>   |               |        |      |          |       |    |                  |         |
| Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )     | NELAP         | 0      |      | 269      | mg/L  | 1  | 03/29/2022 8:37  | R308865 |
| <b>STANDARD METHODS 2320 B 1997, 2011</b>           |               |        |      |          |       |    |                  |         |
| Alkalinity, Carbonate (as CaCO <sub>3</sub> )       | NELAP         | 0      |      | 0        | mg/L  | 1  | 03/29/2022 8:37  | R308865 |
| <b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>   |               |        |      |          |       |    |                  |         |
| Total Dissolved Solids                              | NELAP         | 20     |      | 514      | mg/L  | 1  | 03/30/2022 8:47  | R309043 |
| <b>SW-846 9036 (TOTAL)</b>                          |               |        |      |          |       |    |                  |         |
| Sulfate                                             | NELAP         | 50     |      | 101      | mg/L  | 5  | 03/25/2022 21:48 | R308817 |
| <b>SW-846 9214 (TOTAL)</b>                          |               |        |      |          |       |    |                  |         |
| Fluoride                                            | NELAP         | 0.10   |      | 0.17     | mg/L  | 1  | 03/31/2022 11:38 | R308988 |
| <b>SW-846 9251 (TOTAL)</b>                          |               |        |      |          |       |    |                  |         |
| Chloride                                            | NELAP         | 5      |      | 78       | mg/L  | 5  | 03/25/2022 21:48 | R308818 |
| <b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>   |               |        |      |          |       |    |                  |         |
| Calcium                                             | NELAP         | 0.100  |      | 99.9     | mg/L  | 1  | 03/30/2022 10:50 | 188963  |
| Magnesium                                           | NELAP         | 0.0500 |      | 28.9     | mg/L  | 1  | 03/30/2022 10:50 | 188963  |
| Potassium                                           | NELAP         | 0.500  |      | 10.3     | mg/L  | 5  | 03/31/2022 11:28 | 188963  |
| Sodium                                              | NELAP         | 0.0500 |      | 51.7     | mg/L  | 1  | 03/30/2022 10:50 | 188963  |
| <b>SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)</b> |               |        |      |          |       |    |                  |         |
| Antimony                                            | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 03/29/2022 22:05 | 188963  |
| Arsenic                                             | NELAP         | 0.0010 | J    | 0.0008   | mg/L  | 5  | 03/31/2022 15:33 | 188963  |
| Barium                                              | NELAP         | 0.0010 |      | 0.0706   | mg/L  | 5  | 03/29/2022 22:05 | 188963  |
| Beryllium                                           | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 03/31/2022 15:33 | 188963  |
| Boron                                               | NELAP         | 0.0250 |      | 1.56     | mg/L  | 5  | 03/31/2022 15:33 | 188963  |
| Cadmium                                             | NELAP         | 0.0010 | J    | 0.0005   | mg/L  | 5  | 03/31/2022 15:33 | 188963  |
| Chromium                                            | NELAP         | 0.0015 |      | < 0.0015 | mg/L  | 5  | 03/31/2022 15:33 | 188963  |
| Cobalt                                              | NELAP         | 0.0010 |      | 0.0024   | mg/L  | 5  | 03/31/2022 15:33 | 188963  |
| Lead                                                | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 03/29/2022 22:05 | 188963  |
| Lithium                                             | *             | 0.0030 |      | 0.0289   | mg/L  | 5  | 03/31/2022 15:33 | 188963  |
| Molybdenum                                          | NELAP         | 0.0015 |      | 0.0340   | mg/L  | 5  | 03/31/2022 15:33 | 188963  |
| Selenium                                            | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 03/31/2022 15:33 | 188963  |
| Thallium                                            | NELAP         | 0.0020 |      | < 0.0020 | mg/L  | 5  | 03/29/2022 22:05 | 188963  |

**Client:** Ramboll  
**Client Project:** Hennepin Q1 Groundwater  
**Lab ID:** 22030530-017  
**Matrix:** GROUNDWATER

**Work Order:** 22030530  
**Report Date:** 01-Jun-22  
**Client Sample ID:** 18D  
**Collection Date:** 03/23/2022 11:51

| Analyses                    | Certification | RL      | Qual | Result    | Units | DF | Date Analyzed    | Batch  |
|-----------------------------|---------------|---------|------|-----------|-------|----|------------------|--------|
| <b>SW-846 7470A (TOTAL)</b> |               |         |      |           |       |    |                  |        |
| Mercury                     | NELAP         | 0.00020 |      | < 0.00020 | mg/L  | 1  | 03/28/2022 17:05 | 189038 |

Client: Ramboll  
 Client Project: Hennepin Q1 Groundwater  
 Lab ID: 22030530-018  
 Matrix: GROUNDWATER

Work Order: 22030530  
 Report Date: 01-Jun-22  
 Client Sample ID: 18S  
 Collection Date: 03/23/2022 11:37

| Analyses                                                                                             | Certification | RL     | Qual | Result   | Units | DF | Date Analyzed    | Batch   |
|------------------------------------------------------------------------------------------------------|---------------|--------|------|----------|-------|----|------------------|---------|
| <b>FIELD ELEVATION MEASUREMENTS</b>                                                                  |               |        |      |          |       |    |                  |         |
| Depth to water from measuring point                                                                  | *             | 0      |      | 39.93    | ft    | 1  | 03/21/2022 13:12 | R308977 |
| <b>STANDARD METHOD 4500-H B 2001 FIELD</b>                                                           |               |        |      |          |       |    |                  |         |
| pH                                                                                                   | *             | 1.00   |      | 7.32     |       | 1  | 03/23/2022 11:37 | R308977 |
| <b>STANDARD METHODS 2130 B FIELD</b>                                                                 |               |        |      |          |       |    |                  |         |
| Turbidity                                                                                            | *             | 1.0    |      | < 1.0    | NTU   | 1  | 03/23/2022 11:37 | R308977 |
| <b>STANDARD METHODS 18TH ED. 2580 B FIELD</b>                                                        |               |        |      |          |       |    |                  |         |
| Oxidation-Reduction Potential                                                                        | *             | -300   |      | -67      | mV    | 1  | 03/23/2022 11:37 | R308977 |
| <b>STANDARD METHODS 2510 B FIELD</b>                                                                 |               |        |      |          |       |    |                  |         |
| Spec. Conductance, Field                                                                             | *             | 0      |      | 1270     | µS/cm | 1  | 03/23/2022 11:37 | R308977 |
| <b>STANDARD METHODS 2550 B FIELD</b>                                                                 |               |        |      |          |       |    |                  |         |
| Temperature                                                                                          | *             | 0      |      | 17.0     | °C    | 1  | 03/23/2022 11:37 | R308977 |
| <b>STANDARD METHODS 4500-O G FIELD</b>                                                               |               |        |      |          |       |    |                  |         |
| Oxygen, Dissolved                                                                                    | *             | 0      |      | 0.28     | mg/L  | 1  | 03/23/2022 11:37 | R308977 |
| <b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>                                                    |               |        |      |          |       |    |                  |         |
| Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )                                                      | NELAP         | 0      |      | 223      | mg/L  | 1  | 03/29/2022 8:43  | R308865 |
| <b>STANDARD METHODS 2320 B 1997, 2011</b>                                                            |               |        |      |          |       |    |                  |         |
| Alkalinity, Carbonate (as CaCO <sub>3</sub> )                                                        | NELAP         | 0      |      | 0        | mg/L  | 1  | 03/29/2022 8:43  | R308865 |
| <b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>                                                    |               |        |      |          |       |    |                  |         |
| Total Dissolved Solids                                                                               | NELAP         | 20     |      | 560      | mg/L  | 1  | 03/30/2022 8:47  | R309043 |
| <i>Stable weight could not be achieved after 4 consecutive drying, cooling, and weighing cycles.</i> |               |        |      |          |       |    |                  |         |
| <b>SW-846 9036 (TOTAL)</b>                                                                           |               |        |      |          |       |    |                  |         |
| Sulfate                                                                                              | NELAP         | 50     |      | 141      | mg/L  | 5  | 03/25/2022 21:51 | R308817 |
| <b>SW-846 9214 (TOTAL)</b>                                                                           |               |        |      |          |       |    |                  |         |
| Fluoride                                                                                             | NELAP         | 0.10   |      | 0.18     | mg/L  | 1  | 03/31/2022 11:40 | R308988 |
| <b>SW-846 9251 (TOTAL)</b>                                                                           |               |        |      |          |       |    |                  |         |
| Chloride                                                                                             | NELAP         | 5      |      | 71       | mg/L  | 5  | 03/25/2022 21:51 | R308818 |
| <b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>                                                    |               |        |      |          |       |    |                  |         |
| Calcium                                                                                              | NELAP         | 0.100  |      | 103      | mg/L  | 1  | 03/30/2022 10:54 | 188963  |
| Magnesium                                                                                            | NELAP         | 0.0500 |      | 24.8     | mg/L  | 1  | 03/30/2022 10:54 | 188963  |
| Potassium                                                                                            | NELAP         | 0.500  |      | 11.4     | mg/L  | 5  | 03/31/2022 11:31 | 188963  |
| Sodium                                                                                               | NELAP         | 0.0500 |      | 52.0     | mg/L  | 1  | 03/30/2022 10:54 | 188963  |
| <b>SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)</b>                                                  |               |        |      |          |       |    |                  |         |
| Antimony                                                                                             | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 03/29/2022 22:11 | 188963  |
| Arsenic                                                                                              | NELAP         | 0.0010 | J    | 0.0006   | mg/L  | 5  | 03/31/2022 15:39 | 188963  |
| Barium                                                                                               | NELAP         | 0.0010 |      | 0.0605   | mg/L  | 5  | 03/29/2022 22:11 | 188963  |
| Beryllium                                                                                            | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 03/31/2022 15:39 | 188963  |
| Boron                                                                                                | NELAP         | 0.0250 |      | 3.23     | mg/L  | 5  | 03/31/2022 15:39 | 188963  |
| Cadmium                                                                                              | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 03/31/2022 15:39 | 188963  |
| Chromium                                                                                             | NELAP         | 0.0015 |      | 0.0016   | mg/L  | 5  | 03/31/2022 15:39 | 188963  |
| Cobalt                                                                                               | NELAP         | 0.0010 | J    | 0.0002   | mg/L  | 5  | 03/31/2022 15:39 | 188963  |
| Lead                                                                                                 | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 03/29/2022 22:11 | 188963  |
| Lithium                                                                                              | *             | 0.0030 |      | 0.0632   | mg/L  | 5  | 03/31/2022 15:39 | 188963  |
| Molybdenum                                                                                           | NELAP         | 0.0015 |      | 0.167    | mg/L  | 5  | 03/31/2022 15:39 | 188963  |
| Selenium                                                                                             | NELAP         | 0.0010 |      | 0.0244   | mg/L  | 5  | 03/31/2022 15:39 | 188963  |
| Thallium                                                                                             | NELAP         | 0.0020 |      | < 0.0020 | mg/L  | 5  | 03/29/2022 22:11 | 188963  |

**Client:** Ramboll**Work Order:** 22030530**Client Project:** Hennepin Q1 Groundwater**Report Date:** 01-Jun-22**Lab ID:** 22030530-018**Client Sample ID:** 18S**Matrix:** GROUNDWATER**Collection Date:** 03/23/2022 11:37

| Analyses                    | Certification | RL      | Qual | Result    | Units | DF | Date Analyzed    | Batch  |
|-----------------------------|---------------|---------|------|-----------|-------|----|------------------|--------|
| <b>SW-846 7470A (TOTAL)</b> |               |         |      |           |       |    |                  |        |
| Mercury                     | NELAP         | 0.00020 |      | < 0.00020 | mg/L  | 1  | 03/28/2022 17:09 | 189038 |

Client: Ramboll  
 Client Project: Hennepin Q1 Groundwater  
 Lab ID: 22030530-036  
 Matrix: GROUNDWATER

Work Order: 22030530  
 Report Date: 01-Jun-22  
 Client Sample ID: 45S  
 Collection Date: 03/23/2022 12:36

| Analyses                                            | Certification | RL     | Qual | Result   | Units | DF | Date Analyzed    | Batch   |
|-----------------------------------------------------|---------------|--------|------|----------|-------|----|------------------|---------|
| <b>FIELD ELEVATION MEASUREMENTS</b>                 |               |        |      |          |       |    |                  |         |
| Depth to water from measuring point                 | *             | 0      |      | 19.61    | ft    | 1  | 03/21/2022 13:08 | R308977 |
| <b>STANDARD METHOD 4500-H B 2001 FIELD</b>          |               |        |      |          |       |    |                  |         |
| pH                                                  | *             | 1.00   |      | 7.09     |       | 1  | 03/23/2022 12:36 | R308977 |
| <b>STANDARD METHODS 2130 B FIELD</b>                |               |        |      |          |       |    |                  |         |
| Turbidity                                           | *             | 1.0    |      | 0.39     | NTU   | 1  | 03/23/2022 12:36 | R308977 |
| <b>STANDARD METHODS 18TH ED. 2580 B FIELD</b>       |               |        |      |          |       |    |                  |         |
| Oxidation-Reduction Potential                       | *             | -300   |      | -124     | mV    | 1  | 03/23/2022 12:36 | R308977 |
| <b>STANDARD METHODS 2510 B FIELD</b>                |               |        |      |          |       |    |                  |         |
| Spec. Conductance, Field                            | *             | 0      |      | 1340     | µS/cm | 1  | 03/23/2022 12:36 | R308977 |
| <b>STANDARD METHODS 2550 B FIELD</b>                |               |        |      |          |       |    |                  |         |
| Temperature                                         | *             | 0      |      | 20.9     | °C    | 1  | 03/23/2022 12:36 | R308977 |
| <b>STANDARD METHODS 4500-O G FIELD</b>              |               |        |      |          |       |    |                  |         |
| Oxygen, Dissolved                                   | *             | 0      |      | 0.18     | mg/L  | 1  | 03/23/2022 12:36 | R308977 |
| <b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>   |               |        |      |          |       |    |                  |         |
| Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )     | NELAP         | 0      |      | 272      | mg/L  | 1  | 03/29/2022 9:48  | R308865 |
| <b>STANDARD METHODS 2320 B 1997, 2011</b>           |               |        |      |          |       |    |                  |         |
| Alkalinity, Carbonate (as CaCO <sub>3</sub> )       | NELAP         | 0      |      | 0        | mg/L  | 1  | 03/29/2022 9:48  | R308865 |
| <b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>   |               |        |      |          |       |    |                  |         |
| Total Dissolved Solids                              | NELAP         | 20     |      | 518      | mg/L  | 1  | 03/30/2022 8:48  | R309043 |
| <b>SW-846 9036 (TOTAL)</b>                          |               |        |      |          |       |    |                  |         |
| Sulfate                                             | NELAP         | 50     |      | 70       | mg/L  | 5  | 03/25/2022 23:21 | R308817 |
| <b>SW-846 9214 (TOTAL)</b>                          |               |        |      |          |       |    |                  |         |
| Fluoride                                            | NELAP         | 0.10   |      | 0.29     | mg/L  | 1  | 03/31/2022 12:32 | R308988 |
| <b>SW-846 9251 (TOTAL)</b>                          |               |        |      |          |       |    |                  |         |
| Chloride                                            | NELAP         | 5      |      | 93       | mg/L  | 5  | 03/25/2022 23:21 | R308818 |
| <b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>   |               |        |      |          |       |    |                  |         |
| Calcium                                             | NELAP         | 0.100  |      | 97.4     | mg/L  | 1  | 03/29/2022 22:42 | 188980  |
| Magnesium                                           | NELAP         | 0.0500 |      | 29.2     | mg/L  | 1  | 03/29/2022 22:42 | 188980  |
| Potassium                                           | NELAP         | 0.100  |      | 6.76     | mg/L  | 1  | 03/31/2022 12:42 | 188980  |
| Sodium                                              | NELAP         | 0.0500 |      | 56.8     | mg/L  | 1  | 03/29/2022 22:42 | 188980  |
| <b>SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)</b> |               |        |      |          |       |    |                  |         |
| Antimony                                            | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 03/30/2022 0:59  | 188980  |
| Arsenic                                             | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 03/30/2022 0:59  | 188980  |
| Barium                                              | NELAP         | 0.0010 |      | 0.0878   | mg/L  | 5  | 03/31/2022 17:56 | 188980  |
| Beryllium                                           | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 03/31/2022 17:56 | 188980  |
| Boron                                               | NELAP         | 0.0250 |      | 0.373    | mg/L  | 5  | 03/31/2022 17:56 | 188980  |
| Cadmium                                             | NELAP         | 0.0010 | J    | 0.0008   | mg/L  | 5  | 03/30/2022 0:59  | 188980  |
| Chromium                                            | NELAP         | 0.0015 | J    | 0.0008   | mg/L  | 5  | 03/31/2022 17:56 | 188980  |
| Cobalt                                              | NELAP         | 0.0010 |      | 0.0023   | mg/L  | 5  | 03/31/2022 17:56 | 188980  |
| Lead                                                | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 03/30/2022 0:59  | 188980  |
| Lithium                                             | *             | 0.0030 |      | 0.0171   | mg/L  | 5  | 03/31/2022 17:56 | 188980  |
| Molybdenum                                          | NELAP         | 0.0015 |      | 0.0593   | mg/L  | 5  | 03/30/2022 0:59  | 188980  |
| Selenium                                            | NELAP         | 0.0010 |      | < 0.0010 | mg/L  | 5  | 03/30/2022 0:59  | 188980  |
| Thallium                                            | NELAP         | 0.0020 |      | < 0.0020 | mg/L  | 5  | 03/30/2022 0:59  | 188980  |



## Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll  
Client Project: Hennepin Q1 Groundwater  
Lab ID: 22030530-036  
Matrix: GROUNDWATER

Work Order: 22030530  
Report Date: 01-Jun-22  
Client Sample ID: 45S  
Collection Date: 03/23/2022 12:36

| Analyses             | Certification | RL      | Qual | Result    | Units | DF | Date Analyzed    | Batch  |
|----------------------|---------------|---------|------|-----------|-------|----|------------------|--------|
| SW-846 7470A (TOTAL) |               |         |      |           |       |    |                  |        |
| Mercury              | NELAP         | 0.00020 |      | < 0.00020 | mg/L  | 1  | 03/28/2022 18:01 | 189039 |

**Client:** Ramboll**Work Order:** 22030530**Client Project:** Hennepin Q1 Groundwater**Report Date:** 01-Jun-22**Lab ID:** 22030530-044**Client Sample ID:** SG02**Matrix:** GROUNDWATER**Collection Date:** 03/21/2022 14:01

| Analyses                            | Certification | RL | Qual | Result        | Units | DF | Date Analyzed    | Batch   |
|-------------------------------------|---------------|----|------|---------------|-------|----|------------------|---------|
| <b>FIELD ELEVATION MEASUREMENTS</b> |               |    |      |               |       |    |                  |         |
| Depth to water from measuring point | *             | 0  |      | <b>444.50</b> | ft    | 1  | 03/21/2022 14:01 | R308977 |



Client: Ramboll  
 Client Project: Hennepin Q1 Groundwater  
 Lab ID: 22030530-049  
 Matrix: GROUNDWATER

Work Order: 22030530  
 Report Date: 01-Jun-22  
 Client Sample ID: Field Blank  
 Collection Date: 03/23/2022 13:30

| Analyses                                                                                                                      | Certification | RL      | Qual | Result    | Units | DF | Date Analyzed    | Batch   |
|-------------------------------------------------------------------------------------------------------------------------------|---------------|---------|------|-----------|-------|----|------------------|---------|
| <b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>                                                                             |               |         |      |           |       |    |                  |         |
| Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )                                                                               | NELAP         | 0       |      | 2         | mg/L  | 1  | 03/29/2022 10:56 | R308865 |
| <b>STANDARD METHODS 2320 B 1997, 2011</b>                                                                                     |               |         |      |           |       |    |                  |         |
| Alkalinity, Carbonate (as CaCO <sub>3</sub> )                                                                                 | NELAP         | 0       |      | 0         | mg/L  | 1  | 03/29/2022 10:56 | R308865 |
| <b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>                                                                             |               |         |      |           |       |    |                  |         |
| Total Dissolved Solids                                                                                                        | NELAP         | 20      |      | < 20      | mg/L  | 1  | 03/30/2022 8:49  | R309043 |
| <b>SW-846 9036 (TOTAL)</b>                                                                                                    |               |         |      |           |       |    |                  |         |
| Sulfate                                                                                                                       | NELAP         | 10      |      | < 10      | mg/L  | 1  | 03/26/2022 1:03  | R308817 |
| <b>SW-846 9214 (TOTAL)</b>                                                                                                    |               |         |      |           |       |    |                  |         |
| Fluoride                                                                                                                      | NELAP         | 0.10    |      | < 0.10    | mg/L  | 1  | 03/31/2022 14:12 | R308988 |
| <b>SW-846 9251 (TOTAL)</b>                                                                                                    |               |         |      |           |       |    |                  |         |
| Chloride                                                                                                                      | NELAP         | 1       |      | < 1       | mg/L  | 1  | 03/26/2022 1:03  | R308818 |
| <b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>                                                                             |               |         |      |           |       |    |                  |         |
| Calcium                                                                                                                       | NELAP         | 0.100   |      | < 0.100   | mg/L  | 1  | 03/28/2022 23:49 | 189006  |
| Magnesium                                                                                                                     | NELAP         | 0.0500  |      | < 0.0500  | mg/L  | 1  | 03/28/2022 23:49 | 189006  |
| Potassium                                                                                                                     | NELAP         | 0.10    | BJ   | 0.050     | mg/L  | 1  | 03/28/2022 23:49 | 189006  |
| Sodium                                                                                                                        | NELAP         | 0.0500  |      | < 0.0500  | mg/L  | 1  | 03/28/2022 23:49 | 189006  |
| <i>Contamination present in the MBLK for K. Sample results below the reporting limit are reportable per the TNI Standard.</i> |               |         |      |           |       |    |                  |         |
| <b>SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)</b>                                                                           |               |         |      |           |       |    |                  |         |
| Antimony                                                                                                                      | NELAP         | 0.0010  |      | < 0.0010  | mg/L  | 5  | 03/29/2022 20:26 | 189006  |
| Arsenic                                                                                                                       | NELAP         | 0.0010  |      | < 0.0010  | mg/L  | 5  | 03/29/2022 20:26 | 189006  |
| Barium                                                                                                                        | NELAP         | 0.0010  |      | < 0.0010  | mg/L  | 5  | 03/29/2022 20:26 | 189006  |
| Beryllium                                                                                                                     | NELAP         | 0.0010  |      | < 0.0010  | mg/L  | 5  | 03/31/2022 19:29 | 189006  |
| Boron                                                                                                                         | NELAP         | 0.0250  |      | < 0.0250  | mg/L  | 5  | 03/31/2022 19:29 | 189006  |
| Cadmium                                                                                                                       | NELAP         | 0.0010  |      | < 0.0010  | mg/L  | 5  | 03/29/2022 20:26 | 189006  |
| Chromium                                                                                                                      | NELAP         | 0.0015  |      | < 0.0015  | mg/L  | 5  | 03/31/2022 19:29 | 189006  |
| Cobalt                                                                                                                        | NELAP         | 0.0010  |      | < 0.0010  | mg/L  | 5  | 03/31/2022 19:29 | 189006  |
| Lead                                                                                                                          | NELAP         | 0.0010  |      | < 0.0010  | mg/L  | 5  | 03/29/2022 20:26 | 189006  |
| Lithium                                                                                                                       | *             | 0.0030  |      | < 0.0030  | mg/L  | 5  | 03/31/2022 19:29 | 189006  |
| Molybdenum                                                                                                                    | NELAP         | 0.0015  |      | < 0.0015  | mg/L  | 5  | 03/29/2022 20:26 | 189006  |
| Selenium                                                                                                                      | NELAP         | 0.0010  |      | < 0.0010  | mg/L  | 5  | 03/29/2022 20:26 | 189006  |
| Thallium                                                                                                                      | NELAP         | 0.0020  |      | < 0.0020  | mg/L  | 5  | 03/29/2022 20:26 | 189006  |
| <b>SW-846 7470A (TOTAL)</b>                                                                                                   |               |         |      |           |       |    |                  |         |
| Mercury                                                                                                                       | NELAP         | 0.00020 |      | < 0.00020 | mg/L  | 1  | 03/29/2022 17:43 | 189040  |

## Sample Summary

<http://www.teklabinc.com/>

**Client:** Ramboll

**Work Order:** 22030530

**Client Project:** Hennepin Q1 Groundwater

**Report Date:** 01-Jun-22

| Lab Sample ID | Client Sample ID | Matrix      | Fractions | Collection Date  |
|---------------|------------------|-------------|-----------|------------------|
| 22030530-002  | 03R              | Groundwater | 7         | 03/23/2022 12:08 |
| 22030530-007  | 07               | Groundwater | 7         | 03/22/2022 15:31 |
| 22030530-008  | 08               | Groundwater | 12        | 03/22/2022 14:24 |
| 22030530-009  | 08 Duplicate     | Groundwater | 12        | 03/22/2022 14:24 |
| 22030530-010  | 08D              | Groundwater | 12        | 03/22/2022 14:04 |
| 22030530-017  | 18D              | Groundwater | 7         | 03/23/2022 11:51 |
| 22030530-018  | 18S              | Groundwater | 7         | 03/23/2022 11:37 |
| 22030530-036  | 45S              | Groundwater | 6         | 03/23/2022 12:36 |
| 22030530-044  | SG02             | Groundwater | 1         | 03/21/2022 14:01 |
| 22030530-049  | Field Blank      | Groundwater | 13        | 03/23/2022 13:30 |

**Client:** Ramboll

**Work Order:** 22030530

**Client Project:** Hennepin Q1 Groundwater

**Report Date:** 01-Jun-22

| Sample ID     | Client Sample ID                                        | Collection Date  | Received Date   | Prep Date/Time   | Analysis Date/Time |
|---------------|---------------------------------------------------------|------------------|-----------------|------------------|--------------------|
| Test Name     |                                                         |                  |                 |                  |                    |
| 22030530-002A | 03R                                                     | 03/23/2022 12:08 | 03/24/2022 7:50 |                  |                    |
|               | Field Elevation Measurements                            |                  |                 |                  | 03/21/2022 13:11   |
|               | Standard Method 4500-H B 2001 Field                     |                  |                 |                  | 03/23/2022 12:08   |
|               | Standard Methods 2130 B Field                           |                  |                 |                  | 03/23/2022 12:08   |
|               | Standard Methods 18th Ed. 2580 B Field                  |                  |                 |                  | 03/23/2022 12:08   |
|               | Standard Methods 2320 B (Total) 1997, 2011              |                  |                 |                  | 03/29/2022 7:25    |
|               | Standard Methods 2320 B 1997, 2011                      |                  |                 |                  | 03/29/2022 7:25    |
|               | Standard Methods 2510 B Field                           |                  |                 |                  | 03/23/2022 12:08   |
|               | Standard Methods 2540 C (Total) 1997, 2011              |                  |                 |                  | 03/30/2022 8:44    |
|               | Standard Methods 2550 B Field                           |                  |                 |                  | 03/23/2022 12:08   |
|               | Standard Methods 4500-NO2 B (Total) 2000, 2011          |                  |                 |                  | 03/24/2022 12:47   |
|               | Standard Methods 4500-NO3 F (Total) 2000, 2011          |                  |                 |                  | 03/24/2022 12:40   |
|               | Standard Methods 4500-O G Field                         |                  |                 |                  | 03/23/2022 12:08   |
|               | SW-846 9036 (Total)                                     |                  |                 |                  | 03/25/2022 20:10   |
|               | SW-846 9214 (Total)                                     |                  |                 |                  | 03/31/2022 11:03   |
|               | SW-846 9251 (Total)                                     |                  |                 |                  | 03/25/2022 20:09   |
| 22030530-002B | 03R                                                     | 03/23/2022 12:08 | 03/24/2022 7:50 |                  |                    |
|               | SW-846 9036 (Dissolved)                                 |                  |                 |                  | 03/25/2022 16:07   |
|               | SW-846 9214 (Dissolved)                                 |                  |                 |                  | 03/31/2022 14:17   |
|               | SW-846 9251 (Dissolved)                                 |                  |                 |                  | 03/25/2022 16:07   |
| 22030530-002C | 03R                                                     | 03/23/2022 12:08 | 03/24/2022 7:50 |                  |                    |
|               | SW-846 3005A, 6010B, Metals by ICP (Total)              |                  |                 | 03/24/2022 11:27 | 03/30/2022 9:13    |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)            |                  |                 | 03/24/2022 11:27 | 03/29/2022 20:32   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)            |                  |                 | 03/24/2022 11:27 | 03/31/2022 14:49   |
|               | SW-846 7470A (Total)                                    |                  |                 | 03/24/2022 11:41 | 03/24/2022 17:56   |
| 22030530-002D | 03R                                                     | 03/23/2022 12:08 | 03/24/2022 7:50 |                  |                    |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                 | 03/25/2022 13:22 | 03/31/2022 19:41   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                 | 03/25/2022 13:22 | 04/01/2022 17:08   |
|               | SW-846 7470A (Dissolved)                                |                  |                 | 03/24/2022 11:41 | 03/24/2022 17:58   |
| 22030530-002E | 03R                                                     | 03/23/2022 12:08 | 03/24/2022 7:50 |                  |                    |
|               | SW-846 9012A (Total)                                    |                  |                 | 03/25/2022 13:27 | 03/28/2022 13:10   |
| 22030530-002F | 03R                                                     | 03/23/2022 12:08 | 03/24/2022 7:50 |                  |                    |
|               | SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS |                  |                 |                  | 03/24/2022 13:22   |
| 22030530-002G | 03R                                                     | 03/23/2022 12:08 | 03/24/2022 7:50 |                  |                    |
|               | EPA 314.0                                               |                  |                 |                  | 04/05/2022 0:00    |
| 22030530-007A | 07                                                      | 03/22/2022 15:31 | 03/24/2022 7:50 |                  |                    |
|               | Field Elevation Measurements                            |                  |                 |                  | 03/21/2022 14:20   |

**Client:** Ramboll

**Work Order:** 22030530

**Client Project:** Hennepin Q1 Groundwater

**Report Date:** 01-Jun-22

| Sample ID     | Client Sample ID                                        | Collection Date  | Received Date   | Prep Date/Time   | Analysis Date/Time |
|---------------|---------------------------------------------------------|------------------|-----------------|------------------|--------------------|
| Test Name     |                                                         |                  |                 |                  |                    |
|               | Standard Method 4500-H B 2001 Field                     |                  |                 |                  | 03/22/2022 15:31   |
|               | Standard Methods 2130 B Field                           |                  |                 |                  | 03/22/2022 15:31   |
|               | Standard Methods 18th Ed. 2580 B Field                  |                  |                 |                  | 03/22/2022 15:31   |
|               | Standard Methods 2320 B (Total) 1997, 2011              |                  |                 |                  | 03/29/2022 7:41    |
|               | Standard Methods 2320 B 1997, 2011                      |                  |                 |                  | 03/29/2022 7:41    |
|               | Standard Methods 2510 B Field                           |                  |                 |                  | 03/22/2022 15:31   |
|               | Standard Methods 2540 C (Total) 1997, 2011              |                  |                 |                  | 03/28/2022 14:24   |
|               | Standard Methods 2550 B Field                           |                  |                 |                  | 03/22/2022 15:31   |
|               | Standard Methods 4500-NO2 B (Total) 2000, 2011          |                  |                 |                  | 03/24/2022 12:49   |
|               | Standard Methods 4500-NO3 F (Total) 2000, 2011          |                  |                 |                  | 03/24/2022 12:05   |
|               | Standard Methods 4500-O G Field                         |                  |                 |                  | 03/22/2022 15:31   |
|               | SW-846 9036 (Total)                                     |                  |                 |                  | 03/25/2022 20:50   |
|               | SW-846 9214 (Total)                                     |                  |                 |                  | 03/31/2022 11:10   |
|               | SW-846 9251 (Total)                                     |                  |                 |                  | 03/25/2022 20:49   |
| 22030530-007B | 07                                                      | 03/22/2022 15:31 | 03/24/2022 7:50 |                  |                    |
|               | SW-846 9036 (Dissolved)                                 |                  |                 |                  | 03/25/2022 16:50   |
|               | SW-846 9214 (Dissolved)                                 |                  |                 |                  | 03/31/2022 14:29   |
|               | SW-846 9251 (Dissolved)                                 |                  |                 |                  | 03/25/2022 16:50   |
| 22030530-007C | 07                                                      | 03/22/2022 15:31 | 03/24/2022 7:50 |                  |                    |
|               | SW-846 3005A, 6010B, Metals by ICP (Total)              |                  |                 | 03/24/2022 11:27 | 03/30/2022 9:24    |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)            |                  |                 | 03/24/2022 11:27 | 03/29/2022 20:50   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)            |                  |                 | 03/24/2022 11:27 | 03/31/2022 14:56   |
|               | SW-846 7470A (Total)                                    |                  |                 | 03/24/2022 11:41 | 03/24/2022 18:14   |
| 22030530-007D | 07                                                      | 03/22/2022 15:31 | 03/24/2022 7:50 |                  |                    |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                 | 03/25/2022 13:22 | 03/31/2022 22:04   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                 | 03/25/2022 13:22 | 04/01/2022 17:25   |
|               | SW-846 7470A (Dissolved)                                |                  |                 | 03/27/2022 10:12 | 03/29/2022 17:29   |
| 22030530-007E | 07                                                      | 03/22/2022 15:31 | 03/24/2022 7:50 |                  |                    |
|               | SW-846 9012A (Total)                                    |                  |                 | 03/25/2022 13:27 | 03/28/2022 13:58   |
| 22030530-007F | 07                                                      | 03/22/2022 15:31 | 03/24/2022 7:50 |                  |                    |
|               | SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS |                  |                 |                  | 03/24/2022 13:52   |
| 22030530-007G | 07                                                      | 03/22/2022 15:31 | 03/24/2022 7:50 |                  |                    |
|               | EPA 314.0                                               |                  |                 |                  | 04/05/2022 0:00    |
| 22030530-008A | 08                                                      | 03/22/2022 14:24 | 03/24/2022 7:50 |                  |                    |
|               | Field Elevation Measurements                            |                  |                 |                  | 03/21/2022 12:38   |
|               | Standard Method 4500-H B 2001 Field                     |                  |                 |                  | 03/22/2022 14:24   |
|               | Standard Methods 2130 B Field                           |                  |                 |                  | 03/22/2022 14:24   |

**Client:** Ramboll

**Work Order:** 22030530

**Client Project:** Hennepin Q1 Groundwater

**Report Date:** 01-Jun-22

| Sample ID     | Client Sample ID                                 | Collection Date  | Received Date   | Prep Date/Time   | Analysis Date/Time |
|---------------|--------------------------------------------------|------------------|-----------------|------------------|--------------------|
| Test Name     |                                                  |                  |                 |                  |                    |
|               | Standard Methods 2320 B 1997, 2011               |                  |                 |                  | 03/29/2022 7:47    |
|               | Standard Methods 18th Ed. 2580 B Field           |                  |                 |                  | 03/22/2022 14:24   |
|               | Standard Methods 2320 B (Total) 1997, 2011       |                  |                 |                  | 03/29/2022 7:47    |
|               | Standard Methods 2320 B 1997, 2011               |                  |                 |                  | 03/29/2022 7:47    |
|               | Standard Methods 2510 B Field                    |                  |                 |                  | 03/22/2022 14:24   |
|               | Standard Methods 2540 C (Total) 1997, 2011       |                  |                 |                  | 03/28/2022 14:24   |
|               | Standard Methods 2550 B Field                    |                  |                 |                  | 03/22/2022 14:24   |
|               | Standard Methods 4500-NO2 B (Total) 2000, 2011   |                  |                 |                  | 03/24/2022 12:50   |
|               | Standard Methods 4500-NO3 F (Total) 2000, 2011   |                  |                 |                  | 03/24/2022 12:07   |
|               | Standard Methods 4500-O G Field                  |                  |                 |                  | 03/22/2022 14:24   |
|               | SW-846 9036 (Total)                              |                  |                 |                  | 03/25/2022 20:52   |
|               | SW-846 9214 (Total)                              |                  |                 |                  | 03/31/2022 11:13   |
|               | SW-846 9251 (Total)                              |                  |                 |                  | 03/25/2022 20:52   |
| 22030530-008B | 08                                               | 03/22/2022 14:24 | 03/24/2022 7:50 |                  |                    |
|               | SW-846 9036 (Dissolved)                          |                  |                 |                  | 03/25/2022 16:55   |
|               | SW-846 9214 (Dissolved)                          |                  |                 |                  | 03/31/2022 14:40   |
|               | SW-846 9251 (Dissolved)                          |                  |                 |                  | 03/25/2022 16:55   |
| 22030530-008C | 08                                               | 03/22/2022 14:24 | 03/24/2022 7:50 |                  |                    |
|               | SW-846 3005A, 6010B, Metals by ICP (Total)       |                  |                 | 03/24/2022 11:27 | 03/30/2022 9:28    |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)     |                  |                 | 03/24/2022 11:27 | 03/29/2022 20:57   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)     |                  |                 | 03/24/2022 11:27 | 03/31/2022 15:02   |
|               | SW-846 7470A (Total)                             |                  |                 | 03/27/2022 10:12 | 03/28/2022 16:12   |
| 22030530-008D | 08                                               | 03/22/2022 14:24 | 03/24/2022 7:50 |                  |                    |
|               | SW-846 3005A, 6010B, Metals by ICP (Dissolved)   |                  |                 | 03/25/2022 13:22 | 03/29/2022 5:12    |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved) |                  |                 | 03/25/2022 13:22 | 03/31/2022 21:33   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved) |                  |                 | 03/25/2022 13:22 | 04/01/2022 17:46   |
|               | SW-846 7470A (Dissolved)                         |                  |                 | 03/27/2022 10:12 | 03/28/2022 16:15   |
| 22030530-008E | 08                                               | 03/22/2022 14:24 | 03/24/2022 7:50 |                  |                    |
|               | SW-846 9012A (Total)                             |                  |                 | 03/25/2022 13:27 | 03/28/2022 14:02   |
| 22030530-008F | 08                                               | 03/22/2022 14:24 | 03/24/2022 7:50 |                  |                    |
|               | SW-846 9012A (Dissolved)                         |                  |                 | 03/25/2022 13:27 | 03/28/2022 12:23   |
| 22030530-008G | 08                                               | 03/22/2022 14:24 | 03/24/2022 7:50 |                  |                    |
|               | SW-846 9066 (Total)                              |                  |                 |                  | 03/28/2022 12:26   |
| 22030530-008H | 08                                               | 03/22/2022 14:24 | 03/24/2022 7:50 |                  |                    |
|               | SW-846 9066 (Dissolved)                          |                  |                 |                  | 03/28/2022 11:17   |
| 22030530-008I | 08                                               | 03/22/2022 14:24 | 03/24/2022 7:50 |                  |                    |
|               | Standard Methods 4500-NH3 G (Total) 1997, 2011   |                  |                 |                  | 03/25/2022 18:45   |

**Client:** Ramboll

**Work Order:** 22030530

**Client Project:** Hennepin Q1 Groundwater

**Report Date:** 01-Jun-22

| Sample ID     | Client Sample ID                                        | Collection Date  | Received Date   | Prep Date/Time   | Analysis Date/Time |
|---------------|---------------------------------------------------------|------------------|-----------------|------------------|--------------------|
| Test Name     |                                                         |                  |                 |                  |                    |
| 22030530-008J | 08                                                      | 03/22/2022 14:24 | 03/24/2022 7:50 |                  |                    |
|               | Standard Methods 4500-NH3 G (Dissolved) 1997, 2011      |                  |                 |                  | 03/25/2022 17:49   |
| 22030530-008K | 08                                                      | 03/22/2022 14:24 | 03/24/2022 7:50 |                  |                    |
|               | SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS |                  |                 |                  | 03/24/2022 14:21   |
| 22030530-008L | 08                                                      | 03/22/2022 14:24 | 03/24/2022 7:50 |                  |                    |
|               | EPA 314.0                                               |                  |                 |                  | 04/05/2022 0:00    |
| 22030530-009A | 08 Duplicate                                            | 03/22/2022 14:24 | 03/24/2022 7:50 |                  |                    |
|               | Field Elevation Measurements                            |                  |                 |                  | 03/21/2022 12:38   |
|               | Standard Method 4500-H B 2001 Field                     |                  |                 |                  | 03/22/2022 14:24   |
|               | Standard Methods 2130 B Field                           |                  |                 |                  | 03/22/2022 14:24   |
|               | Standard Methods 2320 B 1997, 2011                      |                  |                 |                  | 03/29/2022 7:54    |
|               | Standard Methods 18th Ed. 2580 B Field                  |                  |                 |                  | 03/22/2022 14:24   |
|               | Standard Methods 2320 B (Total) 1997, 2011              |                  |                 |                  | 03/29/2022 7:54    |
|               | Standard Methods 2320 B 1997, 2011                      |                  |                 |                  | 03/29/2022 7:54    |
|               | Standard Methods 2510 B Field                           |                  |                 |                  | 03/22/2022 14:24   |
|               | Standard Methods 2540 C (Total) 1997, 2011              |                  |                 |                  | 03/28/2022 14:25   |
|               | Standard Methods 2550 B Field                           |                  |                 |                  | 03/22/2022 14:24   |
|               | Standard Methods 4500-NO2 B (Total) 2000, 2011          |                  |                 |                  | 03/24/2022 12:50   |
|               | Standard Methods 4500-NO3 F (Total) 2000, 2011          |                  |                 |                  | 03/24/2022 12:09   |
|               | Standard Methods 4500-O G Field                         |                  |                 |                  | 03/22/2022 14:24   |
|               | SW-846 9036 (Total)                                     |                  |                 |                  | 03/25/2022 20:58   |
|               | SW-846 9214 (Total)                                     |                  |                 |                  | 03/31/2022 11:15   |
|               | SW-846 9251 (Total)                                     |                  |                 |                  | 03/25/2022 20:57   |
| 22030530-009B | 08 Duplicate                                            | 03/22/2022 14:24 | 03/24/2022 7:50 |                  |                    |
|               | SW-846 9036 (Dissolved)                                 |                  |                 |                  | 03/25/2022 16:58   |
|               | SW-846 9214 (Dissolved)                                 |                  |                 |                  | 03/31/2022 14:42   |
|               | SW-846 9251 (Dissolved)                                 |                  |                 |                  | 03/25/2022 16:58   |
| 22030530-009C | 08 Duplicate                                            | 03/22/2022 14:24 | 03/24/2022 7:50 |                  |                    |
|               | SW-846 3005A, 6010B, Metals by ICP (Total)              |                  |                 | 03/24/2022 11:27 | 03/30/2022 9:32    |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)            |                  |                 | 03/24/2022 11:27 | 03/29/2022 21:03   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)            |                  |                 | 03/24/2022 11:27 | 03/31/2022 15:08   |
|               | SW-846 7470A (Total)                                    |                  |                 | 03/27/2022 10:12 | 03/28/2022 16:21   |
| 22030530-009D | 08 Duplicate                                            | 03/22/2022 14:24 | 03/24/2022 7:50 |                  |                    |
|               | SW-846 3005A, 6010B, Metals by ICP (Dissolved)          |                  |                 | 03/25/2022 13:22 | 03/29/2022 5:15    |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                 | 03/25/2022 13:22 | 03/31/2022 21:39   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                 | 03/25/2022 13:22 | 04/01/2022 17:50   |
|               | SW-846 7470A (Dissolved)                                |                  |                 | 03/27/2022 10:12 | 03/28/2022 16:24   |

**Client:** Ramboll

**Work Order:** 22030530

**Client Project:** Hennepin Q1 Groundwater

**Report Date:** 01-Jun-22

| Sample ID     | Client Sample ID                                        | Collection Date  | Received Date   | Prep Date/Time   | Analysis Date/Time |
|---------------|---------------------------------------------------------|------------------|-----------------|------------------|--------------------|
| Test Name     |                                                         |                  |                 |                  |                    |
| 22030530-009E | 08 Duplicate                                            | 03/22/2022 14:24 | 03/24/2022 7:50 |                  |                    |
|               | SW-846 9012A (Total)                                    |                  |                 | 03/25/2022 13:27 | 03/28/2022 14:06   |
| 22030530-009F | 08 Duplicate                                            | 03/22/2022 14:24 | 03/24/2022 7:50 |                  |                    |
|               | SW-846 9012A (Dissolved)                                |                  |                 | 03/25/2022 13:27 | 03/28/2022 12:27   |
| 22030530-009G | 08 Duplicate                                            | 03/22/2022 14:24 | 03/24/2022 7:50 |                  |                    |
|               | SW-846 9066 (Total)                                     |                  |                 |                  | 03/28/2022 12:30   |
| 22030530-009H | 08 Duplicate                                            | 03/22/2022 14:24 | 03/24/2022 7:50 |                  |                    |
|               | SW-846 9066 (Dissolved)                                 |                  |                 |                  | 03/28/2022 11:25   |
| 22030530-009I | 08 Duplicate                                            | 03/22/2022 14:24 | 03/24/2022 7:50 |                  |                    |
|               | Standard Methods 4500-NH3 G (Total) 1997, 2011          |                  |                 |                  | 03/25/2022 18:47   |
| 22030530-009J | 08 Duplicate                                            | 03/22/2022 14:24 | 03/24/2022 7:50 |                  |                    |
|               | Standard Methods 4500-NH3 G (Dissolved) 1997, 2011      |                  |                 |                  | 03/25/2022 17:52   |
| 22030530-009K | 08 Duplicate                                            | 03/22/2022 14:24 | 03/24/2022 7:50 |                  |                    |
|               | SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS |                  |                 |                  | 03/24/2022 14:51   |
| 22030530-009L | 08 Duplicate                                            | 03/22/2022 14:24 | 03/24/2022 7:50 |                  |                    |
|               | EPA 314.0                                               |                  |                 |                  | 04/05/2022 0:00    |
| 22030530-010A | 08D                                                     | 03/22/2022 14:04 | 03/24/2022 7:50 |                  |                    |
|               | Field Elevation Measurements                            |                  |                 |                  | 03/21/2022 12:37   |
|               | Standard Method 4500-H B 2001 Field                     |                  |                 |                  | 03/22/2022 14:04   |
|               | Standard Methods 2130 B Field                           |                  |                 |                  | 03/22/2022 14:04   |
|               | Standard Methods 2320 B 1997, 2011                      |                  |                 |                  | 03/29/2022 8:00    |
|               | Standard Methods 18th Ed. 2580 B Field                  |                  |                 |                  | 03/22/2022 14:04   |
|               | Standard Methods 2320 B (Total) 1997, 2011              |                  |                 |                  | 03/29/2022 8:00    |
|               | Standard Methods 2320 B 1997, 2011                      |                  |                 |                  | 03/29/2022 8:00    |
|               | Standard Methods 2510 B Field                           |                  |                 |                  | 03/22/2022 14:04   |
|               | Standard Methods 2540 C (Total) 1997, 2011              |                  |                 |                  | 03/28/2022 16:46   |
|               | Standard Methods 2550 B Field                           |                  |                 |                  | 03/22/2022 14:04   |
|               | Standard Methods 4500-NO2 B (Total) 2000, 2011          |                  |                 |                  | 03/24/2022 12:51   |
|               | Standard Methods 4500-NO3 F (Total) 2000, 2011          |                  |                 |                  | 03/24/2022 12:11   |
|               | Standard Methods 4500-O G Field                         |                  |                 |                  | 03/22/2022 14:04   |
|               | SW-846 9036 (Total)                                     |                  |                 |                  | 03/25/2022 21:00   |
|               | SW-846 9214 (Total)                                     |                  |                 |                  | 03/31/2022 11:18   |
|               | SW-846 9251 (Total)                                     |                  |                 |                  | 03/25/2022 21:00   |
| 22030530-010B | 08D                                                     | 03/22/2022 14:04 | 03/24/2022 7:50 |                  |                    |
|               | SW-846 9036 (Dissolved)                                 |                  |                 |                  | 03/25/2022 17:00   |
|               | SW-846 9214 (Dissolved)                                 |                  |                 |                  | 03/31/2022 14:44   |

**Client:** Ramboll

**Work Order:** 22030530

**Client Project:** Hennepin Q1 Groundwater

**Report Date:** 01-Jun-22

| Sample ID     | Client Sample ID                                        | Collection Date  | Received Date   | Prep Date/Time   | Analysis Date/Time |
|---------------|---------------------------------------------------------|------------------|-----------------|------------------|--------------------|
|               | Test Name                                               |                  |                 |                  |                    |
|               | SW-846 9251 (Dissolved)                                 |                  |                 |                  | 03/25/2022 17:00   |
| 22030530-010C | 08D                                                     | 03/22/2022 14:04 | 03/24/2022 7:50 |                  |                    |
|               | SW-846 3005A, 6010B, Metals by ICP (Total)              |                  |                 | 03/24/2022 11:27 | 03/30/2022 9:35    |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)            |                  |                 | 03/24/2022 11:27 | 03/29/2022 21:09   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)            |                  |                 | 03/24/2022 11:27 | 03/31/2022 15:14   |
|               | SW-846 7470A (Total)                                    |                  |                 | 03/27/2022 10:12 | 03/28/2022 16:26   |
| 22030530-010D | 08D                                                     | 03/22/2022 14:04 | 03/24/2022 7:50 |                  |                    |
|               | SW-846 3005A, 6010B, Metals by ICP (Dissolved)          |                  |                 | 03/25/2022 13:22 | 03/29/2022 5:19    |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                 | 03/25/2022 13:22 | 03/31/2022 21:46   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                 | 03/25/2022 13:22 | 04/01/2022 17:53   |
|               | SW-846 7470A (Dissolved)                                |                  |                 | 03/27/2022 10:12 | 03/28/2022 16:28   |
| 22030530-010E | 08D                                                     | 03/22/2022 14:04 | 03/24/2022 7:50 |                  |                    |
|               | SW-846 9012A (Total)                                    |                  |                 | 03/25/2022 13:27 | 03/28/2022 14:11   |
| 22030530-010F | 08D                                                     | 03/22/2022 14:04 | 03/24/2022 7:50 |                  |                    |
|               | SW-846 9012A (Dissolved)                                |                  |                 | 03/25/2022 13:27 | 03/28/2022 12:31   |
| 22030530-010G | 08D                                                     | 03/22/2022 14:04 | 03/24/2022 7:50 |                  |                    |
|               | SW-846 9066 (Total)                                     |                  |                 |                  | 03/28/2022 12:34   |
| 22030530-010H | 08D                                                     | 03/22/2022 14:04 | 03/24/2022 7:50 |                  |                    |
|               | SW-846 9066 (Dissolved)                                 |                  |                 |                  | 03/28/2022 11:30   |
| 22030530-010I | 08D                                                     | 03/22/2022 14:04 | 03/24/2022 7:50 |                  |                    |
|               | Standard Methods 4500-NH3 G (Total) 1997, 2011          |                  |                 |                  | 03/25/2022 19:03   |
| 22030530-010J | 08D                                                     | 03/22/2022 14:04 | 03/24/2022 7:50 |                  |                    |
|               | Standard Methods 4500-NH3 G (Dissolved) 1997, 2011      |                  |                 |                  | 03/25/2022 17:54   |
| 22030530-010K | 08D                                                     | 03/22/2022 14:04 | 03/24/2022 7:50 |                  |                    |
|               | SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS |                  |                 |                  | 03/24/2022 15:20   |
| 22030530-010L | 08D                                                     | 03/22/2022 14:04 | 03/24/2022 7:50 |                  |                    |
|               | EPA 314.0                                               |                  |                 |                  | 04/05/2022 0:00    |
| 22030530-017A | 18D                                                     | 03/23/2022 11:51 | 03/24/2022 7:50 |                  |                    |
|               | Field Elevation Measurements                            |                  |                 |                  | 03/21/2022 13:13   |
|               | Standard Method 4500-H B 2001 Field                     |                  |                 |                  | 03/23/2022 11:51   |
|               | Standard Methods 2130 B Field                           |                  |                 |                  | 03/23/2022 11:51   |
|               | Standard Methods 18th Ed. 2580 B Field                  |                  |                 |                  | 03/23/2022 11:51   |
|               | Standard Methods 2320 B (Total) 1997, 2011              |                  |                 |                  | 03/29/2022 8:37    |
|               | Standard Methods 2320 B 1997, 2011                      |                  |                 |                  | 03/29/2022 8:37    |
|               | Standard Methods 2510 B Field                           |                  |                 |                  | 03/23/2022 11:51   |
|               | Standard Methods 2540 C (Total) 1997, 2011              |                  |                 |                  | 03/30/2022 8:47    |



**Client:** Ramboll

**Work Order:** 22030530

**Client Project:** Hennepin Q1 Groundwater

**Report Date:** 01-Jun-22

| Sample ID     | Client Sample ID                                        | Collection Date  | Received Date   | Prep Date/Time   | Analysis Date/Time |
|---------------|---------------------------------------------------------|------------------|-----------------|------------------|--------------------|
|               | Test Name                                               |                  |                 |                  |                    |
|               | Standard Methods 2550 B Field                           |                  |                 |                  | 03/23/2022 11:51   |
|               | Standard Methods 4500-NO2 B (Total) 2000, 2011          |                  |                 |                  | 03/24/2022 12:42   |
|               | Standard Methods 4500-NO3 F (Total) 2000, 2011          |                  |                 |                  | 03/24/2022 13:13   |
|               | Standard Methods 4500-O G Field                         |                  |                 |                  | 03/23/2022 11:51   |
|               | SW-846 9036 (Total)                                     |                  |                 |                  | 03/25/2022 21:48   |
|               | SW-846 9214 (Total)                                     |                  |                 |                  | 03/31/2022 11:38   |
|               | SW-846 9251 (Total)                                     |                  |                 |                  | 03/25/2022 21:48   |
| 22030530-017B | 18D                                                     | 03/23/2022 11:51 | 03/24/2022 7:50 |                  |                    |
|               | SW-846 9036 (Dissolved)                                 |                  |                 |                  | 03/25/2022 18:12   |
|               | SW-846 9214 (Dissolved)                                 |                  |                 |                  | 03/31/2022 15:09   |
|               | SW-846 9251 (Dissolved)                                 |                  |                 |                  | 03/25/2022 18:12   |
| 22030530-017C | 18D                                                     | 03/23/2022 11:51 | 03/24/2022 7:50 |                  |                    |
|               | SW-846 3005A, 6010B, Metals by ICP (Total)              |                  |                 | 03/24/2022 11:27 | 03/30/2022 10:50   |
|               | SW-846 3005A, 6010B, Metals by ICP (Total)              |                  |                 | 03/24/2022 11:27 | 03/31/2022 11:28   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)            |                  |                 | 03/24/2022 11:27 | 03/29/2022 22:05   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)            |                  |                 | 03/24/2022 11:27 | 03/31/2022 15:33   |
|               | SW-846 7470A (Total)                                    |                  |                 | 03/27/2022 10:12 | 03/28/2022 17:05   |
| 22030530-017D | 18D                                                     | 03/23/2022 11:51 | 03/24/2022 7:50 |                  |                    |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                 | 03/25/2022 13:22 | 03/31/2022 23:06   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                 | 03/25/2022 13:22 | 04/01/2022 18:46   |
|               | SW-846 7470A (Dissolved)                                |                  |                 | 03/27/2022 10:12 | 03/28/2022 17:07   |
| 22030530-017E | 18D                                                     | 03/23/2022 11:51 | 03/24/2022 7:50 |                  |                    |
|               | SW-846 9012A (Total)                                    |                  |                 | 03/25/2022 13:27 | 03/28/2022 11:26   |
| 22030530-017F | 18D                                                     | 03/23/2022 11:51 | 03/24/2022 7:50 |                  |                    |
|               | SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS |                  |                 |                  | 03/24/2022 16:19   |
| 22030530-017G | 18D                                                     | 03/23/2022 11:51 | 03/24/2022 7:50 |                  |                    |
|               | EPA 314.0                                               |                  |                 |                  | 04/05/2022 0:00    |
| 22030530-018A | 18S                                                     | 03/23/2022 11:37 | 03/24/2022 7:50 |                  |                    |
|               | Field Elevation Measurements                            |                  |                 |                  | 03/21/2022 13:12   |
|               | Standard Method 4500-H B 2001 Field                     |                  |                 |                  | 03/23/2022 11:37   |
|               | Standard Methods 2130 B Field                           |                  |                 |                  | 03/23/2022 11:37   |
|               | Standard Methods 18th Ed. 2580 B Field                  |                  |                 |                  | 03/23/2022 11:37   |
|               | Standard Methods 2320 B (Total) 1997, 2011              |                  |                 |                  | 03/29/2022 8:43    |
|               | Standard Methods 2320 B 1997, 2011                      |                  |                 |                  | 03/29/2022 8:43    |
|               | Standard Methods 2510 B Field                           |                  |                 |                  | 03/23/2022 11:37   |
|               | Standard Methods 2540 C (Total) 1997, 2011              |                  |                 |                  | 03/30/2022 8:47    |
|               | Standard Methods 2550 B Field                           |                  |                 |                  | 03/23/2022 11:37   |

**Client:** Ramboll

**Work Order:** 22030530

**Client Project:** Hennepin Q1 Groundwater

**Report Date:** 01-Jun-22

| Sample ID     | Client Sample ID                                        | Collection Date  | Received Date   |                  |                    |
|---------------|---------------------------------------------------------|------------------|-----------------|------------------|--------------------|
|               | Test Name                                               |                  |                 | Prep Date/Time   | Analysis Date/Time |
|               | Standard Methods 4500-NO2 B (Total) 2000, 2011          |                  |                 |                  | 03/24/2022 12:55   |
|               | Standard Methods 4500-NO3 F (Total) 2000, 2011          |                  |                 |                  | 03/24/2022 13:15   |
|               | Standard Methods 4500-O G Field                         |                  |                 |                  | 03/23/2022 11:37   |
|               | SW-846 9036 (Total)                                     |                  |                 |                  | 03/25/2022 21:51   |
|               | SW-846 9214 (Total)                                     |                  |                 |                  | 03/31/2022 11:40   |
|               | SW-846 9251 (Total)                                     |                  |                 |                  | 03/25/2022 21:51   |
| 22030530-018B | 18S                                                     | 03/23/2022 11:37 | 03/24/2022 7:50 |                  |                    |
|               | SW-846 9036 (Dissolved)                                 |                  |                 |                  | 03/25/2022 18:15   |
|               | SW-846 9214 (Dissolved)                                 |                  |                 |                  | 03/31/2022 15:11   |
|               | SW-846 9251 (Dissolved)                                 |                  |                 |                  | 03/25/2022 18:15   |
| 22030530-018C | 18S                                                     | 03/23/2022 11:37 | 03/24/2022 7:50 |                  |                    |
|               | SW-846 3005A, 6010B, Metals by ICP (Total)              |                  |                 | 03/24/2022 11:27 | 03/30/2022 10:54   |
|               | SW-846 3005A, 6010B, Metals by ICP (Total)              |                  |                 | 03/24/2022 11:27 | 03/31/2022 11:31   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)            |                  |                 | 03/24/2022 11:27 | 03/29/2022 22:11   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)            |                  |                 | 03/24/2022 11:27 | 03/31/2022 15:39   |
|               | SW-846 7470A (Total)                                    |                  |                 | 03/27/2022 10:12 | 03/28/2022 17:09   |
| 22030530-018D | 18S                                                     | 03/23/2022 11:37 | 03/24/2022 7:50 |                  |                    |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                 | 03/25/2022 13:22 | 03/31/2022 23:13   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                 | 03/25/2022 13:22 | 04/01/2022 18:49   |
|               | SW-846 7470A (Dissolved)                                |                  |                 | 03/27/2022 10:12 | 03/28/2022 17:16   |
| 22030530-018E | 18S                                                     | 03/23/2022 11:37 | 03/24/2022 7:50 |                  |                    |
|               | SW-846 9012A (Total)                                    |                  |                 | 03/25/2022 13:27 | 03/28/2022 15:03   |
| 22030530-018F | 18S                                                     | 03/23/2022 11:37 | 03/24/2022 7:50 |                  |                    |
|               | SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS |                  |                 |                  | 03/24/2022 16:48   |
| 22030530-018G | 18S                                                     | 03/23/2022 11:37 | 03/24/2022 7:50 |                  |                    |
|               | EPA 314.0                                               |                  |                 |                  | 04/05/2022 0:00    |
| 22030530-036A | 45S                                                     | 03/23/2022 12:36 | 03/24/2022 7:50 |                  |                    |
|               | Field Elevation Measurements                            |                  |                 |                  | 03/21/2022 13:08   |
|               | Standard Method 4500-H B 2001 Field                     |                  |                 |                  | 03/23/2022 12:36   |
|               | Standard Methods 2130 B Field                           |                  |                 |                  | 03/23/2022 12:36   |
|               | Standard Methods 18th Ed. 2580 B Field                  |                  |                 |                  | 03/23/2022 12:36   |
|               | Standard Methods 2320 B (Total) 1997, 2011              |                  |                 |                  | 03/29/2022 9:48    |
|               | Standard Methods 2320 B 1997, 2011                      |                  |                 |                  | 03/29/2022 9:48    |
|               | Standard Methods 2510 B Field                           |                  |                 |                  | 03/23/2022 12:36   |
|               | Standard Methods 2540 C (Total) 1997, 2011              |                  |                 |                  | 03/30/2022 8:48    |
|               | Standard Methods 2550 B Field                           |                  |                 |                  | 03/23/2022 12:36   |
|               | Standard Methods 4500-NO2 B (Total) 2000, 2011          |                  |                 |                  | 03/24/2022 12:58   |

**Client:** Ramboll

**Work Order:** 22030530

**Client Project:** Hennepin Q1 Groundwater

**Report Date:** 01-Jun-22

| Sample ID     | Client Sample ID                                        | Collection Date  | Received Date   | Prep Date/Time   | Analysis Date/Time |
|---------------|---------------------------------------------------------|------------------|-----------------|------------------|--------------------|
| Test Name     |                                                         |                  |                 |                  |                    |
|               | Standard Methods 4500-NO3 F (Total) 2000, 2011          |                  |                 |                  | 03/24/2022 13:37   |
|               | Standard Methods 4500-O G Field                         |                  |                 |                  | 03/23/2022 12:36   |
|               | SW-846 9036 (Total)                                     |                  |                 |                  | 03/25/2022 23:21   |
|               | SW-846 9214 (Total)                                     |                  |                 |                  | 03/31/2022 12:32   |
|               | SW-846 9251 (Total)                                     |                  |                 |                  | 03/25/2022 23:21   |
| 22030530-036B | 45S                                                     | 03/23/2022 12:36 | 03/24/2022 7:50 |                  |                    |
|               | SW-846 9036 (Dissolved)                                 |                  |                 |                  | 03/25/2022 19:46   |
|               | SW-846 9214 (Dissolved)                                 |                  |                 |                  | 03/31/2022 15:20   |
|               | SW-846 9251 (Dissolved)                                 |                  |                 |                  | 03/25/2022 19:45   |
| 22030530-036C | 45S                                                     | 03/23/2022 12:36 | 03/24/2022 7:50 |                  |                    |
|               | SW-846 3005A, 6010B, Metals by ICP (Total)              |                  |                 | 03/24/2022 15:30 | 03/29/2022 22:42   |
|               | SW-846 3005A, 6010B, Metals by ICP (Total)              |                  |                 | 03/24/2022 15:30 | 03/31/2022 12:42   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)            |                  |                 | 03/24/2022 15:30 | 03/30/2022 0:59    |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)            |                  |                 | 03/24/2022 15:30 | 03/31/2022 17:56   |
|               | SW-846 7470A (Total)                                    |                  |                 | 03/27/2022 10:16 | 03/28/2022 18:01   |
| 22030530-036D | 45S                                                     | 03/23/2022 12:36 | 03/24/2022 7:50 |                  |                    |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                 | 03/25/2022 13:22 | 04/01/2022 0:58    |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                 | 03/25/2022 13:22 | 04/01/2022 19:03   |
|               | SW-846 7470A (Dissolved)                                |                  |                 | 03/27/2022 10:16 | 03/28/2022 18:04   |
| 22030530-036E | 45S                                                     | 03/23/2022 12:36 | 03/24/2022 7:50 |                  |                    |
|               | SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS |                  |                 |                  | 03/24/2022 17:18   |
| 22030530-036F | 45S                                                     | 03/23/2022 12:36 | 03/24/2022 7:50 |                  |                    |
|               | EPA 314.0                                               |                  |                 |                  | 04/05/2022 0:00    |
| 22030530-044A | SG02                                                    | 03/21/2022 14:01 | 03/24/2022 7:50 |                  |                    |
|               | Field Elevation Measurements                            |                  |                 |                  | 03/21/2022 14:01   |
| 22030530-049A | Field Blank                                             | 03/23/2022 13:30 | 03/24/2022 7:50 |                  |                    |
|               | Standard Methods 2320 B 1997, 2011                      |                  |                 |                  | 03/29/2022 10:56   |
|               | Standard Methods 2320 B (Total) 1997, 2011              |                  |                 |                  | 03/29/2022 10:56   |
|               | Standard Methods 2320 B 1997, 2011                      |                  |                 |                  | 03/29/2022 10:56   |
|               | Standard Methods 2540 C (Total) 1997, 2011              |                  |                 |                  | 03/30/2022 8:49    |
|               | Standard Methods 4500-NO2 B (Total) 2000, 2011          |                  |                 |                  | 03/24/2022 12:58   |
|               | Standard Methods 4500-NO3 F (Total) 2000, 2011          |                  |                 |                  | 03/24/2022 13:45   |
|               | SW-846 9036 (Total)                                     |                  |                 |                  | 03/26/2022 1:03    |
|               | SW-846 9214 (Total)                                     |                  |                 |                  | 03/31/2022 14:12   |
|               | SW-846 9251 (Total)                                     |                  |                 |                  | 03/26/2022 1:03    |
| 22030530-049B | Field Blank                                             | 03/23/2022 13:30 | 03/24/2022 7:50 |                  |                    |
|               | SW-846 9214 (Dissolved)                                 |                  |                 |                  | 03/31/2022 15:22   |

**Client:** Ramboll

**Work Order:** 22030530

**Client Project:** Hennepin Q1 Groundwater

**Report Date:** 01-Jun-22

| Sample ID     | Client Sample ID                                        | Collection Date  | Received Date   | Prep Date/Time   | Analysis Date/Time |
|---------------|---------------------------------------------------------|------------------|-----------------|------------------|--------------------|
| Test Name     |                                                         |                  |                 |                  |                    |
|               | SW-846 9251 (Dissolved)                                 |                  |                 |                  | 03/25/2022 20:07   |
| 22030530-049C | Field Blank                                             | 03/23/2022 13:30 | 03/24/2022 7:50 |                  |                    |
|               | SW-846 3005A, 6010B, Metals by ICP (Total)              |                  |                 | 03/25/2022 11:06 | 03/28/2022 23:49   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)            |                  |                 | 03/25/2022 11:06 | 03/29/2022 20:26   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)            |                  |                 | 03/25/2022 11:06 | 03/31/2022 19:29   |
|               | SW-846 7470A (Total)                                    |                  |                 | 03/27/2022 10:20 | 03/29/2022 17:43   |
| 22030530-049D | Field Blank                                             | 03/23/2022 13:30 | 03/24/2022 7:50 |                  |                    |
|               | SW-846 3005A, 6010B, Metals by ICP (Dissolved)          |                  |                 | 03/25/2022 13:22 | 03/28/2022 21:47   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                 | 03/25/2022 13:22 | 04/01/2022 14:14   |
|               | SW-846 7470A (Dissolved)                                |                  |                 | 03/27/2022 10:20 | 03/29/2022 17:45   |
| 22030530-049E | Field Blank                                             | 03/23/2022 13:30 | 03/24/2022 7:50 |                  |                    |
|               | SW-846 9012A (Total)                                    |                  |                 | 03/25/2022 13:27 | 03/28/2022 15:16   |
| 22030530-049F | Field Blank                                             | 03/23/2022 13:30 | 03/24/2022 7:50 |                  |                    |
|               | SW-846 9012A (Dissolved)                                |                  |                 | 03/25/2022 13:27 | 03/28/2022 12:57   |
| 22030530-049G | Field Blank                                             | 03/23/2022 13:30 | 03/24/2022 7:50 |                  |                    |
|               | SW-846 9066 (Total)                                     |                  |                 |                  | 03/28/2022 12:55   |
| 22030530-049H | Field Blank                                             | 03/23/2022 13:30 | 03/24/2022 7:50 |                  |                    |
|               | SW-846 9066 (Dissolved)                                 |                  |                 |                  | 03/28/2022 11:52   |
| 22030530-049I | Field Blank                                             | 03/23/2022 13:30 | 03/24/2022 7:50 |                  |                    |
|               | Standard Methods 4500-NH3 G (Total) 1997, 2011          |                  |                 |                  | 03/25/2022 19:25   |
| 22030530-049J | Field Blank                                             | 03/23/2022 13:30 | 03/24/2022 7:50 |                  |                    |
|               | Standard Methods 4500-NH3 G (Dissolved) 1997, 2011      |                  |                 |                  | 03/25/2022 18:27   |
| 22030530-049K | Field Blank                                             | 03/23/2022 13:30 | 03/24/2022 7:50 |                  |                    |
|               | SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS |                  |                 |                  | 03/24/2022 12:53   |
| 22030530-049L | Field Blank                                             | 03/23/2022 13:30 | 03/24/2022 7:50 |                  |                    |
|               | EPA 314.0                                               |                  |                 |                  | 04/05/2022 0:00    |
| 22030530-049M | Field Blank                                             | 03/23/2022 13:30 | 03/24/2022 7:50 |                  |                    |
|               | SW-846 9036 (Dissolved)                                 |                  |                 |                  | 04/06/2022 13:18   |

**Client:** Ramboll

**Work Order:** 22030530

**Client Project:** Hennepin Q1 Groundwater

**Report Date:** 01-Jun-22

**STANDARD METHOD 4500-H B 2001 FIELD**

| Batch R308977       |      | SampType: LCS |      | Units  |       |             |       |           |            |            |               |
|---------------------|------|---------------|------|--------|-------|-------------|-------|-----------|------------|------------|---------------|
| SampID: LCS-R308977 |      |               |      |        |       |             |       |           |            |            | Date Analyzed |
| Analyses            | Cert | RL            | Qual | Result | Spike | SPK Ref Val | %REC  | Low Limit | High Limit |            |               |
| pH                  | *    | 1.00          |      | 7.06   | 7.000 | 0           | 100.9 | 98.57     | 101.4      | 03/22/2022 |               |
| pH                  | *    | 1.00          |      | 7.05   | 7.000 | 0           | 100.7 | 98.57     | 101.4      | 03/23/2022 |               |

**STANDARD METHODS 2510 B FIELD**

| Batch R308977            |      | SampType: LCS |      | Units $\mu\text{S/cm}$ |       |             |       |           |            |  | Date Analyzed |
|--------------------------|------|---------------|------|------------------------|-------|-------------|-------|-----------|------------|--|---------------|
| SampID: LCS-R308977      |      |               |      |                        |       |             |       |           |            |  |               |
| Analyses                 | Cert | RL            | Qual | Result                 | Spike | SPK Ref Val | %REC  | Low Limit | High Limit |  |               |
| Spec. Conductance, Field | *    | 0             |      | 1460                   | 1409  | 0           | 103.3 | 90        | 110        |  |               |
| Spec. Conductance, Field | *    | 0             |      | 1510                   | 1409  | 0           | 107.4 | 90        | 110        |  |               |

**STANDARD METHODS 2320 B 1997, 2011**

| Batch R308865                |      | SampType: MBLK |      | Units mg/L |       |             |      |           |            |               |  |
|------------------------------|------|----------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: MBLK                 |      |                |      |            |       |             |      |           |            |               |  |
| Analyses                     | Cert | RL             | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Alkalinity, Total (as CaCO3) |      | 0              |      | 0          |       |             |      |           |            | 03/29/2022    |  |

| Batch R308865                |      | SampType: LCS |      | Units mg/L |       |             |      |           |            |               |  |
|------------------------------|------|---------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: LCS                  |      |               |      |            |       |             |      |           |            |               |  |
| Analyses                     | Cert | RL            | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Alkalinity, Total (as CaCO3) |      | 0             |      | 235        | 236.0 | 0           | 99.6 | 90        | 110        | 03/29/2022    |  |

| Batch R308865                |  | SampType: DUP |    | Units mg/L |        |       |             | RPD Limit: 10 |             |      |  | Date Analyzed |
|------------------------------|--|---------------|----|------------|--------|-------|-------------|---------------|-------------|------|--|---------------|
| SampID: 22030530-013ADUP     |  |               |    |            |        |       |             |               |             |      |  |               |
| Analyses                     |  | Cert          | RL | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD |  |               |
| Alkalinity, Total (as CaCO3) |  |               | 0  |            | 239    |       |             |               | 232.0       | 2.97 |  |               |

| Batch R308865                |  | SampType: DUP |    | Units mg/L |        |       |             | RPD Limit: 10 |             |      |  | Date Analyzed |
|------------------------------|--|---------------|----|------------|--------|-------|-------------|---------------|-------------|------|--|---------------|
| SampID: 22030530-049ADUP     |  |               |    |            |        |       |             |               |             |      |  |               |
| Analyses                     |  | Cert          | RL | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD |  |               |
| Alkalinity, Total (as CaCO3) |  |               | 0  |            | 2      |       |             |               | 2.000       | 0.00 |  |               |
| 03/29/2022                   |  |               |    |            |        |       |             |               |             |      |  |               |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22030530

Client Project: Hennepin Q1 Groundwater

Report Date: 01-Jun-22

### STANDARD METHODS 2540 C (TOTAL) 1997, 2011

| Batch R309037          |      | SampType: MBLK |      | Units mg/L |       |             |       |           |            |            |               |
|------------------------|------|----------------|------|------------|-------|-------------|-------|-----------|------------|------------|---------------|
| SampID: MBLK           |      |                |      |            |       |             |       |           |            |            | Date Analyzed |
| Analyses               | Cert | RL             | Qual | Result     | Spike | SPK Ref Val | %REC  | Low Limit | High Limit |            |               |
| Total Dissolved Solids |      | 20             | J    | 16         | 16.00 | 0           | 100.0 | -100      | 100        | 03/28/2022 |               |
| Total Dissolved Solids |      | 20             | J    | 16         | 16.00 | 0           | 100.0 | -100      | 100        | 03/28/2022 |               |

| Batch R309037          |      | SampType: LCS |      | Units mg/L |       |             |      |           |            |            |               |
|------------------------|------|---------------|------|------------|-------|-------------|------|-----------|------------|------------|---------------|
| SampID: LCS            |      |               |      |            |       |             |      |           |            |            | Date Analyzed |
| Analyses               | Cert | RL            | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit |            |               |
| Total Dissolved Solids |      | 20            |      | 944        | 1000  | 0           | 94.4 | 90        | 110        | 03/28/2022 |               |
| Total Dissolved Solids |      | 20            |      | 980        | 1000  | 0           | 98.0 | 90        | 110        | 03/28/2022 |               |

| Batch R309037            |  | SampType: DUP |    | Units mg/L |        |       |             | RPD Limit: 5 |             |      |               |
|--------------------------|--|---------------|----|------------|--------|-------|-------------|--------------|-------------|------|---------------|
| SampID: 22030530-011ADUP |  |               |    |            |        |       |             |              |             |      |               |
| Analyses                 |  | Cert          | RL | Qual       | Result | Spike | SPK Ref Val | %REC         | RPD Ref Val | %RPD | Date Analyzed |
| Total Dissolved Solids   |  |               | 20 |            | 438    |       |             |              | 456.0       | 4.03 | 03/28/2022    |

| Batch R309037            |      | SampType: DUP |      | Units mg/L |       |             |      | RPD Limit: 5 |      |               |  |
|--------------------------|------|---------------|------|------------|-------|-------------|------|--------------|------|---------------|--|
| SampID: 22030530-030ADUP |      |               |      |            |       |             |      |              |      |               |  |
| Analyses                 | Cert | RL            | Qual | Result     | Spike | SPK Ref Val | %REC | RPD Ref Val  | %RPD | Date Analyzed |  |
| Total Dissolved Solids   |      | 20            |      | 514        |       |             |      | 514.0        | 0.00 | 03/28/2022    |  |

| Batch R309039          |      | SampType: MBLK |      | Units mg/L |       |             |      |           |            |            |               |
|------------------------|------|----------------|------|------------|-------|-------------|------|-----------|------------|------------|---------------|
| SampID: MBLK           |      |                |      |            |       |             |      |           |            |            | Date Analyzed |
| Analyses               | Cert | RL             | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit |            |               |
| Total Dissolved Solids |      | 20             |      | < 20       | 16.00 | 0           | 0    | -100      | 100        | 03/29/2022 |               |

| Batch R309039          |      | SampType: LCS |      | Units mg/L |       |             |      |           |            |               |  |
|------------------------|------|---------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: LCS            |      |               |      |            |       |             |      |           |            |               |  |
| Analyses               | Cert | RL            | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Total Dissolved Solids |      | 20            |      | 944        | 1000  | 0           | 94.4 | 90        | 110        | 03/29/2022    |  |

| Batch R309039            |  | SampType: DUP |    | Units mg/L |        |       |             |      | RPD Limit: 5 |      |               |
|--------------------------|--|---------------|----|------------|--------|-------|-------------|------|--------------|------|---------------|
| SampID: 22030530-003ADUP |  |               |    |            |        |       |             |      |              |      |               |
| Analyses                 |  | Cert          | RL | Qual       | Result | Spike | SPK Ref Val | %REC | RPD Ref Val  | %RPD | Date Analyzed |
| Total Dissolved Solids   |  |               | 20 |            | 468    |       |             |      | 470.0        | 0.43 | 03/29/2022    |

**Client:** Ramboll

**Work Order:** 22030530

**Client Project:** Hennepin Q1 Groundwater

**Report Date:** 01-Jun-22

**STANDARD METHODS 2540 C (TOTAL) 1997, 2011**

| Batch R309043          |      | SampType: MBLK |      | Units mg/L |       |             |      |           |            |               |
|------------------------|------|----------------|------|------------|-------|-------------|------|-----------|------------|---------------|
| SampID: MBLK           |      |                |      |            |       |             |      |           |            |               |
| Analyses               | Cert | RL             | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
| Total Dissolved Solids |      | 20             |      | < 20       | 16.00 | 0           | 0    | -100      | 100        | 03/30/2022    |
| Total Dissolved Solids |      | 20             |      | < 20       | 16.00 | 0           | 0    | -100      | 100        | 03/30/2022    |

| Batch R309043          |      | SampType: LCS |      | Units mg/L |       |             |      |           |            |               |
|------------------------|------|---------------|------|------------|-------|-------------|------|-----------|------------|---------------|
| SampID: LCS            |      |               |      |            |       |             |      |           |            |               |
| Analyses               | Cert | RL            | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
| Total Dissolved Solids |      | 20            |      | 956        | 1000  | 0           | 95.6 | 90        | 110        | 03/30/2022    |
| Total Dissolved Solids |      | 20            |      | 940        | 1000  | 0           | 94.0 | 90        | 110        | 03/30/2022    |

| Batch R309043            |  | SampType: DUP |    | Units mg/L |        |       |             |      | RPD Limit: 5 |      |               |
|--------------------------|--|---------------|----|------------|--------|-------|-------------|------|--------------|------|---------------|
| SampID: 22030530-002ADUP |  |               |    |            |        |       |             |      |              |      |               |
| Analyses                 |  | Cert          | RL | Qual       | Result | Spike | SPK Ref Val | %REC | RPD Ref Val  | %RPD | Date Analyzed |
| Total Dissolved Solids   |  |               | 20 |            | 518    |       |             |      | 522.0        | 0.77 | 03/30/2022    |

**STANDARD METHODS 4500-NH3 G (DISSOLVED) 1997, 2011**

|                          |  |              |      |            |        |       |             |      |           |            |               |
|--------------------------|--|--------------|------|------------|--------|-------|-------------|------|-----------|------------|---------------|
| Batch R308756            |  | SampType: MS |      | Units mg/L |        |       |             |      |           |            |               |
| SampID: 22030530-004JMS  |  |              |      |            |        |       |             |      |           |            |               |
| Analyses                 |  | Cert         | RL   | Qual       | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
| Nitrogen, Ammonia (as N) |  |              | 0.10 |            | 1.83   | 2.000 | 0.03000     | 90.0 | 90        | 110        | 03/25/2022    |

|                          |  |               |      |            |        |       |             |               |             |      |               |
|--------------------------|--|---------------|------|------------|--------|-------|-------------|---------------|-------------|------|---------------|
| Batch R308756            |  | SampType: MSD |      | Units mg/L |        |       |             | RPD Limit: 10 |             |      |               |
| SampID: 22030530-004JMSD |  |               |      |            |        |       |             |               |             |      |               |
| Analyses                 |  | Cert          | RL   | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD | Date Analyzed |
| Nitrogen, Ammonia (as N) |  |               | 0.10 |            | 1.83   | 2.000 | 0.03000     | 90.2          | 1.830       | 0.16 | 03/25/2022    |

| Batch R308756            |      | SampType: MS |      | Units mg/L |       |             |      |           |            |               |  |
|--------------------------|------|--------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: 22030530-011IMS  |      |              |      |            |       |             |      |           |            |               |  |
| Analyses                 | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Nitrogen, Ammonia (as N) |      | 0.10         | S    | 1.75       | 2.000 | 0           | 87.6 | 90        | 110        | 03/25/2022    |  |

| Batch R308756            |  | SampType: MSD |    | Units mg/L |        |       |             | RPD Limit: 10 |             |       |               |            |
|--------------------------|--|---------------|----|------------|--------|-------|-------------|---------------|-------------|-------|---------------|------------|
| SampID: 22030530-011IMSD |  |               |    |            |        |       |             |               |             |       | Date Analyzed |            |
| Analyses                 |  | Cert          | RL | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD  |               |            |
| Nitrogen, Ammonia (as N) |  |               |    | 0.10       | S      | 1.78  | 2.000       | 0             | 88.8        | 1.752 | 1.36          | 03/25/2022 |

**Client:** Ramboll

**Work Order:** 22030530

**Client Project:** Hennepin Q1 Groundwater

**Report Date:** 01-Jun-22

**STANDARD METHODS 4500-NH3 G (TOTAL) 1997, 2011**
**Batch R308756 SampType: MBLK Units mg/L**

SampID: ICB/MBLK

| Analyses                 | Cert | RL   | Qual | Result | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|--------------------------|------|------|------|--------|--------|-------------|------|-----------|------------|---------------|
| Nitrogen, Ammonia (as N) |      | 0.10 |      | < 0.10 | 0.0270 | 0           | 0    | -100      | 100        | 03/25/2022    |

**Batch R308756 SampType: LCS Units mg/L**

SampID: ICB/LCS

| Analyses                 | Cert | RL   | Qual | Result | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|--------------------------|------|------|------|--------|-------|-------------|-------|-----------|------------|---------------|
| Nitrogen, Ammonia (as N) |      | 0.10 |      | 1.01   | 1.000 | 0           | 101.3 | 90        | 110        | 03/25/2022    |

**Batch R308856 SampType: MBLK Units mg/L**

SampID: ICB/MBLK

| Analyses                 | Cert | RL   | Qual | Result | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|--------------------------|------|------|------|--------|--------|-------------|------|-----------|------------|---------------|
| Nitrogen, Ammonia (as N) |      | 0.10 |      | < 0.10 | 0.0270 | 0           | 0    | -100      | 100        | 03/29/2022    |

**Batch R308856 SampType: LCS Units mg/L**

SampID: ICB/LCS

| Analyses                 | Cert | RL   | Qual | Result | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|--------------------------|------|------|------|--------|-------|-------------|-------|-----------|------------|---------------|
| Nitrogen, Ammonia (as N) |      | 0.10 |      | 1.07   | 1.000 | 0           | 107.4 | 90        | 110        | 03/29/2022    |

**Batch R308922 SampType: MBLK Units mg/L**

SampID: ICB/MBLK

| Analyses                 | Cert | RL   | Qual | Result | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|--------------------------|------|------|------|--------|--------|-------------|------|-----------|------------|---------------|
| Nitrogen, Ammonia (as N) |      | 0.10 |      | < 0.10 | 0.0270 | 0           | 0    | -100      | 100        | 03/30/2022    |

**Batch R308922 SampType: LCS Units mg/L**

SampID: ICB/LCS

| Analyses                 | Cert | RL   | Qual | Result | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|--------------------------|------|------|------|--------|-------|-------------|-------|-----------|------------|---------------|
| Nitrogen, Ammonia (as N) |      | 0.10 |      | 1.03   | 1.000 | 0           | 102.5 | 90        | 110        | 03/30/2022    |

**Batch R308922 SampType: MS Units mg/L**

SampID: 22030530-005IMS

| Analyses                 | Cert | RL   | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|--------------------------|------|------|------|--------|-------|-------------|------|-----------|------------|---------------|
| Nitrogen, Ammonia (as N) |      | 0.10 | S    | 1.75   | 2.000 | 0           | 87.5 | 90        | 110        | 03/30/2022    |

**Batch R308922 SampType: MSD Units mg/L**

SampID: 22030530-005IMSD

RPD Limit: 10

| Analyses                 | Cert | RL   | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|--------------------------|------|------|------|--------|-------|-------------|------|-------------|------|---------------|
| Nitrogen, Ammonia (as N) |      | 0.10 | S    | 1.61   | 2.000 | 0           | 80.4 | 1.750       | 8.52 | 03/30/2022    |





## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22030530

Client Project: Hennepin Q1 Groundwater

Report Date: 01-Jun-22

### STANDARD METHODS 4500-NH3 G (TOTAL) 1997, 2011

| Batch R308922            |      | SampType: MS |      | Units mg/L |       |             |      |           |            |            |               |
|--------------------------|------|--------------|------|------------|-------|-------------|------|-----------|------------|------------|---------------|
| SampID: 22030530-013IMS  |      |              |      |            |       |             |      |           |            |            | Date Analyzed |
| Analyses                 | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit |            |               |
| Nitrogen, Ammonia (as N) |      | 0.10         | S    | 1.75       | 2.000 | 0           | 87.4 | 90        | 110        | 03/30/2022 |               |

| Batch R308922            |  | SampType: MSD |      | Units mg/L |        |       |             | RPD Limit: 10 |             |      |               |
|--------------------------|--|---------------|------|------------|--------|-------|-------------|---------------|-------------|------|---------------|
| SampID: 22030530-013IMSD |  |               |      |            |        |       |             |               |             |      |               |
| Analyses                 |  | Cert          | RL   | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD | Date Analyzed |
| Nitrogen, Ammonia (as N) |  |               | 0.10 | S          | 1.74   | 2.000 | 0           | 87.2          | 1.747       | 0.23 | 03/30/2022    |

### STANDARD METHODS 4500-NO2 B (TOTAL) 2000, 2011

| Batch R308687            |      | SampType: MBLK |      | Units mg/L |        |             |      |           |            |               |  |
|--------------------------|------|----------------|------|------------|--------|-------------|------|-----------|------------|---------------|--|
| SampID: MBLK             |      |                |      |            |        |             |      |           |            |               |  |
| Analyses                 | Cert | RL             | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Nitrogen, Nitrite (as N) |      | 0.05           |      | < 0.05     | 0.0250 | 0           | 0    | -100      | 100        | 03/24/2022    |  |
| Nitrogen, Nitrite (as N) |      | 0.05           |      | < 0.05     | 0.0250 | 0           | 0    | -100      | 100        | 03/24/2022    |  |

| Batch R308687            |      | SampType: LCS |      | Units mg/L |       |             |       |           |            |            |               |
|--------------------------|------|---------------|------|------------|-------|-------------|-------|-----------|------------|------------|---------------|
| SampID: LCS              |      |               |      |            |       |             |       |           |            |            | Date Analyzed |
| Analyses                 | Cert | RL            | Qual | Result     | Spike | SPK Ref Val | %REC  | Low Limit | High Limit |            |               |
| Nitrogen, Nitrite (as N) |      | 0.25          |      | 1.47       | 1.460 | 0           | 100.7 | 90        | 110        | 03/24/2022 |               |
| Nitrogen, Nitrite (as N) |      | 0.25          |      | 1.48       | 1.460 | 0           | 101.4 | 90        | 110        | 03/24/2022 |               |

| Batch R308687            |      | SampType: MS |      | Units mg/L |        |             |      |           |            |               |  |
|--------------------------|------|--------------|------|------------|--------|-------------|------|-----------|------------|---------------|--|
| SampID: 22030530-003AMS  |      |              |      |            |        |             |      |           |            |               |  |
| Analyses                 | Cert | RL           | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Nitrogen, Nitrite (as N) |      | 0.05         |      | 0.50       | 0.5000 | 0           | 99.8 | 85        | 115        | 03/24/2022    |  |

| Batch R308687            |      | SampType: MSD |      | Units mg/L |        |             |      | RPD Limit: 10 |        |               |            |
|--------------------------|------|---------------|------|------------|--------|-------------|------|---------------|--------|---------------|------------|
| SampID: 22030530-003AMSD |      |               |      |            |        |             |      |               |        |               |            |
| Analyses                 | Cert | RL            | Qual | Result     | Spike  | SPK Ref Val | %REC | RPD Ref Val   | %RPD   | Date Analyzed |            |
| Nitrogen, Nitrite (as N) |      | 0.05          |      | 0.50       | 0.5000 | 0           | 0.05 | 99.4          | 0.4990 | 0.40          | 03/24/2022 |

| Batch R308687            |      | SampType: MS |      | Units mg/L |        |             |      |           |            |               |  |
|--------------------------|------|--------------|------|------------|--------|-------------|------|-----------|------------|---------------|--|
| SampID: 22030530-006AMS  |      |              |      |            |        |             |      |           |            |               |  |
| Analyses                 | Cert | RL           | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Nitrogen, Nitrite (as N) |      | 0.05         |      | 0.49       | 0.5000 | 0           | 97.6 | 85        | 115        | 03/24/2022    |  |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22030530

Client Project: Hennepin Q1 Groundwater

Report Date: 01-Jun-22

### STANDARD METHODS 4500-NO2 B (TOTAL) 2000, 2011

| Batch R308687            |      | SampType: MSD |      | Units mg/L |        |             |      | RPD Limit: 10 |      |            | Date Analyzed |
|--------------------------|------|---------------|------|------------|--------|-------------|------|---------------|------|------------|---------------|
| SampID: 22030530-006AMSD |      |               |      |            |        |             |      |               |      |            |               |
| Analyses                 | Cert | RL            | Qual | Result     | Spike  | SPK Ref Val | %REC | RPD Ref Val   | %RPD |            |               |
| Nitrogen, Nitrite (as N) |      | 0.05          |      | 0.49       | 0.5000 | 0           | 98.0 | 0.4880        | 0.41 | 03/24/2022 |               |

| Batch R308687            |      | SampType: MS |      | Units mg/L |        |             |      |           |            |            |               |
|--------------------------|------|--------------|------|------------|--------|-------------|------|-----------|------------|------------|---------------|
| SampID: 22030530-017AMS  |      |              |      |            |        |             |      |           |            |            | Date Analyzed |
| Analyses                 | Cert | RL           | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit |            |               |
| Nitrogen, Nitrite (as N) |      | 0.05         |      | 0.49       | 0.5000 | 0           | 98.4 | 85        | 115        | 03/24/2022 |               |

| Batch R308687            |  | SampType: MSD |      | Units mg/L |        |        |             | RPD Limit: 10 |             |      | Date Analyzed |  |
|--------------------------|--|---------------|------|------------|--------|--------|-------------|---------------|-------------|------|---------------|--|
| SampID: 22030530-017AMSD |  |               |      |            |        |        |             |               |             |      |               |  |
| Analyses                 |  | Cert          | RL   | Qual       | Result | Spike  | SPK Ref Val | %REC          | RPD Ref Val | %RPD |               |  |
| Nitrogen, Nitrite (as N) |  |               | 0.05 |            | 0.49   | 0.5000 | 0           | 98.0          | 0.4920      | 0.41 | 03/24/2022    |  |

### STANDARD METHODS 4500-NO3 F (TOTAL) 2000, 2011

| Batch R308736                    |      | SampType: MBLK |      | Units mg/L |        |             |      |           |            |            |               |
|----------------------------------|------|----------------|------|------------|--------|-------------|------|-----------|------------|------------|---------------|
| SampID: ICB/MBLK                 |      |                |      |            |        |             |      |           |            |            | Date Analyzed |
| Analyses                         | Cert | RL             | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit |            |               |
| Nitrogen, Nitrate-Nitrite (as N) |      | 0.050          |      | < 0.050    | 0.0090 | 0           | 0    | -100      | 100        | 03/24/2022 |               |

| Batch R308736                    |      | SampType: LCS |      | Units mg/L |        |             |      |           |            |               |  |
|----------------------------------|------|---------------|------|------------|--------|-------------|------|-----------|------------|---------------|--|
| SampID: ICV/LCS                  |      |               |      |            |        |             |      |           |            |               |  |
| Analyses                         | Cert | RL            | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Nitrogen, Nitrate-Nitrite (as N) |      | 0.050         |      | 0.499      | 0.5000 | 0           | 99.8 | 90        | 110        | 03/24/2022    |  |

| Batch R308736                    |      | SampType: MS |      | Units mg/L |       |             |      |           |            |               |  |
|----------------------------------|------|--------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: 22030530-001AMS          |      |              |      |            |       |             |      |           |            |               |  |
| Analyses                         | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Nitrogen, Nitrate-Nitrite (as N) |      | 1.00         |      | 14.9       | 5.000 | 10.38       | 91.2 | 85        | 115        | 03/24/2022    |  |

| Batch R308736                    |  | SampType: MSD |      | Units mg/L |        | RPD Limit: 10 |             |      |             |      | Date Analyzed |  |
|----------------------------------|--|---------------|------|------------|--------|---------------|-------------|------|-------------|------|---------------|--|
| SampID: 22030530-001AMSD         |  |               |      |            |        |               |             |      |             |      |               |  |
| Analyses                         |  | Cert          | RL   | Qual       | Result | Spike         | SPK Ref Val | %REC | RPD Ref Val | %RPD |               |  |
| Nitrogen, Nitrate-Nitrite (as N) |  |               | 1.00 |            | 14.9   | 5.000         | 10.38       | 90.9 | 14.94       | 0.10 | 03/24/2022    |  |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22030530

Client Project: Hennepin Q1 Groundwater

Report Date: 01-Jun-22

### STANDARD METHODS 4500-NO3 F (TOTAL) 2000, 2011

Batch R308736 SampType: MS Units mg/L

SampID: 22030530-011AMS

| Analyses                         | Cert | RL   | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|----------------------------------|------|------|------|--------|-------|-------------|------|-----------|------------|---------------|
| Nitrogen, Nitrate-Nitrite (as N) |      | 1.00 |      | 8.52   | 5.000 | 3.614       | 98.2 | 85        | 115        | 03/24/2022    |

Batch R308736 SampType: MSD Units mg/L

RPD Limit: 10

SampID: 22030530-011AMSD

| Analyses                         | Cert | RL   | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|----------------------------------|------|------|------|--------|-------|-------------|------|-------------|------|---------------|
| Nitrogen, Nitrate-Nitrite (as N) |      | 1.00 |      | 8.40   | 5.000 | 3.614       | 95.6 | 8.522       | 1.50 | 03/24/2022    |

Batch R308736 SampType: MS Units mg/L

SampID: 22030530-036AMS

| Analyses                         | Cert | RL    | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|----------------------------------|------|-------|------|--------|-------|-------------|------|-----------|------------|---------------|
| Nitrogen, Nitrate-Nitrite (as N) |      | 0.500 |      | 5.46   | 2.500 | 2.986       | 98.8 | 85        | 115        | 03/24/2022    |

Batch R308736 SampType: MSD Units mg/L

RPD Limit: 10

SampID: 22030530-036AMSD

| Analyses                         | Cert | RL    | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|----------------------------------|------|-------|------|--------|-------|-------------|------|-------------|------|---------------|
| Nitrogen, Nitrate-Nitrite (as N) |      | 0.500 |      | 5.44   | 2.500 | 2.986       | 98.4 | 5.455       | 0.18 | 03/24/2022    |

Batch R308811 SampType: MBLK Units mg/L

SampID: ICB/MBLK

| Analyses                         | Cert | RL    | Qual | Result  | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|----------------------------------|------|-------|------|---------|--------|-------------|------|-----------|------------|---------------|
| Nitrogen, Nitrate-Nitrite (as N) |      | 0.050 |      | < 0.050 | 0.0090 | 0           | 0    | -100      | 100        | 03/25/2022    |

Batch R308811 SampType: LCS Units mg/L

SampID: ICB/LCS

| Analyses                         | Cert | RL    | Qual | Result | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|----------------------------------|------|-------|------|--------|--------|-------------|-------|-----------|------------|---------------|
| Nitrogen, Nitrate-Nitrite (as N) |      | 0.050 |      | 0.504  | 0.5000 | 0           | 100.8 | 90        | 110        | 03/25/2022    |

### SW-846 9012A (DISSOLVED)

Batch 189001 SampType: MS Units mg/L

SampID: 22030530-005FMS

| Analyses | Cert | RL    | Qual | Result | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|----------|------|-------|------|--------|--------|-------------|-------|-----------|------------|---------------|
| Cyanide  |      | 0.005 |      | 0.028  | 0.0250 | 0           | 110.8 | 75        | 125        | 03/28/2022    |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22030530

Client Project: Hennepin Q1 Groundwater

Report Date: 01-Jun-22

### SW-846 9012A (DISSOLVED)

| Batch 189001             |      | SampType: MSD |      | Units mg/L |        |             |       | RPD Limit: 15 |      |            | Date Analyzed |
|--------------------------|------|---------------|------|------------|--------|-------------|-------|---------------|------|------------|---------------|
| SampID: 22030530-005FMSD |      |               |      |            |        |             |       |               |      |            |               |
| Analyses                 | Cert | RL            | Qual | Result     | Spike  | SPK Ref Val | %REC  | RPD Ref Val   | %RPD |            |               |
| Cyanide                  |      | 0.005         |      | 0.027      | 0.0250 | 0           | 109.8 | 0.02769       | 0.87 | 03/28/2022 |               |

### SW-846 9012A (TOTAL)

| Batch 189001             |      | SampType: MBLK |      | Units mg/L |        |             |      |           |            |               |  |
|--------------------------|------|----------------|------|------------|--------|-------------|------|-----------|------------|---------------|--|
| SampID: MBLK 220325 TCN1 |      |                |      |            |        |             |      |           |            |               |  |
| Analyses                 | Cert | RL             | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Cyanide                  |      | 0.005          |      | < 0.005    | 0.0015 | 0           | 0    | -100      | 100        | 03/28/2022    |  |

| Batch 189001            |      | SampType: LCS |      | Units mg/L |        |             |       |           |            |               |  |
|-------------------------|------|---------------|------|------------|--------|-------------|-------|-----------|------------|---------------|--|
| SampID: LCS 220325 TCN1 |      |               |      |            |        |             |       |           |            |               |  |
| Analyses                | Cert | RL            | Qual | Result     | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |  |
| Cyanide                 |      | 0.005         |      | 0.027      | 0.0250 | 0           | 109.0 | 85        | 115        | 03/28/2022    |  |

| Batch 189001            |      | SampType: MS |      | Units mg/L |        |             |       |           |            |            |               |
|-------------------------|------|--------------|------|------------|--------|-------------|-------|-----------|------------|------------|---------------|
| SampID: 22030530-004EMS |      |              |      |            |        |             |       |           |            |            | Date Analyzed |
| Analyses                | Cert | RL           | Qual | Result     | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit |            |               |
| Cyanide                 |      | 0.005        |      | 0.033      | 0.0250 | 0.005585    | 109.5 | 75        | 125        | 03/28/2022 |               |

| Batch 189001             |  | SampType: MSD |       | Units mg/L |        |        |             | RPD Limit: 15 |             |      |               |
|--------------------------|--|---------------|-------|------------|--------|--------|-------------|---------------|-------------|------|---------------|
| SampID: 22030530-004EMSD |  |               |       |            |        |        |             |               |             |      |               |
| Analyses                 |  | Cert          | RL    | Qual       | Result | Spike  | SPK Ref Val | %REC          | RPD Ref Val | %RPD | Date Analyzed |
| Cyanide                  |  |               | 0.005 |            | 0.032  | 0.0250 | 0.005585    | 107.3         | 0.03296     | 1.68 | 03/28/2022    |

| Batch 189002             |      | SampType: MBLK |      | Units mg/L |        |             |      |           |            |               |  |
|--------------------------|------|----------------|------|------------|--------|-------------|------|-----------|------------|---------------|--|
| SampID: MBLK 220325 TCN2 |      |                |      |            |        |             |      |           |            |               |  |
| Analyses                 | Cert | RL             | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Cyanide                  |      | 0.005          |      | < 0.005    | 0.0015 | 0           | 0    | -100      | 100        | 03/28/2022    |  |

| Batch 189002            |      | SampType: LCS |      | Units mg/L |        |             |       |           |            |               |  |
|-------------------------|------|---------------|------|------------|--------|-------------|-------|-----------|------------|---------------|--|
| SampID: LCS 220325 TCN2 |      |               |      |            |        |             |       |           |            |               |  |
| Analyses                | Cert | RL            | Qual | Result     | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |  |
| Cyanide                 |      | 0.005         |      | 0.028      | 0.0250 | 0           | 110.8 | 85        | 115        | 03/28/2022    |  |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22030530

Client Project: Hennepin Q1 Groundwater

Report Date: 01-Jun-22

### SW-846 9012A (TOTAL)

Batch 189002 SampType: MS Units mg/L

SampleID: 22030530-017EMS

| Analyses | Cert | RL    | Qual | Result | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|----------|------|-------|------|--------|--------|-------------|-------|-----------|------------|---------------|
| Cyanide  |      | 0.005 |      | 0.032  | 0.0250 | 0.005700    | 106.5 | 75        | 125        | 03/28/2022    |

Batch 189002 SampType: MSD Units mg/L

RPD Limit: 15

SampleID: 22030530-017EMSD

| Analyses | Cert | RL    | Qual | Result | Spike  | SPK Ref Val | %REC  | RPD Ref Val | %RPD | Date Analyzed |
|----------|------|-------|------|--------|--------|-------------|-------|-------------|------|---------------|
| Cyanide  |      | 0.005 |      | 0.033  | 0.0250 | 0.005700    | 107.2 | 0.03232     | 0.59 | 03/28/2022    |

Batch 189002 SampType: MS Units mg/L

SampleID: 22030530-035EMS

| Analyses | Cert | RL    | Qual | Result | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|----------|------|-------|------|--------|--------|-------------|-------|-----------|------------|---------------|
| Cyanide  |      | 0.005 |      | 0.028  | 0.0250 | 0           | 111.0 | 75        | 125        | 03/28/2022    |

Batch 189002 SampType: MSD Units mg/L

RPD Limit: 15

SampleID: 22030530-035EMSD

| Analyses | Cert | RL    | Qual | Result | Spike  | SPK Ref Val | %REC  | RPD Ref Val | %RPD | Date Analyzed |
|----------|------|-------|------|--------|--------|-------------|-------|-------------|------|---------------|
| Cyanide  |      | 0.005 |      | 0.028  | 0.0250 | 0           | 113.1 | 0.02776     | 1.87 | 03/28/2022    |

### SW-846 9036 (DISSOLVED)

Batch R308817 SampType: MS Units mg/L

SampleID: 22030530-015BMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|----------|------|----|------|--------|-------|-------------|------|-----------|------------|---------------|
| Sulfate  |      | 20 |      | 96     | 40.00 | 60.51       | 89.3 | 85        | 115        | 03/25/2022    |

Batch R308817 SampType: MSD Units mg/L

RPD Limit: 10

SampleID: 22030530-015BMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|----------|------|----|------|--------|-------|-------------|------|-------------|------|---------------|
| Sulfate  |      | 20 |      | 95     | 40.00 | 60.51       | 86.4 | 96.24       | 1.21 | 03/25/2022    |

Batch R308817 SampType: MS Units mg/L

SampleID: 22030530-036BMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|----------|------|----|------|--------|-------|-------------|------|-----------|------------|---------------|
| Sulfate  |      | 50 |      | 161    | 100.0 | 73.18       | 88.2 | 85        | 115        | 03/25/2022    |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22030530

Client Project: Hennepin Q1 Groundwater

Report Date: 01-Jun-22

### SW-846 9036 (DISSOLVED)

| Batch R308817            |  | SampType: MSD |    | Units mg/L |        |       |             | RPD Limit: 10 |             |      |               |
|--------------------------|--|---------------|----|------------|--------|-------|-------------|---------------|-------------|------|---------------|
| SampID: 22030530-036BMSD |  |               |    |            |        |       |             |               |             |      |               |
| Analyses                 |  | Cert          | RL | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD | Date Analyzed |
| Sulfate                  |  |               | 50 |            | 170    | 100.0 | 73.18       | 96.7          | 161.4       | 5.16 | 03/25/2022    |

| Batch R309090           |      | SampType: MS |      | Units mg/L |       |             |      |           |            |               |  |
|-------------------------|------|--------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: 22030530-001BMS |      |              |      |            |       |             |      |           |            |               |  |
| Analyses                | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Sulfate                 |      | 50           |      | 146        | 100.0 | 53.39       | 93.1 | 85        | 115        | 04/01/2022    |  |

| Batch R309090            |  | SampType: MSD |    | Units mg/L |        |       |             | RPD Limit: 10 |             |      |            | Date Analyzed |
|--------------------------|--|---------------|----|------------|--------|-------|-------------|---------------|-------------|------|------------|---------------|
| SampID: 22030530-001BMSD |  |               |    |            |        |       |             |               |             |      |            |               |
| Analyses                 |  | Cert          | RL | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD |            |               |
| Sulfate                  |  |               | 50 |            | 158    | 100.0 | 53.39       | 104.6         | 146.4       | 7.61 | 04/01/2022 |               |

| Batch R309090           |      | SampType: MS |      | Units mg/L |       |             |      |           |            |               |  |
|-------------------------|------|--------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: 22030530-020BMS |      |              |      |            |       |             |      |           |            |               |  |
| Analyses                | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Sulfate                 |      | 50           |      | 240        | 100.0 | 144.3       | 95.2 | 85        | 115        | 04/01/2022    |  |

| Batch R309090            |  | SampType: MSD |    | Units mg/L |        |       |             | RPD Limit: 10 |             |      |               |
|--------------------------|--|---------------|----|------------|--------|-------|-------------|---------------|-------------|------|---------------|
| SampID: 22030530-020BMSD |  |               |    |            |        |       |             |               |             |      |               |
| Analyses                 |  | Cert          | RL | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD | Date Analyzed |
| Sulfate                  |  |               | 50 |            | 247    | 100.0 | 144.3       | 103.0         | 239.5       | 3.21 | 04/01/2022    |

### SW-846 9036 (TOTAL)

| Batch R308817    |  | SampType: MBLK |    | Units mg/L |        |       |             |      |           |            |               |
|------------------|--|----------------|----|------------|--------|-------|-------------|------|-----------|------------|---------------|
| SampID: ICB/MBLK |  |                |    |            |        |       |             |      |           |            |               |
| Analyses         |  | Cert           | RL | Qual       | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
| Sulfate          |  |                | 10 |            | < 10   | 6.140 | 0           | 0    | -100      | 100        | 03/25/2022    |

| Batch R308817   |      | SampType: LCS |      | Units mg/L |       |             |      |           |            |               |  |
|-----------------|------|---------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: ICV/LCS |      |               |      |            |       |             |      |           |            |               |  |
| Analyses        | Cert | RL            | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Sulfate         |      | 10            |      | 19         | 20.00 | 0           | 96.8 | 90        | 110        | 03/25/2022    |  |

**Client:** Ramboll

**Work Order:** 22030530

**Client Project:** Hennepin Q1 Groundwater

**Report Date:** 01-Jun-22

**SW-846 9036 (TOTAL)**

| Batch R308817           |      | SampType: MS |      | Units mg/L |       |             |      |           |            |            |               |
|-------------------------|------|--------------|------|------------|-------|-------------|------|-----------|------------|------------|---------------|
| SampID: 22030530-002AMS |      |              |      |            |       |             |      |           |            |            | Date Analyzed |
| Analyses                | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit |            |               |
| Sulfate                 |      | 50           |      | 178        | 100.0 | 90.46       | 87.3 | 85        | 115        | 03/25/2022 |               |

| Batch R308817            |  | SampType: MSD |    | Units mg/L |        |       |             | RPD Limit: 10 |             |      |               |
|--------------------------|--|---------------|----|------------|--------|-------|-------------|---------------|-------------|------|---------------|
| SampID: 22030530-002AMSD |  |               |    |            |        |       |             |               |             |      |               |
| Analyses                 |  | Cert          | RL | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD | Date Analyzed |
| Sulfate                  |  |               | 50 |            | 181    | 100.0 | 90.46       | 90.8          | 177.7       | 1.99 | 03/25/2022    |

| Batch R308817           |      | SampType: MS |      | Units mg/L |       |             |      |           |            |               |  |
|-------------------------|------|--------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: 22030530-015AMS |      |              |      |            |       |             |      |           |            |               |  |
| Analyses                | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Sulfate                 |      | 20           |      | 95         | 40.00 | 61.36       | 85.1 | 85        | 115        | 03/25/2022    |  |

| Batch R308817            |  | SampType: MSD |    | Units mg/L |        |       |             | RPD Limit: 10 |             |      | Date Analyzed |
|--------------------------|--|---------------|----|------------|--------|-------|-------------|---------------|-------------|------|---------------|
| SampID: 22030530-015AMSD |  |               |    |            |        |       |             |               |             |      |               |
| Analyses                 |  | Cert          | RL | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD |               |
| Sulfate                  |  |               | 20 |            | 96     | 40.00 | 61.36       | 87.4          | 95.40       | 0.98 | 03/25/2022    |

| Batch R308817           |      | SampType: MS |      | Units mg/L |       |             |      |           |            |               |  |
|-------------------------|------|--------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: 22030530-036AMS |      |              |      |            |       |             |      |           |            |               |  |
| Analyses                | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Sulfate                 |      | 50           |      | 163        | 100.0 | 69.60       | 93.2 | 85        | 115        | 03/25/2022    |  |

| Batch R308817            |  | SampType: MSD |    | Units mg/L |        |       |             | RPD Limit: 10 |             |      |               |
|--------------------------|--|---------------|----|------------|--------|-------|-------------|---------------|-------------|------|---------------|
| SampID: 22030530-036AMSD |  |               |    |            |        |       |             |               |             |      |               |
| Analyses                 |  | Cert          | RL | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD | Date Analyzed |
| Sulfate                  |  |               | 50 |            | 166    | 100.0 | 69.60       | 96.5          | 162.8       | 2.06 | 03/25/2022    |

| Batch R309090    |  | SampType: MBLK |    | Units mg/L |        |       |             |      |           |            |               |
|------------------|--|----------------|----|------------|--------|-------|-------------|------|-----------|------------|---------------|
| SampID: ICB/MBLK |  |                |    |            |        |       |             |      |           |            |               |
| Analyses         |  | Cert           | RL | Qual       | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
| Sulfate          |  |                | 10 |            | < 10   | 6.140 | 0           | 0    | -100      | 100        | 04/01/2022    |

| Batch R309090       |  | SampType: MBLK |    | Units mg/L |        |       |             |      |           |            |               |
|---------------------|--|----------------|----|------------|--------|-------|-------------|------|-----------|------------|---------------|
| SampID: MBLK 220327 |  |                |    |            |        |       |             |      |           |            |               |
| Analyses            |  | Cert           | RL | Qual       | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
| Sulfate             |  | *              | 10 |            | < 10   | 7.620 | 0           | 0    | -100      | 100        | 04/01/2022    |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22030530

Client Project: Hennepin Q1 Groundwater

Report Date: 01-Jun-22

### SW-846 9036 (TOTAL)

| Batch R309090   |      | SampType: LCS |      | Units mg/L |       |             |      |           |            |               |  |
|-----------------|------|---------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: ICB/LCS |      |               |      |            |       |             |      |           |            |               |  |
| Analyses        | Cert | RL            | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Sulfate         |      | 10            |      | 20         | 20.00 | 0           | 99.6 | 90        | 110        | 04/01/2022    |  |

| Batch R309284    |      | SampType: MBLK |      | Units mg/L |       |             |      |           |            |               |  |
|------------------|------|----------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: ICB/MBLK |      |                |      |            |       |             |      |           |            |               |  |
| Analyses         | Cert | RL             | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Sulfate          |      | 10             |      | < 10       | 6.140 | 0           | 0    | -100      | 100        | 04/06/2022    |  |

| Batch R309284   |      | SampType: LCS |      | Units mg/L |       |             |      |           |            |               |  |
|-----------------|------|---------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: ICV/LCS |      |               |      |            |       |             |      |           |            |               |  |
| Analyses        | Cert | RL            | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Sulfate         |      | 10            |      | 19         | 20.00 | 0           | 95.3 | 90        | 110        | 04/06/2022    |  |

### SW-846 9066 (DISSOLVED)

| Batch R308861           |      | SampType: MS |      | Units mg/L |        |             |      |           |            |               |
|-------------------------|------|--------------|------|------------|--------|-------------|------|-----------|------------|---------------|
| SampID: 22030530-011GMS |      |              |      |            |        |             |      |           |            |               |
| Analyses                | Cert | RL           | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
| Phenols                 |      | 0.005        |      | 0.062      | 0.0500 | 0.01284     | 98.5 | 85        | 115        | 03/28/2022    |

| Batch R308861            |  | SampType: MSD |       | Units mg/L |        |        |             | RPD Limit: 15 |             |      |               |
|--------------------------|--|---------------|-------|------------|--------|--------|-------------|---------------|-------------|------|---------------|
| SampID: 22030530-011GMSD |  |               |       |            |        |        |             |               |             |      |               |
| Analyses                 |  | Cert          | RL    | Qual       | Result | Spike  | SPK Ref Val | %REC          | RPD Ref Val | %RPD | Date Analyzed |
| Phenols                  |  |               | 0.005 |            | 0.067  | 0.0500 | 0.01284     | 108.5         | 0.06207     | 7.76 | 03/28/2022    |

### SW-846 9066 (TOTAL)

| Batch R308861    |      | SampType: MBLK |      | Units mg/L |        |             |      |           |            |               |  |
|------------------|------|----------------|------|------------|--------|-------------|------|-----------|------------|---------------|--|
| SampID: ICB/MBLK |      |                |      |            |        |             |      |           |            |               |  |
| Analyses         | Cert | RL             | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Phenols          |      | 0.005          |      | < 0.005    | 0.0028 | 0           | 0    | -100      | 100        | 03/28/2022    |  |

| Batch R308861   |      | SampType: LCS |      | Units mg/L |        |             |       |           |            |               |  |
|-----------------|------|---------------|------|------------|--------|-------------|-------|-----------|------------|---------------|--|
| SampID: ICV/LCS |      |               |      |            |        |             |       |           |            |               |  |
| Analyses        | Cert | RL            | Qual | Result     | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |  |
| Phenols         |      | 0.005         |      | 0.050      | 0.0500 | 0           | 100.4 | 90        | 110        | 03/28/2022    |  |





## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22030530

Client Project: Hennepin Q1 Groundwater

Report Date: 01-Jun-22

### SW-846 9066 (TOTAL)

| Batch R308861           |      | SampType: MS |      | Units mg/L |        |             |      |           |            |            |               |
|-------------------------|------|--------------|------|------------|--------|-------------|------|-----------|------------|------------|---------------|
| SampID: 22030530-011FMS |      |              |      |            |        |             |      |           |            |            | Date Analyzed |
| Analyses                | Cert | RL           | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit |            |               |
| Phenols                 |      | 0.005        |      | 0.055      | 0.0500 | 0.01118     | 87.0 | 85        | 115        | 03/28/2022 |               |

| Batch R308861            |      | SampType: MSD |      | Units mg/L |        |             |      | RPD Limit: 15 |      |  | Date Analyzed |
|--------------------------|------|---------------|------|------------|--------|-------------|------|---------------|------|--|---------------|
| SampID: 22030530-011FMSD |      |               |      |            |        |             |      |               |      |  |               |
| Analyses                 | Cert | RL            | Qual | Result     | Spike  | SPK Ref Val | %REC | RPD Ref Val   | %RPD |  |               |
| Phenols                  |      | 0.005         |      | 0.059      | 0.0500 | 0.01118     | 96.6 | 0.05468       | 8.43 |  |               |

### SW-846 9214 (DISSOLVED)

| Batch R308988           |      | SampType: MS |      | Units mg/L |       |             |       |           |            |            |               |
|-------------------------|------|--------------|------|------------|-------|-------------|-------|-----------|------------|------------|---------------|
| SampID: 22030530-007BMS |      |              |      |            |       |             |       |           |            |            | Date Analyzed |
| Analyses                | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC  | Low Limit | High Limit |            |               |
| Fluoride                |      | 0.10         |      | 2.15       | 2.000 | 0.1210      | 101.4 | 75        | 125        | 03/31/2022 |               |

| Batch R308988            |  | SampType: MSD |      | Units mg/L |        |       |             | RPD Limit: 15 |             |      |               |
|--------------------------|--|---------------|------|------------|--------|-------|-------------|---------------|-------------|------|---------------|
| SampID: 22030530-007BMSD |  |               |      |            |        |       |             |               |             |      |               |
| Analyses                 |  | Cert          | RL   | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD | Date Analyzed |
| Fluoride                 |  |               | 0.10 |            | 2.25   | 2.000 | 0.1210      | 106.2         | 2.149       | 4.41 | 03/31/2022    |

| Batch R308988           |      | SampType: MS |      | Units mg/L |       |             |       |           |            |               |  |
|-------------------------|------|--------------|------|------------|-------|-------------|-------|-----------|------------|---------------|--|
| SampID: 22030530-015BMS |      |              |      |            |       |             |       |           |            |               |  |
| Analyses                | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |  |
| Fluoride                |      | 0.10         |      | 2.39       | 2.000 | 0.2480      | 106.9 | 75        | 125        | 03/31/2022    |  |

| Batch R308988            |  | SampType: MSD |      | Units mg/L |        |       |             | RPD Limit: 15 |             |      |               |
|--------------------------|--|---------------|------|------------|--------|-------|-------------|---------------|-------------|------|---------------|
| SampID: 22030530-015BMSD |  |               |      |            |        |       |             |               |             |      |               |
| Analyses                 |  | Cert          | RL   | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD | Date Analyzed |
| Fluoride                 |  |               | 0.10 |            | 2.38   | 2.000 | 0.2480      | 106.5         | 2.386       | 0.34 | 03/31/2022    |

| Batch R308988           |      | SampType: MS |      | Units mg/L |       |             |       |           |            |               |  |
|-------------------------|------|--------------|------|------------|-------|-------------|-------|-----------|------------|---------------|--|
| SampID: 22030530-049BMS |      |              |      |            |       |             |       |           |            |               |  |
| Analyses                | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |  |
| Fluoride                |      | 0.10         |      | 2.12       | 2.000 | 0           | 106.2 | 75        | 125        | 03/31/2022    |  |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22030530

Client Project: Hennepin Q1 Groundwater

Report Date: 01-Jun-22

### SW-846 9214 (DISSOLVED)

| Batch R308988            |      | SampType: MSD |      | Units mg/L |       |             |       | RPD Limit: 15 |      |  | Date Analyzed |
|--------------------------|------|---------------|------|------------|-------|-------------|-------|---------------|------|--|---------------|
| SampID: 22030530-049BMSD |      |               |      |            |       |             |       |               |      |  |               |
| Analyses                 | Cert | RL            | Qual | Result     | Spike | SPK Ref Val | %REC  | RPD Ref Val   | %RPD |  |               |
| Fluoride                 |      | 0.10          |      | 2.11       | 2.000 | 0           | 105.4 | 2.125         | 0.76 |  |               |
|                          |      |               |      |            |       |             |       |               |      |  | 03/31/2022    |

### SW-846 9214 (TOTAL)

| Batch R308988 |      | SampType: MBLK |      | Units mg/L |        |             |      |           |            |            |               |
|---------------|------|----------------|------|------------|--------|-------------|------|-----------|------------|------------|---------------|
| SampID: MBLK  |      |                |      |            |        |             |      |           |            |            | Date Analyzed |
| Analyses      | Cert | RL             | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit |            |               |
| Fluoride      |      | 0.10           |      | < 0.10     | 0.0370 | 0           | 0    | -100      | 100        | 03/31/2022 |               |

| Batch R308988 |      | SampType: LCS |      | Units mg/L |       |             |      |           |            |            |               |
|---------------|------|---------------|------|------------|-------|-------------|------|-----------|------------|------------|---------------|
| SampID: LCS   |      |               |      |            |       |             |      |           |            |            | Date Analyzed |
| Analyses      | Cert | RL            | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit |            |               |
| Fluoride      |      | 0.10          |      | 0.99       | 1.000 | 0           | 99.0 | 90        | 110        | 03/31/2022 |               |

| Batch R308988           |      | SampType: MS |      | Units mg/L |       |             |       |           |            |            |               |
|-------------------------|------|--------------|------|------------|-------|-------------|-------|-----------|------------|------------|---------------|
| SampID: 22030530-012AMS |      |              |      |            |       |             |       |           |            |            | Date Analyzed |
| Analyses                | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC  | Low Limit | High Limit |            |               |
| Fluoride                |      | 0.10         |      | 2.33       | 2.000 | 0.2240      | 105.4 | 75        | 125        | 03/31/2022 |               |

| Batch R308988            |  | SampType: MSD |      | Units mg/L |        |       |             | RPD Limit: 15 |             |      |               |
|--------------------------|--|---------------|------|------------|--------|-------|-------------|---------------|-------------|------|---------------|
| SampID: 22030530-012AMSD |  |               |      |            |        |       |             |               |             |      |               |
| Analyses                 |  | Cert          | RL   | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD | Date Analyzed |
| Fluoride                 |  |               | 0.10 |            | 2.38   | 2.000 | 0.2240      | 107.6         | 2.333       | 1.83 | 03/31/2022    |

| Batch R308988           |      | SampType: MS |      | Units mg/L |       |             |      |           |            |               |  |
|-------------------------|------|--------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: 22030530-023AMS |      |              |      |            |       |             |      |           |            |               |  |
| Analyses                | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Fluoride                |      | 0.10         |      | 2.12       | 2.000 | 0.1230      | 99.8 | 75        | 125        | 03/31/2022    |  |

| Batch R308988            |  | SampType: MSD |      | Units mg/L |        |       |             | RPD Limit: 15 |             |      |               |
|--------------------------|--|---------------|------|------------|--------|-------|-------------|---------------|-------------|------|---------------|
| SampID: 22030530-023AMSD |  |               |      |            |        |       |             |               |             |      |               |
| Analyses                 |  | Cert          | RL   | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD | Date Analyzed |
| Fluoride                 |  |               | 0.10 |            | 2.09   | 2.000 | 0.1230      | 98.5          | 2.119       | 1.23 | 03/31/2022    |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22030530

Client Project: Hennepin Q1 Groundwater

Report Date: 01-Jun-22

### SW-846 9214 (TOTAL)

| Batch R308988           |      | SampType: MS |      | Units mg/L |       |             |       |           |            |               |  |
|-------------------------|------|--------------|------|------------|-------|-------------|-------|-----------|------------|---------------|--|
| SampID: 22030530-037AMS |      |              |      |            |       |             |       |           |            |               |  |
| Analyses                | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |  |
| Fluoride                |      | 0.10         |      | 2.26       | 2.000 | 0.2260      | 101.7 | 75        | 125        | 03/31/2022    |  |

| Batch R308988            |  | SampType: MSD |      | Units mg/L |        |       |             | RPD Limit: 15 |             |      |               |
|--------------------------|--|---------------|------|------------|--------|-------|-------------|---------------|-------------|------|---------------|
| SampID: 22030530-037AMSD |  |               |      |            |        |       |             |               |             |      | Date Analyzed |
| Analyses                 |  | Cert          | RL   | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD |               |
| Fluoride                 |  |               | 0.10 |            | 2.25   | 2.000 | 0.2260      | 101.4         | 2.259       | 0.27 | 03/31/2022    |

| Batch R308988           |      | SampType: MS |      | Units mg/L |       |             |      |           |            |               |  |
|-------------------------|------|--------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: 22030530-047AMS |      |              |      |            |       |             |      |           |            |               |  |
| Analyses                | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Fluoride                |      | 0.10         |      | 2.09       | 2.000 | 0.1620      | 96.2 | 75        | 125        | 03/31/2022    |  |

| Batch R308988            |  | SampType: MSD |      | Units mg/L |        |       |             | RPD Limit: 15 |             |      | Date Analyzed |  |
|--------------------------|--|---------------|------|------------|--------|-------|-------------|---------------|-------------|------|---------------|--|
| SampID: 22030530-047AMSD |  |               |      |            |        |       |             |               |             |      |               |  |
| Analyses                 |  | Cert          | RL   | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD |               |  |
| Fluoride                 |  |               | 0.10 |            | 2.09   | 2.000 | 0.1620      | 96.6          | 2.087       | 0.29 | 03/31/2022    |  |

### SW-846 9251 (DISSOLVED)

| Batch R308818           |      | SampType: MS |      | Units mg/L |       |             |      |           |            |               |  |
|-------------------------|------|--------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: 22030530-001BMS |      |              |      |            |       |             |      |           |            |               |  |
| Analyses                | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Chloride                |      | 2            |      | 69         | 40.00 | 31.97       | 92.7 | 85        | 115        | 03/25/2022    |  |

| Batch R308818            |  | SampType: MSD |    | Units mg/L |        |       |             | RPD Limit: 15 |             |      |               |
|--------------------------|--|---------------|----|------------|--------|-------|-------------|---------------|-------------|------|---------------|
| SampID: 22030530-001BMSD |  |               |    |            |        |       |             |               |             |      |               |
| Analyses                 |  | Cert          | RL | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD | Date Analyzed |
| Chloride                 |  |               | 2  |            | 68     | 40.00 | 31.97       | 91.0          | 69.05       | 0.99 | 03/25/2022    |

| Batch R308818           |      | SampType: MS |      | Units mg/L |       |             |      |           |            |               |  |
|-------------------------|------|--------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: 22030530-015BMS |      |              |      |            |       |             |      |           |            |               |  |
| Analyses                | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Chloride                |      | 2            | E    | 113        | 40.00 | 75.41       | 93.8 | 85        | 115        | 03/25/2022    |  |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22030530

Client Project: Hennepin Q1 Groundwater

Report Date: 01-Jun-22

### SW-846 9251 (DISSOLVED)

| Batch R308818            |  | SampType: MSD |    | Units mg/L |        |       |             | RPD Limit: 15 |             |      |               |
|--------------------------|--|---------------|----|------------|--------|-------|-------------|---------------|-------------|------|---------------|
| SampID: 22030530-015BMSD |  |               |    |            |        |       |             |               |             |      |               |
| Analyses                 |  | Cert          | RL | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD | Date Analyzed |
| Chloride                 |  |               | 2  | E          | 112    | 40.00 | 75.41       | 92.0          | 112.9       | 0.66 | 03/25/2022    |

| Batch R308818           |      | SampType: MS |      | Units mg/L |       |             |      |           |            |            |               |
|-------------------------|------|--------------|------|------------|-------|-------------|------|-----------|------------|------------|---------------|
| SampID: 22030530-020BMS |      |              |      |            |       |             |      |           |            |            | Date Analyzed |
| Analyses                | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit |            |               |
| Chloride                |      | 2            |      | 100        | 40.00 | 63.24       | 90.8 | 85        | 115        | 03/25/2022 |               |

| Batch R308818            |  | SampType: MSD |    | Units mg/L |        |       |             | RPD Limit: 15 |             |      | Date Analyzed |  |
|--------------------------|--|---------------|----|------------|--------|-------|-------------|---------------|-------------|------|---------------|--|
| SampID: 22030530-020BMSD |  |               |    |            |        |       |             |               |             |      |               |  |
| Analyses                 |  | Cert          | RL | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD |               |  |
| Chloride                 |  |               | 2  |            | 99     | 40.00 | 63.24       | 89.0          | 99.55       | 0.71 | 03/25/2022    |  |

| Batch R308818           |      | SampType: MS |      | Units mg/L |       |             |      |           |            |               |  |
|-------------------------|------|--------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: 22030530-036BMS |      |              |      |            |       |             |      |           |            |               |  |
| Analyses                | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Chloride                |      | 5            |      | 186        | 100.0 | 94.24       | 92.1 | 85        | 115        | 03/25/2022    |  |

| Batch R308818            |  | SampType: MSD |    | Units mg/L |        | RPD Limit: 15 |             |      |             |      | Date Analyzed |
|--------------------------|--|---------------|----|------------|--------|---------------|-------------|------|-------------|------|---------------|
| SampID: 22030530-036BMSD |  |               |    |            |        |               |             |      |             |      |               |
| Analyses                 |  | Cert          | RL | Qual       | Result | Spike         | SPK Ref Val | %REC | RPD Ref Val | %RPD |               |
| Chloride                 |  |               | 5  |            | 185    | 100.0         | 94.24       | 90.4 | 186.3       | 0.91 | 03/25/2022    |

### SW-846 9251 (TOTAL)

| Batch R308818    |      | SampType: MBLK |      | Units mg/L |        |             |      |           |            |               |  |
|------------------|------|----------------|------|------------|--------|-------------|------|-----------|------------|---------------|--|
| SampID: ICB/MBLK |      |                |      |            |        |             |      |           |            |               |  |
| Analyses         | Cert | RL             | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Chloride         |      | 1              |      | < 1        | 0.5000 | 0           | 0    | -100      | 100        | 03/25/2022    |  |

| Batch R308818   |      | SampType: LCS |      | Units mg/L |       |             |       |           |            |               |  |
|-----------------|------|---------------|------|------------|-------|-------------|-------|-----------|------------|---------------|--|
| SampID: ICV/LCS |      |               |      |            |       |             |       |           |            |               |  |
| Analyses        | Cert | RL            | Qual | Result     | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |  |
| Chloride        |      | 1             |      | 20         | 20.00 | 0           | 101.4 | 90        | 110        | 03/25/2022    |  |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22030530

Client Project: Hennepin Q1 Groundwater

Report Date: 01-Jun-22

### SW-846 9251 (TOTAL)

| Batch R308818           |      | SampType: MS |      | Units mg/L |       |             |      |           |            |            |               |
|-------------------------|------|--------------|------|------------|-------|-------------|------|-----------|------------|------------|---------------|
| SampID: 22030530-002AMS |      |              |      |            |       |             |      |           |            |            | Date Analyzed |
| Analyses                | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit |            |               |
| Chloride                |      | 5            |      | 175        | 100.0 | 81.04       | 93.5 | 85        | 115        | 03/25/2022 |               |

| Batch R308818            |  | SampType: MSD |    | Units mg/L |        |       |             | RPD Limit: 15 |             |      |               |
|--------------------------|--|---------------|----|------------|--------|-------|-------------|---------------|-------------|------|---------------|
| SampID: 22030530-002AMSD |  |               |    |            |        |       |             |               |             |      |               |
| Analyses                 |  | Cert          | RL | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD | Date Analyzed |
| Chloride                 |  |               | 5  |            | 178    | 100.0 | 81.04       | 96.5          | 174.6       | 1.69 | 03/25/2022    |

| Batch R308818           |      | SampType: MS |      | Units mg/L |       |             |      |           |            |            |               |
|-------------------------|------|--------------|------|------------|-------|-------------|------|-----------|------------|------------|---------------|
| SampID: 22030530-015AMS |      |              |      |            |       |             |      |           |            |            | Date Analyzed |
| Analyses                | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit |            |               |
| Chloride                |      | 2            | E    | 111        | 40.00 | 75.11       | 89.8 | 85        | 115        | 03/25/2022 |               |

| Batch R308818            |  | SampType: MSD |    | Units mg/L |        |       |             | RPD Limit: 15 |             |      |               |
|--------------------------|--|---------------|----|------------|--------|-------|-------------|---------------|-------------|------|---------------|
| SampID: 22030530-015AMSD |  |               |    |            |        |       |             |               |             |      |               |
| Analyses                 |  | Cert          | RL | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD | Date Analyzed |
| Chloride                 |  |               | 2  | E          | 114    | 40.00 | 75.11       | 96.0          | 111.0       | 2.19 | 03/25/2022    |

| Batch R308818           |      | SampType: MS |      | Units mg/L |       |             |      |           |            |               |  |
|-------------------------|------|--------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: 22030530-036AMS |      |              |      |            |       |             |      |           |            |               |  |
| Analyses                | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Chloride                |      | 5            |      | 189        | 100.0 | 93.43       | 95.8 | 85        | 115        | 03/25/2022    |  |

| Batch R308818            |  | SampType: MSD |    | Units mg/L |        |       |             | RPD Limit: 15 |             |      |               |
|--------------------------|--|---------------|----|------------|--------|-------|-------------|---------------|-------------|------|---------------|
| SampID: 22030530-036AMSD |  |               |    |            |        |       |             |               |             |      |               |
| Analyses                 |  | Cert          | RL | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD | Date Analyzed |
| Chloride                 |  |               | 5  |            | 191    | 100.0 | 93.43       | 97.8          | 189.2       | 1.05 | 03/25/2022    |

| Batch R309091    |      | SampType: MBLK |      | Units mg/L |        |             |      |           |            |               |  |
|------------------|------|----------------|------|------------|--------|-------------|------|-----------|------------|---------------|--|
| SampID: ICB/MBLK |      |                |      |            |        |             |      |           |            |               |  |
| Analyses         | Cert | RL             | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Chloride         |      | 1              |      | < 1        | 0.5000 | 0           | 0    | -100      | 100        | 04/01/2022    |  |

| Batch R309091   |      | SampType: LCS |      | Units mg/L |       |             |       |           |            |               |  |
|-----------------|------|---------------|------|------------|-------|-------------|-------|-----------|------------|---------------|--|
| SampID: ICV/LCS |      |               |      |            |       |             |       |           |            |               |  |
| Analyses        | Cert | RL            | Qual | Result     | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |  |
| Chloride        |      | 1             |      | 21         | 20.00 | 0           | 104.2 | 90        | 110        | 04/01/2022    |  |

**Client:** Ramboll

**Work Order:** 22030530

**Client Project:** Hennepin Q1 Groundwater

**Report Date:** 01-Jun-22

**SW-846 9251 (TOTAL)**

| Batch R309285    |      | SampType: MBLK |      | Units mg/L |        |             |      |           |            |               |  |
|------------------|------|----------------|------|------------|--------|-------------|------|-----------|------------|---------------|--|
| SampID: ICB/MBLK |      |                |      |            |        |             |      |           |            |               |  |
| Analyses         | Cert | RL             | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Chloride         |      | 1              |      | < 1        | 0.5000 | 0           | 0    | -100      | 100        | 04/06/2022    |  |

| Batch R309285   |      | SampType: LCS |      | Units mg/L |       |             |      |           |            |            |               |
|-----------------|------|---------------|------|------------|-------|-------------|------|-----------|------------|------------|---------------|
| SampID: ICV/LCS |      |               |      |            |       |             |      |           |            |            | Date Analyzed |
| Analyses        | Cert | RL            | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit |            |               |
| Chloride        |      | 1             |      | 19         | 20.00 | 0           | 97.3 | 90        | 110        | 04/06/2022 |               |

**SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)**

| Batch 189014        |      | SampType: MBLK |      | Units mg/L |        |             |      |           |            |               |  |
|---------------------|------|----------------|------|------------|--------|-------------|------|-----------|------------|---------------|--|
| SampID: MBLK-189014 |      |                |      |            |        |             |      |           |            |               |  |
| Analyses            | Cert | RL             | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Calcium             |      | 0.100          |      | < 0.100    | 0.0350 | 0           | 0    | -100      | 100        | 03/29/2022    |  |
| Magnesium           |      | 0.0500         |      | < 0.0500   | 0.0055 | 0           | 0    | -100      | 100        | 03/29/2022    |  |

| Batch 189014       |      | SampType: LCS |      | Units mg/L |       |             |      |           |            |            |               |
|--------------------|------|---------------|------|------------|-------|-------------|------|-----------|------------|------------|---------------|
| SampID: LCS-189014 |      |               |      |            |       |             |      |           |            |            | Date Analyzed |
| Analyses           | Cert | RL            | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit |            |               |
| Calcium            |      | 0.100         |      | 2.35       | 2.500 | 0           | 94.0 | 85        | 115        | 03/29/2022 |               |
| Magnesium          |      | 0.0500        |      | 2.41       | 2.500 | 0           | 96.5 | 85        | 115        | 03/29/2022 |               |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22030530

Client Project: Hennepin Q1 Groundwater

Report Date: 01-Jun-22

### SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 189015 SampType: MBLK Units mg/L

SampleID: MBLK-189015

| Analyses   | Cert | RL     | Qual | Result   | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|------------|------|--------|------|----------|--------|-------------|------|-----------|------------|---------------|
| Aluminum   |      | 0.0250 |      | < 0.0250 | 0.0127 | 0           | 0    | -100      | 100        | 03/28/2022    |
| Antimony   |      | 0.0500 |      | < 0.0500 | 0.0068 | 0           | 0    | -100      | 100        | 03/29/2022    |
| Arsenic    |      | 0.0250 |      | < 0.0250 | 0.0087 | 0           | 0    | -100      | 100        | 03/29/2022    |
| Arsenic    |      | 0.0250 |      | < 0.0250 | 0.0087 | 0           | 0    | -100      | 100        | 03/28/2022    |
| Barium     |      | 0.0025 |      | < 0.0025 | 0.0007 | 0           | 0    | -100      | 100        | 03/28/2022    |
| Barium     |      | 0.0025 |      | < 0.0025 | 0.0007 | 0           | 0    | -100      | 100        | 03/29/2022    |
| Beryllium  |      | 0.0005 |      | < 0.0005 | 0.0002 | 0           | 0    | -100      | 100        | 03/28/2022    |
| Beryllium  |      | 0.0005 |      | < 0.0005 | 0.0002 | 0           | 0    | -100      | 100        | 03/29/2022    |
| Cadmium    |      | 0.0020 |      | < 0.0020 | 0.0005 | 0           | 0    | -100      | 100        | 03/28/2022    |
| Cadmium    |      | 0.0020 |      | < 0.0020 | 0.0005 | 0           | 0    | -100      | 100        | 03/29/2022    |
| Calcium    |      | 0.100  |      | < 0.100  | 0.0350 | 0           | 0    | -100      | 100        | 03/28/2022    |
| Calcium    |      | 0.100  |      | < 0.100  | 0.0350 | 0           | 0    | -100      | 100        | 03/29/2022    |
| Chromium   |      | 0.0050 |      | < 0.0050 | 0.0028 | 0           | 0    | -100      | 100        | 03/29/2022    |
| Chromium   |      | 0.0050 |      | < 0.0050 | 0.0028 | 0           | 0    | -100      | 100        | 03/28/2022    |
| Cobalt     |      | 0.0050 |      | < 0.0050 | 0.0020 | 0           | 0    | -100      | 100        | 03/29/2022    |
| Cobalt     |      | 0.0050 |      | < 0.0050 | 0.0020 | 0           | 0    | -100      | 100        | 03/28/2022    |
| Copper     |      | 0.0050 |      | < 0.0050 | 0.0013 | 0           | 0    | -100      | 100        | 03/28/2022    |
| Lead       |      | 0.0150 |      | < 0.0150 | 0.0014 | 0           | 0    | -100      | 100        | 03/29/2022    |
| Lead       |      | 0.0150 |      | < 0.0150 | 0.0014 | 0           | 0    | -100      | 100        | 03/28/2022    |
| Magnesium  |      | 0.0500 |      | < 0.0500 | 0.0055 | 0           | 0    | -100      | 100        | 03/29/2022    |
| Magnesium  |      | 0.0500 |      | < 0.0500 | 0.0055 | 0           | 0    | -100      | 100        | 03/28/2022    |
| Molybdenum |      | 0.0100 |      | < 0.0100 | 0.0037 | 0           | 0    | -100      | 100        | 03/29/2022    |
| Molybdenum |      | 0.0100 |      | < 0.0100 | 0.0037 | 0           | 0    | -100      | 100        | 03/28/2022    |
| Nickel     |      | 0.0050 |      | < 0.0050 | 0.0016 | 0           | 0    | -100      | 100        | 03/28/2022    |
| Selenium   |      | 0.0400 |      | < 0.0400 | 0.0170 | 0           | 0    | -100      | 100        | 03/29/2022    |
| Selenium   |      | 0.0400 |      | < 0.0400 | 0.0170 | 0           | 0    | -100      | 100        | 03/28/2022    |
| Silver     |      | 0.0070 |      | < 0.0070 | 0.0027 | 0           | 0    | -100      | 100        | 03/28/2022    |
| Thallium   |      | 0.0500 |      | < 0.0500 | 0.0111 | 0           | 0    | -100      | 100        | 03/29/2022    |
| Thallium   |      | 0.0500 |      | < 0.0500 | 0.0111 | 0           | 0    | -100      | 100        | 03/28/2022    |
| Vanadium   |      | 0.0100 |      | < 0.0100 | 0.0009 | 0           | 0    | -100      | 100        | 03/28/2022    |
| Zinc       |      | 0.0100 |      | < 0.0100 | 0.0050 | 0           | 0    | -100      | 100        | 03/28/2022    |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22030530

Client Project: Hennepin Q1 Groundwater

Report Date: 01-Jun-22

### SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 189015 SampType: LCS Units mg/L

SampleID: LCS-189015

| Analyses   | Cert | RL     | Qual | Result | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|------------|------|--------|------|--------|--------|-------------|------|-----------|------------|---------------|
| Aluminum   |      | 0.0250 |      | 1.84   | 2.000  | 0           | 91.8 | 85        | 115        | 03/28/2022    |
| Antimony   |      | 0.0500 |      | 0.457  | 0.5000 | 0           | 91.4 | 85        | 115        | 03/29/2022    |
| Arsenic    |      | 0.0250 |      | 0.478  | 0.5000 | 0           | 95.7 | 85        | 115        | 03/28/2022    |
| Arsenic    |      | 0.0250 |      | 0.485  | 0.5000 | 0           | 97.1 | 85        | 115        | 03/29/2022    |
| Barium     |      | 0.0025 |      | 1.89   | 2.000  | 0           | 94.5 | 85        | 115        | 03/28/2022    |
| Barium     |      | 0.0025 |      | 1.90   | 2.000  | 0           | 94.8 | 85        | 115        | 03/29/2022    |
| Beryllium  |      | 0.0005 |      | 0.0471 | 0.0500 | 0           | 94.2 | 85        | 115        | 03/29/2022    |
| Beryllium  |      | 0.0005 |      | 0.0466 | 0.0500 | 0           | 93.2 | 85        | 115        | 03/28/2022    |
| Cadmium    |      | 0.0020 |      | 0.0458 | 0.0500 | 0           | 91.6 | 85        | 115        | 03/28/2022    |
| Cadmium    |      | 0.0020 |      | 0.0466 | 0.0500 | 0           | 93.2 | 85        | 115        | 03/29/2022    |
| Calcium    |      | 0.100  |      | 2.37   | 2.500  | 0           | 94.7 | 85        | 115        | 03/28/2022    |
| Calcium    |      | 0.100  |      | 2.39   | 2.500  | 0           | 95.5 | 85        | 115        | 03/29/2022    |
| Chromium   |      | 0.0050 |      | 0.183  | 0.2000 | 0           | 91.5 | 85        | 115        | 03/28/2022    |
| Chromium   |      | 0.0050 |      | 0.186  | 0.2000 | 0           | 93.0 | 85        | 115        | 03/29/2022    |
| Cobalt     |      | 0.0050 |      | 0.469  | 0.5000 | 0           | 93.8 | 85        | 115        | 03/28/2022    |
| Cobalt     |      | 0.0050 |      | 0.480  | 0.5000 | 0           | 95.9 | 85        | 115        | 03/29/2022    |
| Copper     |      | 0.0050 |      | 0.240  | 0.2500 | 0           | 96.0 | 85        | 115        | 03/28/2022    |
| Lead       |      | 0.0150 |      | 0.457  | 0.5000 | 0           | 91.4 | 85        | 115        | 03/28/2022    |
| Lead       |      | 0.0150 |      | 0.462  | 0.5000 | 0           | 92.4 | 85        | 115        | 03/29/2022    |
| Magnesium  |      | 0.0500 |      | 2.42   | 2.500  | 0           | 96.9 | 85        | 115        | 03/28/2022    |
| Magnesium  |      | 0.0500 |      | 2.46   | 2.500  | 0           | 98.4 | 85        | 115        | 03/29/2022    |
| Molybdenum |      | 0.0100 |      | 0.464  | 0.5000 | 0           | 92.8 | 85        | 115        | 03/28/2022    |
| Molybdenum |      | 0.0100 |      | 0.465  | 0.5000 | 0           | 93.0 | 85        | 115        | 03/29/2022    |
| Nickel     |      | 0.0050 |      | 0.463  | 0.5000 | 0           | 92.6 | 85        | 115        | 03/28/2022    |
| Selenium   |      | 0.0400 |      | 0.472  | 0.5000 | 0           | 94.4 | 85        | 115        | 03/29/2022    |
| Selenium   |      | 0.0400 |      | 0.458  | 0.5000 | 0           | 91.7 | 85        | 115        | 03/28/2022    |
| Silver     |      | 0.0070 |      | 0.0471 | 0.0500 | 0           | 94.2 | 85        | 115        | 03/28/2022    |
| Thallium   |      | 0.0500 |      | 0.238  | 0.2500 | 0           | 95.1 | 85        | 115        | 03/28/2022    |
| Thallium   |      | 0.0500 |      | 0.242  | 0.2500 | 0           | 96.7 | 85        | 115        | 03/29/2022    |
| Vanadium   |      | 0.0100 |      | 0.464  | 0.5000 | 0           | 92.9 | 85        | 115        | 03/28/2022    |
| Zinc       |      | 0.0100 |      | 0.458  | 0.5000 | 0           | 91.6 | 85        | 115        | 03/28/2022    |





## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22030530

Client Project: Hennepin Q1 Groundwater

Report Date: 01-Jun-22

### SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 190778 SampType: MBLK Units mg/L

SampleID: MBLK-190778

| Analyses  | Cert | RL     | Qual | Result   | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|-----------|------|--------|------|----------|--------|-------------|------|-----------|------------|---------------|
| Calcium   |      | 0.100  |      | < 0.100  | 0.0350 | 0           | 0    | -100      | 100        | 04/19/2022    |
| Iron      |      | 0.0400 |      | < 0.0400 | 0.0200 | 0           | 0    | -100      | 100        | 04/19/2022    |
| Magnesium |      | 0.0500 |      | < 0.0500 | 0.0055 | 0           | 0    | -100      | 100        | 04/19/2022    |
| Manganese |      | 0.0070 |      | < 0.0070 | 0.0025 | 0           | 0    | -100      | 100        | 04/19/2022    |

Batch 190778 SampType: LCS Units mg/L

SampleID: LCS-190778

| Analyses  | Cert | RL     | Qual | Result | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|-----------|------|--------|------|--------|--------|-------------|------|-----------|------------|---------------|
| Calcium   |      | 0.100  |      | 2.35   | 2.500  | 0           | 93.9 | 85        | 115        | 04/19/2022    |
| Iron      |      | 0.0400 |      | 1.78   | 2.000  | 0           | 89.2 | 85        | 115        | 04/19/2022    |
| Magnesium |      | 0.0500 |      | 2.41   | 2.500  | 0           | 96.4 | 85        | 115        | 04/19/2022    |
| Manganese |      | 0.0070 |      | 0.454  | 0.5000 | 0           | 90.9 | 85        | 115        | 04/19/2022    |

### SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 188963 SampType: MBLK Units mg/L

SampleID: MBLK-188963

| Analyses  | Cert | RL     | Qual | Result   | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|-----------|------|--------|------|----------|--------|-------------|------|-----------|------------|---------------|
| Calcium   |      | 0.100  |      | < 0.100  | 0.0350 | 0           | 0    | -100      | 100        | 03/30/2022    |
| Calcium   |      | 0.100  |      | < 0.100  | 0.0350 | 0           | 0    | -100      | 100        | 03/25/2022    |
| Magnesium |      | 0.0500 |      | < 0.0500 | 0.0055 | 0           | 0    | -100      | 100        | 03/25/2022    |
| Magnesium |      | 0.0500 |      | < 0.0500 | 0.0055 | 0           | 0    | -100      | 100        | 03/30/2022    |
| Potassium |      | 0.100  |      | < 0.100  | 0.0400 | 0           | 0    | -100      | 100        | 03/30/2022    |
| Sodium    |      | 0.0500 |      | < 0.0500 | 0.0180 | 0           | 0    | -100      | 100        | 03/30/2022    |
| Sodium    |      | 0.0500 |      | < 0.0500 | 0.0180 | 0           | 0    | -100      | 100        | 03/25/2022    |

Batch 188963 SampType: LCS Units mg/L

SampleID: LCS-188963

| Analyses  | Cert | RL     | Qual | Result | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|-----------|------|--------|------|--------|-------|-------------|-------|-----------|------------|---------------|
| Calcium   |      | 0.100  |      | 2.72   | 2.500 | 0           | 108.9 | 85        | 115        | 03/25/2022    |
| Calcium   |      | 0.100  |      | 2.73   | 2.500 | 0           | 109.2 | 85        | 115        | 03/30/2022    |
| Magnesium |      | 0.0500 |      | 2.81   | 2.500 | 0           | 112.3 | 85        | 115        | 03/25/2022    |
| Magnesium |      | 0.0500 |      | 2.83   | 2.500 | 0           | 113.4 | 85        | 115        | 03/30/2022    |
| Potassium |      | 0.100  |      | 2.58   | 2.500 | 0           | 103.3 | 85        | 115        | 03/30/2022    |
| Sodium    |      | 0.0500 |      | 2.53   | 2.500 | 0           | 101.3 | 85        | 115        | 03/30/2022    |
| Sodium    |      | 0.0500 |      | 2.52   | 2.500 | 0           | 101.0 | 85        | 115        | 03/25/2022    |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22030530

Client Project: Hennepin Q1 Groundwater

Report Date: 01-Jun-22

### SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 188963 SampType: MS Units mg/L

SamplID: 22030530-027CMS

| Analyses  | Cert | RL     | Qual | Result | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|-----------|------|--------|------|--------|-------|-------------|-------|-----------|------------|---------------|
| Calcium   |      | 0.100  | S    | 140    | 2.500 | 140.2       | -24.0 | 75        | 125        | 03/30/2022    |
| Magnesium |      | 0.0500 |      | 40.8   | 2.500 | 38.90       | 75.2  | 75        | 125        | 03/30/2022    |
| Potassium |      | 0.100  |      | 6.44   | 2.500 | 3.833       | 104.4 | 75        | 125        | 03/30/2022    |
| Sodium    |      | 0.0500 | S    | 59.3   | 2.500 | 58.43       | 35.6  | 75        | 125        | 03/30/2022    |

Batch 188963 SampType: MSD Units mg/L

RPD Limit: 20

SamplID: 22030530-027CMSD

| Analyses  | Cert | RL     | Qual | Result | Spike | SPK Ref Val | %REC  | RPD Ref Val | %RPD | Date Analyzed |
|-----------|------|--------|------|--------|-------|-------------|-------|-------------|------|---------------|
| Calcium   |      | 0.100  | S    | 140    | 2.500 | 140.2       | -4.0  | 139.6       | 0.36 | 03/30/2022    |
| Magnesium |      | 0.0500 | S    | 40.4   | 2.500 | 38.90       | 60.4  | 40.78       | 0.91 | 03/30/2022    |
| Potassium |      | 0.100  |      | 6.44   | 2.500 | 3.833       | 104.2 | 6.443       | 0.09 | 03/30/2022    |
| Sodium    |      | 0.0500 | S    | 59.7   | 2.500 | 58.43       | 52.4  | 59.32       | 0.71 | 03/30/2022    |

Batch 188980 SampType: MBLK Units mg/L

SamplID: MBLK-188980

| Analyses  | Cert | RL     | Qual | Result   | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|-----------|------|--------|------|----------|--------|-------------|-------|-----------|------------|---------------|
| Calcium   |      | 0.100  |      | < 0.100  | 0.0350 | 0           | 0     | -100      | 100        | 03/29/2022    |
| Magnesium |      | 0.0500 |      | < 0.0500 | 0.0055 | 0           | 0     | -100      | 100        | 03/29/2022    |
| Potassium |      | 0.100  |      | < 0.100  | 0.0500 | 0           | 0     | -100      | 100        | 04/27/2022    |
| Potassium |      | 0.100  | J    | 0.040    | 0.0400 | 0           | 100.0 | -100      | 100        | 03/31/2022    |
| Sodium    |      | 0.0500 |      | < 0.0500 | 0.0180 | 0           | 0     | -100      | 100        | 03/29/2022    |

Batch 188980 SampType: LCS Units mg/L

SamplID: LCS-188980

| Analyses  | Cert | RL     | Qual | Result | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|-----------|------|--------|------|--------|-------|-------------|-------|-----------|------------|---------------|
| Calcium   |      | 0.100  |      | 2.63   | 2.500 | 0           | 105.3 | 85        | 115        | 03/29/2022    |
| Magnesium |      | 0.0500 |      | 2.66   | 2.500 | 0           | 106.6 | 85        | 115        | 03/29/2022    |
| Potassium |      | 0.100  |      | 2.48   | 2.500 | 0           | 99.3  | 85        | 115        | 04/27/2022    |
| Potassium |      | 0.100  |      | 2.52   | 2.500 | 0           | 100.7 | 85        | 115        | 03/31/2022    |
| Sodium    |      | 0.0500 |      | 2.35   | 2.500 | 0           | 93.9  | 85        | 115        | 03/29/2022    |

**Client:** Ramboll

**Work Order:** 22030530

**Client Project:** Hennepin Q1 Groundwater

**Report Date:** 01-Jun-22

### SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

| Batch 188980        |      | SampType: LCSD |      | Units mg/L |       |             |       | RPD Limit: 20 |      |               |
|---------------------|------|----------------|------|------------|-------|-------------|-------|---------------|------|---------------|
| SampID: LCSD-188980 |      |                |      |            |       |             |       |               |      |               |
| Analyses            | Cert | RL             | Qual | Result     | Spike | SPK Ref Val | %REC  | RPD Ref Val   | %RPD | Date Analyzed |
| Calcium             |      | 0.100          |      | 2.66       | 2.500 | 0           | 106.3 | 2.633         | 0.95 | 03/29/2022    |
| Magnesium           |      | 0.0500         |      | 2.71       | 2.500 | 0           | 108.4 | 2.664         | 1.68 | 03/29/2022    |
| Potassium           |      | 0.100          |      | 2.56       | 2.500 | 0           | 102.5 | 2.517         | 1.81 | 03/31/2022    |
| Potassium           |      | 0.100          |      | 2.55       | 2.500 | 0           | 102.1 | 2.534         | 0.71 | 04/27/2022    |
| Sodium              |      | 0.0500         |      | 2.35       | 2.500 | 0           | 94.2  | 2.348         | 0.26 | 03/29/2022    |

| Batch 188980            |      | SampType: MS |      | Units mg/L |       |             |      |           |            |               |
|-------------------------|------|--------------|------|------------|-------|-------------|------|-----------|------------|---------------|
| SampID: 22030530-035CMS |      |              |      |            |       |             |      |           |            |               |
| Analyses                | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
| Calcium                 |      | 0.100        | S    | 79.0       | 2.500 | 78.22       | 32.4 | 75        | 125        | 03/29/2022    |
| Magnesium               |      | 0.0500       |      | 33.8       | 2.500 | 31.69       | 83.2 | 75        | 125        | 03/29/2022    |
| Potassium               |      | 0.100        |      | 9.82       | 2.500 | 7.374       | 97.8 | 75        | 125        | 04/27/2022    |
| Sodium                  |      | 0.0500       | S    | 49.6       | 2.500 | 47.92       | 68.8 | 75        | 125        | 03/29/2022    |

| Batch                    | 188980 | SampType: | MSD    | Units |        |       |             | mg/L  |             |      |            | RPD Limit: 20 |  |  |  |
|--------------------------|--------|-----------|--------|-------|--------|-------|-------------|-------|-------------|------|------------|---------------|--|--|--|
| SampID: 22030530-035CMSD |        |           |        |       |        |       |             |       |             |      |            | Date Analyzed |  |  |  |
| Analyses                 |        | Cert      | RL     | Qual  | Result | Spike | SPK Ref Val | %REC  | RPD Ref Val | %RPD |            |               |  |  |  |
| Calcium                  |        |           | 0.100  | S     | 77.9   | 2.500 | 78.22       | -12.0 | 79.03       | 1.41 | 03/29/2022 |               |  |  |  |
| Magnesium                |        |           | 0.0500 | S     | 32.7   | 2.500 | 31.69       | 42.0  | 33.77       | 3.10 | 03/29/2022 |               |  |  |  |
| Potassium                |        |           | 0.100  |       | 9.72   | 2.500 | 7.374       | 93.8  | 9.818       | 1.02 | 04/27/2022 |               |  |  |  |
| Sodium                   |        |           | 0.0500 | S     | 48.7   | 2.500 | 47.92       | 32.8  | 49.64       | 1.83 | 03/29/2022 |               |  |  |  |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22030530

Client Project: Hennepin Q1 Groundwater

Report Date: 01-Jun-22

### SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 189006 SampType: MBLK Units mg/L

SampleID: MBLK-189006

| Analyses   | Cert | RL     | Qual | Result   | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|------------|------|--------|------|----------|--------|-------------|-------|-----------|------------|---------------|
| Arsenic    |      | 0.0250 |      | < 0.0250 | 0.0087 | 0           | 0     | -100      | 100        | 03/28/2022    |
| Barium     |      | 0.0025 |      | < 0.0025 | 0.0007 | 0           | 0     | -100      | 100        | 03/28/2022    |
| Beryllium  |      | 0.0005 |      | < 0.0005 | 0.0002 | 0           | 0     | -100      | 100        | 03/28/2022    |
| Cadmium    |      | 0.0020 |      | < 0.0020 | 0.0005 | 0           | 0     | -100      | 100        | 03/28/2022    |
| Calcium    |      | 0.100  |      | < 0.100  | 0.0350 | 0           | 0     | -100      | 100        | 03/28/2022    |
| Chromium   |      | 0.0050 |      | < 0.0050 | 0.0028 | 0           | 0     | -100      | 100        | 03/28/2022    |
| Cobalt     |      | 0.0050 |      | < 0.0050 | 0.0020 | 0           | 0     | -100      | 100        | 03/28/2022    |
| Lead       |      | 0.0150 |      | < 0.0150 | 0.0040 | 0           | 0     | -100      | 100        | 03/28/2022    |
| Magnesium  |      | 0.0500 |      | < 0.0500 | 0.0055 | 0           | 0     | -100      | 100        | 03/28/2022    |
| Molybdenum |      | 0.0100 |      | < 0.0100 | 0.0037 | 0           | 0     | -100      | 100        | 03/28/2022    |
| Potassium  |      | 0.100  | JS   | 0.045    | 0.0400 | 0           | 111.8 | -100      | 100        | 03/28/2022    |
| Selenium   |      | 0.0400 |      | < 0.0400 | 0.0170 | 0           | 0     | -100      | 100        | 03/28/2022    |
| Sodium     |      | 0.0500 |      | < 0.0500 | 0.0180 | 0           | 0     | -100      | 100        | 03/28/2022    |
| Thallium   |      | 0.0500 |      | < 0.0500 | 0.0111 | 0           | 0     | -100      | 100        | 03/28/2022    |

Batch 189006 SampType: LCS Units mg/L

SampleID: LCS-189006

| Analyses   | Cert | RL     | Qual | Result | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|------------|------|--------|------|--------|--------|-------------|-------|-----------|------------|---------------|
| Arsenic    |      | 0.0250 |      | 0.533  | 0.5000 | 0           | 106.6 | 85        | 115        | 03/28/2022    |
| Barium     |      | 0.0025 |      | 2.09   | 2.000  | 0           | 104.3 | 85        | 115        | 03/28/2022    |
| Beryllium  |      | 0.0005 |      | 0.0516 | 0.0500 | 0           | 103.2 | 85        | 115        | 03/28/2022    |
| Cadmium    |      | 0.0020 |      | 0.0502 | 0.0500 | 0           | 100.4 | 85        | 115        | 03/28/2022    |
| Calcium    |      | 0.100  |      | 2.59   | 2.500  | 0           | 103.6 | 85        | 115        | 03/28/2022    |
| Chromium   |      | 0.0050 |      | 0.202  | 0.2000 | 0           | 100.8 | 85        | 115        | 03/28/2022    |
| Cobalt     |      | 0.0050 |      | 0.514  | 0.5000 | 0           | 102.7 | 85        | 115        | 03/28/2022    |
| Lead       |      | 0.0150 |      | 0.500  | 0.5000 | 0           | 99.9  | 85        | 115        | 03/28/2022    |
| Magnesium  |      | 0.0500 |      | 2.66   | 2.500  | 0           | 106.6 | 85        | 115        | 03/28/2022    |
| Molybdenum |      | 0.0100 |      | 0.514  | 0.5000 | 0           | 102.7 | 85        | 115        | 03/28/2022    |
| Potassium  |      | 0.100  | B    | 2.44   | 2.500  | 0           | 97.6  | 85        | 115        | 03/28/2022    |
| Selenium   |      | 0.0400 |      | 0.504  | 0.5000 | 0           | 100.8 | 85        | 115        | 03/28/2022    |
| Sodium     |      | 0.0500 |      | 2.38   | 2.500  | 0           | 95.3  | 85        | 115        | 03/28/2022    |
| Thallium   |      | 0.0500 |      | 0.257  | 0.2500 | 0           | 102.9 | 85        | 115        | 03/28/2022    |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22030530

Client Project: Hennepin Q1 Groundwater

Report Date: 01-Jun-22

### SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 189006 SampType: MS Units mg/L

SampleID: 22030530-047BMS

| Analyses  | Cert | RL     | Qual | Result | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|-----------|------|--------|------|--------|-------|-------------|-------|-----------|------------|---------------|
| Calcium   |      | 0.100  |      | 102    | 2.500 | 100.2       | 88.0  | 75        | 125        | 03/29/2022    |
| Magnesium |      | 0.0500 |      | 3.13   | 2.500 | 0.4110      | 108.8 | 75        | 125        | 03/29/2022    |
| Potassium |      | 1.00   | B    | 28.5   | 2.500 | 25.75       | 111.6 | 75        | 125        | 03/30/2022    |
| Sodium    |      | 0.0500 | S    | 124    | 2.500 | 123.0       | 60.0  | 75        | 125        | 03/29/2022    |

Batch 189006 SampType: MSD Units mg/L

RPD Limit: 20

SampleID: 22030530-047BMSD

| Analyses  | Cert | RL     | Qual | Result | Spike | SPK Ref Val | %REC  | RPD Ref Val | %RPD | Date Analyzed |
|-----------|------|--------|------|--------|-------|-------------|-------|-------------|------|---------------|
| Calcium   |      | 0.100  |      | 103    | 2.500 | 100.2       | 104.0 | 102.4       | 0.39 | 03/29/2022    |
| Magnesium |      | 0.0500 |      | 3.10   | 2.500 | 0.4110      | 107.6 | 3.132       | 0.99 | 03/29/2022    |
| Potassium |      | 1.00   | B    | 28.2   | 2.500 | 25.75       | 97.6  | 28.54       | 1.23 | 03/30/2022    |
| Sodium    |      | 0.0500 |      | 125    | 2.500 | 123.0       | 80.0  | 124.5       | 0.40 | 03/29/2022    |

Batch 191095 SampType: MBLK Units mg/L

SampleID: MBLK-191095

| Analyses   | Cert | RL     | Qual | Result   | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|------------|------|--------|------|----------|--------|-------------|------|-----------|------------|---------------|
| Calcium    |      | 0.100  |      | < 0.100  | 0.0350 | 0           | 0    | -100      | 100        | 04/27/2022    |
| Molybdenum |      | 0.0100 |      | < 0.0100 | 0.0037 | 0           | 0    | -100      | 100        | 04/27/2022    |
| Potassium  |      | 0.100  |      | < 0.100  | 0.0400 | 0           | 0    | -100      | 100        | 04/27/2022    |
| Selenium   |      | 0.0400 |      | < 0.0400 | 0.0170 | 0           | 0    | -100      | 100        | 04/27/2022    |
| Sodium     |      | 0.0500 |      | < 0.0500 | 0.0180 | 0           | 0    | -100      | 100        | 04/27/2022    |
| Thallium   |      | 0.0500 |      | < 0.0500 | 0.0111 | 0           | 0    | -100      | 100        | 04/27/2022    |

Batch 191095 SampType: LCS Units mg/L

SampleID: LCS-191095

| Analyses   | Cert | RL     | Qual | Result | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|------------|------|--------|------|--------|--------|-------------|-------|-----------|------------|---------------|
| Calcium    |      | 0.100  |      | 2.69   | 2.500  | 0           | 107.6 | 85        | 115        | 04/27/2022    |
| Molybdenum |      | 0.0100 |      | 0.523  | 0.5000 | 0           | 104.6 | 85        | 115        | 04/27/2022    |
| Potassium  |      | 0.100  |      | 2.61   | 2.500  | 0           | 104.2 | 85        | 115        | 04/27/2022    |
| Selenium   |      | 0.0400 |      | 0.537  | 0.5000 | 0           | 107.4 | 85        | 115        | 04/27/2022    |
| Sodium     |      | 0.0500 |      | 2.62   | 2.500  | 0           | 104.6 | 85        | 115        | 04/27/2022    |
| Thallium   |      | 0.0500 |      | 0.266  | 0.2500 | 0           | 106.3 | 85        | 115        | 04/27/2022    |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22030530

Client Project: Hennepin Q1 Groundwater

Report Date: 01-Jun-22

### SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

| Batch 189014        |      | SampType: MBLK |      | Units mg/L |        |             |      |           |            |            | Date Analyzed |  |
|---------------------|------|----------------|------|------------|--------|-------------|------|-----------|------------|------------|---------------|--|
| SampID: MBLK-189014 |      |                |      |            |        |             |      |           |            |            |               |  |
| Analyses            | Cert | RL             | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit |            |               |  |
| Aluminum            |      | 0.0250         |      | < 0.0250   | 0.0125 | 0           | 0    | -100      | 100        | 03/31/2022 |               |  |
| Antimony            |      | 0.0010         |      | < 0.0010   | 0.0004 | 0           | 0    | -100      | 100        | 03/31/2022 |               |  |
| Arsenic             |      | 0.0010         |      | < 0.0010   | 0.0004 | 0           | 0    | -100      | 100        | 03/31/2022 |               |  |
| Barium              |      | 0.0010         |      | < 0.0010   | 0.0007 | 0           | 0    | -100      | 100        | 03/31/2022 |               |  |
| Beryllium           |      | 0.0010         |      | < 0.0010   | 0.0002 | 0           | 0    | -100      | 100        | 03/31/2022 |               |  |
| Boron               |      | 0.0250         |      | < 0.0250   | 0.0105 | 0           | 0    | -100      | 100        | 03/31/2022 |               |  |
| Cadmium             |      | 0.0010         |      | < 0.0010   | 0.0001 | 0           | 0    | -100      | 100        | 03/31/2022 |               |  |
| Chromium            |      | 0.0015         |      | < 0.0015   | 0.0007 | 0           | 0    | -100      | 100        | 03/31/2022 |               |  |
| Cobalt              |      | 0.0010         |      | < 0.0010   | 0.0001 | 0           | 0    | -100      | 100        | 03/31/2022 |               |  |
| Copper              |      | 0.0010         |      | < 0.0010   | 0.0003 | 0           | 0    | -100      | 100        | 03/31/2022 |               |  |
| Iron                |      | 0.0250         |      | < 0.0250   | 0.0115 | 0           | 0    | -100      | 100        | 03/31/2022 |               |  |
| Lead                |      | 0.0010         |      | < 0.0010   | 0.0006 | 0           | 0    | -100      | 100        | 03/31/2022 |               |  |
| Manganese           |      | 0.0020         |      | < 0.0020   | 0.0008 | 0           | 0    | -100      | 100        | 03/31/2022 |               |  |
| Molybdenum          |      | 0.0015         |      | < 0.0015   | 0.0006 | 0           | 0    | -100      | 100        | 03/31/2022 |               |  |
| Nickel              |      | 0.0010         |      | < 0.0010   | 0.0004 | 0           | 0    | -100      | 100        | 03/31/2022 |               |  |
| Selenium            |      | 0.0010         |      | < 0.0010   | 0.0006 | 0           | 0    | -100      | 100        | 03/31/2022 |               |  |
| Silver              |      | 0.0010         |      | < 0.0010   | 0.0001 | 0           | 0    | -100      | 100        | 03/31/2022 |               |  |
| Thallium            |      | 0.0020         |      | < 0.0020   | 0.0010 | 0           | 0    | -100      | 100        | 03/31/2022 |               |  |
| Vanadium            |      | 0.0050         |      | < 0.0050   | 0.0028 | 0           | 0    | -100      | 100        | 03/31/2022 |               |  |
| Zinc                |      | 0.0150         |      | < 0.0150   | 0.0059 | 0           | 0    | -100      | 100        | 04/01/2022 |               |  |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22030530

Client Project: Hennepin Q1 Groundwater

Report Date: 01-Jun-22

### SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 189014 SampType: LCS

Units mg/L

SampleID: LCS-189014

| Analyses   | Cert | RL     | Qual | Result | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|------------|------|--------|------|--------|--------|-------------|------|-----------|------------|---------------|
| Aluminum   |      | 0.0250 |      | 1.88   | 2.000  | 0           | 94.0 | 80        | 120        | 03/31/2022    |
| Antimony   |      | 0.0010 |      | 0.482  | 0.5000 | 0           | 96.3 | 80        | 120        | 03/31/2022    |
| Arsenic    |      | 0.0010 |      | 0.483  | 0.5000 | 0           | 96.7 | 80        | 120        | 03/31/2022    |
| Barium     |      | 0.0010 |      | 1.96   | 2.000  | 0           | 98.0 | 80        | 120        | 03/31/2022    |
| Beryllium  |      | 0.0010 |      | 0.0473 | 0.0500 | 0           | 94.6 | 80        | 120        | 03/31/2022    |
| Boron      |      | 0.0250 |      | 0.499  | 0.5000 | 0           | 99.8 | 80        | 120        | 03/31/2022    |
| Cadmium    |      | 0.0010 |      | 0.0460 | 0.0500 | 0           | 91.9 | 80        | 120        | 03/31/2022    |
| Chromium   |      | 0.0015 |      | 0.192  | 0.2000 | 0           | 95.9 | 80        | 120        | 03/31/2022    |
| Cobalt     |      | 0.0010 |      | 0.478  | 0.5000 | 0           | 95.7 | 80        | 120        | 03/31/2022    |
| Copper     |      | 0.0010 |      | 0.245  | 0.2500 | 0           | 97.9 | 80        | 120        | 03/31/2022    |
| Iron       |      | 0.0250 |      | 1.78   | 2.000  | 0           | 88.9 | 80        | 120        | 03/31/2022    |
| Lead       |      | 0.0010 |      | 0.493  | 0.5000 | 0           | 98.6 | 80        | 120        | 03/31/2022    |
| Manganese  |      | 0.0020 |      | 0.486  | 0.5000 | 0           | 97.2 | 80        | 120        | 03/31/2022    |
| Molybdenum |      | 0.0015 |      | 0.474  | 0.5000 | 0           | 94.7 | 80        | 120        | 03/31/2022    |
| Nickel     |      | 0.0010 |      | 0.478  | 0.5000 | 0           | 95.7 | 80        | 120        | 03/31/2022    |
| Selenium   |      | 0.0010 |      | 0.456  | 0.5000 | 0           | 91.2 | 80        | 120        | 03/31/2022    |
| Silver     |      | 0.0010 |      | 0.0475 | 0.0500 | 0           | 95.0 | 80        | 120        | 03/31/2022    |
| Thallium   |      | 0.0020 |      | 0.245  | 0.2500 | 0           | 97.9 | 80        | 120        | 03/31/2022    |
| Vanadium   |      | 0.0050 |      | 0.482  | 0.5000 | 0           | 96.4 | 80        | 120        | 03/31/2022    |
| Zinc       |      | 0.0150 |      | 0.455  | 0.5000 | 0           | 91.1 | 80        | 120        | 04/01/2022    |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22030530

Client Project: Hennepin Q1 Groundwater

Report Date: 01-Jun-22

### SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 189014 SampType: MS

Units mg/L

SampleID: 22030530-007DMS

| Analyses  | Cert | RL     | Qual | Result        | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|-----------|------|--------|------|---------------|--------|-------------|------|-----------|------------|---------------|
| Antimony  |      | 0.0010 |      | <b>0.466</b>  | 0.5000 | 0           | 93.2 | 75        | 125        | 03/31/2022    |
| Arsenic   |      | 0.0010 |      | <b>0.455</b>  | 0.5000 | 0           | 91.1 | 75        | 125        | 03/31/2022    |
| Barium    |      | 0.0010 |      | <b>1.97</b>   | 2.000  | 0.09428     | 93.6 | 75        | 125        | 03/31/2022    |
| Beryllium |      | 0.0010 |      | <b>0.0447</b> | 0.0500 | 0           | 89.5 | 75        | 125        | 03/31/2022    |
| Boron     |      | 0.0250 |      | <b>0.516</b>  | 0.5000 | 0.05738     | 91.7 | 75        | 125        | 03/31/2022    |
| Cadmium   |      | 0.0010 |      | <b>0.0437</b> | 0.0500 | 0           | 87.4 | 75        | 125        | 03/31/2022    |
| Chromium  |      | 0.0015 |      | <b>0.179</b>  | 0.2000 | 0           | 89.3 | 75        | 125        | 03/31/2022    |
| Cobalt    |      | 0.0010 |      | <b>0.434</b>  | 0.5000 | 0.001421    | 86.5 | 75        | 125        | 03/31/2022    |
| Copper    |      | 0.0010 |      | <b>0.217</b>  | 0.2500 | 0.002596    | 85.9 | 75        | 125        | 03/31/2022    |
| Iron      |      | 0.0250 |      | <b>1.67</b>   | 2.000  | 0           | 83.5 | 75        | 125        | 03/31/2022    |
| Lead      |      | 0.0010 |      | <b>0.461</b>  | 0.5000 | 0           | 92.2 | 75        | 125        | 03/31/2022    |
| Manganese |      | 0.0020 |      | <b>0.450</b>  | 0.5000 | 0           | 90.0 | 75        | 125        | 03/31/2022    |
| Nickel    |      | 0.0010 |      | <b>0.431</b>  | 0.5000 | 0.006568    | 84.9 | 75        | 125        | 03/31/2022    |
| Selenium  |      | 0.0010 |      | <b>0.425</b>  | 0.5000 | 0           | 85.0 | 75        | 125        | 03/31/2022    |
| Silver    |      | 0.0010 |      | <b>0.0442</b> | 0.0500 | 0           | 88.3 | 75        | 125        | 03/31/2022    |
| Thallium  |      | 0.0020 |      | <b>0.231</b>  | 0.2500 | 0           | 92.4 | 75        | 125        | 03/31/2022    |
| Vanadium  |      | 0.0050 |      | <b>0.456</b>  | 0.5000 | 0           | 91.2 | 75        | 125        | 03/31/2022    |
| Zinc      |      | 0.0150 |      | <b>0.407</b>  | 0.5000 | 0           | 81.5 | 75        | 125        | 04/01/2022    |





## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22030530

Client Project: Hennepin Q1 Groundwater

Report Date: 01-Jun-22

### SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

| Batch 189014               |      | SampType: MSD |      | Units mg/L |        |             |      | RPD Limit: 20 |       |               |
|----------------------------|------|---------------|------|------------|--------|-------------|------|---------------|-------|---------------|
| SampleID: 22030530-007DMSD |      |               |      |            |        |             |      |               |       |               |
| Analyses                   | Cert | RL            | Qual | Result     | Spike  | SPK Ref Val | %REC | RPD Ref Val   | %RPD  | Date Analyzed |
| Antimony                   |      | 0.0010        |      | 0.463      | 0.5000 | 0           | 92.5 | 0.4660        | 0.76  | 03/31/2022    |
| Arsenic                    |      | 0.0010        |      | 0.461      | 0.5000 | 0           | 92.2 | 0.4554        | 1.18  | 03/31/2022    |
| Barium                     |      | 0.0010        |      | 2.00       | 2.000  | 0.09428     | 95.1 | 1.966         | 1.56  | 03/31/2022    |
| Beryllium                  |      | 0.0010        |      | 0.0459     | 0.0500 | 0           | 91.9 | 0.04475       | 2.63  | 03/31/2022    |
| Boron                      |      | 0.0250        |      | 0.529      | 0.5000 | 0.05738     | 94.3 | 0.5157        | 2.49  | 03/31/2022    |
| Cadmium                    |      | 0.0010        |      | 0.0437     | 0.0500 | 0           | 87.4 | 0.04368       | 0.03  | 03/31/2022    |
| Chromium                   |      | 0.0015        |      | 0.182      | 0.2000 | 0           | 90.9 | 0.1787        | 1.76  | 03/31/2022    |
| Cobalt                     |      | 0.0010        |      | 0.442      | 0.5000 | 0.001421    | 88.1 | 0.4337        | 1.83  | 03/31/2022    |
| Copper                     |      | 0.0010        |      | 0.222      | 0.2500 | 0.002596    | 87.9 | 0.2174        | 2.24  | 03/31/2022    |
| Iron                       |      | 0.0250        |      | 1.69       | 2.000  | 0           | 84.5 | 1.669         | 1.28  | 03/31/2022    |
| Lead                       |      | 0.0010        |      | 0.479      | 0.5000 | 0           | 95.7 | 0.4610        | 3.76  | 03/31/2022    |
| Manganese                  |      | 0.0020        |      | 0.459      | 0.5000 | 0           | 91.8 | 0.4501        | 1.93  | 03/31/2022    |
| Nickel                     |      | 0.0010        |      | 0.440      | 0.5000 | 0.006568    | 86.7 | 0.4312        | 2.04  | 03/31/2022    |
| Selenium                   |      | 0.0010        |      | 0.429      | 0.5000 | 0           | 85.9 | 0.4250        | 1.03  | 03/31/2022    |
| Silver                     |      | 0.0010        |      | 0.0437     | 0.0500 | 0           | 87.5 | 0.04416       | 0.93  | 03/31/2022    |
| Thallium                   |      | 0.0020        |      | 0.238      | 0.2500 | 0           | 95.3 | 0.2310        | 3.09  | 03/31/2022    |
| Vanadium                   |      | 0.0050        |      | 0.465      | 0.5000 | 0           | 92.9 | 0.4560        | 1.85  | 03/31/2022    |
| Zinc                       |      | 0.0150        |      | 0.484      | 0.5000 | 0           | 96.9 | 0.4074        | 17.24 | 04/01/2022    |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22030530

Client Project: Hennepin Q1 Groundwater

Report Date: 01-Jun-22

### SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

| Batch 189014            |      | SampType: MS |      | Units mg/L |        |             |       |           |            |  | Date Analyzed |
|-------------------------|------|--------------|------|------------|--------|-------------|-------|-----------|------------|--|---------------|
| SampID: 22030530-016DMS |      |              |      |            |        |             |       |           |            |  |               |
| Analyses                | Cert | RL           | Qual | Result     | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit |  | Date Analyzed |
| Antimony                |      | 0.0010       |      | 0.457      | 0.5000 | 0           | 91.4  | 75        | 125        |  | 04/04/2022    |
| Arsenic                 |      | 0.0010       |      | 0.471      | 0.5000 | 0           | 94.1  | 75        | 125        |  | 04/04/2022    |
| Barium                  |      | 0.0010       |      | 2.00       | 2.000  | 0.1234      | 93.7  | 75        | 125        |  | 04/04/2022    |
| Beryllium               |      | 0.0010       |      | 0.0441     | 0.0500 | 0           | 88.1  | 75        | 125        |  | 04/04/2022    |
| Boron                   |      | 0.0250       |      | 0.619      | 0.5000 | 0.1510      | 93.6  | 75        | 125        |  | 04/05/2022    |
| Cadmium                 |      | 0.0010       |      | 0.0445     | 0.0500 | 0           | 89.1  | 75        | 125        |  | 04/04/2022    |
| Chromium                |      | 0.0015       | S    | 0.258      | 0.2000 | 0.001129    | 128.4 | 75        | 125        |  | 03/31/2022    |
| Cobalt                  |      | 0.0010       |      | 0.622      | 0.5000 | 0           | 124.3 | 75        | 125        |  | 03/31/2022    |
| Copper                  |      | 0.0010       |      | 0.307      | 0.2500 | 0.002698    | 121.9 | 75        | 125        |  | 03/31/2022    |
| Iron                    |      | 0.0250       | S    | 2.58       | 2.000  | 0.01394     | 128.2 | 75        | 125        |  | 03/31/2022    |
| Lead                    |      | 0.0010       |      | 0.475      | 0.5000 | 0           | 95.0  | 75        | 125        |  | 04/04/2022    |
| Manganese               |      | 0.0020       | S    | 0.651      | 0.5000 | 0.001296    | 130.0 | 75        | 125        |  | 03/31/2022    |
| Nickel                  |      | 0.0010       |      | 0.608      | 0.5000 | 0.001095    | 121.3 | 75        | 125        |  | 03/31/2022    |
| Selenium                |      | 0.0010       |      | 0.583      | 0.5000 | 0           | 116.7 | 75        | 125        |  | 03/31/2022    |
| Silver                  |      | 0.0010       |      | 0.0576     | 0.0500 | 0           | 115.2 | 75        | 125        |  | 03/31/2022    |
| Thallium                |      | 0.0020       |      | 0.307      | 0.2500 | 0           | 122.8 | 75        | 125        |  | 03/31/2022    |
| Vanadium                |      | 0.0050       |      | 0.476      | 0.5000 | 0           | 95.2  | 75        | 125        |  | 04/04/2022    |
| Zinc                    |      | 0.0150       |      | 0.430      | 0.5000 | 0           | 85.9  | 75        | 125        |  | 04/05/2022    |

**Client:** Ramboll

**Work Order:** 22030530

**Client Project:** Hennepin Q1 Groundwater

**Report Date:** 01-Jun-22

### SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

| Batch 189014               |      | SampType: MSD |      | Units mg/L |        |             |       | RPD Limit: 20 |      |               |
|----------------------------|------|---------------|------|------------|--------|-------------|-------|---------------|------|---------------|
| SampleID: 22030530-016DMSD |      |               |      |            |        |             |       |               |      |               |
| Analyses                   | Cert | RL            | Qual | Result     | Spike  | SPK Ref Val | %REC  | RPD Ref Val   | %RPD | Date Analyzed |
| Antimony                   |      | 0.0010        |      | 0.462      | 0.5000 | 0           | 92.3  | 0.4572        | 0.95 | 04/04/2022    |
| Arsenic                    |      | 0.0010        |      | 0.471      | 0.5000 | 0           | 94.2  | 0.4706        | 0.03 | 04/04/2022    |
| Barium                     |      | 0.0010        |      | 2.00       | 2.000  | 0.1234      | 93.9  | 1.997         | 0.21 | 04/04/2022    |
| Beryllium                  |      | 0.0010        |      | 0.0439     | 0.0500 | 0           | 87.8  | 0.04405       | 0.40 | 04/04/2022    |
| Boron                      |      | 0.0250        |      | 0.642      | 0.5000 | 0.1510      | 98.3  | 0.6189        | 3.72 | 04/05/2022    |
| Cadmium                    |      | 0.0010        |      | 0.0452     | 0.0500 | 0           | 90.5  | 0.04453       | 1.57 | 04/04/2022    |
| Chromium                   |      | 0.0015        | S    | 0.253      | 0.2000 | 0.001129    | 126.2 | 0.2580        | 1.78 | 03/31/2022    |
| Cobalt                     |      | 0.0010        |      | 0.614      | 0.5000 | 0           | 122.7 | 0.6216        | 1.29 | 03/31/2022    |
| Copper                     |      | 0.0010        |      | 0.305      | 0.2500 | 0.002698    | 120.9 | 0.3075        | 0.83 | 03/31/2022    |
| Iron                       |      | 0.0250        | S    | 2.55       | 2.000  | 0.01394     | 126.7 | 2.578         | 1.16 | 03/31/2022    |
| Lead                       |      | 0.0010        |      | 0.465      | 0.5000 | 0           | 93.1  | 0.4748        | 1.99 | 04/04/2022    |
| Manganese                  |      | 0.0020        | S    | 0.638      | 0.5000 | 0.001296    | 127.3 | 0.6514        | 2.11 | 03/31/2022    |
| Nickel                     |      | 0.0010        |      | 0.601      | 0.5000 | 0.001095    | 120.0 | 0.6077        | 1.13 | 03/31/2022    |
| Selenium                   |      | 0.0010        |      | 0.576      | 0.5000 | 0           | 115.2 | 0.5835        | 1.31 | 03/31/2022    |
| Silver                     |      | 0.0010        |      | 0.0586     | 0.0500 | 0           | 117.2 | 0.05759       | 1.72 | 03/31/2022    |
| Thallium                   |      | 0.0020        |      | 0.304      | 0.2500 | 0           | 121.7 | 0.3069        | 0.88 | 03/31/2022    |
| Vanadium                   |      | 0.0050        |      | 0.466      | 0.5000 | 0           | 93.2  | 0.4758        | 2.12 | 04/04/2022    |
| Zinc                       |      | 0.0150        |      | 0.463      | 0.5000 | 0           | 92.6  | 0.4296        | 7.44 | 04/05/2022    |

**Client:** Ramboll

**Work Order:** 22030530

**Client Project:** Hennepin Q1 Groundwater

**Report Date:** 01-Jun-22

### SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

| Batch 189015        |      | SampType: MBLK |      | Units mg/L |        |             |      |           |            |  | Date Analyzed |  |
|---------------------|------|----------------|------|------------|--------|-------------|------|-----------|------------|--|---------------|--|
| SampID: MBLK-189015 |      |                |      |            |        |             |      |           |            |  |               |  |
| Analyses            | Cert | RL             | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit |  |               |  |
| Aluminum            |      | 0.0250         |      | < 0.0250   | 0.0125 | 0           | 0    | -100      | 100        |  |               |  |
| Antimony            |      | 0.0010         |      | < 0.0010   | 0.0004 | 0           | 0    | -100      | 100        |  |               |  |
| Arsenic             |      | 0.0010         |      | < 0.0010   | 0.0004 | 0           | 0    | -100      | 100        |  |               |  |
| Barium              |      | 0.0010         |      | < 0.0010   | 0.0007 | 0           | 0    | -100      | 100        |  |               |  |
| Beryllium           |      | 0.0010         |      | < 0.0010   | 0.0002 | 0           | 0    | -100      | 100        |  |               |  |
| Boron               |      | 0.0250         |      | < 0.0250   | 0.0093 | 0           | 0    | -100      | 100        |  |               |  |
| Boron               |      | 0.0250         |      | < 0.0250   | 0.0093 | 0           | 0    | -100      | 100        |  |               |  |
| Cadmium             |      | 0.0010         |      | < 0.0010   | 0.0001 | 0           | 0    | -100      | 100        |  |               |  |
| Chromium            |      | 0.0015         |      | < 0.0015   | 0.0007 | 0           | 0    | -100      | 100        |  |               |  |
| Cobalt              |      | 0.0010         |      | < 0.0010   | 0.0001 | 0           | 0    | -100      | 100        |  |               |  |
| Copper              |      | 0.0010         |      | < 0.0010   | 0.0003 | 0           | 0    | -100      | 100        |  |               |  |
| Iron                |      | 0.0250         |      | < 0.0250   | 0.0115 | 0           | 0    | -100      | 100        |  |               |  |
| Lead                |      | 0.0010         |      | < 0.0010   | 0.0006 | 0           | 0    | -100      | 100        |  |               |  |
| Manganese           |      | 0.0020         |      | < 0.0020   | 0.0008 | 0           | 0    | -100      | 100        |  |               |  |
| Molybdenum          |      | 0.0015         |      | < 0.0015   | 0.0006 | 0           | 0    | -100      | 100        |  |               |  |
| Nickel              |      | 0.0010         |      | < 0.0010   | 0.0004 | 0           | 0    | -100      | 100        |  |               |  |
| Selenium            |      | 0.0010         |      | < 0.0010   | 0.0006 | 0           | 0    | -100      | 100        |  |               |  |
| Silver              |      | 0.0010         |      | < 0.0010   | 0.0001 | 0           | 0    | -100      | 100        |  |               |  |
| Thallium            |      | 0.0020         |      | < 0.0020   | 0.0010 | 0           | 0    | -100      | 100        |  |               |  |
| Vanadium            |      | 0.0050         |      | < 0.0050   | 0.0028 | 0           | 0    | -100      | 100        |  |               |  |
| Zinc                |      | 0.0150         |      | < 0.0150   | 0.0059 | 0           | 0    | -100      | 100        |  |               |  |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22030530

Client Project: Hennepin Q1 Groundwater

Report Date: 01-Jun-22

### SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

| Batch 189015       |      | SampType: LCS |      | Units mg/L |        |             |      |           |            |               |
|--------------------|------|---------------|------|------------|--------|-------------|------|-----------|------------|---------------|
| SampID: LCS-189015 |      |               |      |            |        |             |      |           |            |               |
| Analyses           | Cert | RL            | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
| Aluminum           |      | 0.0250        |      | 1.94       | 2.000  | 0           | 96.9 | 80        | 120        | 04/01/2022    |
| Antimony           |      | 0.0010        |      | 0.483      | 0.5000 | 0           | 96.7 | 80        | 120        | 04/01/2022    |
| Arsenic            |      | 0.0010        |      | 0.469      | 0.5000 | 0           | 93.8 | 80        | 120        | 04/01/2022    |
| Barium             |      | 0.0010        |      | 1.96       | 2.000  | 0           | 98.1 | 80        | 120        | 04/01/2022    |
| Beryllium          |      | 0.0010        |      | 0.0468     | 0.0500 | 0           | 93.6 | 80        | 120        | 04/01/2022    |
| Boron              |      | 0.0250        |      | 0.475      | 0.5000 | 0           | 94.9 | 80        | 120        | 03/30/2022    |
| Cadmium            |      | 0.0010        |      | 0.0462     | 0.0500 | 0           | 92.5 | 80        | 120        | 04/01/2022    |
| Chromium           |      | 0.0015        |      | 0.190      | 0.2000 | 0           | 94.8 | 80        | 120        | 04/01/2022    |
| Cobalt             |      | 0.0010        |      | 0.466      | 0.5000 | 0           | 93.2 | 80        | 120        | 04/01/2022    |
| Copper             |      | 0.0010        |      | 0.237      | 0.2500 | 0           | 94.8 | 80        | 120        | 04/01/2022    |
| Iron               |      | 0.0250        |      | 1.74       | 2.000  | 0           | 87.0 | 80        | 120        | 04/01/2022    |
| Lead               |      | 0.0010        |      | 0.493      | 0.5000 | 0           | 98.7 | 80        | 120        | 04/01/2022    |
| Manganese          |      | 0.0020        |      | 0.479      | 0.5000 | 0           | 95.8 | 80        | 120        | 04/01/2022    |
| Molybdenum         |      | 0.0015        |      | 0.460      | 0.5000 | 0           | 92.0 | 80        | 120        | 04/01/2022    |
| Nickel             |      | 0.0010        |      | 0.460      | 0.5000 | 0           | 92.1 | 80        | 120        | 04/01/2022    |
| Selenium           |      | 0.0010        |      | 0.447      | 0.5000 | 0           | 89.4 | 80        | 120        | 04/01/2022    |
| Silver             |      | 0.0010        |      | 0.0463     | 0.0500 | 0           | 92.5 | 80        | 120        | 04/01/2022    |
| Thallium           |      | 0.0020        |      | 0.243      | 0.2500 | 0           | 97.1 | 80        | 120        | 04/01/2022    |
| Vanadium           |      | 0.0050        |      | 0.477      | 0.5000 | 0           | 95.3 | 80        | 120        | 04/01/2022    |
| Zinc               |      | 0.0150        |      | 0.490      | 0.5000 | 0           | 98.1 | 80        | 120        | 04/01/2022    |

| Batch 189015            |      | SampType: MS |      | Units mg/L |        |             |       |           |            |            |               |
|-------------------------|------|--------------|------|------------|--------|-------------|-------|-----------|------------|------------|---------------|
| SampID: 22030530-033DMS |      |              |      |            |        |             |       |           |            |            | Date Analyzed |
| Analyses                | Cert | RL           | Qual | Result     | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit |            |               |
| Boron                   |      | 0.0250       | S    | 10.1       | 0.5000 | 9.026       | 217.4 | 75        | 125        | 03/30/2022 |               |

| Batch 189015             |  | SampType: MSD |        | Units mg/L |        |        |             | RPD Limit: 20 |             |      |               |
|--------------------------|--|---------------|--------|------------|--------|--------|-------------|---------------|-------------|------|---------------|
| SampID: 22030530-033DMSD |  |               |        |            |        |        |             |               |             |      |               |
| Analyses                 |  | Cert          | RL     | Qual       | Result | Spike  | SPK Ref Val | %REC          | RPD Ref Val | %RPD | Date Analyzed |
| Boron                    |  |               | 0.0250 | S          | 9.35   | 0.5000 | 9.026       | 65.1          | 10.11       | 7.83 | 03/30/2022    |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22030530

Client Project: Hennepin Q1 Groundwater

Report Date: 01-Jun-22

### SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

| Batch 190778       |      | SampType: LCS |      | Units mg/L |        |             |      |           |            |               |
|--------------------|------|---------------|------|------------|--------|-------------|------|-----------|------------|---------------|
| SampID: LCS-190778 |      |               |      |            |        |             |      |           |            |               |
| Analyses           | Cert | RL            | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
| Boron              |      | 0.0250        |      | 0.450      | 0.5000 | 0           | 90.1 | 80        | 120        | 04/22/2022    |
| Iron               |      | 0.0250        |      | 1.86       | 2.000  | 0           | 92.8 | 80        | 120        | 04/22/2022    |
| Manganese          |      | 0.0020        |      | 0.467      | 0.5000 | 0           | 93.4 | 80        | 120        | 04/22/2022    |

### SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

| Batch 188963        |      | SampType: MBLK |      | Units mg/L |        |             |      |           |            |            | Date Analyzed |
|---------------------|------|----------------|------|------------|--------|-------------|------|-----------|------------|------------|---------------|
| SampID: MBLK-188963 |      |                |      |            |        |             |      |           |            |            |               |
| Analyses            | Cert | RL             | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit |            |               |
| Antimony            |      | 0.0010         |      | < 0.0010   | 0.0004 | 0           | 0    | -100      | 100        | 03/26/2022 |               |
| Arsenic             |      | 0.0010         |      | < 0.0010   | 0.0004 | 0           | 0    | -100      | 100        | 03/26/2022 |               |
| Barium              |      | 0.0010         |      | < 0.0010   | 0.0007 | 0           | 0    | -100      | 100        | 03/26/2022 |               |
| Beryllium           |      | 0.0010         |      | < 0.0010   | 0.0002 | 0           | 0    | -100      | 100        | 03/26/2022 |               |
| Boron               |      | 0.0250         |      | < 0.0250   | 0.0093 | 0           | 0    | -100      | 100        | 03/26/2022 |               |
| Cadmium             |      | 0.0010         |      | < 0.0010   | 0.0001 | 0           | 0    | -100      | 100        | 03/26/2022 |               |
| Chromium            |      | 0.0015         |      | < 0.0015   | 0.0007 | 0           | 0    | -100      | 100        | 03/26/2022 |               |
| Cobalt              |      | 0.0010         |      | < 0.0010   | 0.0001 | 0           | 0    | -100      | 100        | 03/26/2022 |               |
| Lead                |      | 0.0010         |      | < 0.0010   | 0.0006 | 0           | 0    | -100      | 100        | 03/26/2022 |               |
| Lithium             | *    | 0.0030         |      | < 0.0030   | 0.0015 | 0           | 0    | -100      | 100        | 03/26/2022 |               |
| Molybdenum          |      | 0.0015         |      | < 0.0015   | 0.0006 | 0           | 0    | -100      | 100        | 03/26/2022 |               |
| Selenium            |      | 0.0010         |      | < 0.0010   | 0.0006 | 0           | 0    | -100      | 100        | 03/26/2022 |               |
| Thallium            |      | 0.0020         |      | < 0.0020   | 0.0010 | 0           | 0    | -100      | 100        | 03/26/2022 |               |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22030530

Client Project: Hennepin Q1 Groundwater

Report Date: 01-Jun-22

### SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 188963 SampType: LCS Units mg/L

SampleID: LCS-188963

| Analyses   | Cert | RL     | Qual | Result | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|------------|------|--------|------|--------|--------|-------------|-------|-----------|------------|---------------|
| Antimony   |      | 0.0010 |      | 0.503  | 0.5000 | 0           | 100.7 | 80        | 120        | 03/29/2022    |
| Arsenic    |      | 0.0010 |      | 0.506  | 0.5000 | 0           | 101.2 | 80        | 120        | 03/29/2022    |
| Barium     |      | 0.0010 |      | 2.06   | 2.000  | 0           | 103.2 | 80        | 120        | 03/29/2022    |
| Beryllium  |      | 0.0010 |      | 0.0535 | 0.0500 | 0           | 107.0 | 80        | 120        | 03/31/2022    |
| Beryllium  |      | 0.0010 |      | 0.0455 | 0.0500 | 0           | 91.0  | 80        | 120        | 03/29/2022    |
| Boron      |      | 0.0250 |      | 0.517  | 0.5000 | 0           | 103.4 | 80        | 120        | 03/30/2022    |
| Cadmium    |      | 0.0010 |      | 0.0490 | 0.0500 | 0           | 98.0  | 80        | 120        | 03/29/2022    |
| Chromium   |      | 0.0015 |      | 0.202  | 0.2000 | 0           | 100.9 | 80        | 120        | 03/29/2022    |
| Chromium   |      | 0.0015 |      | 0.213  | 0.2000 | 0           | 106.6 | 80        | 120        | 03/31/2022    |
| Cobalt     |      | 0.0010 |      | 0.540  | 0.5000 | 0           | 107.9 | 80        | 120        | 03/31/2022    |
| Cobalt     |      | 0.0010 |      | 0.508  | 0.5000 | 0           | 101.6 | 80        | 120        | 03/29/2022    |
| Lead       |      | 0.0010 |      | 0.504  | 0.5000 | 0           | 100.8 | 80        | 120        | 03/29/2022    |
| Lithium    | *    | 0.0030 |      | 0.584  | 0.5000 | 0           | 116.8 | 80        | 120        | 04/01/2022    |
| Lithium    | *    | 0.0030 |      | 0.509  | 0.5000 | 0           | 101.8 | 80        | 120        | 03/29/2022    |
| Molybdenum |      | 0.0015 |      | 0.499  | 0.5000 | 0           | 99.8  | 80        | 120        | 03/29/2022    |
| Selenium   |      | 0.0010 |      | 0.467  | 0.5000 | 0           | 93.5  | 80        | 120        | 03/29/2022    |
| Thallium   |      | 0.0020 |      | 0.233  | 0.2500 | 0           | 93.2  | 80        | 120        | 03/29/2022    |

Batch 188963 SampType: MS Units mg/L

SampleID: 22030530-027CMS

| Analyses   | Cert | RL     | Qual | Result | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|------------|------|--------|------|--------|--------|-------------|-------|-----------|------------|---------------|
| Antimony   |      | 0.0010 |      | 0.552  | 0.5000 | 0           | 110.3 | 75        | 125        | 03/31/2022    |
| Arsenic    |      | 0.0010 |      | 0.539  | 0.5000 | 0.0005658   | 107.7 | 75        | 125        | 03/31/2022    |
| Barium     |      | 0.0010 |      | 2.26   | 2.000  | 0.08625     | 108.7 | 75        | 125        | 03/31/2022    |
| Beryllium  |      | 0.0010 |      | 0.0548 | 0.0500 | 0           | 109.5 | 75        | 125        | 03/31/2022    |
| Boron      |      | 0.0250 |      | 2.86   | 0.5000 | 2.408       | 89.7  | 75        | 125        | 04/06/2022    |
| Cadmium    |      | 0.0010 |      | 0.0530 | 0.0500 | 0.0004006   | 105.2 | 75        | 125        | 03/31/2022    |
| Chromium   |      | 0.0015 |      | 0.212  | 0.2000 | 0.0008341   | 105.4 | 75        | 125        | 03/31/2022    |
| Cobalt     |      | 0.0010 |      | 0.519  | 0.5000 | 0.002606    | 103.2 | 75        | 125        | 03/31/2022    |
| Lead       |      | 0.0010 |      | 0.499  | 0.5000 | 0.001241    | 99.5  | 75        | 125        | 03/29/2022    |
| Lithium    | *    | 0.0030 |      | 0.554  | 0.5000 | 0.02306     | 106.2 | 75        | 125        | 04/06/2022    |
| Molybdenum |      | 0.0015 |      | 0.542  | 0.5000 | 0.004277    | 107.5 | 75        | 125        | 03/31/2022    |
| Selenium   |      | 0.0010 |      | 0.496  | 0.5000 | 0           | 99.3  | 75        | 125        | 03/31/2022    |
| Thallium   |      | 0.0020 |      | 0.240  | 0.2500 | 0           | 96.1  | 75        | 125        | 03/29/2022    |

**Client:** Ramboll

**Work Order:** 22030530

**Client Project:** Hennepin Q1 Groundwater

**Report Date:** 01-Jun-22

**SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)**

| Batch 188963               |      | SampType: MSD |      | Units mg/L |        |             |       | RPD Limit: 20 |      |               |
|----------------------------|------|---------------|------|------------|--------|-------------|-------|---------------|------|---------------|
| SampleID: 22030530-027CMSD |      |               |      |            |        |             |       |               |      |               |
| Analyses                   | Cert | RL            | Qual | Result     | Spike  | SPK Ref Val | %REC  | RPD Ref Val   | %RPD | Date Analyzed |
| Antimony                   |      | 0.0010        |      | 0.562      | 0.5000 | 0           | 112.4 | 0.5516        | 1.90 | 03/31/2022    |
| Arsenic                    |      | 0.0010        |      | 0.558      | 0.5000 | 0.0005658   | 111.5 | 0.5392        | 3.41 | 03/31/2022    |
| Barium                     |      | 0.0010        |      | 2.33       | 2.000  | 0.08625     | 111.9 | 2.260         | 2.82 | 03/31/2022    |
| Beryllium                  |      | 0.0010        |      | 0.0559     | 0.0500 | 0           | 111.8 | 0.05477       | 2.00 | 03/31/2022    |
| Boron                      |      | 0.0250        |      | 3.01       | 0.5000 | 2.408       | 120.2 | 2.856         | 5.20 | 04/06/2022    |
| Cadmium                    |      | 0.0010        |      | 0.0539     | 0.0500 | 0.0004006   | 107.0 | 0.05300       | 1.72 | 03/31/2022    |
| Chromium                   |      | 0.0015        |      | 0.220      | 0.2000 | 0.0008341   | 109.7 | 0.2116        | 4.02 | 03/31/2022    |
| Cobalt                     |      | 0.0010        |      | 0.538      | 0.5000 | 0.002606    | 107.1 | 0.5186        | 3.65 | 03/31/2022    |
| Lead                       |      | 0.0010        |      | 0.528      | 0.5000 | 0.001241    | 105.3 | 0.4987        | 5.65 | 03/29/2022    |
| Lithium                    | *    | 0.0030        |      | 0.574      | 0.5000 | 0.02306     | 110.2 | 0.5539        | 3.53 | 04/06/2022    |
| Molybdenum                 |      | 0.0015        |      | 0.563      | 0.5000 | 0.004277    | 111.8 | 0.5420        | 3.83 | 03/31/2022    |
| Selenium                   |      | 0.0010        |      | 0.521      | 0.5000 | 0           | 104.1 | 0.4964        | 4.76 | 03/31/2022    |
| Thallium                   |      | 0.0020        |      | 0.256      | 0.2500 | 0           | 102.3 | 0.2403        | 6.24 | 03/29/2022    |

| Batch 188980          |      | SampType: MBLK |      | Units mg/L |        |             |      |           |            |            | Date Analyzed |  |
|-----------------------|------|----------------|------|------------|--------|-------------|------|-----------|------------|------------|---------------|--|
| SampleID: MBLK-188980 |      |                |      |            |        |             |      |           |            |            |               |  |
| Analyses              | Cert | RL             | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit |            |               |  |
| Antimony              |      | 0.0010         |      | < 0.0010   | 0.0004 | 0           | 0    | -100      | 100        | 03/26/2022 |               |  |
| Arsenic               |      | 0.0010         |      | < 0.0010   | 0.0004 | 0           | 0    | -100      | 100        | 03/26/2022 |               |  |
| Barium                |      | 0.0010         |      | < 0.0010   | 0.0007 | 0           | 0    | -100      | 100        | 03/26/2022 |               |  |
| Beryllium             |      | 0.0010         |      | < 0.0010   | 0.0002 | 0           | 0    | -100      | 100        | 03/26/2022 |               |  |
| Boron                 |      | 0.0250         |      | < 0.0250   | 0.0093 | 0           | 0    | -100      | 100        | 03/26/2022 |               |  |
| Cadmium               |      | 0.0010         |      | < 0.0010   | 0.0001 | 0           | 0    | -100      | 100        | 03/26/2022 |               |  |
| Chromium              |      | 0.0015         |      | < 0.0015   | 0.0007 | 0           | 0    | -100      | 100        | 03/26/2022 |               |  |
| Cobalt                |      | 0.0010         |      | < 0.0010   | 0.0001 | 0           | 0    | -100      | 100        | 03/26/2022 |               |  |
| Lead                  |      | 0.0010         |      | < 0.0010   | 0.0006 | 0           | 0    | -100      | 100        | 03/26/2022 |               |  |
| Lithium               | *    | 0.0030         |      | < 0.0030   | 0.0015 | 0           | 0    | -100      | 100        | 03/26/2022 |               |  |
| Molybdenum            |      | 0.0015         |      | < 0.0015   | 0.0006 | 0           | 0    | -100      | 100        | 03/26/2022 |               |  |
| Selenium              |      | 0.0010         |      | < 0.0010   | 0.0006 | 0           | 0    | -100      | 100        | 03/26/2022 |               |  |
| Thallium              |      | 0.0020         |      | < 0.0020   | 0.0010 | 0           | 0    | -100      | 100        | 03/26/2022 |               |  |





## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22030530

Client Project: Hennepin Q1 Groundwater

Report Date: 01-Jun-22

### SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 188980 SampType: LCS Units mg/L

SampleID: LCS-188980

| Analyses   | Cert | RL     | Qual | Result | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|------------|------|--------|------|--------|--------|-------------|-------|-----------|------------|---------------|
| Antimony   |      | 0.0010 |      | 0.480  | 0.5000 | 0           | 95.9  | 80        | 120        | 03/26/2022    |
| Arsenic    |      | 0.0010 |      | 0.499  | 0.5000 | 0           | 99.8  | 80        | 120        | 03/26/2022    |
| Barium     |      | 0.0010 |      | 1.98   | 2.000  | 0           | 98.8  | 80        | 120        | 03/26/2022    |
| Beryllium  |      | 0.0010 |      | 0.0427 | 0.0500 | 0           | 85.3  | 80        | 120        | 03/26/2022    |
| Boron      |      | 0.0250 |      | 0.443  | 0.5000 | 0           | 88.6  | 80        | 120        | 03/26/2022    |
| Cadmium    |      | 0.0010 |      | 0.0474 | 0.0500 | 0           | 94.9  | 80        | 120        | 03/26/2022    |
| Chromium   |      | 0.0015 |      | 0.219  | 0.2000 | 0           | 109.4 | 80        | 120        | 03/31/2022    |
| Cobalt     |      | 0.0010 |      | 0.486  | 0.5000 | 0           | 97.2  | 80        | 120        | 03/26/2022    |
| Lead       |      | 0.0010 |      | 0.515  | 0.5000 | 0           | 103.0 | 80        | 120        | 03/29/2022    |
| Lithium    | *    | 0.0030 |      | 0.584  | 0.5000 | 0           | 116.8 | 80        | 120        | 04/01/2022    |
| Molybdenum |      | 0.0015 |      | 0.490  | 0.5000 | 0           | 98.0  | 80        | 120        | 03/26/2022    |
| Selenium   |      | 0.0010 |      | 0.464  | 0.5000 | 0           | 92.7  | 80        | 120        | 03/26/2022    |
| Thallium   |      | 0.0020 |      | 0.230  | 0.2500 | 0           | 92.1  | 80        | 120        | 03/26/2022    |

Batch 188980 SampType: LCSD Units mg/L

RPD Limit: 20

SampleID: LCSD-188980

| Analyses   | Cert | RL     | Qual | Result | Spike  | SPK Ref Val | %REC  | RPD Ref Val | %RPD  | Date Analyzed |
|------------|------|--------|------|--------|--------|-------------|-------|-------------|-------|---------------|
| Antimony   |      | 0.0010 |      | 0.524  | 0.5000 | 0           | 104.8 | 0.4795      | 8.85  | 03/29/2022    |
| Arsenic    |      | 0.0010 |      | 0.505  | 0.5000 | 0           | 101.0 | 0.4990      | 1.18  | 03/29/2022    |
| Barium     |      | 0.0010 |      | 2.11   | 2.000  | 0           | 105.4 | 1.976       | 6.40  | 03/29/2022    |
| Beryllium  |      | 0.0010 |      | 0.0528 | 0.0500 | 0           | 105.5 | 0.05491     | 4.01  | 03/31/2022    |
| Boron      |      | 0.0250 |      | 0.506  | 0.5000 | 0           | 101.1 | 0.4431      | 13.21 | 03/30/2022    |
| Cadmium    |      | 0.0010 |      | 0.0500 | 0.0500 | 0           | 99.9  | 0.04743     | 5.20  | 03/29/2022    |
| Chromium   |      | 0.0015 |      | 0.206  | 0.2000 | 0           | 103.1 | 0.2188      | 5.93  | 03/31/2022    |
| Cobalt     |      | 0.0010 |      | 0.511  | 0.5000 | 0           | 102.3 | 0.5382      | 5.09  | 03/31/2022    |
| Lead       |      | 0.0010 |      | 0.507  | 0.5000 | 0           | 101.4 | 0.4922      | 3.00  | 03/29/2022    |
| Lithium    | *    | 0.0030 |      | 0.566  | 0.5000 | 0           | 113.1 | 0.5842      | 3.22  | 04/01/2022    |
| Molybdenum |      | 0.0015 |      | 0.502  | 0.5000 | 0           | 100.3 | 0.4900      | 2.36  | 03/29/2022    |
| Selenium   |      | 0.0010 |      | 0.470  | 0.5000 | 0           | 93.9  | 0.4635      | 1.34  | 03/29/2022    |
| Thallium   |      | 0.0020 |      | 0.244  | 0.2500 | 0           | 97.7  | 0.2301      | 5.93  | 03/29/2022    |

Batch 188980 SampType: MS Units mg/L

SampleID: 22030530-035CMS

| Analyses | Cert | RL     | Qual | Result | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|----------|------|--------|------|--------|--------|-------------|-------|-----------|------------|---------------|
| Boron    |      | 0.0250 |      | 2.75   | 0.5000 | 2.166       | 116.3 | 75        | 125        | 04/01/2022    |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22030530

Client Project: Hennepin Q1 Groundwater

Report Date: 01-Jun-22

### SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

| Batch 188980             |  | SampType: MSD |        | Units mg/L |        |        |             | RPD Limit: 20 |             |      |               |
|--------------------------|--|---------------|--------|------------|--------|--------|-------------|---------------|-------------|------|---------------|
| SampID: 22030530-035CMSD |  |               |        |            |        |        |             |               |             |      |               |
| Analyses                 |  | Cert          | RL     | Qual       | Result | Spike  | SPK Ref Val | %REC          | RPD Ref Val | %RPD | Date Analyzed |
| Boron                    |  |               | 0.0250 |            | 2.72   | 0.5000 | 2.166       | 110.9         | 2.747       | 0.99 | 04/01/2022    |

| Batch 189006        |      | SampType: MBLK |      | Units mg/L |        |             |      |           |            |  | Date Analyzed |  |
|---------------------|------|----------------|------|------------|--------|-------------|------|-----------|------------|--|---------------|--|
| SampID: MBLK-189006 |      |                |      |            |        |             |      |           |            |  |               |  |
| Analyses            | Cert | RL             | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit |  |               |  |
| Antimony            |      | 0.0010         |      | < 0.0010   | 0.0004 | 0           | 0    | -100      | 100        |  |               |  |
| Arsenic             |      | 0.0010         |      | < 0.0010   | 0.0004 | 0           | 0    | -100      | 100        |  |               |  |
| Barium              |      | 0.0010         |      | < 0.0010   | 0.0007 | 0           | 0    | -100      | 100        |  |               |  |
| Beryllium           |      | 0.0010         |      | < 0.0010   | 0.0002 | 0           | 0    | -100      | 100        |  |               |  |
| Boron               |      | 0.0250         |      | < 0.0250   | 0.0093 | 0           | 0    | -100      | 100        |  |               |  |
| Cadmium             |      | 0.0010         |      | < 0.0010   | 0.0001 | 0           | 0    | -100      | 100        |  |               |  |
| Chromium            |      | 0.0015         |      | < 0.0015   | 0.0007 | 0           | 0    | -100      | 100        |  |               |  |
| Cobalt              |      | 0.0010         |      | < 0.0010   | 0.0001 | 0           | 0    | -100      | 100        |  |               |  |
| Lead                |      | 0.0010         |      | < 0.0010   | 0.0006 | 0           | 0    | -100      | 100        |  |               |  |
| Lithium             | *    | 0.0030         |      | < 0.0030   | 0.0015 | 0           | 0    | -100      | 100        |  |               |  |
| Molybdenum          |      | 0.0015         |      | < 0.0015   | 0.0006 | 0           | 0    | -100      | 100        |  |               |  |
| Selenium            |      | 0.0010         |      | < 0.0010   | 0.0006 | 0           | 0    | -100      | 100        |  |               |  |
| Thallium            |      | 0.0020         |      | < 0.0020   | 0.0010 | 0           | 0    | -100      | 100        |  |               |  |

| Batch 189006       |      | SampType: LCS |      | Units mg/L |        |             |       |           |            |            | Date Analyzed |
|--------------------|------|---------------|------|------------|--------|-------------|-------|-----------|------------|------------|---------------|
| SampID: LCS-189006 |      |               |      |            |        |             |       |           |            |            |               |
| Analyses           | Cert | RL            | Qual | Result     | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit |            |               |
| Antimony           |      | 0.0010        |      | 0.500      | 0.5000 | 0           | 100.1 | 85        | 115        | 03/29/2022 |               |
| Arsenic            |      | 0.0010        |      | 0.489      | 0.5000 | 0           | 97.9  | 85        | 115        | 03/29/2022 |               |
| Barium             |      | 0.0010        |      | 2.01       | 2.000  | 0           | 100.7 | 85        | 115        | 03/29/2022 |               |
| Beryllium          |      | 0.0010        |      | 0.0433     | 0.0500 | 0           | 86.7  | 85        | 115        | 03/29/2022 |               |
| Boron              |      | 0.0250        |      | 0.441      | 0.5000 | 0           | 88.1  | 85        | 115        | 03/29/2022 |               |
| Cadmium            |      | 0.0010        |      | 0.0478     | 0.0500 | 0           | 95.5  | 85        | 115        | 03/29/2022 |               |
| Chromium           |      | 0.0015        |      | 0.198      | 0.2000 | 0           | 99.0  | 85        | 115        | 03/29/2022 |               |
| Cobalt             |      | 0.0010        |      | 0.493      | 0.5000 | 0           | 98.5  | 85        | 115        | 03/29/2022 |               |
| Lead               |      | 0.0010        |      | 0.486      | 0.5000 | 0           | 97.2  | 85        | 115        | 03/29/2022 |               |
| Lithium            | *    | 0.0030        |      | 0.478      | 0.5000 | 0           | 95.6  | 85        | 115        | 03/29/2022 |               |
| Molybdenum         |      | 0.0015        |      | 0.491      | 0.5000 | 0           | 98.3  | 85        | 115        | 03/29/2022 |               |
| Selenium           |      | 0.0010        |      | 0.449      | 0.5000 | 0           | 89.9  | 85        | 115        | 03/29/2022 |               |
| Thallium           |      | 0.0020        |      | 0.229      | 0.2500 | 0           | 91.5  | 85        | 115        | 03/29/2022 |               |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22030530

Client Project: Hennepin Q1 Groundwater

Report Date: 01-Jun-22

### SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 189006 SampType: MS Units mg/L

SampleID: 22030530-047BMS

| Analyses   | Cert | RL     | Qual | Result | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|------------|------|--------|------|--------|--------|-------------|-------|-----------|------------|---------------|
| Antimony   |      | 0.0010 |      | 0.518  | 0.5000 | 0           | 103.5 | 75        | 125        | 03/29/2022    |
| Arsenic    |      | 0.0010 |      | 0.500  | 0.5000 | 0.001741    | 99.6  | 75        | 125        | 03/29/2022    |
| Barium     |      | 0.0010 |      | 2.38   | 2.000  | 0.3230      | 103.0 | 75        | 125        | 03/29/2022    |
| Beryllium  |      | 0.0010 |      | 0.0544 | 0.0500 | 0           | 108.7 | 75        | 125        | 03/31/2022    |
| Boron      |      | 0.0250 |      | 3.49   | 0.5000 | 2.983       | 102.2 | 75        | 125        | 03/31/2022    |
| Cadmium    |      | 0.0010 |      | 0.0491 | 0.0500 | 0           | 98.2  | 75        | 125        | 03/29/2022    |
| Chromium   |      | 0.0015 |      | 0.204  | 0.2000 | 0.001161    | 101.2 | 75        | 125        | 03/31/2022    |
| Cobalt     |      | 0.0010 |      | 0.502  | 0.5000 | 0.0003621   | 100.4 | 75        | 125        | 03/31/2022    |
| Lead       |      | 0.0010 |      | 0.501  | 0.5000 | 0           | 100.2 | 75        | 125        | 03/29/2022    |
| Lithium    | *    | 0.0030 |      | 0.645  | 0.5000 | 0.06073     | 116.8 | 75        | 125        | 03/31/2022    |
| Molybdenum |      | 0.0015 |      | 0.571  | 0.5000 | 0.05630     | 102.9 | 75        | 125        | 03/29/2022    |
| Selenium   |      | 0.0010 |      | 0.458  | 0.5000 | 0.006224    | 90.4  | 75        | 125        | 03/29/2022    |
| Thallium   |      | 0.0020 |      | 0.237  | 0.2500 | 0           | 94.9  | 75        | 125        | 03/29/2022    |

Batch 189006 SampType: MSD Units mg/L

RPD Limit: 20

SampleID: 22030530-047BMSD

| Analyses   | Cert | RL     | Qual | Result | Spike  | SPK Ref Val | %REC  | RPD Ref Val | %RPD | Date Analyzed |
|------------|------|--------|------|--------|--------|-------------|-------|-------------|------|---------------|
| Antimony   |      | 0.0010 |      | 0.511  | 0.5000 | 0           | 102.3 | 0.5177      | 1.24 | 03/29/2022    |
| Arsenic    |      | 0.0010 |      | 0.508  | 0.5000 | 0.001741    | 101.3 | 0.4999      | 1.65 | 03/29/2022    |
| Barium     |      | 0.0010 |      | 2.37   | 2.000  | 0.3230      | 102.5 | 2.382       | 0.41 | 03/29/2022    |
| Beryllium  |      | 0.0010 |      | 0.0539 | 0.0500 | 0           | 107.8 | 0.05437     | 0.90 | 03/31/2022    |
| Boron      |      | 0.0250 |      | 3.52   | 0.5000 | 2.983       | 107.0 | 3.494       | 0.69 | 03/31/2022    |
| Cadmium    |      | 0.0010 |      | 0.0481 | 0.0500 | 0           | 96.1  | 0.04910     | 2.12 | 03/29/2022    |
| Chromium   |      | 0.0015 |      | 0.203  | 0.2000 | 0.001161    | 101.0 | 0.2036      | 0.22 | 03/31/2022    |
| Cobalt     |      | 0.0010 |      | 0.508  | 0.5000 | 0.0003621   | 101.5 | 0.5025      | 1.06 | 03/31/2022    |
| Lead       |      | 0.0010 |      | 0.497  | 0.5000 | 0           | 99.4  | 0.5012      | 0.86 | 03/29/2022    |
| Lithium    | *    | 0.0030 |      | 0.644  | 0.5000 | 0.06073     | 116.6 | 0.6449      | 0.15 | 03/31/2022    |
| Molybdenum |      | 0.0015 |      | 0.564  | 0.5000 | 0.05630     | 101.6 | 0.5706      | 1.11 | 03/29/2022    |
| Selenium   |      | 0.0010 |      | 0.465  | 0.5000 | 0.006224    | 91.8  | 0.4583      | 1.46 | 03/29/2022    |
| Thallium   |      | 0.0020 |      | 0.240  | 0.2500 | 0           | 96.1  | 0.2372      | 1.22 | 03/29/2022    |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22030530

Client Project: Hennepin Q1 Groundwater

Report Date: 01-Jun-22

### SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 190743 SampType: MBLK Units mg/L

SampID: MBLK-190743

| Analyses | Cert | RL     | Qual | Result   | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|----------|------|--------|------|----------|--------|-------------|------|-----------|------------|---------------|
| Antimony |      | 0.0010 |      | < 0.0010 | 0.0004 | 0           | 0    | -100      | 100        | 04/24/2022    |
| Arsenic  |      | 0.0010 |      | < 0.0010 | 0.0004 | 0           | 0    | -100      | 100        | 04/24/2022    |
| Boron    |      | 0.0250 |      | < 0.0250 | 0.0093 | 0           | 0    | -100      | 100        | 04/22/2022    |
| Lead     |      | 0.0010 |      | < 0.0010 | 0.0006 | 0           | 0    | -100      | 100        | 04/24/2022    |
| Selenium |      | 0.0010 |      | < 0.0010 | 0.0006 | 0           | 0    | -100      | 100        | 04/24/2022    |
| Thallium |      | 0.0020 |      | < 0.0020 | 0.0010 | 0           | 0    | -100      | 100        | 04/24/2022    |

Batch 190743 SampType: LCS Units mg/L

SampID: LCS-190743

| Analyses | Cert | RL     | Qual | Result | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|----------|------|--------|------|--------|--------|-------------|-------|-----------|------------|---------------|
| Antimony |      | 0.0010 |      | 0.532  | 0.5000 | 0           | 106.5 | 85        | 115        | 04/24/2022    |
| Arsenic  |      | 0.0010 |      | 0.528  | 0.5000 | 0           | 105.7 | 85        | 115        | 04/24/2022    |
| Boron    |      | 0.0250 |      | 0.484  | 0.5000 | 0           | 96.8  | 80        | 120        | 04/22/2022    |
| Lead     |      | 0.0010 |      | 0.532  | 0.5000 | 0           | 106.4 | 85        | 115        | 04/24/2022    |
| Selenium |      | 0.0010 |      | 0.505  | 0.5000 | 0           | 101.0 | 85        | 115        | 04/24/2022    |
| Thallium |      | 0.0020 |      | 0.268  | 0.2500 | 0           | 107.3 | 85        | 115        | 04/24/2022    |

Batch 191095 SampType: MBLK Units mg/L

SampID: MBLK-191095

| Analyses | Cert | RL     | Qual | Result   | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|----------|------|--------|------|----------|--------|-------------|------|-----------|------------|---------------|
| Antimony |      | 0.0010 |      | < 0.0010 | 0.0004 | 0           | 0    | -100      | 100        | 04/27/2022    |
| Arsenic  |      | 0.0010 |      | < 0.0010 | 0.0004 | 0           | 0    | -100      | 100        | 04/27/2022    |
| Chromium |      | 0.0015 |      | < 0.0015 | 0.0007 | 0           | 0    | -100      | 100        | 04/28/2022    |
| Lead     |      | 0.0010 |      | < 0.0010 | 0.0006 | 0           | 0    | -100      | 100        | 04/27/2022    |
| Lithium  | *    | 0.0030 |      | < 0.0030 | 0.0015 | 0           | 0    | -100      | 100        | 04/28/2022    |

Batch 191095 SampType: LCS Units mg/L

SampID: LCS-191095

| Analyses | Cert | RL     | Qual | Result | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|----------|------|--------|------|--------|--------|-------------|-------|-----------|------------|---------------|
| Antimony |      | 0.0010 |      | 0.474  | 0.5000 | 0           | 94.8  | 80        | 120        | 04/27/2022    |
| Arsenic  |      | 0.0010 |      | 0.474  | 0.5000 | 0           | 94.8  | 80        | 120        | 04/27/2022    |
| Chromium |      | 0.0015 |      | 0.186  | 0.2000 | 0           | 93.0  | 80        | 120        | 04/28/2022    |
| Lead     |      | 0.0010 |      | 0.468  | 0.5000 | 0           | 93.6  | 80        | 120        | 04/27/2022    |
| Lithium  | *    | 0.0030 |      | 0.519  | 0.5000 | 0           | 103.8 | 80        | 120        | 04/28/2022    |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22030530

Client Project: Hennepin Q1 Groundwater

Report Date: 01-Jun-22

### SW-846 7470A (DISSOLVED)

| Batch 189038            |      | SampType: MS |      | Units mg/L |        |             |       |           |            |            |               |
|-------------------------|------|--------------|------|------------|--------|-------------|-------|-----------|------------|------------|---------------|
| SampID: 22030530-013DMS |      |              |      |            |        |             |       |           |            |            | Date Analyzed |
| Analyses                | Cert | RL           | Qual | Result     | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit |            |               |
| Mercury                 |      | 0.00020      |      | 0.00509    | 0.0050 | 0           | 101.7 | 75        | 125        | 03/28/2022 |               |

| Batch 189038             |  | SampType: MSD |         | Units mg/L |         |        |             | RPD Limit: 15 |             |      |               |
|--------------------------|--|---------------|---------|------------|---------|--------|-------------|---------------|-------------|------|---------------|
| SampID: 22030530-013DMSD |  |               |         |            |         |        |             |               |             |      |               |
| Analyses                 |  | Cert          | RL      | Qual       | Result  | Spike  | SPK Ref Val | %REC          | RPD Ref Val | %RPD | Date Analyzed |
| Mercury                  |  |               | 0.00020 |            | 0.00514 | 0.0050 | 0           | 102.8         | 0.005085    | 1.05 | 03/28/2022    |

| Batch 189040            |      | SampType: MS |      | Units mg/L |        |             |       |           |            |               |  |
|-------------------------|------|--------------|------|------------|--------|-------------|-------|-----------|------------|---------------|--|
| SampID: 22030530-049DMS |      |              |      |            |        |             |       |           |            |               |  |
| Analyses                | Cert | RL           | Qual | Result     | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |  |
| Mercury                 |      | 0.00020      |      | 0.00516    | 0.0050 | 0           | 103.2 | 75        | 125        | 03/29/2022    |  |

| Batch 189040             |  | SampType: MSD |         | Units mg/L |         |        |             | RPD Limit: 15 |             |      |            | Date Analyzed |
|--------------------------|--|---------------|---------|------------|---------|--------|-------------|---------------|-------------|------|------------|---------------|
| SampID: 22030530-049DMSD |  |               |         |            |         |        |             |               |             |      |            |               |
| Analyses                 |  | Cert          | RL      | Qual       | Result  | Spike  | SPK Ref Val | %REC          | RPD Ref Val | %RPD |            |               |
| Mercury                  |  |               | 0.00020 |            | 0.00521 | 0.0050 | 0           | 104.2         | 0.005158    | 1.00 | 03/29/2022 |               |

### SW-846 7470A (TOTAL)

| Batch 188965        |      | SampType: MBLK |      | Units mg/L |        |             |      |           |            |               |  |
|---------------------|------|----------------|------|------------|--------|-------------|------|-----------|------------|---------------|--|
| SampID: MBLK-188965 |      |                |      |            |        |             |      |           |            |               |  |
| Analyses            | Cert | RL             | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Mercury             |      | 0.00020        |      | < 0.00020  | 0.0001 | 0           | 0    | -100      | 100        | 03/24/2022    |  |

| Batch 188965       |      | SampType: LCS |      | Units mg/L |        |             |       |           |            |               |  |
|--------------------|------|---------------|------|------------|--------|-------------|-------|-----------|------------|---------------|--|
| SampID: LCS-188965 |      |               |      |            |        |             |       |           |            |               |  |
| Analyses           | Cert | RL            | Qual | Result     | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |  |
| Mercury            |      | 0.00020       |      | 0.00548    | 0.0050 | 0           | 109.7 | 85        | 115        | 03/24/2022    |  |

| Batch 188965            |      | SampType: MS |      | Units mg/L |        |             |       |           |            |               |  |
|-------------------------|------|--------------|------|------------|--------|-------------|-------|-----------|------------|---------------|--|
| SampID: 22030530-007CMS |      |              |      |            |        |             |       |           |            |               |  |
| Analyses                | Cert | RL           | Qual | Result     | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |  |
| Mercury                 |      | 0.00020      |      | 0.00516    | 0.0050 | 0           | 103.2 | 75        | 125        | 03/24/2022    |  |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22030530

Client Project: Hennepin Q1 Groundwater

Report Date: 01-Jun-22

### SW-846 7470A (TOTAL)

| Batch 188965             |      | SampType: MSD |      | Units mg/L |        |             |       | RPD Limit: 15 |      |            | Date Analyzed |
|--------------------------|------|---------------|------|------------|--------|-------------|-------|---------------|------|------------|---------------|
| SampID: 22030530-007CMSD |      |               |      |            |        |             |       |               |      |            |               |
| Analyses                 | Cert | RL            | Qual | Result     | Spike  | SPK Ref Val | %REC  | RPD Ref Val   | %RPD |            |               |
| Mercury                  |      | 0.00020       |      | 0.00502    | 0.0050 | 0           | 100.4 | 0.005161      | 2.74 | 03/24/2022 |               |

| Batch 189038        |      | SampType: MBLK |      | Units mg/L |        |             |      |           |            |               |  |
|---------------------|------|----------------|------|------------|--------|-------------|------|-----------|------------|---------------|--|
| SampID: MBLK-189038 |      |                |      |            |        |             |      |           |            |               |  |
| Analyses            | Cert | RL             | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Mercury             |      | 0.00020        |      | < 0.00020  | 0.0001 | 0           | 0    | -100      | 100        | 03/28/2022    |  |
| Mercury             |      | 0.20           |      | < 0.20     | 0.0550 | 0           | 0    | -100      | 100        | 03/28/2022    |  |

| Batch 189038       |      | SampType: LCS |      | Units mg/L |        |             |       |           |            |               |  |
|--------------------|------|---------------|------|------------|--------|-------------|-------|-----------|------------|---------------|--|
| SampID: LCS-189038 |      |               |      |            |        |             |       |           |            |               |  |
| Analyses           | Cert | RL            | Qual | Result     | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |  |
| Mercury            |      | 0.00020       |      | 0.00506    | 0.0050 | 0           | 101.1 | 85        | 115        | 03/28/2022    |  |
| Mercury            |      | 0.20          |      | 5.06       | 5.000  | 0           | 101.1 | 85        | 115        | 03/28/2022    |  |

| Batch 189038            |      | SampType: MS |      | Units mg/L |         |             |       |           |            |            |               |
|-------------------------|------|--------------|------|------------|---------|-------------|-------|-----------|------------|------------|---------------|
| SampID: 22030530-013CMS |      |              |      |            |         |             |       |           |            |            | Date Analyzed |
| Analyses                | Cert | RL           | Qual | Result     | Spike   | SPK Ref Val | %REC  | Low Limit | High Limit |            |               |
| Mercury                 |      | 0.00020      |      | 0.00517    | 0.00500 | 0           | 103.4 | 75        | 125        | 03/28/2022 |               |

| Batch 189038             |  | SampType: MSD |         | Units mg/L |         |         |             | RPD Limit: 15 |             |      |               |
|--------------------------|--|---------------|---------|------------|---------|---------|-------------|---------------|-------------|------|---------------|
| SampID: 22030530-013CMSD |  |               |         |            |         |         |             |               |             |      |               |
| Analyses                 |  | Cert          | RL      | Qual       | Result  | Spike   | SPK Ref Val | %REC          | RPD Ref Val | %RPD | Date Analyzed |
| Mercury                  |  |               | 0.00020 |            | 0.00501 | 0.00500 | 0           | 100.2         | 0.00517     | 3.09 | 03/28/2022    |

| Batch 189039        |      | SampType: MBLK |      | Units mg/L |        |             |      |           |            |            | Date Analyzed |
|---------------------|------|----------------|------|------------|--------|-------------|------|-----------|------------|------------|---------------|
| SampID: MBLK-189039 |      |                |      |            |        |             |      |           |            |            |               |
| Analyses            | Cert | RL             | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit |            |               |
| Mercury             |      | 0.00020        |      | < 0.00020  | 0.0001 | 0           | 0    | -100      | 100        | 03/28/2022 |               |

| Batch 189039       |      | SampType: LCS |      | Units mg/L |        |             |       |           |            |               |  |
|--------------------|------|---------------|------|------------|--------|-------------|-------|-----------|------------|---------------|--|
| SampID: LCS-189039 |      |               |      |            |        |             |       |           |            |               |  |
| Analyses           | Cert | RL            | Qual | Result     | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |  |
| Mercury            |      | 0.00020       |      | 0.00513    | 0.0050 | 0           | 102.6 | 85        | 115        | 03/28/2022    |  |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22030530

Client Project: Hennepin Q1 Groundwater

Report Date: 01-Jun-22

### SW-846 7470A (TOTAL)

| Batch 189039            |      | SampType: MS |      | Units mg/L |        |             |       |           |            |            |               |
|-------------------------|------|--------------|------|------------|--------|-------------|-------|-----------|------------|------------|---------------|
| SampID: 22030530-024CMS |      |              |      |            |        |             |       |           |            |            | Date Analyzed |
| Analyses                | Cert | RL           | Qual | Result     | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit |            |               |
| Mercury                 |      | 0.00020      |      | 0.00545    | 0.0050 | 0           | 109.1 | 75        | 125        | 03/28/2022 |               |

| Batch 189039             |  | SampType: MSD |         | Units mg/L |         |        |             | RPD Limit: 15 |             |      |               |
|--------------------------|--|---------------|---------|------------|---------|--------|-------------|---------------|-------------|------|---------------|
| SampID: 22030530-024CMSD |  |               |         |            |         |        |             |               |             |      |               |
| Analyses                 |  | Cert          | RL      | Qual       | Result  | Spike  | SPK Ref Val | %REC          | RPD Ref Val | %RPD | Date Analyzed |
| Mercury                  |  |               | 0.00020 |            | 0.00525 | 0.0050 | 0           | 105.0         | 0.005455    | 3.84 | 03/28/2022    |

| Batch 189039            |      | SampType: MS |      | Units mg/L |        |             |       |           |            |  |               |
|-------------------------|------|--------------|------|------------|--------|-------------|-------|-----------|------------|--|---------------|
| SampID: 22030530-030CMS |      |              |      |            |        |             |       |           |            |  | Date Analyzed |
| Analyses                | Cert | RL           | Qual | Result     | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit |  |               |
| Mercury                 |      | 0.00020      |      | 0.00534    | 0.0050 | 0           | 106.8 | 75        | 125        |  |               |

| Batch 189039             |  | SampType: MSD |         | Units mg/L |         |        |             | RPD Limit: 15 |             |      |            | Date Analyzed |
|--------------------------|--|---------------|---------|------------|---------|--------|-------------|---------------|-------------|------|------------|---------------|
| SampID: 22030530-030CMSD |  |               |         |            |         |        |             |               |             |      |            |               |
| Analyses                 |  | Cert          | RL      | Qual       | Result  | Spike  | SPK Ref Val | %REC          | RPD Ref Val | %RPD |            |               |
| Mercury                  |  |               | 0.00020 |            | 0.00534 | 0.0050 | 0           | 106.7         | 0.005339    | 0.05 | 03/28/2022 |               |

| Batch 189040        |      | SampType: MBLK |      | Units mg/L |        |             |      |           |            |            |               |
|---------------------|------|----------------|------|------------|--------|-------------|------|-----------|------------|------------|---------------|
| SampID: MBLK-189040 |      |                |      |            |        |             |      |           |            |            | Date Analyzed |
| Analyses            | Cert | RL             | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit |            |               |
| Mercury             |      | 0.00020        |      | < 0.00020  | 0.0001 | 0           | 0    | -100      | 100        | 03/29/2022 |               |

| Batch 189040       |      | SampType: LCS |      | Units mg/L |        |             |      |           |            |               |  |
|--------------------|------|---------------|------|------------|--------|-------------|------|-----------|------------|---------------|--|
| SampID: LCS-189040 |      |               |      |            |        |             |      |           |            |               |  |
| Analyses           | Cert | RL            | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Mercury            |      | 0.00020       |      | 0.00429    | 0.0050 | 0           | 85.9 | 85        | 115        | 03/29/2022    |  |

| Batch 191075        |      | SampType: MBLK |      | Units mg/L |        |             |      |           |            |               |  |
|---------------------|------|----------------|------|------------|--------|-------------|------|-----------|------------|---------------|--|
| SampID: MBLK-191075 |      |                |      |            |        |             |      |           |            |               |  |
| Analyses            | Cert | RL             | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Mercury             |      | 0.00020        |      | < 0.00020  | 0.0001 | 0           | 0    | -100      | 100        | 04/27/2022    |  |

| Batch 191075       |      | SampType: LCS |      | Units mg/L |        |             |      |           |            |               |  |
|--------------------|------|---------------|------|------------|--------|-------------|------|-----------|------------|---------------|--|
| SampID: LCS-191075 |      |               |      |            |        |             |      |           |            |               |  |
| Analyses           | Cert | RL            | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Mercury            |      | 0.00020       |      | 0.00477    | 0.0050 | 0           | 95.4 | 85        | 115        | 04/27/2022    |  |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22030530

Client Project: Hennepin Q1 Groundwater

Report Date: 01-Jun-22

### SW-846 7470A (TOTAL)

| Batch 191075            |      | SampType: MS |      | Units mg/L |         |             |      |           |            |            |               |
|-------------------------|------|--------------|------|------------|---------|-------------|------|-----------|------------|------------|---------------|
| SampID: 22030530-012CMS |      |              |      |            |         |             |      |           |            |            | Date Analyzed |
| Analyses                | Cert | RL           | Qual | Result     | Spike   | SPK Ref Val | %REC | Low Limit | High Limit |            |               |
| Mercury                 |      | 0.00020      | H    | 0.00481    | 0.00500 | 0           | 96.3 | 75        | 125        | 04/27/2022 |               |

| Batch 191075             |      | SampType: MSD |      | Units mg/L |         |             |      | RPD Limit: 15 |      |               |  |
|--------------------------|------|---------------|------|------------|---------|-------------|------|---------------|------|---------------|--|
| SampID: 22030530-012CMSD |      |               |      |            |         |             |      |               |      |               |  |
| Analyses                 | Cert | RL            | Qual | Result     | Spike   | SPK Ref Val | %REC | RPD Ref Val   | %RPD | Date Analyzed |  |
| Mercury                  |      | 0.00020       | H    | 0.00477    | 0.00500 | 0           | 95.4 | 0.00481       | 0.91 | 04/27/2022    |  |





## Receiving Check List

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22030530

Client Project: Hennepin Q1 Groundwater

Report Date: 01-Jun-22

Carrier: Adam Bridges

Received By: PWR

Completed by:

On:

24-Mar-22

Mary E. Kemp

Reviewed by:

On:

24-Mar-22

Elizabeth A. Hurley

Pages to follow:

Chain of custody

5

Extra pages included

0

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Temp °C 1.8

Type of thermal preservation?

None ☐

Ice ☒

Blue Ice ☐

Dry Ice ☐

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Reported field parameters measured:

Field ☒

Lab ☐

NA ☐

Container/Temp Blank temperature in compliance?

Yes ☒

No ☐

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water – at least one vial per sample has zero headspace?

Yes ☒

No ☐

No VOA vials ☐

Water - TOX containers have zero headspace?

Yes ☐

No ☐

No TOX containers ☒

Water - pH acceptable upon receipt?

Yes ☐

No ☒

NA ☐

NPDES/CWA TCN interferences checked/treated in the field?

Yes ☐

No ☐

NA ☒

Any No responses must be detailed below or on the COC.

pH strip #78011/75146. - PRY/MKemp - 3/24/2022 10:53:33 AM

Additional nitric acid (80810) was needed in 08 upon arrival at the laboartory. Additional sulfuric acid (80586) was needed in 10 upon arrival at the laboratory. Additional sodium hydroxide (78408) was needed in 08, 08 Duplicate, 08D, and 19D upon arrival at the laboratory. - PRY/MKemp - 3/24/2022 10:53:38 AM

Field Blank was filtered and preserved with nitric acid (80810), sulfuric acid (80586), and sodium hydroxide (78408) for the dissolved parameters upon arrival at the laboratory. - MKemp - 3/24/2022 10:53:41 AM

# CHAIN OF CUSTODY

Pg 1 of 5 Workorder # 22030530

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

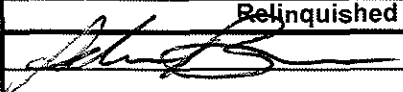
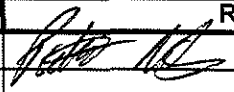
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |              |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                |      |      |       |                               |      |        |     |       |             |                             |               |               |                  |               |               |              |            |             |             |             |             |           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------|------|-------|-------------------------------|------|--------|-----|-------|-------------|-----------------------------|---------------|---------------|------------------|---------------|---------------|--------------|------------|-------------|-------------|-------------|-------------|-----------|
| Client: <u>Ramboll / Vistra</u><br>Address: <u>234 W. Florida St.</u><br>City/State/Zip: <u>Milwaukee, WI 53204</u><br>Contact: <u>Eric Bauer</u> Phone: <u>(414) 837-3607</u><br>Email: <u>eric.bauer@ramboll.com</u> Fax: _____                                                                                                                                                                                                                                                   |  |              |                   | Samples on: <input checked="" type="checkbox"/> ICE <input type="checkbox"/> BLUE ICE <input type="checkbox"/> NO ICE <u>1.8 °C</u> LTG# <u>5</u><br>Preserved in: <input checked="" type="checkbox"/> LAB <input type="checkbox"/> FIELD <b>FOR LAB USE ONLY</b><br>LAB NOTES: <u>PH 7.8011/75146, Added NaOH 78408 to 8/8 DVP/80/19D, HNO3 80810 to 8, H2SO4 80586 to 10, PNT 3/24/17</u><br>Client Comments: <u>⊗ Filter in Lab OHS, PNT 3/24/17</u><br>Field Tests = pH, DO, ORP, Conductivity, Temperature, Turbidity, and DTW<br>*Perchlorate subcontracted to Keystone.<br>Multiple program reports will be generated (metals lists per program requirements).<br>02, 04R, 06, 15, 19D, and 19S do not require Total Fluoride.<br>25, 26, 30, 31, 33, 36, 55, SG02, and XSG01 require only DTW. |                                |      |      |       |                               |      |        |     |       |             |                             |               |               |                  |               |               |              |            |             |             |             |             |           |
| Are these samples known to be involved in litigation? If yes, a surcharge will apply: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Are these samples known to be hazardous? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Are there any required reporting limits to be met on the requested analysis? If yes, please provide limits in the comment section: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |  |              |                   | PROJECT NAME/NUMBER: <u>Hennepin Q1 Groundwater</u><br>SAMPLE COLLECTOR'S NAME: <u>J. RILEY A. BRIDGES</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                |      |      |       |                               |      |        |     |       |             |                             |               |               |                  |               |               |              |            |             |             |             |             |           |
| <b>RESULTS REQUESTED</b><br><input checked="" type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge)<br><input type="checkbox"/> Other _____ <input type="checkbox"/> 3 Day (50% Surcharge)                                                                                                                                                                                                                                                                   |  |              |                   | <b>BILLING INSTRUCTIONS</b><br><u>Vistra PO#s</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                |      |      |       |                               |      |        |     |       |             |                             |               |               |                  |               |               |              |            |             |             |             |             |           |
| Lab Use Only                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | Sample ID    | Date/Time Sampled | Matrix                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | # and Type of Containers       |      |      |       |                               |      |        |     |       |             | INDICATE ANALYSIS REQUESTED |               |               |                  |               |               |              |            |             |             |             |             |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |              |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | UNP                            | HNO3 | NaOH | H2SO4 | HCL                           | MeOH | NaHSO4 | TSP | Other | Field Tests | Total Cl/SO4                | TDS, Total F- | Bicarb./Carb. | Total Alkalinity | Total Nitrate | D - Cl/SO4/F- | Total Metals | D - Metals | T - Cyanide | D - Cyanide | T - NH3/OOH | D - NH3/OOH | BTEX/Per* |
| 22030530-001                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | 02           | 03/23/22 1343     | Groundwater                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                |      |      |       |                               |      |        |     |       | ✓           | ✓                           | ✓             | ✓             | ✓                | ✓             | ✓             | ✓            | ✓          | ✓           | ✓           | ✓           | ✓           | ✓         |
| 002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | 03R          | 03/23/22 1208     | Groundwater                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                |      |      |       |                               |      |        |     |       | ✓           | ✓                           | ✓             | ✓             | ✓                | ✓             | ✓             | ✓            | ✓          | ✓           | ✓           | ✓           | ✓           | ✓         |
| 003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | 04R          | 03/23/22 0958     | Groundwater                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                |      |      |       |                               |      |        |     |       | ✓           | ✓                           | ✓             | ✓             | ✓                | ✓             | ✓             | ✓            | ✓          | ✓           | ✓           | ✓           | ✓           | ✓         |
| 004                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | 05DR         | 03/23/22 1121     | Groundwater                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                |      |      |       |                               |      |        |     |       | ✓           | ✓                           | ✓             | ✓             | ✓                | ✓             | ✓             | ✓            | ✓          | ✓           | ✓           | ✓           | ✓           | ✓         |
| 005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | 05R          | 03/23/22 1108     | Groundwater                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                |      |      |       |                               |      |        |     |       | ✓           | ✓                           | ✓             | ✓             | ✓                | ✓             | ✓             | ✓            | ✓          | ✓           | ✓           | ✓           | ✓           | ✓         |
| 006                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | 06           | 03/23/22 1223     | Groundwater                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                |      |      |       |                               |      |        |     |       | ✓           | ✓                           | ✓             | ✓             | ✓                | ✓             | ✓             | ✓            | ✓          | ✓           | ✓           | ✓           | ✓           | ✓         |
| 007                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | 07           | 03/23/22 1531     | Groundwater                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                |      |      |       |                               |      |        |     |       | ✓           | ✓                           | ✓             | ✓             | ✓                | ✓             | ✓             | ✓            | ✓          | ✓           | ✓           | ✓           | ✓           | ✓         |
| 008                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | 08           | 03/23/22 1424     | Groundwater                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                |      |      |       |                               |      |        |     |       | ✓           | ✓                           | ✓             | ✓             | ✓                | ✓             | ✓             | ✓            | ✓          | ✓           | ✓           | ✓           | ✓           | ✓         |
| 009                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | 08 Duplicate | 03/23/22 1424     | Groundwater                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                |      |      |       |                               |      |        |     |       | ✓           | ✓                           | ✓             | ✓             | ✓                | ✓             | ✓             | ✓            | ✓          | ✓           | ✓           | ✓           | ✓           | ✓         |
| 010                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | 08D          | 03/23/22 1404     | Groundwater                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                |      |      |       |                               |      |        |     |       | ✓           | ✓                           | ✓             | ✓             | ✓                | ✓             | ✓             | ✓            | ✓          | ✓           | ✓           | ✓           | ✓           | ✓         |
| 011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | 10           | 03/23/22 1326     | Groundwater                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                |      |      |       |                               |      |        |     |       | ✓           | ✓                           | ✓             | ✓             | ✓                | ✓             | ✓             | ✓            | ✓          | ✓           | ✓           | ✓           | ✓           | ✓         |
| Relinquished By <u>[Signature]</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |              |                   | Date/Time <u>3-24-22 0750</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Received By <u>[Signature]</u> |      |      |       | Date/Time <u>3/24/22 0750</u> |      |        |     |       |             |                             |               |               |                  |               |               |              |            |             |             |             |             |           |

\*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See [www.teklabinc.com](http://www.teklabinc.com) for terms and conditions

# CHAIN OF CUSTODY

Pg 2 of 5 Workorder # 22030530

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

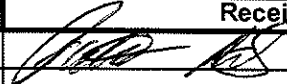
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            |                                            |                    |                                                                                                                                                                                                                                                                                                                    |  |                                                                                                                                                                                                                                                                           |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------------------------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Client: <u>Ramboll / Vistra</u><br>Address: <u>234 W. Florida St.</u><br>City/State/Zip: <u>Milwaukee, WI 53204</u><br>Contact: <u>Eric Bauer</u> Phone: <u>(414) 837-3607</u><br>Email: <u>eric.bauer@ramboll.com</u> Fax: _____                                                                                                                                                                                                                                                   |            |                                            |                    | Samples on: <input type="checkbox"/> ICE <input type="checkbox"/> BLUE ICE <input type="checkbox"/> NO ICE _____ °C LTG# _____<br>Preserved in: <input type="checkbox"/> LAB <input type="checkbox"/> FIELD <u>FOR LAB USE ONLY</u><br>LAB NOTES: _____                                                            |  |                                                                                                                                                                                                                                                                           |  |
| Are these samples known to be involved in litigation? If yes, a surcharge will apply: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Are these samples known to be hazardous? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Are there any required reporting limits to be met on the requested analysis? If yes, please provide limits in the comment section: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |            |                                            |                    | Client Comments:<br>Field Tests = pH, DO, ORP, Conductivity, Temperature, Turbidity, and DTW<br>*Perchlorate subcontracted to Keystone.<br>Multiple program reports will be generated (metals lists per program requirements).<br>21R, 22, 22D, 23, 27, 32, 34, 35, 49, 50, and 51 do not require Dissolved SO4/F. |  |                                                                                                                                                                                                                                                                           |  |
| PROJECT NAME/NUMBER<br><u>Hennepin Q1 Groundwater</u>                                                                                                                                                                                                                                                                                                                                                                                                                               |            | SAMPLE COLLECTOR'S NAME<br>_____           |                    | # and Type of Containers<br>UNP _____<br>HNO3 _____<br>NaOH _____<br>H2SO4 _____<br>HCL _____<br>MeOH _____<br>NaHSO4 _____<br>TSP _____<br>Other _____                                                                                                                                                            |  | INDICATE ANALYSIS REQUESTED<br>BTEX/Percl*<br>D - NH3/OOH<br>T - NH3/OOH<br>D - Cyanide<br>T - Cyanide<br>D - Metals<br>T - Metals<br>Total Nitrate<br>D - Cl/SO4/F-<br>Total Metals<br>Total Alkalinity<br>Bicarb./Carb.<br>TDS, Total F-<br>Total Cl/SO4<br>Field Tests |  |
| RESULTS REQUESTED<br><input checked="" type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge)<br><input type="checkbox"/> Other _____ <input type="checkbox"/> 3 Day (50% Surcharge)                                                                                                                                                                                                                                                                          |            | BILLING INSTRUCTIONS<br><u>Vistra PO#s</u> |                    |                                                                                                                                                                                                                                                                                                                    |  |                                                                                                                                                                                                                                                                           |  |
| Lab Use Only                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Sample ID  | Date/Time Sampled                          | Matrix             |                                                                                                                                                                                                                                                                                                                    |  |                                                                                                                                                                                                                                                                           |  |
| <u>22030530-012</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <u>12</u>  | <u>03/23/22 0850</u>                       | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                    |  |                                                                                                                                                                                                                                                                           |  |
| <u>013</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>13</u>  | <u>03/23/22 0907</u>                       | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                    |  |                                                                                                                                                                                                                                                                           |  |
| <u>014</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>15</u>  | <u>03/23/22 0944</u>                       | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                    |  |                                                                                                                                                                                                                                                                           |  |
| <u>015</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>16</u>  | <u>03/23/22 1450</u>                       | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                    |  |                                                                                                                                                                                                                                                                           |  |
| <u>016</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>17</u>  | <u>03/23/22 1504</u>                       | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                    |  |                                                                                                                                                                                                                                                                           |  |
| <u>017</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>18D</u> | <u>03/23/22 1151</u>                       | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                    |  |                                                                                                                                                                                                                                                                           |  |
| <u>018</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>18S</u> | <u>03/23/22 1157</u>                       | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                    |  |                                                                                                                                                                                                                                                                           |  |
| <u>019</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>19D</u> | <u>03/23/22 1028</u>                       | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                    |  |                                                                                                                                                                                                                                                                           |  |
| <u>020</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>19S</u> | <u>3/23/22 1014</u>                        | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                    |  |                                                                                                                                                                                                                                                                           |  |
| <u>021</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>21R</u> | <u>3/22/22 0844</u>                        | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                    |  |                                                                                                                                                                                                                                                                           |  |
| <u>022</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>22</u>  | <u>03/22/22 1150</u>                       | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                    |  |                                                                                                                                                                                                                                                                           |  |
| Relinquished By<br>                                                                                                                                                                                                                                                                                                                                                                               |            | Date/Time<br><u>3-24-22 0750</u>           |                    | Received By<br>                                                                                                                                                                                                               |  | Date/Time<br><u>3/24/22 0750</u>                                                                                                                                                                                                                                          |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            |                                            |                    |                                                                                                                                                                                                                                                                                                                    |  |                                                                                                                                                                                                                                                                           |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            |                                            |                    |                                                                                                                                                                                                                                                                                                                    |  |                                                                                                                                                                                                                                                                           |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            |                                            |                    |                                                                                                                                                                                                                                                                                                                    |  |                                                                                                                                                                                                                                                                           |  |

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# CHAIN OF CUSTODY

Pg 3 of 5 Workorder # 22030530

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

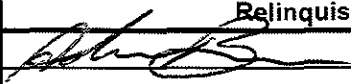
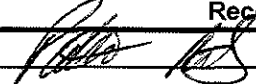
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             |                                            |                    |                                                                                                                                                                                                                                                                                                                    |            |                                  |               |               |                  |               |               |              |             |       |                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |           |             |             |             |             |            |              |               |               |                  |               |               |              |             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------------------------|---------------|---------------|------------------|---------------|---------------|--------------|-------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------|-------------|-------------|-------------|-------------|------------|--------------|---------------|---------------|------------------|---------------|---------------|--------------|-------------|
| Client: <u>Ramboll / Vistra</u><br>Address: <u>234 W. Florida St.</u><br>City/State/Zip: <u>Milwaukee, WI 53204</u><br>Contact: <u>Eric Bauer</u> Phone: <u>(414) 837-3607</u><br>Email: <u>eric.bauer@ramboll.com</u> Fax: _____                                                                                                                                                                                                                                                    |             |                                            |                    | Samples on: <input type="checkbox"/> ICE <input type="checkbox"/> BLUE ICE <input type="checkbox"/> NO ICE _____ °C LTG# _____<br>Preserved in: <input type="checkbox"/> LAB <input type="checkbox"/> FIELD <u>FOR LAB USE ONLY</u><br>LAB NOTES: _____                                                            |            |                                  |               |               |                  |               |               |              |             |       |                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |           |             |             |             |             |            |              |               |               |                  |               |               |              |             |
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| PROJECT NAME/NUMBER<br><u>Hennepin Q1 Groundwater</u>                                                                                                                                                                                                                                                                                                                                                                                                                                |             | SAMPLE COLLECTOR'S NAME<br>_____           |                    | # and Type of Containers<br><table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>UNP</td> <td>HNO3</td> <td>NaOH</td> <td>H2SO4</td> <td>HCL</td> <td>MeOH</td> <td>NaHSO4</td> <td>TSP</td> <td>Other</td> </tr> </table>                                                                   |            | UNP                              | HNO3          | NaOH          | H2SO4            | HCL           | MeOH          | NaHSO4       | TSP         | Other | INDICATE ANALYSIS REQUESTED<br><table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>BTEX/Per*</td> <td>D - NH3/OOH</td> <td>T - NH3/OOH</td> <td>D - Cyanide</td> <td>T - Cyanide</td> <td>D - Metals</td> <td>Total Metals</td> <td>D - Cl/SO4/F-</td> <td>Total Nitrate</td> <td>Total Alkalinity</td> <td>Bicarb./Carb.</td> <td>TDS, Total F-</td> <td>Total Cl/SO4</td> <td>Field Tests</td> </tr> </table> |  | BTEX/Per* | D - NH3/OOH | T - NH3/OOH | D - Cyanide | T - Cyanide | D - Metals | Total Metals | D - Cl/SO4/F- | Total Nitrate | Total Alkalinity | Bicarb./Carb. | TDS, Total F- | Total Cl/SO4 | Field Tests |
| UNP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | HNO3        | NaOH                                       | H2SO4              | HCL                                                                                                                                                                                                                                                                                                                | MeOH       | NaHSO4                           | TSP           | Other         |                  |               |               |              |             |       |                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |           |             |             |             |             |            |              |               |               |                  |               |               |              |             |
| BTEX/Per*                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | D - NH3/OOH | T - NH3/OOH                                | D - Cyanide        | T - Cyanide                                                                                                                                                                                                                                                                                                        | D - Metals | Total Metals                     | D - Cl/SO4/F- | Total Nitrate | Total Alkalinity | Bicarb./Carb. | TDS, Total F- | Total Cl/SO4 | Field Tests |       |                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |           |             |             |             |             |            |              |               |               |                  |               |               |              |             |
| RESULTS REQUESTED<br><input checked="" type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge)<br><input type="checkbox"/> Other _____ <input type="checkbox"/> 3 Day (50% Surcharge)                                                                                                                                                                                                                                                                           |             | BILLING INSTRUCTIONS<br><u>Vistra PO#s</u> |                    |                                                                                                                                                                                                                                                                                                                    |            |                                  |               |               |                  |               |               |              |             |       |                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |           |             |             |             |             |            |              |               |               |                  |               |               |              |             |
| Lab Use Only                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Sample ID   | Date/Time Sampled                          | Matrix             |                                                                                                                                                                                                                                                                                                                    |            |                                  |               |               |                  |               |               |              |             |       |                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |           |             |             |             |             |            |              |               |               |                  |               |               |              |             |
| <u>22030530-223</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <u>22D</u>  | <u>03/22/22 1216</u>                       | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                    |            |                                  |               |               |                  |               |               |              |             |       |                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |           |             |             |             |             |            |              |               |               |                  |               |               |              |             |
| <u>024</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <u>23</u>   | <u>03/22/22 1115</u>                       | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                    |            |                                  |               |               |                  |               |               |              |             |       |                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |           |             |             |             |             |            |              |               |               |                  |               |               |              |             |
| <u>025</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <u>25</u>   | <u>03/22/22 1351</u>                       | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                    |            |                                  |               |               |                  |               |               |              |             |       |                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |           |             |             |             |             |            |              |               |               |                  |               |               |              |             |
| <u>026</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <u>26</u>   | <u>03/22/22 1352</u>                       | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                    |            |                                  |               |               |                  |               |               |              |             |       |                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |           |             |             |             |             |            |              |               |               |                  |               |               |              |             |
| <u>027</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <u>27</u>   | <u>03/23/22 0456</u>                       | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                    |            |                                  |               |               |                  |               |               |              |             |       |                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |           |             |             |             |             |            |              |               |               |                  |               |               |              |             |
| <u>028</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <u>30</u>   | <u>03/21/22 1340</u>                       | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                    |            |                                  |               |               |                  |               |               |              |             |       |                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |           |             |             |             |             |            |              |               |               |                  |               |               |              |             |
| <u>029</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <u>31</u>   | <u>03/21/22 1334</u>                       | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                    |            |                                  |               |               |                  |               |               |              |             |       |                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |           |             |             |             |             |            |              |               |               |                  |               |               |              |             |
| <u>030</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <u>32</u>   | <u>03/22/22 1018</u>                       | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                    |            |                                  |               |               |                  |               |               |              |             |       |                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |           |             |             |             |             |            |              |               |               |                  |               |               |              |             |
| <u>031</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <u>33</u>   | <u>03/21/22 1346</u>                       | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                    |            |                                  |               |               |                  |               |               |              |             |       |                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |           |             |             |             |             |            |              |               |               |                  |               |               |              |             |
| <u>032</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <u>34</u>   | <u>03/22/22 0804</u>                       | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                    |            |                                  |               |               |                  |               |               |              |             |       |                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |           |             |             |             |             |            |              |               |               |                  |               |               |              |             |
| <u>033</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <u>35</u>   | <u>03/22/22 0410</u>                       | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                    |            |                                  |               |               |                  |               |               |              |             |       |                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |           |             |             |             |             |            |              |               |               |                  |               |               |              |             |
| Relinquished By<br>                                                                                                                                                                                                                                                                                                                                                                                |             | Date/Time<br><u>3-24-22 0750</u>           |                    | Received By<br>                                                                                                                                                                                                               |            | Date/Time<br><u>3/24/22 0750</u> |               |               |                  |               |               |              |             |       |                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |           |             |             |             |             |            |              |               |               |                  |               |               |              |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             |                                            |                    |                                                                                                                                                                                                                                                                                                                    |            |                                  |               |               |                  |               |               |              |             |       |                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |           |             |             |             |             |            |              |               |               |                  |               |               |              |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             |                                            |                    |                                                                                                                                                                                                                                                                                                                    |            |                                  |               |               |                  |               |               |              |             |       |                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |           |             |             |             |             |            |              |               |               |                  |               |               |              |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             |                                            |                    |                                                                                                                                                                                                                                                                                                                    |            |                                  |               |               |                  |               |               |              |             |       |                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |           |             |             |             |             |            |              |               |               |                  |               |               |              |             |

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# CHAIN OF CUSTODY

Pg 4 of 5 Workorder # 22030530

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

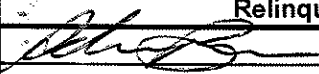
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |              |                                            |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                  |              |               |               |                  |               |               |              |            |             |             |             |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| Client: <u>Ramboll / Vistra</u><br>Address: <u>234 W. Florida St.</u><br>City/State/Zip: <u>Milwaukee, WI 53204</u><br>Contact: <u>Eric Bauer</u> Phone: <u>(414) 837-3607</u><br>Email: <u>eric.bauer@ramboll.com</u> Fax: _____                                                                                                                                                                                                                                                    |              |                                            |                    | Samples on: <input type="checkbox"/> ICE <input type="checkbox"/> BLUE ICE <input type="checkbox"/> NO ICE _____ °C LTG# _____<br>Preserved in: <input type="checkbox"/> LAB <input type="checkbox"/> FIELD <u>FOR LAB USE ONLY</u><br>LAB NOTES: _____                                                                                                                                                                                                                                                                                                                                                     |               |                                  |              |               |               |                  |               |               |              |            |             |             |             |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Are these samples known to be involved in litigation? If yes, a surcharge will apply: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Are these samples known to be hazardous? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |              |                                            |                    | Client Comments:<br>Field Tests = pH, DO, ORP, Conductivity, Temperature, Turbidity, and DTW<br>*Perchlorate subcontracted to Keystone.<br>Multiple program reports will be generated (metals lists per program requirements).<br>21R, 22, 22D, 23, 27, 32, 34, 35, 49, 50, and 51 do not require Dissolved SO4/F.                                                                                                                                                                                                                                                                                          |               |                                  |              |               |               |                  |               |               |              |            |             |             |             |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PROJECT NAME/NUMBER<br><u>Hennepin Q1 Groundwater</u>                                                                                                                                                                                                                                                                                                                                                                                                                                |              | SAMPLE COLLECTOR'S NAME<br>_____           |                    | # and Type of Containers<br><table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>UNP</td> <td>HNO3</td> <td>NaOH</td> <td>H2SO4</td> <td>HCL</td> <td>MeOH</td> <td>NaHSO4</td> <td>TSP</td> <td>Other</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>                                                                                                                                                                                                                                              |               | UNP                              | HNO3         | NaOH          | H2SO4         | HCL              | MeOH          | NaHSO4        | TSP          | Other      |             |             |             |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| UNP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | HNO3         | NaOH                                       | H2SO4              | HCL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | MeOH          | NaHSO4                           | TSP          | Other         |               |                  |               |               |              |            |             |             |             |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |              |                                            |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                  |              |               |               |                  |               |               |              |            |             |             |             |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| RESULTS REQUESTED<br><input checked="" type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge)<br><input type="checkbox"/> Other _____ <input type="checkbox"/> 3 Day (50% Surcharge)                                                                                                                                                                                                                                                                           |              | BILLING INSTRUCTIONS<br><u>Vistra PO#s</u> |                    | INDICATE ANALYSIS REQUESTED<br><table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Field Tests</td> <td>Total C/ISO4</td> <td>TDS, Total F-</td> <td>Bicarb./Carb.</td> <td>Total Alkalinity</td> <td>Total Nitrate</td> <td>D - C/ISO4/F-</td> <td>Total Metals</td> <td>D - Metals</td> <td>T - Cyanide</td> <td>D - Cyanide</td> <td>T - NH3/OOH</td> <td>D - NH3/OOH</td> <td>BTEX/Per*</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table> |               | Field Tests                      | Total C/ISO4 | TDS, Total F- | Bicarb./Carb. | Total Alkalinity | Total Nitrate | D - C/ISO4/F- | Total Metals | D - Metals | T - Cyanide | D - Cyanide | T - NH3/OOH | D - NH3/OOH | BTEX/Per* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Field Tests                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Total C/ISO4 | TDS, Total F-                              | Bicarb./Carb.      | Total Alkalinity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Total Nitrate | D - C/ISO4/F-                    | Total Metals | D - Metals    | T - Cyanide   | D - Cyanide      | T - NH3/OOH   | D - NH3/OOH   | BTEX/Per*    |            |             |             |             |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |              |                                            |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                  |              |               |               |                  |               |               |              |            |             |             |             |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lab Use Only                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Sample ID    | Date/Time Sampled                          | Matrix             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                  |              |               |               |                  |               |               |              |            |             |             |             |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>22030530-034</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <u>36</u>    | <u>03/21/22 1354</u>                       | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                  |              |               |               |                  |               |               |              |            |             |             |             |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>035</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <u>40S</u>   | <u>03/27/22 1041</u>                       | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                  |              |               |               |                  |               |               |              |            |             |             |             |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>036</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <u>45S</u>   | <u>03/23/22 1236</u>                       | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                  |              |               |               |                  |               |               |              |            |             |             |             |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>037</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <u>46</u>    | <u>03/23/22 0925</u>                       | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                  |              |               |               |                  |               |               |              |            |             |             |             |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>038</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <u>47</u>    | <u>03/23/22 0827</u>                       | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                  |              |               |               |                  |               |               |              |            |             |             |             |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>039</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <u>48</u>    | <u>03/23/22 1056</u>                       | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                  |              |               |               |                  |               |               |              |            |             |             |             |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>040</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <u>49</u>    | <u>03/22/22 1132</u>                       | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                  |              |               |               |                  |               |               |              |            |             |             |             |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>041</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <u>50</u>    | <u>03/22/22 1235</u>                       | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                  |              |               |               |                  |               |               |              |            |             |             |             |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>042</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <u>51</u>    | <u>03/22/22 1046</u>                       | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                  |              |               |               |                  |               |               |              |            |             |             |             |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>043</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <u>55</u>    | <u>03/21/22 50.3</u>                       | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                  |              |               |               |                  |               |               |              |            |             |             |             |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>044</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <u>SG02</u>  | <u>03/21/22 1401</u>                       | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                  |              |               |               |                  |               |               |              |            |             |             |             |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Relinquished By<br>                                                                                                                                                                                                                                                                                                                                                                                |              | Date/Time<br><u>3-24-22 0750</u>           |                    | Received By<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |               | Date/Time<br><u>3/24/22 0750</u> |              |               |               |                  |               |               |              |            |             |             |             |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |              |                                            |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                  |              |               |               |                  |               |               |              |            |             |             |             |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |              |                                            |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                  |              |               |               |                  |               |               |              |            |             |             |             |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |              |                                            |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                  |              |               |               |                  |               |               |              |            |             |             |             |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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# CHAIN OF CUSTODY

Pg 5 of 5 Workorder # 22030530

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                 |                                                                                                                                           |                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                  |              |               |               |                  |               |               |              |            |             |             |             |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| PROJECT NAME/NUMBER<br><u>Hennepin Q1 Groundwater</u>                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                 | SAMPLE COLLECTOR'S NAME<br>_____                                                                                                          |                                                                                                                                                                                                                                    | # and Type of Containers<br><table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>UNP</td> <td>HNO3</td> <td>NaOH</td> <td>H2SO4</td> <td>HCL</td> <td>MeOH</td> <td>NaHSO4</td> <td>TSP</td> <td>Other</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>                                                                                                                                                                                                                                              |               | UNP                              | HNO3         | NaOH          | H2SO4         | HCL              | MeOH          | NaHSO4        | TSP          | Other      |             |             |             |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| UNP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | HNO3                                                                                            | NaOH                                                                                                                                      | H2SO4                                                                                                                                                                                                                              | HCL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | MeOH          | NaHSO4                           | TSP          | Other         |               |                  |               |               |              |            |             |             |             |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                 |                                                                                                                                           |                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                  |              |               |               |                  |               |               |              |            |             |             |             |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| Field Tests                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Total C/ISO4                                                                                    | TDS, Total F-                                                                                                                             | Bicarb./Carb.                                                                                                                                                                                                                      | Total Alkalinity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Total Nitrate | D - Cl/SO4/F-                    | Total Metals | D - Metals    | T - Cyanide   | D - Cyanide      | T - NH3/OOH   | D - NH3/OOH   | BTEX/Per*    |            |             |             |             |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                 |                                                                                                                                           |                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                  |              |               |               |                  |               |               |              |            |             |             |             |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lab Use Only<br><u>22030530-045</u><br><u>046</u><br><u>047</u><br><u>048</u><br><u>049</u>                                                                                                                                                                                                                                                                                                                                                                                          | Sample ID<br><u>XPW01</u><br><u>XPW02</u><br><u>XPW03</u><br><u>XSG01</u><br><u>Field Blank</u> | Date/Time Sampled<br><u>03/23/22 1301</u><br><u>03/23/22 0806</u><br><u>03/23/22 1312</u><br><u>03/21/22 1253</u><br><u>03/23/22 1970</u> | Matrix<br><u>Groundwater</u><br><u>Groundwater</u><br><u>Groundwater</u><br><u>Groundwater</u><br><u>Groundwater</u><br><u>Groundwater</u><br><u>Groundwater</u><br><u>Groundwater</u><br><u>Groundwater</u><br><u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                  |              |               |               |                  |               |               |              |            |             |             |             |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Relinquished By<br>                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                 | Date/Time<br><u>3-24-22 0750</u>                                                                                                          |                                                                                                                                                                                                                                    | Received By<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |               | Date/Time<br><u>3/24/22 0750</u> |              |               |               |                  |               |               |              |            |             |             |             |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

\*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See [www.teklabinc.com](http://www.teklabinc.com) for terms and conditions

April 21, 2022

Eric Bauer  
Ramboll  
234 W. Florida St.  
5th Floor  
Milwaukee, WI 61704  
TEL: (414) 837-3607  
FAX:



|           |         |
|-----------|---------|
| Illinois  | 100226  |
| Kansas    | E-10374 |
| Louisiana | 05002   |
| Louisiana | 05003   |
| Oklahoma  | 9978    |

**RE:** Hennepin Q1 Groundwater

**WorkOrder:** 22030531

Dear Eric Bauer:

TEKLAB, INC received 24 samples on 3/24/2022 7:50:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Elizabeth A. Hurley  
Project Manager  
(618)344-1004 ex 33  
[ehurley@teklabinc.com](mailto:ehurley@teklabinc.com)

**Client:** Ramboll

**Work Order:** 22030531

**Client Project:** Hennepin Q1 Groundwater

**Report Date:** 21-Apr-22

**This reporting package includes the following:**

|                      |          |
|----------------------|----------|
| Cover Letter         | 1        |
| Report Contents      | 2        |
| Definitions          | 3        |
| Case Narrative       | 5        |
| Accreditations       | 6        |
| Laboratory Results   | 7        |
| Sample Summary       | 16       |
| Dates Report         | 17       |
| Receiving Check List | 18       |
| Chain of Custody     | Appended |



**Client:** Ramboll

**Work Order:** 22030531

**Client Project:** Hennepin Q1 Groundwater

**Report Date:** 21-Apr-22

### Abbr Definition

\* Analytes on report marked with an asterisk are not NELAP accredited

CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.

CRQL A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.

DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.

DNI Did not ignite

DUP Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.

ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.

IDPH IL Dept. of Public Health

LCS Laboratory control sample is a sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.

LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).

MBLK Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.

MDL "The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."

MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).

MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).

MW Molecular weight

NC Data is not acceptable for compliance purposes

ND Not Detected at the Reporting Limit

NELAP NELAP Accredited

PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.

RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.

RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).

SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.

Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.

TIC Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"

TNTC Too numerous to count (> 200 CFU)

**Client:** Ramboll

**Work Order:** 22030531

**Client Project:** Hennepin Q1 Groundwater

**Report Date:** 21-Apr-22

### Qualifiers

- |                                                       |                                                              |
|-------------------------------------------------------|--------------------------------------------------------------|
| # - Unknown hydrocarbon                               | B - Analyte detected in associated Method Blank              |
| C - RL shown is a Client Requested Quantitation Limit | E - Value above quantitation range                           |
| H - Holding times exceeded                            | I - Associated internal standard was outside method criteria |
| J - Analyte detected below quantitation limits        | M - Manual Integration used to determine area response       |
| ND - Not Detected at the Reporting Limit              | R - RPD outside accepted recovery limits                     |
| S - Spike Recovery outside recovery limits            | T - TIC(Tentatively identified compound)                     |
| X - Value exceeds Maximum Contaminant Level           |                                                              |



## Case Narrative

<http://www.teklabinc.com/>

**Client:** Ramboll

**Work Order:** 22030531

**Client Project:** Hennepin Q1 Groundwater

**Report Date:** 21-Apr-22

**Cooler Receipt Temp:** 1.8 °C

An employee of Teklab, Inc. collected the sample(s).

Radium-226 and Radium-228 analysis was performed by Pace Analytical Services, LLC. See attached report for results.

Ash Pond No. 2 CCR 802 data is included in this report. EAH 4/21/22

### Locations

#### Collinsville

**Address** 5445 Horseshoe Lake Road  
Collinsville, IL 62234-7425  
**Phone** (618) 344-1004  
**Fax** (618) 344-1005  
**Email** jhriley@teklabinc.com

#### Collinsville Air

**Address** 5445 Horseshoe Lake Road  
Collinsville, IL 62234-7425  
**Phone** (618) 344-1004  
**Fax** (618) 344-1005  
**Email** EHurley@teklabinc.com

#### Springfield

**Address** 3920 Pintail Dr  
Springfield, IL 62711-9415  
**Phone** (217) 698-1004  
**Fax** (217) 698-1005  
**Email** KKlostermann@teklabinc.com

#### Chicago

**Address** 1319 Butterfield Rd.  
Downers Grove, IL 60515  
**Phone** (630) 324-6855  
**Fax**  
**Email** arenner@teklabinc.com

#### Kansas City

**Address** 8421 Nieman Road  
Lenexa, KS 66214  
**Phone** (913) 541-1998  
**Fax** (913) 541-1998  
**Email** jhriley@teklabinc.com

**Client:** Ramboll**Work Order:** 22030531**Client Project:** Hennepin Q1 Groundwater**Report Date:** 21-Apr-22

| State     | Dept | Cert #  | NELAP | Exp Date  | Lab          |
|-----------|------|---------|-------|-----------|--------------|
| Illinois  | IEPA | 100226  | NELAP | 1/31/2023 | Collinsville |
| Kansas    | KDHE | E-10374 | NELAP | 4/30/2022 | Collinsville |
| Louisiana | LDEQ | 05002   | NELAP | 6/30/2022 | Collinsville |
| Louisiana | LDEQ | 05003   | NELAP | 6/30/2022 | Collinsville |
| Oklahoma  | ODEQ | 9978    | NELAP | 8/31/2022 | Collinsville |
| Arkansas  | ADEQ | 88-0966 |       | 3/14/2023 | Collinsville |
| Illinois  | IDPH | 17584   |       | 5/31/2023 | Collinsville |
| Kentucky  | UST  | 0073    |       | 1/31/2023 | Collinsville |
| Missouri  | MDNR | 00930   |       | 5/31/2023 | Collinsville |
| Missouri  | MDNR | 930     |       | 1/31/2025 | Collinsville |

**Client:** Ramboll  
**Client Project:** Hennepin Q1 Groundwater  
**Lab ID:** 22030531-001  
**Matrix:** GROUNDWATER

**Work Order:** 22030531  
**Report Date:** 21-Apr-22  
**Client Sample ID:** 03R  
**Collection Date:** 03/23/2022 12:08

| Analyses                               | Certification | RL | Qual | Result       | Units | DF | Date Analyzed   | Batch   |
|----------------------------------------|---------------|----|------|--------------|-------|----|-----------------|---------|
| <b>EPA 903.0/904.0, RADIUM 226/228</b> |               |    |      |              |       |    |                 |         |
| Radium-226                             | *             | 0  |      | See Attached | pci/L | 1  | 04/05/2022 0:00 | R309630 |
| Radium-228                             | *             | 0  |      | See Attached | pci/L | 1  | 04/05/2022 0:00 | R309630 |

**Client:** Ramboll**Work Order:** 22030531**Client Project:** Hennepin Q1 Groundwater**Report Date:** 21-Apr-22**Lab ID:** 22030531-002**Client Sample ID:** 07**Matrix:** GROUNDWATER**Collection Date:** 03/22/2022 15:31

| Analyses                               | Certification | RL | Qual | Result       | Units | DF | Date Analyzed   | Batch   |
|----------------------------------------|---------------|----|------|--------------|-------|----|-----------------|---------|
| <b>EPA 903.0/904.0, RADIUM 226/228</b> |               |    |      |              |       |    |                 |         |
| Radium-226                             | *             | 0  |      | See Attached | pci/L | 1  | 04/05/2022 0:00 | R309630 |
| Radium-228                             | *             | 0  |      | See Attached | pci/L | 1  | 04/05/2022 0:00 | R309630 |

**Client:** Ramboll**Work Order:** 22030531**Client Project:** Hennepin Q1 Groundwater**Report Date:** 21-Apr-22**Lab ID:** 22030531-003**Client Sample ID:** 08**Matrix:** GROUNDWATER**Collection Date:** 03/22/2022 14:24

| Analyses                               | Certification | RL | Qual | Result       | Units | DF | Date Analyzed   | Batch   |
|----------------------------------------|---------------|----|------|--------------|-------|----|-----------------|---------|
| <b>EPA 903.0/904.0, RADIUM 226/228</b> |               |    |      |              |       |    |                 |         |
| Radium-226                             | *             | 0  |      | See Attached | pCi/L | 1  | 04/05/2022 0:00 | R309630 |
| Radium-228                             | *             | 0  |      | See Attached | pCi/L | 1  | 04/05/2022 0:00 | R309630 |

**Client:** Ramboll  
**Client Project:** Hennepin Q1 Groundwater  
**Lab ID:** 22030531-004  
**Matrix:** GROUNDWATER

**Work Order:** 22030531  
**Report Date:** 21-Apr-22  
**Client Sample ID:** 08 Duplicate  
**Collection Date:** 03/22/2022 14:24

| Analyses                               | Certification | RL | Qual | Result       | Units | DF | Date Analyzed   | Batch   |
|----------------------------------------|---------------|----|------|--------------|-------|----|-----------------|---------|
| <b>EPA 903.0/904.0, RADIUM 226/228</b> |               |    |      |              |       |    |                 |         |
| Radium-226                             | *             | 0  |      | See Attached | pci/L | 1  | 04/05/2022 0:00 | R309630 |
| Radium-228                             | *             | 0  |      | See Attached | pci/L | 1  | 04/05/2022 0:00 | R309630 |



**Client:** Ramboll**Work Order:** 22030531**Client Project:** Hennepin Q1 Groundwater**Report Date:** 21-Apr-22**Lab ID:** 22030531-005**Client Sample ID:** 08D**Matrix:** GROUNDWATER**Collection Date:** 03/22/2022 14:04

| Analyses                               | Certification | RL | Qual | Result       | Units | DF | Date Analyzed   | Batch   |
|----------------------------------------|---------------|----|------|--------------|-------|----|-----------------|---------|
| <b>EPA 903.0/904.0, RADIUM 226/228</b> |               |    |      |              |       |    |                 |         |
| Radium-226                             | *             | 0  |      | See Attached | pci/L | 1  | 04/05/2022 0:00 | R309630 |
| Radium-228                             | *             | 0  |      | See Attached | pci/L | 1  | 04/05/2022 0:00 | R309630 |

**Client:** Ramboll  
**Client Project:** Hennepin Q1 Groundwater  
**Lab ID:** 22030531-008  
**Matrix:** GROUNDWATER

**Work Order:** 22030531  
**Report Date:** 21-Apr-22  
**Client Sample ID:** 18S  
**Collection Date:** 03/23/2022 11:37

| Analyses                               | Certification | RL | Qual | Result       | Units | DF | Date Analyzed   | Batch   |
|----------------------------------------|---------------|----|------|--------------|-------|----|-----------------|---------|
| <b>EPA 903.0/904.0, RADIUM 226/228</b> |               |    |      |              |       |    |                 |         |
| Radium-226                             | *             | 0  |      | See Attached | pci/L | 1  | 04/04/2022 0:00 | R309630 |
| Radium-228                             | *             | 0  |      | See Attached | pci/L | 1  | 04/04/2022 0:00 | R309630 |

**Client:** Ramboll  
**Client Project:** Hennepin Q1 Groundwater  
**Lab ID:** 22030531-009  
**Matrix:** GROUNDWATER

**Work Order:** 22030531  
**Report Date:** 21-Apr-22  
**Client Sample ID:** 18D  
**Collection Date:** 03/23/2022 11:51

| Analyses                               | Certification | RL | Qual | Result       | Units | DF | Date Analyzed   | Batch   |
|----------------------------------------|---------------|----|------|--------------|-------|----|-----------------|---------|
| <b>EPA 903.0/904.0, RADIUM 226/228</b> |               |    |      |              |       |    |                 |         |
| Radium-226                             | *             | 0  |      | See Attached | pci/L | 1  | 04/04/2022 0:00 | R309630 |
| Radium-228                             | *             | 0  |      | See Attached | pci/L | 1  | 04/04/2022 0:00 | R309630 |

**Client:** Ramboll  
**Client Project:** Hennepin Q1 Groundwater  
**Lab ID:** 22030531-018  
**Matrix:** GROUNDWATER

**Work Order:** 22030531  
**Report Date:** 21-Apr-22  
**Client Sample ID:** 45S  
**Collection Date:** 03/23/2022 12:36

| Analyses                               | Certification | RL | Qual | Result       | Units | DF | Date Analyzed   | Batch   |
|----------------------------------------|---------------|----|------|--------------|-------|----|-----------------|---------|
| <b>EPA 903.0/904.0, RADIUM 226/228</b> |               |    |      |              |       |    |                 |         |
| Radium-226                             | *             | 0  |      | See Attached | pci/L | 1  | 04/08/2022 0:00 | R309630 |
| Radium-228                             | *             | 0  |      | See Attached | pci/L | 1  | 04/08/2022 0:00 | R309630 |

**Client:** Ramboll**Work Order:** 22030531**Client Project:** Hennepin Q1 Groundwater**Report Date:** 21-Apr-22**Lab ID:** 22030531-024**Client Sample ID:** Field Blank**Matrix:** AQUEOUS**Collection Date:** 03/23/2022 13:30

| Analyses                               | Certification | RL | Qual | Result       | Units | DF | Date Analyzed   | Batch   |
|----------------------------------------|---------------|----|------|--------------|-------|----|-----------------|---------|
| <b>EPA 903.0/904.0, RADIUM 226/228</b> |               |    |      |              |       |    |                 |         |
| Radium-226                             | *             | 0  |      | See Attached | pci/L | 1  | 04/09/2022 0:00 | R309630 |
| Radium-228                             | *             | 0  |      | See Attached | pci/L | 1  | 04/09/2022 0:00 | R309630 |

## Sample Summary

<http://www.teklabinc.com/>

**Client:** Ramboll

**Work Order:** 22030531

**Client Project:** Hennepin Q1 Groundwater

**Report Date:** 21-Apr-22

| Lab Sample ID | Client Sample ID | Matrix      | Fractions | Collection Date  |
|---------------|------------------|-------------|-----------|------------------|
| 22030531-001  | 03R              | Groundwater | 1         | 03/23/2022 12:08 |
| 22030531-002  | 07               | Groundwater | 1         | 03/22/2022 15:31 |
| 22030531-003  | 08               | Groundwater | 1         | 03/22/2022 14:24 |
| 22030531-004  | 08 Duplicate     | Groundwater | 1         | 03/22/2022 14:24 |
| 22030531-005  | 08D              | Groundwater | 1         | 03/22/2022 14:04 |
| 22030531-008  | 18S              | Groundwater | 1         | 03/23/2022 11:37 |
| 22030531-009  | 18D              | Groundwater | 1         | 03/23/2022 11:51 |
| 22030531-018  | 45S              | Groundwater | 1         | 03/23/2022 12:36 |
| 22030531-024  | Field Blank      | Aqueous     | 1         | 03/23/2022 13:30 |



## Dates Report

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22030531

Client Project: Hennepin Q1 Groundwater

Report Date: 21-Apr-22

| Sample ID     | Client Sample ID                | Collection Date  | Received Date   | Prep Date/Time | Analysis Date/Time |
|---------------|---------------------------------|------------------|-----------------|----------------|--------------------|
| Test Name     |                                 |                  |                 |                |                    |
| 22030531-001A | 03R                             | 03/23/2022 12:08 | 03/24/2022 7:50 |                |                    |
|               | EPA 903.0/904.0, Radium 226/228 |                  |                 |                | 04/05/2022 0:00    |
| 22030531-002A | 07                              | 03/22/2022 15:31 | 03/24/2022 7:50 |                |                    |
|               | EPA 903.0/904.0, Radium 226/228 |                  |                 |                | 04/05/2022 0:00    |
| 22030531-003A | 08                              | 03/22/2022 14:24 | 03/24/2022 7:50 |                |                    |
|               | EPA 903.0/904.0, Radium 226/228 |                  |                 |                | 04/05/2022 0:00    |
| 22030531-004A | 08 Duplicate                    | 03/22/2022 14:24 | 03/24/2022 7:50 |                |                    |
|               | EPA 903.0/904.0, Radium 226/228 |                  |                 |                | 04/05/2022 0:00    |
| 22030531-005A | 08D                             | 03/22/2022 14:04 | 03/24/2022 7:50 |                |                    |
|               | EPA 903.0/904.0, Radium 226/228 |                  |                 |                | 04/05/2022 0:00    |
| 22030531-008A | 18S                             | 03/23/2022 11:37 | 03/24/2022 7:50 |                |                    |
|               | EPA 903.0/904.0, Radium 226/228 |                  |                 |                | 04/04/2022 0:00    |
| 22030531-009A | 18D                             | 03/23/2022 11:51 | 03/24/2022 7:50 |                |                    |
|               | EPA 903.0/904.0, Radium 226/228 |                  |                 |                | 04/04/2022 0:00    |
| 22030531-018A | 45S                             | 03/23/2022 12:36 | 03/24/2022 7:50 |                |                    |
|               | EPA 903.0/904.0, Radium 226/228 |                  |                 |                | 04/08/2022 0:00    |
| 22030531-024A | Field Blank                     | 03/23/2022 13:30 | 03/24/2022 7:50 |                |                    |
|               | EPA 903.0/904.0, Radium 226/228 |                  |                 |                | 04/09/2022 0:00    |



## Receiving Check List

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22030531

Client Project: Hennepin Q1 Groundwater

Report Date: 21-Apr-22

Carrier: Adam Bridges

Received By: PWR

Completed by:

On:

24-Mar-22

Mary E. Kemp

Reviewed by:

On:

24-Mar-22

Elizabeth A. Hurley

Pages to follow:

Chain of custody

3

Extra pages included

40

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Temp °C 1.8

Type of thermal preservation?

None ☐

Ice ☒

Blue Ice ☐

Dry Ice ☐

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Reported field parameters measured:

Field ☐

Lab ☐

NA ☒

Container/Temp Blank temperature in compliance?

Yes ☒

No ☐

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water – at least one vial per sample has zero headspace?

Yes ☐

No ☐

No VOA vials ☒

Water - TOX containers have zero headspace?

Yes ☐

No ☐

No TOX containers ☒

Water - pH acceptable upon receipt?

Yes ☐

No ☒

NA ☐

NPDES/CWA TCN interferences checked/treated in the field?

Yes ☐

No ☐

NA ☒

Any No responses must be detailed below or on the COC.

pH strip #78011. - MKemp - 3/24/2022 4:27:34 PM

Additional nitric acid (80810) was needed in 08 and 34 upon arrival at the laboratory. - MKemp - 3/24/2022 4:27:36 PM



# CHAIN OF CUSTODY

Pg 1 of 3 Workorder # 22030531

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

| Client: <u>Ramboll / Vistra</u><br>Address: <u>234 W. Florida St.</u><br>City/State/Zip: <u>Milwaukee, WI 53204</u><br>Contact: <u>Eric Bauer</u> Phone: <u>(414) 837-3607</u><br>Email: <u>eric.bauer@ramboll.com</u> Fax: _____                                                                                                                                                                                                                                                   |                     |                                                       |                    | Samples on: <input checked="" type="checkbox"/> ICE <input type="checkbox"/> BLUE ICE <input type="checkbox"/> NO ICE <u>1.8 °C</u> LTG# <u>5</u><br>Preserved in: <input type="checkbox"/> LAB <input type="checkbox"/> FIELD <u>FOR LAB USE ONLY</u><br>LAB NOTES: <u>7801, additional HNO3 (80810) to 08+34 MEK 3/24/22</u>                        |      |                                  |      |       |       |     |      |        |     |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| PROJECT NAME/NUMBER<br><u>Hennepin Q1 Groundwater</u>                                                                                                                                                                                                                                                                                                                                                                                                                               |                     | SAMPLE COLLECTOR'S NAME<br><u>J. KILEY A. BRIDGES</u> |                    | # and Type of Containers<br><table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>UNP</th> <th>HNO3</th> <th>NaOH</th> <th>H2SO4</th> <th>HCL</th> <th>MeOH</th> <th>NaHSO4</th> <th>TSP</th> <th>Other</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table> |      | UNP                              | HNO3 | NaOH  | H2SO4 | HCL | MeOH | NaHSO4 | TSP | Other |  |  |  |  |  |  |  |  |  | INDICATE ANALYSIS REQUESTED<br><table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Ra226/228</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table> |  | Ra226/228 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| UNP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | HNO3                | NaOH                                                  | H2SO4              | HCL                                                                                                                                                                                                                                                                                                                                                   | MeOH | NaHSO4                           | TSP  | Other |       |     |      |        |     |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| Ra226/228                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                     |                                                       |                    |                                                                                                                                                                                                                                                                                                                                                       |      |                                  |      |       |       |     |      |        |     |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                                                       |                    |                                                                                                                                                                                                                                                                                                                                                       |      |                                  |      |       |       |     |      |        |     |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| RESULTS REQUESTED<br><input checked="" type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge)<br><input type="checkbox"/> Other _____ <input type="checkbox"/> 3 Day (50% Surcharge)                                                                                                                                                                                                                                                                          |                     | BILLING INSTRUCTIONS<br><u>Vistra PD#</u>             |                    |                                                                                                                                                                                                                                                                                                                                                       |      |                                  |      |       |       |     |      |        |     |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lab Use Only                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Sample ID           | Date/Time Sampled                                     | Matrix             |                                                                                                                                                                                                                                                                                                                                                       |      |                                  |      |       |       |     |      |        |     |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>22030531-001</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <u>03R</u>          | <u>03/23/22 1208</u>                                  | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                                                       |      |                                  |      |       |       |     |      |        |     |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>002</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>07</u>           | <u>03/23/22 1531</u>                                  | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                                                       |      |                                  |      |       |       |     |      |        |     |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>003</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>08</u>           | <u>03/22/22 1924</u>                                  | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                                                       |      |                                  |      |       |       |     |      |        |     |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>004</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>08 Duplicate</u> | <u>03/08/22 1424</u>                                  | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                                                       |      |                                  |      |       |       |     |      |        |     |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>005</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>08D</u>          | <u>03/23/22 1404</u>                                  | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                                                       |      |                                  |      |       |       |     |      |        |     |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>006</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>12</u>           | <u>03/23/22 0850</u>                                  | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                                                       |      |                                  |      |       |       |     |      |        |     |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>007</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>13</u>           | <u>03/23/22 0807</u>                                  | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                                                       |      |                                  |      |       |       |     |      |        |     |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>008</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>18S</u>          | <u>03/23/22 1137</u>                                  | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                                                       |      |                                  |      |       |       |     |      |        |     |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>009</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>18D</u>          | <u>03/23/22 151</u>                                   | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                                                       |      |                                  |      |       |       |     |      |        |     |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>010</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>21R</u>          | <u>3/20/22 0844</u>                                   | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                                                       |      |                                  |      |       |       |     |      |        |     |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>011</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>22</u>           | <u>03/22/22 1150</u>                                  | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                                                       |      |                                  |      |       |       |     |      |        |     |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Relinquished By<br><u>[Signature]</u>                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     | Date/Time<br><u>3-24-22 0750</u>                      |                    | Received By<br><u>[Signature]</u>                                                                                                                                                                                                                                                                                                                     |      | Date/Time<br><u>3/24/22 0850</u> |      |       |       |     |      |        |     |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                                                       |                    |                                                                                                                                                                                                                                                                                                                                                       |      |                                  |      |       |       |     |      |        |     |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

# CHAIN OF CUSTODY

Pg 1 of 3 Workorder # 22030531

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

| Client: <u>Ramboll / Vistra</u><br>Address: <u>234 W. Florida St.</u><br>City/State/Zip: <u>Milwaukee, WI 53204</u><br>Contact: <u>Eric Bauer</u> Phone: <u>(414) 837-3607</u><br>Email: <u>eric.bauer@ramboll.com</u> Fax: _____                                                                                                                                                                                                                                                   |                     |                                                        |                    | Samples on: <input checked="" type="checkbox"/> ICE <input type="checkbox"/> BLUE ICE <input type="checkbox"/> NO ICE <u>1.8 °C</u> LTG# <u>5</u><br>Preserved in: <input type="checkbox"/> LAB <input type="checkbox"/> FIELD <u>FOR LAB USE ONLY</u><br>LAB NOTES: <u>7801, additional HNO3 (80810) to 08+34 MEK 3/24/22</u>                        |      |                                  |      |       |       |     |      |        |     |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| PROJECT NAME/NUMBER<br><u>Hennepin Q1 Groundwater</u>                                                                                                                                                                                                                                                                                                                                                                                                                               |                     | SAMPLE COLLECTOR'S NAME<br><u>J. KILLEY A. BRIDGES</u> |                    | # and Type of Containers<br><table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>UNP</th> <th>HNO3</th> <th>NaOH</th> <th>H2SO4</th> <th>HCL</th> <th>MeOH</th> <th>NaHSO4</th> <th>TSP</th> <th>Other</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table> |      | UNP                              | HNO3 | NaOH  | H2SO4 | HCL | MeOH | NaHSO4 | TSP | Other |  |  |  |  |  |  |  |  |  | INDICATE ANALYSIS REQUESTED<br><table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Ra226/228</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table> |  | Ra226/228 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| UNP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | HNO3                | NaOH                                                   | H2SO4              | HCL                                                                                                                                                                                                                                                                                                                                                   | MeOH | NaHSO4                           | TSP  | Other |       |     |      |        |     |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| Ra226/228                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                     |                                                        |                    |                                                                                                                                                                                                                                                                                                                                                       |      |                                  |      |       |       |     |      |        |     |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                                                        |                    |                                                                                                                                                                                                                                                                                                                                                       |      |                                  |      |       |       |     |      |        |     |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| RESULTS REQUESTED<br><input checked="" type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge)<br><input type="checkbox"/> Other _____ <input type="checkbox"/> 3 Day (50% Surcharge)                                                                                                                                                                                                                                                                          |                     | BILLING INSTRUCTIONS<br><u>Vistra PD#</u>              |                    |                                                                                                                                                                                                                                                                                                                                                       |      |                                  |      |       |       |     |      |        |     |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lab Use Only                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Sample ID           | Date/Time Sampled                                      | Matrix             |                                                                                                                                                                                                                                                                                                                                                       |      |                                  |      |       |       |     |      |        |     |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>22030531-001</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <u>03R</u>          | <u>03/23/22 1208</u>                                   | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                                                       |      |                                  |      |       |       |     |      |        |     |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>002</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>07</u>           | <u>03/23/22 1531</u>                                   | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                                                       |      |                                  |      |       |       |     |      |        |     |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>003</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>08</u>           | <u>03/22/22 1924</u>                                   | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                                                       |      |                                  |      |       |       |     |      |        |     |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>004</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>08 Duplicate</u> | <u>03/08/22 1424</u>                                   | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                                                       |      |                                  |      |       |       |     |      |        |     |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>005</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>08D</u>          | <u>03/23/22 1404</u>                                   | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                                                       |      |                                  |      |       |       |     |      |        |     |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>006</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>12</u>           | <u>03/23/22 0850</u>                                   | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                                                       |      |                                  |      |       |       |     |      |        |     |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>007</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>13</u>           | <u>03/23/22 0807</u>                                   | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                                                       |      |                                  |      |       |       |     |      |        |     |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>008</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>18S</u>          | <u>03/23/22 1137</u>                                   | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                                                       |      |                                  |      |       |       |     |      |        |     |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>009</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>18D</u>          | <u>03/23/22 151</u>                                    | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                                                       |      |                                  |      |       |       |     |      |        |     |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>010</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>21R</u>          | <u>3/20/22 0844</u>                                    | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                                                       |      |                                  |      |       |       |     |      |        |     |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <u>011</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>22</u>           | <u>03/22/22 1150</u>                                   | <u>Groundwater</u> |                                                                                                                                                                                                                                                                                                                                                       |      |                                  |      |       |       |     |      |        |     |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Relinquished By<br><u>[Signature]</u>                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     | Date/Time<br><u>3-24-22 0750</u>                       |                    | Received By<br><u>[Signature]</u>                                                                                                                                                                                                                                                                                                                     |      | Date/Time<br><u>3/24/22 0850</u> |      |       |       |     |      |        |     |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                                                        |                    |                                                                                                                                                                                                                                                                                                                                                       |      |                                  |      |       |       |     |      |        |     |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                                                        |                    |                                                                                                                                                                                                                                                                                                                                                       |      |                                  |      |       |       |     |      |        |     |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                                                        |                    |                                                                                                                                                                                                                                                                                                                                                       |      |                                  |      |       |       |     |      |        |     |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



## CHAIN OF CUSTODY

Pg 3 of 3 Workorder # 22030531

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

[illegible]

\*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See [www.teklabinc.com](http://www.teklabinc.com) for terms and conditions



## CHAIN OF CUSTODY

Pg 3 of 3 Workorder # 22030531

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                |  |                                                                                                                                                                                                                                                                                                                                                         |  |                                    |  |      |  |       |  |     |  |      |  |        |  |     |  |       |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------|--|------|--|-------|--|-----|--|------|--|--------|--|-----|--|-------|--|-----------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Client: <u>Ramboll / Vistra</u><br>Address: <u>234 W. Florida St.</u><br>City/State/Zip: <u>Milwaukee, WI 53204</u><br>Contact: <u>Eric Bauer</u> Phone: <u>(414) 837-3607</u><br>Email: <u>eric.bauer@ramboll.com</u> Fax: _____                                                                                                                                                                                                                                                    |  |                                |  | Samples on: <input type="checkbox"/> ICE <input type="checkbox"/> BLUE ICE <input type="checkbox"/> NO ICE ____ °C LTG# ____<br>Preserved in: <input type="checkbox"/> LAB <input type="checkbox"/> FIELD <u>FOR LAB USE ONLY</u><br>LAB NOTES:<br><br>Client Comments:<br>Subcontracted to Pace-National<br>Multiple program reports will be generated |  |                                    |  |      |  |       |  |     |  |      |  |        |  |     |  |       |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Are these samples known to be involved in litigation? If yes, a surcharge will apply: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Are these samples known to be hazardous? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |  |                                |  |                                                                                                                                                                                                                                                                                                                                                         |  |                                    |  |      |  |       |  |     |  |      |  |        |  |     |  |       |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>PROJECT NAME/NUMBER</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | <b>SAMPLE COLLECTOR'S NAME</b> |  | <b># and Type of Containers</b>                                                                                                                                                                                                                                                                                                                         |  | <b>INDICATE ANALYSIS REQUESTED</b> |  |      |  |       |  |     |  |      |  |        |  |     |  |       |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Hennepin Q1 Groundwater                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                                |  | UNP                                                                                                                                                                                                                                                                                                                                                     |  | HNO3                               |  | NaOH |  | H2SO4 |  | HCL |  | MeOH |  | NaHSO4 |  | TSP |  | Other |  | Ra226/228 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>RESULTS REQUESTED</b><br><input checked="" type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge)<br><input type="checkbox"/> Other _____ <input type="checkbox"/> 3 Day (50% Surcharge)                                                                                                                                                                                                                                                                    |  |                                |  | <b>BILLING INSTRUCTIONS</b>                                                                                                                                                                                                                                                                                                                             |  |                                    |  | 2    |  |       |  |     |  |      |  |        |  |     |  |       |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>Lab Use Only</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | <b>Sample ID</b>               |  | <b>Date/Time Sampled</b>                                                                                                                                                                                                                                                                                                                                |  | <b>Matrix</b>                      |  | 2    |  |       |  |     |  |      |  |        |  |     |  |       |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 22030531 - 023                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  | 51                             |  | 03/22/22 10:16                                                                                                                                                                                                                                                                                                                                          |  | Groundwater                        |  | 2    |  |       |  |     |  |      |  |        |  |     |  |       |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 024                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | Field Blank                    |  | 03/23/22 13:00                                                                                                                                                                                                                                                                                                                                          |  | Groundwater Ag                     |  | 2    |  |       |  |     |  |      |  |        |  |     |  |       |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                |  |                                                                                                                                                                                                                                                                                                                                                         |  | Groundwater 2nd 3/23/22            |  |      |  |       |  |     |  |      |  |        |  |     |  |       |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                |  |                                                                                                                                                                                                                                                                                                                                                         |  | Groundwater                        |  |      |  |       |  |     |  |      |  |        |  |     |  |       |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                |  |                                                                                                                                                                                                                                                                                                                                                         |  | Groundwater                        |  |      |  |       |  |     |  |      |  |        |  |     |  |       |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                |  |                                                                                                                                                                                                                                                                                                                                                         |  | Groundwater                        |  |      |  |       |  |     |  |      |  |        |  |     |  |       |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                |  |                                                                                                                                                                                                                                                                                                                                                         |  | Groundwater                        |  |      |  |       |  |     |  |      |  |        |  |     |  |       |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                |  |                                                                                                                                                                                                                                                                                                                                                         |  | Groundwater                        |  |      |  |       |  |     |  |      |  |        |  |     |  |       |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                |  |                                                                                                                                                                                                                                                                                                                                                         |  | Groundwater                        |  |      |  |       |  |     |  |      |  |        |  |     |  |       |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                |  |                                                                                                                                                                                                                                                                                                                                                         |  | Groundwater                        |  |      |  |       |  |     |  |      |  |        |  |     |  |       |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                |  |                                                                                                                                                                                                                                                                                                                                                         |  | Groundwater                        |  |      |  |       |  |     |  |      |  |        |  |     |  |       |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                |  |                                                                                                                                                                                                                                                                                                                                                         |  | Groundwater                        |  |      |  |       |  |     |  |      |  |        |  |     |  |       |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                |  |                                                                                                                                                                                                                                                                                                                                                         |  | Groundwater                        |  |      |  |       |  |     |  |      |  |        |  |     |  |       |  |           |  |  |  |  |  |  |  |  |  |  |  |  |  |

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**TEKLAB, Inc.**

Sample Delivery Group: L1476141  
Samples Received: 03/28/2022  
Project Number: 22030531  
Description:

Report To: Elizabeth Hurley  
5445 Horseshoe Lake Road  
Collinsville, IL 62234

Entire Report Reviewed By:



Mark W. Beasley  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

**Pace Analytical National**12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 [www.pacenational.com](http://www.pacenational.com)

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|                 |
|-----------------|
| <sup>1</sup> Cp |
| <sup>2</sup> Tc |
| <sup>3</sup> Ss |
| <sup>4</sup> Cn |
| <sup>5</sup> Sr |
| <sup>6</sup> Qc |
| <sup>7</sup> Gl |
| <sup>8</sup> Al |
| <sup>9</sup> Sc |



# SAMPLE SUMMARY

## 22030531-001A L1476141-01 Non-Potable Water

Collected by  
Collected date/time  
03/23/22 12:08  
Received date/time  
03/28/22 09:00

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320     | WG1840609 | 1        | 03/30/22 15:24        | 04/06/22 12:30     | JMR     | Mt. Juliet, TN |
| Radiochemistry by Method Calculation  | WG1840707 | 1        | 04/01/22 13:55        | 04/06/22 12:30     | JMR     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1840707 | 1        | 04/01/22 13:55        | 04/05/22 13:10     | RGT     | Mt. Juliet, TN |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

## 22030531-002A L1476141-02 Non-Potable Water

Collected by  
Collected date/time  
03/22/22 15:31  
Received date/time  
03/28/22 09:00

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320     | WG1840609 | 1        | 03/30/22 15:24        | 04/06/22 12:30     | JMR     | Mt. Juliet, TN |
| Radiochemistry by Method Calculation  | WG1840707 | 1        | 04/01/22 13:55        | 04/06/22 12:30     | JMR     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1840707 | 1        | 04/01/22 13:55        | 04/05/22 13:10     | RGT     | Mt. Juliet, TN |

## 22030531-003A L1476141-03 Non-Potable Water

Collected by  
Collected date/time  
03/22/22 14:24  
Received date/time  
03/28/22 09:00

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320     | WG1840609 | 1        | 03/30/22 15:24        | 04/06/22 12:30     | JMR     | Mt. Juliet, TN |
| Radiochemistry by Method Calculation  | WG1840707 | 1        | 04/01/22 13:55        | 04/06/22 12:30     | JMR     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1840707 | 1        | 04/01/22 13:55        | 04/05/22 13:10     | RGT     | Mt. Juliet, TN |

## 22030531-004A L1476141-04 Non-Potable Water

Collected by  
Collected date/time  
03/22/22 14:24  
Received date/time  
03/28/22 09:00

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320     | WG1840609 | 1        | 03/30/22 15:24        | 04/06/22 12:30     | JMR     | Mt. Juliet, TN |
| Radiochemistry by Method Calculation  | WG1840707 | 1        | 04/01/22 13:55        | 04/06/22 12:30     | JMR     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1840707 | 1        | 04/01/22 13:55        | 04/05/22 13:10     | RGT     | Mt. Juliet, TN |

## 22030531-005A L1476141-05 Non-Potable Water

Collected by  
Collected date/time  
03/22/22 14:04  
Received date/time  
03/28/22 09:00

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320     | WG1840609 | 1        | 03/30/22 15:24        | 04/06/22 12:30     | JMR     | Mt. Juliet, TN |
| Radiochemistry by Method Calculation  | WG1840707 | 1        | 04/01/22 13:55        | 04/06/22 12:30     | JMR     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1840707 | 1        | 04/01/22 13:55        | 04/05/22 13:10     | RGT     | Mt. Juliet, TN |

## 22030531-006A L1476141-06 Non-Potable Water

Collected by  
Collected date/time  
03/23/22 08:50  
Received date/time  
03/28/22 09:00

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320     | WG1840609 | 1        | 03/30/22 15:24        | 04/06/22 12:30     | JMR     | Mt. Juliet, TN |
| Radiochemistry by Method Calculation  | WG1840707 | 1        | 04/01/22 13:55        | 04/06/22 12:30     | JMR     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1840707 | 1        | 04/01/22 13:55        | 04/05/22 13:10     | RGT     | Mt. Juliet, TN |

# SAMPLE SUMMARY

## 22030531-007A L1476141-07 Non-Potable Water

Collected by  
Collected date/time  
03/23/22 09:07  
Received date/time  
03/28/22 09:00

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320     | WG1840609 | 1        | 03/30/22 15:24        | 04/04/22 15:55     | JMR     | Mt. Juliet, TN |
| Radiochemistry by Method Calculation  | WG1840707 | 1        | 04/01/22 13:55        | 04/05/22 13:10     | JMR     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1840707 | 1        | 04/01/22 13:55        | 04/05/22 13:10     | RGT     | Mt. Juliet, TN |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

## 22030531-008A L1476141-08 Non-Potable Water

Collected by  
Collected date/time  
03/23/22 11:37  
Received date/time  
03/28/22 09:00

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320     | WG1840609 | 1        | 03/30/22 15:24        | 04/04/22 15:55     | JMR     | Mt. Juliet, TN |
| Radiochemistry by Method Calculation  | WG1840707 | 1        | 04/01/22 13:55        | 04/05/22 13:10     | JMR     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1840707 | 1        | 04/01/22 13:55        | 04/05/22 13:10     | RGT     | Mt. Juliet, TN |

## 22030531-009A L1476141-09 Non-Potable Water

Collected by  
Collected date/time  
03/23/22 11:51  
Received date/time  
03/28/22 09:00

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320     | WG1840609 | 1        | 03/30/22 15:24        | 04/04/22 15:55     | JMR     | Mt. Juliet, TN |
| Radiochemistry by Method Calculation  | WG1840707 | 1        | 04/01/22 13:55        | 04/05/22 13:10     | JMR     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1840707 | 1        | 04/01/22 13:55        | 04/05/22 13:10     | RGT     | Mt. Juliet, TN |

## 22030531-010A L1476141-10 Non-Potable Water

Collected by  
Collected date/time  
03/22/22 08:44  
Received date/time  
03/28/22 09:00

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320     | WG1840609 | 1        | 03/30/22 15:24        | 04/04/22 15:55     | JMR     | Mt. Juliet, TN |
| Radiochemistry by Method Calculation  | WG1840707 | 1        | 04/01/22 13:55        | 04/05/22 13:10     | JMR     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1840707 | 1        | 04/01/22 13:55        | 04/05/22 13:10     | RGT     | Mt. Juliet, TN |

## 22030531-011A L1476141-11 Non-Potable Water

Collected by  
Collected date/time  
03/22/22 11:50  
Received date/time  
03/28/22 09:00

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320     | WG1841735 | 1        | 04/01/22 09:00        | 04/08/22 13:35     | JMR     | Mt. Juliet, TN |
| Radiochemistry by Method Calculation  | WG1840707 | 1        | 04/01/22 13:55        | 04/08/22 13:35     | JMR     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1840707 | 1        | 04/01/22 13:55        | 04/05/22 13:10     | RGT     | Mt. Juliet, TN |

## 22030531-012A L1476141-12 Non-Potable Water

Collected by  
Collected date/time  
03/22/22 12:16  
Received date/time  
03/28/22 09:00

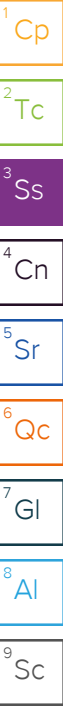
| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320     | WG1841735 | 1        | 04/01/22 09:00        | 04/08/22 13:35     | JMR     | Mt. Juliet, TN |
| Radiochemistry by Method Calculation  | WG1840707 | 1        | 04/01/22 13:55        | 04/08/22 13:35     | JMR     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1840707 | 1        | 04/01/22 13:55        | 04/05/22 13:10     | RGT     | Mt. Juliet, TN |

# SAMPLE SUMMARY

## 22030531-013A L1476141-13 Non-Potable Water

Collected by  
Collected date/time  
03/22/22 11:15  
Received date/time  
03/28/22 09:00

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320     | WG1841735 | 1        | 04/01/22 09:00        | 04/08/22 13:35     | JMR     | Mt. Juliet, TN |
| Radiochemistry by Method Calculation  | WG1840707 | 1        | 04/01/22 13:55        | 04/08/22 13:35     | JMR     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1840707 | 1        | 04/01/22 13:55        | 04/05/22 13:10     | RGT     | Mt. Juliet, TN |



## 22030531-014A L1476141-14 Non-Potable Water

Collected by  
Collected date/time  
03/22/22 09:56  
Received date/time  
03/28/22 09:00

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320     | WG1841735 | 1        | 04/01/22 09:00        | 04/08/22 13:35     | JMR     | Mt. Juliet, TN |
| Radiochemistry by Method Calculation  | WG1840707 | 1        | 04/01/22 13:55        | 04/08/22 13:35     | JMR     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1840707 | 1        | 04/01/22 13:55        | 04/05/22 13:10     | RGT     | Mt. Juliet, TN |

## 22030531-015A L1476141-15 Non-Potable Water

Collected by  
Collected date/time  
03/22/22 10:18  
Received date/time  
03/28/22 09:00

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320     | WG1841735 | 1        | 04/01/22 09:00        | 04/08/22 13:35     | JMR     | Mt. Juliet, TN |
| Radiochemistry by Method Calculation  | WG1841143 | 1        | 04/08/22 11:21        | 04/09/22 10:57     | JMR     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1841143 | 1        | 04/08/22 11:21        | 04/09/22 10:57     | RGT     | Mt. Juliet, TN |

## 22030531-016A L1476141-16 Non-Potable Water

Collected by  
Collected date/time  
03/22/22 08:09  
Received date/time  
03/28/22 09:00

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320     | WG1841735 | 1        | 04/01/22 09:00        | 04/08/22 13:35     | JMR     | Mt. Juliet, TN |
| Radiochemistry by Method Calculation  | WG1841143 | 1        | 04/08/22 11:21        | 04/09/22 10:57     | JMR     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1841143 | 1        | 04/08/22 11:21        | 04/09/22 10:57     | RGT     | Mt. Juliet, TN |

## 22030531-017A L1476141-17 Non-Potable Water

Collected by  
Collected date/time  
03/22/22 09:10  
Received date/time  
03/28/22 09:00

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320     | WG1841735 | 1        | 04/01/22 09:00        | 04/08/22 13:35     | JMR     | Mt. Juliet, TN |
| Radiochemistry by Method Calculation  | WG1841143 | 1        | 04/08/22 11:21        | 04/09/22 10:57     | JMR     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1841143 | 1        | 04/08/22 11:21        | 04/09/22 10:57     | RGT     | Mt. Juliet, TN |

## 22030531-018A L1476141-18 Non-Potable Water

Collected by  
Collected date/time  
03/23/22 12:36  
Received date/time  
03/28/22 09:00

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320     | WG1841735 | 1        | 04/01/22 09:00        | 04/08/22 13:35     | JMR     | Mt. Juliet, TN |
| Radiochemistry by Method Calculation  | WG1841143 | 1        | 04/08/22 11:21        | 04/09/22 10:58     | JMR     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1841143 | 1        | 04/08/22 11:21        | 04/09/22 10:58     | RGT     | Mt. Juliet, TN |

# SAMPLE SUMMARY

## 22030531-019A L1476141-19 Non-Potable Water

Collected by  
Collected date/time  
03/23/22 09:25  
Received date/time  
03/28/22 09:00

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320     | WG1841735 | 1        | 04/01/22 09:00        | 04/08/22 13:35     | JMR     | Mt. Juliet, TN |
| Radiochemistry by Method Calculation  | WG1841143 | 1        | 04/08/22 11:21        | 04/09/22 10:58     | JMR     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1841143 | 1        | 04/08/22 11:21        | 04/09/22 10:58     | RGT     | Mt. Juliet, TN |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

## 22030531-020A L1476141-20 Non-Potable Water

Collected by  
Collected date/time  
03/23/22 08:27  
Received date/time  
03/28/22 09:00

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320     | WG1841735 | 1        | 04/01/22 09:00        | 04/08/22 13:35     | JMR     | Mt. Juliet, TN |
| Radiochemistry by Method Calculation  | WG1841143 | 1        | 04/08/22 11:21        | 04/09/22 10:58     | JMR     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1841143 | 1        | 04/08/22 11:21        | 04/09/22 10:58     | RGT     | Mt. Juliet, TN |

## 22030531-021A L1476141-21 Non-Potable Water

Collected by  
Collected date/time  
03/22/22 11:32  
Received date/time  
03/28/22 09:00

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320     | WG1841735 | 1        | 04/01/22 09:00        | 04/08/22 13:35     | JMR     | Mt. Juliet, TN |
| Radiochemistry by Method Calculation  | WG1841143 | 1        | 04/08/22 11:21        | 04/09/22 10:58     | JMR     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1841143 | 1        | 04/08/22 11:21        | 04/09/22 10:58     | RGT     | Mt. Juliet, TN |

## 22030531-022A L1476141-22 Non-Potable Water

Collected by  
Collected date/time  
03/22/22 12:35  
Received date/time  
03/28/22 09:00

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320     | WG1841735 | 1        | 04/01/22 09:00        | 04/11/22 13:10     | JMR     | Mt. Juliet, TN |
| Radiochemistry by Method Calculation  | WG1841143 | 1        | 04/08/22 11:21        | 04/11/22 13:10     | JMR     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1841143 | 1        | 04/08/22 11:21        | 04/09/22 10:58     | RGT     | Mt. Juliet, TN |

## 22030531-023A L1476141-23 Non-Potable Water

Collected by  
Collected date/time  
03/22/22 10:46  
Received date/time  
03/28/22 09:00

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320     | WG1841735 | 1        | 04/01/22 09:00        | 04/11/22 13:10     | JMR     | Mt. Juliet, TN |
| Radiochemistry by Method Calculation  | WG1841143 | 1        | 04/08/22 11:21        | 04/11/22 13:10     | JMR     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1841143 | 1        | 04/08/22 11:21        | 04/09/22 10:58     | RGT     | Mt. Juliet, TN |

## 22030531-024A L1476141-24 Non-Potable Water

Collected by  
Collected date/time  
03/23/22 13:30  
Received date/time  
03/28/22 09:00

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320     | WG1841735 | 1        | 04/01/22 09:00        | 04/11/22 13:10     | JMR     | Mt. Juliet, TN |
| Radiochemistry by Method Calculation  | WG1841143 | 1        | 04/08/22 11:21        | 04/11/22 13:10     | JMR     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1841143 | 1        | 04/08/22 11:21        | 04/09/22 10:57     | RGT     | Mt. Juliet, TN |

# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Mark W. Beasley  
Project Manager

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-228  | 0.704  |           | 0.296       | 0.525    | 04/06/2022 12:30 | <a href="#">WG1840609</a> |
| (T) Barium  | 99.0   |           |             | 62.0-143 | 04/06/2022 12:30 | <a href="#">WG1840609</a> |
| (T) Yttrium | 96.7   |           |             | 79.0-136 | 04/06/2022 12:30 | <a href="#">WG1840609</a> |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch                     |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |                           |
| Combined Radium | 0.840  |           | 0.339       | 0.565 | 04/06/2022 12:30 | <a href="#">WG1840707</a> |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-226     | 0.136  | J         | 0.166       | 0.208    | 04/05/2022 13:10 | <a href="#">WG1840707</a> |
| (T) Barium-133 | 93.9   |           |             | 30.0-143 | 04/05/2022 13:10 | <a href="#">WG1840707</a> |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-228  | 0.612  |           | 0.288       | 0.514    | 04/06/2022 12:30 | <a href="#">WG1840609</a> |
| (T) Barium  | 96.4   |           |             | 62.0-143 | 04/06/2022 12:30 | <a href="#">WG1840609</a> |
| (T) Yttrium | 100    |           |             | 79.0-136 | 04/06/2022 12:30 | <a href="#">WG1840609</a> |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch                     |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |                           |
| Combined Radium | 0.852  |           | 0.356       | 0.564 | 04/06/2022 12:30 | <a href="#">WG1840707</a> |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-226     | 0.240  |           | 0.209       | 0.232    | 04/05/2022 13:10 | <a href="#">WG1840707</a> |
| (T) Barium-133 | 96.1   |           |             | 30.0-143 | 04/05/2022 13:10 | <a href="#">WG1840707</a> |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-228  | 1.32   |           | 0.360       | 0.621    | 04/06/2022 12:30 | <a href="#">WG1840609</a> |
| (T) Barium  | 92.5   |           |             | 62.0-143 | 04/06/2022 12:30 | <a href="#">WG1840609</a> |
| (T) Yttrium | 99.4   |           |             | 79.0-136 | 04/06/2022 12:30 | <a href="#">WG1840609</a> |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch                     |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |                           |
| Combined Radium | 1.48   |           | 0.397       | 0.648 | 04/06/2022 12:30 | <a href="#">WG1840707</a> |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-226     | 0.162  | J         | 0.168       | 0.184    | 04/05/2022 13:10 | <a href="#">WG1840707</a> |
| (T) Barium-133 | 93.6   |           |             | 30.0-143 | 04/05/2022 13:10 | <a href="#">WG1840707</a> |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc



Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|-------------|--------|-----------|-------------|----------|------------------|-----------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-228  | -0.185 | U         | 0.337       | 0.632    | 04/06/2022 12:30 | WG1840609 |
| (T) Barium  | 89.3   |           |             | 62.0-143 | 04/06/2022 12:30 | WG1840609 |
| (T) Yttrium | 106    |           |             | 79.0-136 | 04/06/2022 12:30 | WG1840609 |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch     |
|-----------------|--------|-----------|-------------|-------|------------------|-----------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |           |
| Combined Radium | 0.196  | U         | 0.400       | 0.691 | 04/06/2022 12:30 | WG1840707 |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|----------------|--------|-----------|-------------|----------|------------------|-----------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-226     | 0.196  | J         | 0.216       | 0.279    | 04/05/2022 13:10 | WG1840707 |
| (T) Barium-133 | 96.7   |           |             | 30.0-143 | 04/05/2022 13:10 | WG1840707 |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|-------------|--------|-----------|-------------|----------|------------------|-----------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-228  | 0.433  | J         | 0.314       | 0.571    | 04/06/2022 12:30 | WG1840609 |
| (T) Barium  | 86.7   |           |             | 62.0-143 | 04/06/2022 12:30 | WG1840609 |
| (T) Yttrium | 98.0   |           |             | 79.0-136 | 04/06/2022 12:30 | WG1840609 |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch     |
|-----------------|--------|-----------|-------------|-------|------------------|-----------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |           |
| Combined Radium | 0.480  | J         | 0.337       | 0.615 | 04/06/2022 12:30 | WG1840707 |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|----------------|--------|-----------|-------------|----------|------------------|-----------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-226     | 0.0473 | U         | 0.123       | 0.229    | 04/05/2022 13:10 | WG1840707 |
| (T) Barium-133 | 96.6   |           |             | 30.0-143 | 04/05/2022 13:10 | WG1840707 |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-228  | 0.502  |           | 0.275       | 0.495    | 04/06/2022 12:30 | <a href="#">WG1840609</a> |
| (T) Barium  | 92.8   |           |             | 62.0-143 | 04/06/2022 12:30 | <a href="#">WG1840609</a> |
| (T) Yttrium | 98.7   |           |             | 79.0-136 | 04/06/2022 12:30 | <a href="#">WG1840609</a> |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch                     |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |                           |
| Combined Radium | 0.571  |           | 0.307       | 0.549 | 04/06/2022 12:30 | <a href="#">WG1840707</a> |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier         | Uncertainty | MDA      | Analysis Date    | Batch                     |
|----------------|--------|-------------------|-------------|----------|------------------|---------------------------|
|                | pCi/l  |                   | + / -       | pCi/l    | date / time      |                           |
| RADIUM-226     | 0.0686 | <a href="#">U</a> | 0.136       | 0.238    | 04/05/2022 13:10 | <a href="#">WG1840707</a> |
| (T) Barium-133 | 93.2   |                   |             | 30.0-143 | 04/05/2022 13:10 | <a href="#">WG1840707</a> |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-228  | 0.970  |           | 0.295       | 0.548    | 04/04/2022 15:55 | <a href="#">WG1840609</a> |
| (T) Barium  | 91.5   |           |             | 62.0-143 | 04/04/2022 15:55 | <a href="#">WG1840609</a> |
| (T) Yttrium | 101    |           |             | 79.0-136 | 04/04/2022 15:55 | <a href="#">WG1840609</a> |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch                     |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |                           |
| Combined Radium | 1.04   |           | 0.324       | 0.597 | 04/05/2022 13:10 | <a href="#">WG1840707</a> |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier         | Uncertainty | MDA      | Analysis Date    | Batch                     |
|----------------|--------|-------------------|-------------|----------|------------------|---------------------------|
|                | pCi/l  |                   | + / -       | pCi/l    | date / time      |                           |
| RADIUM-226     | 0.0682 | <a href="#">U</a> | 0.135       | 0.236    | 04/05/2022 13:10 | <a href="#">WG1840707</a> |
| (T) Barium-133 | 96.3   |                   |             | 30.0-143 | 04/05/2022 13:10 | <a href="#">WG1840707</a> |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-228  | 0.761  |           | 0.301       | 0.569    | 04/04/2022 15:55 | <a href="#">WG1840609</a> |
| (T) Barium  | 90.6   |           |             | 62.0-143 | 04/04/2022 15:55 | <a href="#">WG1840609</a> |
| (T) Yttrium | 106    |           |             | 79.0-136 | 04/04/2022 15:55 | <a href="#">WG1840609</a> |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch                     |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |                           |
| Combined Radium | 0.885  |           | 0.356       | 0.640 | 04/05/2022 13:10 | <a href="#">WG1840707</a> |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-226     | 0.123  | J         | 0.191       | 0.294    | 04/05/2022 13:10 | <a href="#">WG1840707</a> |
| (T) Barium-133 | 94.3   |           |             | 30.0-143 | 04/05/2022 13:10 | <a href="#">WG1840707</a> |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-228  | 0.564  |           | 0.257       | 0.488    | 04/04/2022 15:55 | <a href="#">WG1840609</a> |
| (T) Barium  | 93.9   |           |             | 62.0-143 | 04/04/2022 15:55 | <a href="#">WG1840609</a> |
| (T) Yttrium | 105    |           |             | 79.0-136 | 04/04/2022 15:55 | <a href="#">WG1840609</a> |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch                     |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |                           |
| Combined Radium | 0.653  |           | 0.301       | 0.553 | 04/05/2022 13:10 | <a href="#">WG1840707</a> |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier         | Uncertainty | MDA      | Analysis Date    | Batch                     |
|----------------|--------|-------------------|-------------|----------|------------------|---------------------------|
|                | pCi/l  |                   | + / -       | pCi/l    | date / time      |                           |
| RADIUM-226     | 0.0896 | <a href="#">U</a> | 0.157       | 0.260    | 04/05/2022 13:10 | <a href="#">WG1840707</a> |
| (T) Barium-133 | 91.1   |                   |             | 30.0-143 | 04/05/2022 13:10 | <a href="#">WG1840707</a> |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-228  | 1.06   |           | 0.316       | 0.584    | 04/04/2022 15:55 | <a href="#">WG1840609</a> |
| (T) Barium  | 84.8   |           |             | 62.0-143 | 04/04/2022 15:55 | <a href="#">WG1840609</a> |
| (T) Yttrium | 109    |           |             | 79.0-136 | 04/04/2022 15:55 | <a href="#">WG1840609</a> |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch                     |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |                           |
| Combined Radium | 1.58   |           | 0.465       | 0.660 | 04/05/2022 13:10 | <a href="#">WG1840707</a> |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-226     | 0.521  |           | 0.341       | 0.308    | 04/05/2022 13:10 | <a href="#">WG1840707</a> |
| (T) Barium-133 | 93.8   |           |             | 30.0-143 | 04/05/2022 13:10 | <a href="#">WG1840707</a> |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|-------------|--------|-----------|-------------|----------|------------------|-----------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-228  | 0.101  | U         | 0.323       | 0.589    | 04/08/2022 13:35 | WG1841735 |
| (T) Barium  | 86.7   |           |             | 62.0-143 | 04/08/2022 13:35 | WG1841735 |
| (T) Yttrium | 102    |           |             | 79.0-136 | 04/08/2022 13:35 | WG1841735 |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch     |
|-----------------|--------|-----------|-------------|-------|------------------|-----------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |           |
| Combined Radium | 0.223  | U         | 0.385       | 0.675 | 04/08/2022 13:35 | WG1840707 |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|----------------|--------|-----------|-------------|----------|------------------|-----------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-226     | 0.123  | J         | 0.210       | 0.329    | 04/05/2022 13:10 | WG1840707 |
| (T) Barium-133 | 93.8   |           |             | 30.0-143 | 04/05/2022 13:10 | WG1840707 |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc



Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-228  | 0.305  | J         | 0.318       | 0.573    | 04/08/2022 13:35 | <a href="#">WG1841735</a> |
| (T) Barium  | 92.9   |           |             | 62.0-143 | 04/08/2022 13:35 | <a href="#">WG1841735</a> |
| (T) Yttrium | 111    |           |             | 79.0-136 | 04/08/2022 13:35 | <a href="#">WG1841735</a> |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch                     |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |                           |
| Combined Radium | 0.765  |           | 0.426       | 0.611 | 04/08/2022 13:35 | <a href="#">WG1840707</a> |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-226     | 0.459  |           | 0.283       | 0.212    | 04/05/2022 13:10 | <a href="#">WG1840707</a> |
| (T) Barium-133 | 94.1   |           |             | 30.0-143 | 04/05/2022 13:10 | <a href="#">WG1840707</a> |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|-------------|--------|-----------|-------------|----------|------------------|-----------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-228  | 0.345  | J         | 0.278       | 0.499    | 04/08/2022 13:35 | WG1841735 |
| (T) Barium  | 96.0   |           |             | 62.0-143 | 04/08/2022 13:35 | WG1841735 |
| (T) Yttrium | 102    |           |             | 79.0-136 | 04/08/2022 13:35 | WG1841735 |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch     |
|-----------------|--------|-----------|-------------|-------|------------------|-----------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |           |
| Combined Radium | 0.377  | J         | 0.289       | 0.526 | 04/08/2022 13:35 | WG1840707 |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|----------------|--------|-----------|-------------|----------|------------------|-----------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-226     | 0.0325 | U         | 0.0802      | 0.167    | 04/05/2022 13:10 | WG1840707 |
| (T) Barium-133 | 96.3   |           |             | 30.0-143 | 04/05/2022 13:10 | WG1840707 |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-228  | 0.578  | J         | 0.355       | 0.632    | 04/08/2022 13:35 | <a href="#">WG1841735</a> |
| (T) Barium  | 84.7   |           |             | 62.0-143 | 04/08/2022 13:35 | <a href="#">WG1841735</a> |
| (T) Yttrium | 103    |           |             | 79.0-136 | 04/08/2022 13:35 | <a href="#">WG1841735</a> |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch                     |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |                           |
| Combined Radium | 0.691  |           | 0.390       | 0.676 | 04/08/2022 13:35 | <a href="#">WG1840707</a> |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-226     | 0.114  | J         | 0.162       | 0.239    | 04/05/2022 13:10 | <a href="#">WG1840707</a> |
| (T) Barium-133 | 91.5   |           |             | 30.0-143 | 04/05/2022 13:10 | <a href="#">WG1840707</a> |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|-------------|--------|-----------|-------------|----------|------------------|-----------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-228  | 0.0309 | U         | 0.291       | 0.534    | 04/08/2022 13:35 | WG1841735 |
| (T) Barium  | 98.5   |           |             | 62.0-143 | 04/08/2022 13:35 | WG1841735 |
| (T) Yttrium | 108    |           |             | 79.0-136 | 04/08/2022 13:35 | WG1841735 |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch     |
|-----------------|--------|-----------|-------------|-------|------------------|-----------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |           |
| Combined Radium | 0.0309 | U         | 0.301       | 0.566 | 04/09/2022 10:57 | WG1841143 |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|----------------|--------|-----------|-------------|----------|------------------|-----------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-226     | 0.000  | U         | 0.0787      | 0.187    | 04/09/2022 10:57 | WG1841143 |
| (T) Barium-133 | 97.3   |           |             | 30.0-143 | 04/09/2022 10:57 | WG1841143 |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Radiochemistry by Method 904/9320

| Analyte     | Result  | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|-------------|---------|-----------|-------------|----------|------------------|-----------|
|             | pCi/l   |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-228  | -0.0599 | U         | 0.272       | 0.502    | 04/08/2022 13:35 | WG1841735 |
| (T) Barium  | 103     |           |             | 62.0-143 | 04/08/2022 13:35 | WG1841735 |
| (T) Yttrium | 108     |           |             | 79.0-136 | 04/08/2022 13:35 | WG1841735 |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch     |
|-----------------|--------|-----------|-------------|-------|------------------|-----------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |           |
| Combined Radium | 0.360  | J         | 0.343       | 0.521 | 04/09/2022 10:57 | WG1841143 |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|----------------|--------|-----------|-------------|----------|------------------|-----------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-226     | 0.360  |           | 0.209       | 0.141    | 04/09/2022 10:57 | WG1841143 |
| (T) Barium-133 | 97.1   |           |             | 30.0-143 | 04/09/2022 10:57 | WG1841143 |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Radiochemistry by Method 904/9320

| Analyte     | Result  | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|-------------|---------|-----------|-------------|----------|------------------|-----------|
|             | pCi/l   |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-228  | -0.0844 | U         | 0.351       | 0.653    | 04/08/2022 13:35 | WG1841735 |
| (T) Barium  | 90.9    |           |             | 62.0-143 | 04/08/2022 13:35 | WG1841735 |
| (T) Yttrium | 104     |           |             | 79.0-136 | 04/08/2022 13:35 | WG1841735 |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch     |
|-----------------|--------|-----------|-------------|-------|------------------|-----------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |           |
| Combined Radium | 0.0841 | U         | 0.380       | 0.695 | 04/09/2022 10:57 | WG1841143 |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|----------------|--------|-----------|-------------|----------|------------------|-----------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-226     | 0.0841 | U         | 0.146       | 0.238    | 04/09/2022 10:57 | WG1841143 |
| (T) Barium-133 | 95.0   |           |             | 30.0-143 | 04/09/2022 10:57 | WG1841143 |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|-------------|--------|-----------|-------------|----------|------------------|-----------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-228  | 0.211  | U         | 0.314       | 0.569    | 04/08/2022 13:35 | WG1841735 |
| (T) Barium  | 93.8   |           |             | 62.0-143 | 04/08/2022 13:35 | WG1841735 |
| (T) Yttrium | 102    |           |             | 79.0-136 | 04/08/2022 13:35 | WG1841735 |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch     |
|-----------------|--------|-----------|-------------|-------|------------------|-----------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |           |
| Combined Radium | 0.459  | J         | 0.372       | 0.602 | 04/09/2022 10:58 | WG1841143 |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|----------------|--------|-----------|-------------|----------|------------------|-----------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-226     | 0.248  |           | 0.200       | 0.198    | 04/09/2022 10:58 | WG1841143 |
| (T) Barium-133 | 95.9   |           |             | 30.0-143 | 04/09/2022 10:58 | WG1841143 |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|-------------|--------|-----------|-------------|----------|------------------|-----------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-228  | 0.184  | U         | 0.310       | 0.563    | 04/08/2022 13:35 | WG1841735 |
| (T) Barium  | 89.4   |           |             | 62.0-143 | 04/08/2022 13:35 | WG1841735 |
| (T) Yttrium | 104    |           |             | 79.0-136 | 04/08/2022 13:35 | WG1841735 |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch     |
|-----------------|--------|-----------|-------------|-------|------------------|-----------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |           |
| Combined Radium | 0.335  | J         | 0.359       | 0.616 | 04/09/2022 10:58 | WG1841143 |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|----------------|--------|-----------|-------------|----------|------------------|-----------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-226     | 0.151  | J         | 0.182       | 0.250    | 04/09/2022 10:58 | WG1841143 |
| (T) Barium-133 | 94.5   |           |             | 30.0-143 | 04/09/2022 10:58 | WG1841143 |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc



Radiochemistry by Method 904/9320

| Analyte     | Result  | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|-------------|---------|-----------|-------------|----------|------------------|-----------|
|             | pCi/l   |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-228  | -0.0480 | U         | 0.282       | 0.523    | 04/08/2022 13:35 | WG1841735 |
| (T) Barium  | 94.1    |           |             | 62.0-143 | 04/08/2022 13:35 | WG1841735 |
| (T) Yttrium | 107     |           |             | 79.0-136 | 04/08/2022 13:35 | WG1841735 |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch     |
|-----------------|--------|-----------|-------------|-------|------------------|-----------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |           |
| Combined Radium | 0.137  | U         | 0.333       | 0.582 | 04/09/2022 10:58 | WG1841143 |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|----------------|--------|-----------|-------------|----------|------------------|-----------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-226     | 0.137  | J         | 0.178       | 0.255    | 04/09/2022 10:58 | WG1841143 |
| (T) Barium-133 | 102    |           |             | 30.0-143 | 04/09/2022 10:58 | WG1841143 |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|-------------|--------|-----------|-------------|----------|------------------|-----------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-228  | -0.923 | U         | 0.312       | 0.606    | 04/08/2022 13:35 | WG1841735 |
| (T) Barium  | 92.3   |           |             | 62.0-143 | 04/08/2022 13:35 | WG1841735 |
| (T) Yttrium | 101    |           |             | 79.0-136 | 04/08/2022 13:35 | WG1841735 |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch     |
|-----------------|--------|-----------|-------------|-------|------------------|-----------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |           |
| Combined Radium | 0.113  | U         | 0.338       | 0.628 | 04/09/2022 10:58 | WG1841143 |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|----------------|--------|-----------|-------------|----------|------------------|-----------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-226     | 0.113  | J         | 0.129       | 0.166    | 04/09/2022 10:58 | WG1841143 |
| (T) Barium-133 | 96.4   |           |             | 30.0-143 | 04/09/2022 10:58 | WG1841143 |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-228  | 0.525  | J         | 0.302       | 0.549    | 04/11/2022 13:10 | <a href="#">WG1841735</a> |
| (T) Barium  | 88.8   |           |             | 62.0-143 | 04/11/2022 13:10 | <a href="#">WG1841735</a> |
| (T) Yttrium | 107    |           |             | 79.0-136 | 04/11/2022 13:10 | <a href="#">WG1841735</a> |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch                     |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |                           |
| Combined Radium | 0.919  |           | 0.368       | 0.564 | 04/11/2022 13:10 | <a href="#">WG1841143</a> |

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-226     | 0.393  |           | 0.211       | 0.131    | 04/09/2022 10:58 | <a href="#">WG1841143</a> |
| (T) Barium-133 | 96.7   |           |             | 30.0-143 | 04/09/2022 10:58 | <a href="#">WG1841143</a> |

Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-228  | 0.901  |           | 0.274       | 0.482    | 04/11/2022 13:10 | <a href="#">WG1841735</a> |
| (T) Barium  | 96.3   |           |             | 62.0-143 | 04/11/2022 13:10 | <a href="#">WG1841735</a> |
| (T) Yttrium | 109    |           |             | 79.0-136 | 04/11/2022 13:10 | <a href="#">WG1841735</a> |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch                     |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |                           |
| Combined Radium | 1.66   |           | 0.413       | 0.515 | 04/11/2022 13:10 | <a href="#">WG1841143</a> |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-226     | 0.759  |           | 0.309       | 0.180    | 04/09/2022 10:58 | <a href="#">WG1841143</a> |
| (T) Barium-133 | 98.2   |           |             | 30.0-143 | 04/09/2022 10:58 | <a href="#">WG1841143</a> |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

## Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-228  | 0.674  |           | 0.290       | 0.521    | 04/11/2022 13:10 | <a href="#">WG1841735</a> |
| (T) Barium  | 92.0   |           |             | 62.0-143 | 04/11/2022 13:10 | <a href="#">WG1841735</a> |
| (T) Yttrium | 114    |           |             | 79.0-136 | 04/11/2022 13:10 | <a href="#">WG1841735</a> |

<sup>1</sup>Cp<sup>2</sup>Tc<sup>3</sup>Ss

## Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch                     |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |                           |
| Combined Radium | 0.674  |           | 0.322       | 0.599 | 04/11/2022 13:10 | <a href="#">WG1841143</a> |

<sup>4</sup>Cn<sup>5</sup>Sr

## Radiochemistry by Method SM7500Ra B M

| Analyte        | Result  | Qualifier         | Uncertainty | MDA      | Analysis Date    | Batch                     |
|----------------|---------|-------------------|-------------|----------|------------------|---------------------------|
|                | pCi/l   |                   | + / -       | pCi/l    | date / time      |                           |
| RADIUM-226     | -0.0261 | <a href="#">U</a> | 0.140       | 0.295    | 04/09/2022 10:57 | <a href="#">WG1841143</a> |
| (T) Barium-133 | 100     |                   |             | 30.0-143 | 04/09/2022 10:57 | <a href="#">WG1841143</a> |

<sup>6</sup>Qc<sup>7</sup>Gl<sup>8</sup>Al<sup>9</sup>Sc

Method Blank (MB)

(MB) R3778692-1 04/06/22 12:30

| Analyte     | MB Result<br>pCi/l | MB Qualifier | MB Uncertainty<br>+ / - | MB MDA<br>pCi/l |
|-------------|--------------------|--------------|-------------------------|-----------------|
| Radium-228  | 0.535              |              | 0.211                   | 0.375           |
| (T) Barium  | 104                |              | 104                     |                 |
| (T) Yttrium | 99.3               |              | 99.3                    |                 |

L1476141-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1476141-01 04/06/22 12:30 • (DUP) R3778692-5 04/06/22 12:30

| Analyte     | Original Result<br>pCi/l | Original Uncertainty<br>+ / - | Original MDA<br>pCi/l | DUP Result<br>pCi/l | DUP Uncertainty<br>+ / - | DUP MDA<br>pCi/l | Dilution | DUP RPD<br>% | DUP RER | DUP Qualifier | DUP RPD Limits<br>% | DUP RER Limit |
|-------------|--------------------------|-------------------------------|-----------------------|---------------------|--------------------------|------------------|----------|--------------|---------|---------------|---------------------|---------------|
| Radium-228  | 0.704                    | 0.296                         | 0.525                 | -0.639              | 0.932                    | 0.525            | 1        | 200          | 1.37    | U             | 20                  | 3             |
| (T) Barium  | 99.0                     |                               |                       | 96.7                | 96.7                     |                  |          |              |         |               |                     |               |
| (T) Yttrium | 96.7                     |                               |                       | 93.3                | 93.3                     |                  |          |              |         |               |                     |               |

Laboratory Control Sample (LCS)

(LCS) R3778692-2 04/06/22 12:30

| Analyte     | Spike Amount<br>pCi/l | LCS Result<br>pCi/l | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|-------------|-----------------------|---------------------|---------------|------------------|---------------|
| Radium-228  | 5.00                  | 5.08                | 102           | 80.0-120         |               |
| (T) Barium  |                       |                     | 106           |                  |               |
| (T) Yttrium |                       |                     | 99.6          |                  |               |

L1475358-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1475358-04 04/06/22 12:30 • (MS) R3778692-3 04/06/22 12:30 • (MSD) R3778692-4 04/06/22 12:30

| Analyte     | Spike Amount<br>pCi/l | Original Result<br>pCi/l | MS Result<br>pCi/l | MSD Result<br>pCi/l | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | MS RER | RPD Limits<br>% |
|-------------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|--------|-----------------|
| Radium-228  | 16.7                  | 0.329                    | 16.9               | 19.8                | 99.3         | 116           | 1        | 70.0-130         |              |               | 15.6     |        | 20              |
| (T) Barium  |                       | 93.4                     |                    |                     | 102          | 101           |          |                  |              |               |          |        |                 |
| (T) Yttrium |                       | 97.0                     |                    |                     | 97.0         | 98.5          |          |                  |              |               |          |        |                 |

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Method Blank (MB)

(MB) R3780286-1 04/08/22 13:35

| Analyte     | MB Result<br>pCi/l | MB Qualifier | MB Uncertainty<br>+ / - | MB MDA<br>pCi/l |
|-------------|--------------------|--------------|-------------------------|-----------------|
| Radium-228  | 0.0402             | U            | 0.232                   | 0.423           |
| (T) Barium  | 97.7               |              | 97.7                    |                 |
| (T) Yttrium | 111                | C1           | 111                     |                 |

L1471347-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1471347-02 04/08/22 13:35 • (DUP) R3780286-5 04/08/22 13:35

| Analyte     | Original Result<br>pCi/l | Original Uncertainty<br>+ / - | Original MDA<br>pCi/l | DUP Result<br>pCi/l | DUP Uncertainty<br>+ / - | DUP MDA<br>pCi/l | Dilution | DUP RPD<br>% | DUP RER | DUP Qualifier | DUP RPD Limits<br>% | DUP RER Limit |
|-------------|--------------------------|-------------------------------|-----------------------|---------------------|--------------------------|------------------|----------|--------------|---------|---------------|---------------------|---------------|
| Radium-228  | 0.928                    | 0.408                         | 0.718                 | 0.383               | 0.864                    | 0.718            | 1        | 83.2         | 0.571   | U             | 20                  | 3             |
| (T) Barium  | 96.3                     |                               |                       | 99.6                | 99.6                     |                  |          |              |         |               |                     |               |
| (T) Yttrium | 108                      |                               |                       | 107                 | 107                      |                  |          |              |         |               |                     |               |

Laboratory Control Sample (LCS)

(LCS) R3780286-2 04/08/22 13:35

| Analyte     | Spike Amount<br>pCi/l | LCS Result<br>pCi/l | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|-------------|-----------------------|---------------------|---------------|------------------|---------------|
| Radium-228  | 5.00                  | 5.73                | 115           | 80.0-120         |               |
| (T) Barium  |                       |                     | 98.9          |                  |               |
| (T) Yttrium |                       |                     | 101           |                  |               |

L1476141-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1476141-18 04/08/22 13:35 • (MS) R3780286-3 04/08/22 13:35 • (MSD) R3780286-4 04/08/22 13:35

| Analyte     | Spike Amount<br>pCi/l | Original Result<br>pCi/l | MS Result<br>pCi/l | MSD Result<br>pCi/l | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | MS RER | RPD Limits<br>% |
|-------------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|--------|-----------------|
| Radium-228  | 16.7                  | 0.211                    | 18.0               | 17.4                | 107          | 103           | 1        | 70.0-130         |              |               | 3.22     |        | 20              |
| (T) Barium  |                       | 93.8                     |                    |                     | 96.6         | 92.9          |          |                  |              |               |          |        |                 |
| (T) Yttrium |                       | 102                      |                    |                     | 117          | 114           |          |                  | C1           | C1            |          |        |                 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3778684-1 04/05/22 13:10

| Analyte        | MB Result<br>pCi/l | MB Qualifier | MB Uncertainty<br>+ / - | MB MDA<br>pCi/l |
|----------------|--------------------|--------------|-------------------------|-----------------|
| Radium-226     | -0.0197            | U            | 0.0300                  | 0.0899          |
| (T) Barium-133 | 96.7               |              | 96.7                    |                 |

L1475291-21 Original Sample (OS) • Duplicate (DUP)

(OS) L1475291-21 04/05/22 13:10 • (DUP) R3778684-5 04/05/22 13:10

| Analyte        | Original Result<br>pCi/l | Original Uncertainty<br>+ / - | Original MDA<br>pCi/l | DUP Result<br>pCi/l | DUP Uncertainty<br>+ / - | DUP MDA<br>pCi/l | Dilution | DUP RPD<br>% | DUP RER | DUP Qualifier | DUP RPD Limits<br>% | DUP RER Limit |
|----------------|--------------------------|-------------------------------|-----------------------|---------------------|--------------------------|------------------|----------|--------------|---------|---------------|---------------------|---------------|
| Radium-226     | 0.445                    | 0.304                         | 0.296                 | 0.211               | 0.232                    | 0.296            | 1        | 71.2         | 0.611   | J             | 20                  | 3             |
| (T) Barium-133 | 96.0                     |                               |                       | 95.8                | 95.8                     |                  |          |              |         |               |                     |               |

Laboratory Control Sample (LCS)

(LCS) R3778684-2 04/05/22 13:10

| Analyte        | Spike Amount<br>pCi/l | LCS Result<br>pCi/l | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|----------------|-----------------------|---------------------|---------------|------------------|---------------|
| Radium-226     | 5.02                  | 4.55                | 90.7          | 80.0-120         |               |
| (T) Barium-133 |                       |                     | 96.3          |                  |               |

L1476141-14 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1476141-14 04/05/22 13:10 • (MS) R3778684-3 04/05/22 13:10 • (MSD) R3778684-4 04/05/22 13:10

| Analyte        | Spike Amount<br>pCi/l | Original Result<br>pCi/l | MS Result<br>pCi/l | MSD Result<br>pCi/l | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | MS RER | RPD Limits<br>% |
|----------------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|--------|-----------------|
| Radium-226     | 20.0                  | 0.114                    | 20.2               | 20.6                | 100          | 103           | 1        | 75.0-125         |              |               | 2.16     |        | 20              |
| (T) Barium-133 |                       | 91.5                     |                    |                     | 93.4         | 94.8          |          |                  |              |               |          |        |                 |

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc



Method Blank (MB)

(MB) R3779719-1 04/09/22 10:57

| Analyte        | MB Result<br>pCi/l | MB Qualifier | MB Uncertainty<br>+ / - | MB MDA<br>pCi/l |
|----------------|--------------------|--------------|-------------------------|-----------------|
| Radium-226     | 0.00477            | <u>U</u>     | 0.0184                  | 0.0419          |
| (T) Barium-133 | 93.5               |              | 93.5                    |                 |

L1476166-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1476166-03 04/09/22 10:57 • (DUP) R3779719-5 04/09/22 10:57

| Analyte        | Original Result<br>pCi/l | Original Uncertainty<br>+ / - | Original MDA<br>pCi/l | DUP Result<br>pCi/l | DUP Uncertainty<br>+ / - | DUP MDA<br>pCi/l | Dilution | DUP RPD<br>% | DUP RER | DUP Qualifier | DUP RPD Limits<br>% | DUP RER Limit |
|----------------|--------------------------|-------------------------------|-----------------------|---------------------|--------------------------|------------------|----------|--------------|---------|---------------|---------------------|---------------|
| Radium-226     | 0.0292                   | 0.163                         | 0.305                 | 0.0202              | 0.121                    | 0.305            | 1        | 36.7         | 0.0446  | <u>U</u>      | 20                  | 3             |
| (T) Barium-133 | 94.8                     |                               |                       | 95.9                | 95.9                     |                  |          |              |         |               |                     |               |

Laboratory Control Sample (LCS)

(LCS) R3779719-2 04/09/22 10:57

| Analyte        | Spike Amount<br>pCi/l | LCS Result<br>pCi/l | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|----------------|-----------------------|---------------------|---------------|------------------|---------------|
| Radium-226     | 5.02                  | 5.24                | 104           | 80.0-120         |               |
| (T) Barium-133 |                       |                     | 95.3          |                  |               |

L1474227-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1474227-01 04/09/22 10:57 • (MS) R3779719-3 04/09/22 10:57 • (MSD) R3779719-4 04/09/22 10:57

| Analyte        | Spike Amount<br>pCi/l | Original Result<br>pCi/l | MS Result<br>pCi/l | MSD Result<br>pCi/l | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | MS RER | RPD Limits<br>% |
|----------------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|--------|-----------------|
| Radium-226     | 20.0                  | 0.263                    | 19.3               | 19.2                | 95.2         | 94.7          | 1        | 75.0-125         |              |               | 0.519    |        | 20              |
| (T) Barium-133 |                       | 94.4                     |                    |                     | 98.8         | 97.0          |          |                  |              |               |          |        |                 |

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

### Abbreviations and Definitions

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MDA                          | Minimum Detectable Activity.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Rec.                         | Recovery.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| RER                          | Replicate Error Ratio.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| RPD                          | Relative Percent Difference.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| SDG                          | Sample Delivery Group.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| (T)                          | Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.                                                                                                                                                                                                                                                                                                                           |
| Analyte                      | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.                                                                                                                                                                                                                                                                                                                                                                                                 |
| Dilution                     | If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.                                                                                    |
| Limits                       | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.                                                                                                                                                                                                                                                      |
| Original Sample              | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.                                                                                                                                                                                                                                                                                                                            |
| Qualifier                    | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.                                                                                                                                                                  |
| Result                       | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Uncertainty (Radiochemistry) | Confidence level of 2 sigma.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Case Narrative (Cn)          | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.                                                                                                                                                                          |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.                                                                                                                                                                                              |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.                                                              |
| Sample Results (Sr)          | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.                                                                                                                                                                                             |
| Sample Summary (Ss)          | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.                                                                                                                                                                                                                                                                                                                                                            |

### Qualifier Description

|    |                                                                                     |
|----|-------------------------------------------------------------------------------------|
| C1 | Tracer recovery limits have been exceeded; values are outside upper control limits. |
| J  | The identification of the analyte is acceptable; the reported value is an estimate. |
| U  | Below Detectable Limits: Indicates that the analyte was not detected.               |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

# ACCREDITATIONS & LOCATIONS

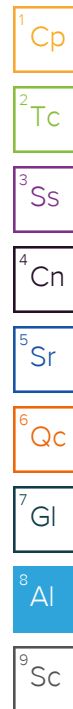
## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

|                                |             |                             |                  |
|--------------------------------|-------------|-----------------------------|------------------|
| Alabama                        | 40660       | Nebraska                    | NE-OS-15-05      |
| Alaska                         | 17-026      | Nevada                      | TN000032021-1    |
| Arizona                        | AZ0612      | New Hampshire               | 2975             |
| Arkansas                       | 88-0469     | New Jersey--NELAP           | TN002            |
| California                     | 2932        | New Mexico <sup>1</sup>     | TN00003          |
| Colorado                       | TN00003     | New York                    | 11742            |
| Connecticut                    | PH-0197     | North Carolina              | Env375           |
| Florida                        | E87487      | North Carolina <sup>1</sup> | DW21704          |
| Georgia                        | NELAP       | North Carolina <sup>3</sup> | 41               |
| Georgia <sup>1</sup>           | 923         | North Dakota                | R-140            |
| Idaho                          | TN00003     | Ohio--VAP                   | CL0069           |
| Illinois                       | 200008      | Oklahoma                    | 9915             |
| Indiana                        | C-TN-01     | Oregon                      | TN200002         |
| Iowa                           | 364         | Pennsylvania                | 68-02979         |
| Kansas                         | E-10277     | Rhode Island                | LA000356         |
| Kentucky <sup>1 6</sup>        | KY90010     | South Carolina              | 84004002         |
| Kentucky <sup>2</sup>          | 16          | South Dakota                | n/a              |
| Louisiana                      | AI30792     | Tennessee <sup>1 4</sup>    | 2006             |
| Louisiana                      | LA018       | Texas                       | T104704245-20-18 |
| Maine                          | TN00003     | Texas <sup>5</sup>          | LAB0152          |
| Maryland                       | 324         | Utah                        | TN000032021-11   |
| Massachusetts                  | M-TN003     | Vermont                     | VT2006           |
| Michigan                       | 9958        | Virginia                    | 110033           |
| Minnesota                      | 047-999-395 | Washington                  | C847             |
| Mississippi                    | TN00003     | West Virginia               | 233              |
| Missouri                       | 340         | Wisconsin                   | 998093910        |
| Montana                        | CERT0086    | Wyoming                     | A2LA             |
| A2LA -- ISO 17025              | 1461.01     | AIHA-LAP,LLC EMLAP          | 100789           |
| A2LA -- ISO 17025 <sup>5</sup> | 1461.02     | DOD                         | 1461.01          |
| Canada                         | 1461.01     | USDA                        | P330-15-00234    |
| EPA--Crypto                    | TN00003     |                             |                  |

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



**TEKLAB, INC. Chain of Custody**

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☒ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Teklab Inc

5445 Horseshoe Lake Road  
Collinsville, IL 62234Cooler Temp: 

Sampler: Joseph Riley/Adam Bridges

QC Level: 

Project# 22030531

Contact: Elizabeth Hurley

Email: EHurley@TekLabInc.com

Requested Due Date: Standard TAT

Billing/PO: 32601

Phone: (618) 344-1004 ext 33

Comments: Please issue reports and invoices via email only

Please analyze for Radium 226/228 on your standard turn around time.

Samples collected from an IL site.

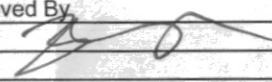
Batch QC is required for all analyses requested. EDD requested..

**PLEASE NOTE:**

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Any changes to analysis/methods must be approved by Teklab, Inc.

| Lab Use | Sample ID     | Sample Date/Time | Preservative | Matrix      | Ra226/228 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---------|---------------|------------------|--------------|-------------|-----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| -01     | 22030531-001A | 3/23/22 1208     | HNO3         | Groundwater | ✓         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| -02     | 22030531-002A | 3/22/22 1531     | HNO3         | Groundwater | ✓         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| -03     | 22030531-003A | 3/22/22 1424     | HNO3         | Groundwater | ✓         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| -04     | 22030531-004A | 3/22/22 1424     | HNO3         | Groundwater | ✓         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| -05     | 22030531-005A | 3/22/22 1404     | HNO3         | Groundwater | ✓         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| -06     | 22030531-006A | 3/23/22 0850     | HNO3         | Groundwater | ✓         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| -07     | 22030531-007A | 3/23/22 0907     | HNO3         | Groundwater | ✓         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| -08     | 22030531-008A | 3/23/22 1137     | HNO3         | Groundwater | ✓         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| -09     | 22030531-009A | 3/23/22 1151     | HNO3         | Groundwater | ✓         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| -10     | 22030531-010A | 3/22/22 0844     | HNO3         | Groundwater | ✓         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| -11     | 22030531-011A | 3/22/22 1150     | HNO3         | Groundwater | ✓         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| *Relinquished By | Date/Time    | Received By                                                                          | Date/Time    |
|------------------|--------------|--------------------------------------------------------------------------------------|--------------|
| Mary Kemp        | 3/25/22 1600 |  | 3/29/22 QTCN |
|                  |              |                                                                                      |              |
|                  |              |                                                                                      |              |
|                  |              |                                                                                      |              |

**TEKLAB, INC. Chain of Custody**

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☒ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Teklab Inc

5445 Horseshoe Lake Road  
Collinsville, IL 62234Cooler Temp:  Sampler: Joseph Riley/Adam BridgesQC Level:  3

Project# 22030531

Contact: Elizabeth Hurley

Email: EHurley@TekLabInc.com

Requested Due Date: Standard TAT

Billing/PO: 32601

Phone: (618) 344-1004 ext 33

Comments: Please issue reports and invoices via email only

Please analyze for Radium 226/228 on your standard turn around time.

Samples collected from an IL site.

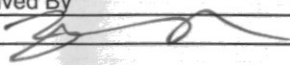
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Any changes to analysis/methods must be approved by Teklab, Inc.

| Lab Use | Sample ID     | Sample Date/Time | Preservative | Matrix      | Ra226/228 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---------|---------------|------------------|--------------|-------------|-----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| -12     | 22030531-012A | 3/22/22 1216     | HNO3         | Groundwater | ✓         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| -13     | 22030531-013A | 3/22/22 1115     | HNO3         | Groundwater | ✓         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| -14     | 22030531-014A | 3/22/22 0956     | HNO3         | Groundwater | ✓         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| -15     | 22030531-015A | 3/22/22 1018     | HNO3         | Groundwater | ✓         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| -16     | 22030531-016A | 3/22/22 0809     | HNO3         | Groundwater | ✓         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| -17     | 22030531-017A | 3/22/22 0910     | HNO3         | Groundwater | ✓         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| -18     | 22030531-018A | 3/23/22 1236     | HNO3         | Groundwater | ✓         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| -19     | 22030531-019A | 3/23/22 0925     | HNO3         | Groundwater | ✓         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| -20     | 22030531-020A | 3/23/22 0827     | HNO3         | Groundwater | ✓         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| -21     | 22030531-021A | 3/22/22 1132     | HNO3         | Groundwater | ✓         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| -22     | 22030531-022A | 3/22/22 1235     | HNO3         | Groundwater | ✓         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| *Relinquished By | Date/Time    | Received By                                                                          | Date/Time    |
|------------------|--------------|--------------------------------------------------------------------------------------|--------------|
| Mary Kemp        | 3/25/22 1600 |  | 3/29/22 1120 |
|                  |              |                                                                                      |              |
|                  |              |                                                                                      |              |
|                  |              |                                                                                      |              |



## TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☒ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

**Teklab Inc**  
**5445 Horseshoe Lake Road**  
**Collinsville, IL 62234**

Cooler Temp:  Sampler: Joseph Riley/Adam Bridges QC Level:  3

|          |          |
|----------|----------|
| Project# | 22030531 |
|----------|----------|

Contact: Elizabeth Hurley

Email: [EHurley@TekLabInc.com](mailto:EHurley@TekLabInc.com)

|                     |              |
|---------------------|--------------|
| Requested Due Date: | Standard TAT |
|---------------------|--------------|

Billing/PO: 32601

Phone: (618) 344-1004 ext 33

Comments: **Please Issue reports and invoices via email only**

Please analyze for Radium 226/228 on your standard turn around time.

Samples collected from an IL site.

Batch QC is required for all analyses requested. EDD requested..

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Any changes to analysis/methods must be approved by Teklab, Inc.

[illegible][illegible]

### Sample Receipt Checklist

Sample Receipt Checklist

|                          |          |   |                      |                       |
|--------------------------|----------|---|----------------------|-----------------------|
| COC Seal Present/Intact: | <u>Y</u> | N | If Applicable        |                       |
| COC Signed/Accurate:     | <u>Y</u> | N | VOA Zero Headspace:  | <u>Y</u> <del>N</del> |
| Bottles arrive intact:   | <u>Y</u> | N | Pres. Correct/Check: | <u>Y</u> <del>N</del> |
| Correct bottles used:    | <u>Y</u> | N |                      |                       |
| Sufficient volume sent:  | <u>Y</u> | N |                      |                       |
| RAD Screen <0.5 mR/hr:   | <u>Y</u> | N |                      |                       |

| *Relinquished By | Date/Time    | Received By                                                                          | Date/Time    |
|------------------|--------------|--------------------------------------------------------------------------------------|--------------|
| Mary Kemp        | 3/25/22 1600 |  | 3/28/22 0900 |
|                  |              |                                                                                      |              |
|                  |              |                                                                                      |              |
|                  |              |                                                                                      |              |
|                  |              |                                                                                      |              |

Teklab maintains a strict policy of client confidentiality and as such does not provide client/sampler information without proper authorization, and proprietary rights. Teklab, Inc. protects clients' confidential information as directed by local, state or federal laws. (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

SubCocRevA  
3/2/2016

October 31, 2022

Eric Bauer  
Ramboll  
234 W. Florida St.  
Milwaukee, WI 53204  
TEL: (414) 837-3614  
FAX: (414) 837-3608



|           |         |
|-----------|---------|
| Illinois  | 100226  |
| Kansas    | E-10374 |
| Louisiana | 05002   |
| Louisiana | 05003   |
| Oklahoma  | 9978    |

**RE:** Hennepin Q3 Groundwater

**WorkOrder:** 22081261

Dear Eric Bauer:

TEKLAB, INC received 46 samples on 9/15/2022 10:05:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Elizabeth A. Hurley  
Director of Customer Service  
(618)344-1004 ex 33  
[ehurley@teklabinc.com](mailto:ehurley@teklabinc.com)

**Client:** Ramboll

**Work Order:** 22081261

**Client Project:** Hennepin Q3 Groundwater

**Report Date:** 31-Oct-22

**This reporting package includes the following:**

|                         |          |
|-------------------------|----------|
| Cover Letter            | 1        |
| Report Contents         | 2        |
| Definitions             | 3        |
| Case Narrative          | 5        |
| Accreditations          | 6        |
| Laboratory Results      | 7        |
| Sample Summary          | 17       |
| Dates Report            | 18       |
| Quality Control Results | 29       |
| Receiving Check List    | 64       |
| Chain of Custody        | Appended |



**Client:** Ramboll

**Work Order:** 22081261

**Client Project:** Hennepin Q3 Groundwater

**Report Date:** 31-Oct-22

### Abbr Definition

\* Analytes on report marked with an asterisk are not NELAP accredited

CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.

CRQL A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.

DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.

DNI Did not ignite

DUP Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.

ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.

IDPH IL Dept. of Public Health

LCS Laboratory control sample is a sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.

LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).

MBLK Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.

MDL "The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."

MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).

MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).

MW Molecular weight

NC Data is not acceptable for compliance purposes

ND Not Detected at the Reporting Limit

NELAP NELAP Accredited

PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.

RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.

RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).

SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.

Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.

TIC Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"

TNTC Too numerous to count (> 200 CFU)

**Client:** Ramboll

**Work Order:** 22081261

**Client Project:** Hennepin Q3 Groundwater

**Report Date:** 31-Oct-22

### Qualifiers

- |                                                       |                                                              |
|-------------------------------------------------------|--------------------------------------------------------------|
| # - Unknown hydrocarbon                               | B - Analyte detected in associated Method Blank              |
| C - RL shown is a Client Requested Quantitation Limit | E - Value above quantitation range                           |
| H - Holding times exceeded                            | I - Associated internal standard was outside method criteria |
| J - Analyte detected below quantitation limits        | M - Manual Integration used to determine area response       |
| ND - Not Detected at the Reporting Limit              | R - RPD outside accepted recovery limits                     |
| S - Spike Recovery outside recovery limits            | T - TIC(Tentatively identified compound)                     |
| X - Value exceeds Maximum Contaminant Level           |                                                              |



## Case Narrative

<http://www.teklabinc.com/>

**Client:** Ramboll

**Work Order:** 22081261

**Client Project:** Hennepin Q3 Groundwater

**Report Date:** 31-Oct-22

**Cooler Receipt Temp:** 4.4 °C

An employee of Teklab, Inc. collected the sample(s).

34 could not be accessed for sample collection.

Perchlorate analysis was performed by Keystone Laboratories, Inc. See attached for QC results.

This report contains HEN\_257\_802 data. EAH 10/31/22

### Locations

#### Collinsville

**Address** 5445 Horseshoe Lake Road  
Collinsville, IL 62234-7425  
**Phone** (618) 344-1004  
**Fax** (618) 344-1005  
**Email** jhriley@teklabinc.com

#### Collinsville Air

**Address** 5445 Horseshoe Lake Road  
Collinsville, IL 62234-7425  
**Phone** (618) 344-1004  
**Fax** (618) 344-1005  
**Email** EHurley@teklabinc.com

#### Springfield

**Address** 3920 Pintail Dr  
Springfield, IL 62711-9415  
**Phone** (217) 698-1004  
**Fax** (217) 698-1005  
**Email** KKlostermann@teklabinc.com

#### Chicago

**Address** 1319 Butterfield Rd.  
Downers Grove, IL 60515  
**Phone** (630) 324-6855  
**Fax**  
**Email** arenner@teklabinc.com

#### Kansas City

**Address** 8421 Nieman Road  
Lenexa, KS 66214  
**Phone** (913) 541-1998  
**Fax** (913) 541-1998  
**Email** jhriley@teklabinc.com

**Client:** Ramboll**Work Order:** 22081261**Client Project:** Hennepin Q3 Groundwater**Report Date:** 31-Oct-22

| State     | Dept | Cert #  | NELAP | Exp Date  | Lab          |
|-----------|------|---------|-------|-----------|--------------|
| Illinois  | IEPA | 100226  | NELAP | 1/31/2023 | Collinsville |
| Kansas    | KDHE | E-10374 | NELAP | 4/30/2023 | Collinsville |
| Louisiana | LDEQ | 05002   | NELAP | 6/30/2023 | Collinsville |
| Louisiana | LDEQ | 05003   | NELAP | 6/30/2023 | Collinsville |
| Oklahoma  | ODEQ | 9978    | NELAP | 8/31/2023 | Collinsville |
| Arkansas  | ADEQ | 88-0966 |       | 3/14/2023 | Collinsville |
| Illinois  | IDPH | 17584   |       | 5/31/2023 | Collinsville |
| Iowa      | IDNR | 430     |       | 6/1/2024  | Collinsville |
| Kentucky  | UST  | 0073    |       | 1/31/2023 | Collinsville |
| Missouri  | MDNR | 00930   |       | 5/31/2023 | Collinsville |
| Missouri  | MDNR | 930     |       | 1/31/2025 | Collinsville |

Client: Ramboll  
 Client Project: Hennepin Q3 Groundwater  
 Lab ID: 22081261-002  
 Matrix: GROUNDWATER

Work Order: 22081261  
 Report Date: 31-Oct-22  
 Client Sample ID: 03R  
 Collection Date: 09/14/2022 13:09

| Analyses                                                                                     | Certification | RL    | Qual | Result | Units | DF | Date Analyzed    | Batch   |
|----------------------------------------------------------------------------------------------|---------------|-------|------|--------|-------|----|------------------|---------|
| <b>FIELD ELEVATION MEASUREMENTS</b>                                                          |               |       |      |        |       |    |                  |         |
| Depth to water from measuring point                                                          | *             | 0     |      | 34.78  | ft    | 1  | 09/14/2022 13:09 | R319062 |
| <b>STANDARD METHOD 4500-H B 2001 FIELD</b>                                                   |               |       |      |        |       |    |                  |         |
| pH                                                                                           | *             | 1.00  |      | 7.18   |       | 1  | 09/14/2022 13:09 | R319062 |
| <b>STANDARD METHODS 2130 B FIELD</b>                                                         |               |       |      |        |       |    |                  |         |
| Turbidity                                                                                    | *             | 1.0   |      | < 1.0  | NTU   | 1  | 09/14/2022 13:09 | R319062 |
| <b>STANDARD METHODS 18TH ED. 2580 B FIELD</b>                                                |               |       |      |        |       |    |                  |         |
| Oxidation-Reduction Potential                                                                | *             | -300  |      | 99     | mV    | 1  | 09/14/2022 13:09 | R319062 |
| <b>STANDARD METHODS 2510 B FIELD</b>                                                         |               |       |      |        |       |    |                  |         |
| Spec. Conductance, Field                                                                     | *             | 0     |      | 1070   | µS/cm | 1  | 09/14/2022 13:09 | R319062 |
| <b>STANDARD METHODS 2550 B FIELD</b>                                                         |               |       |      |        |       |    |                  |         |
| Temperature                                                                                  | *             | 0     |      | 18.3   | °C    | 1  | 09/14/2022 13:09 | R319062 |
| <b>STANDARD METHODS 4500-O G FIELD</b>                                                       |               |       |      |        |       |    |                  |         |
| Oxygen, Dissolved                                                                            | *             | 0     |      | 0.31   | mg/L  | 1  | 09/14/2022 13:09 | R319062 |
| <b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>                                            |               |       |      |        |       |    |                  |         |
| Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )                                              | NELAP         | 0     |      | 246    | mg/L  | 1  | 09/21/2022 14:23 | R318378 |
| <b>STANDARD METHODS 2320 B 1997, 2011</b>                                                    |               |       |      |        |       |    |                  |         |
| Alkalinity, Carbonate (as CaCO <sub>3</sub> )                                                | NELAP         | 0     |      | 0      | mg/L  | 1  | 09/21/2022 14:23 | R318378 |
| <b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>                                            |               |       |      |        |       |    |                  |         |
| Total Dissolved Solids                                                                       | NELAP         | 20    |      | 556    | mg/L  | 1  | 09/19/2022 15:46 | R318312 |
| <i>QC has recovered outside the acceptance range. Data is validated by passing LCS.</i>      |               |       |      |        |       |    |                  |         |
| <b>SW-846 9036 (TOTAL)</b>                                                                   |               |       |      |        |       |    |                  |         |
| Sulfate                                                                                      | NELAP         | 50    |      | 78     | mg/L  | 5  | 09/21/2022 11:42 | R318339 |
| <b>SW-846 9214 (TOTAL)</b>                                                                   |               |       |      |        |       |    |                  |         |
| Fluoride                                                                                     | NELAP         | 0.10  |      | 0.30   | mg/L  | 1  | 09/22/2022 16:28 | R318437 |
| <b>SW-846 9251 (TOTAL)</b>                                                                   |               |       |      |        |       |    |                  |         |
| Chloride                                                                                     | NELAP         | 20    |      | 86     | mg/L  | 5  | 09/21/2022 11:42 | R318345 |
| <b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>                                            |               |       |      |        |       |    |                  |         |
| Calcium                                                                                      | NELAP         | 0.100 | S    | 91.8   | mg/L  | 1  | 09/16/2022 17:49 | 196679  |
| Magnesium                                                                                    | NELAP         | 0.050 |      | 25.1   | mg/L  | 1  | 09/16/2022 17:49 | 196679  |
| Potassium                                                                                    | NELAP         | 0.100 |      | 9.71   | mg/L  | 1  | 09/16/2022 17:49 | 196679  |
| Sodium                                                                                       | NELAP         | 0.050 |      | 49.7   | mg/L  | 1  | 09/16/2022 17:49 | 196679  |
| <i>Matrix spike control limits for Ca are not applicable due to high sample/spike ratio.</i> |               |       |      |        |       |    |                  |         |
| <b>SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)</b>                                          |               |       |      |        |       |    |                  |         |
| Antimony                                                                                     | NELAP         | 1.0   |      | < 1.0  | µg/L  | 5  | 09/19/2022 21:28 | 196679  |
| Arsenic                                                                                      | NELAP         | 1.0   | J    | 0.5    | µg/L  | 5  | 10/20/2022 16:06 | 198935  |
| Barium                                                                                       | NELAP         | 1.0   |      | 59.2   | µg/L  | 5  | 09/19/2022 21:28 | 196679  |
| Boron                                                                                        | NELAP         | 25.0  |      | 766    | µg/L  | 5  | 09/20/2022 15:05 | 196679  |
| Cadmium                                                                                      | NELAP         | 1.0   |      | < 1.0  | µg/L  | 5  | 09/19/2022 21:28 | 196679  |
| Chromium                                                                                     | NELAP         | 1.5   |      | 10.5   | µg/L  | 5  | 09/22/2022 15:31 | 196679  |
| Cobalt                                                                                       | NELAP         | 1.0   | J    | 0.2    | µg/L  | 5  | 09/20/2022 15:05 | 196679  |
| Lead                                                                                         | NELAP         | 1.0   |      | < 1.0  | µg/L  | 5  | 09/19/2022 21:28 | 196679  |
| Lithium                                                                                      | *             | 3.0   |      | 19.3   | µg/L  | 5  | 09/20/2022 15:05 | 196679  |
| Molybdenum                                                                                   | NELAP         | 1.5   |      | 108    | µg/L  | 5  | 09/19/2022 21:28 | 196679  |
| Selenium                                                                                     | NELAP         | 1.0   |      | 3.3    | µg/L  | 5  | 09/19/2022 21:28 | 196679  |

Client: Ramboll  
 Client Project: Hennepin Q3 Groundwater  
 Lab ID: 22081261-005  
 Matrix: GROUNDWATER

Work Order: 22081261  
 Report Date: 31-Oct-22  
 Client Sample ID: 07  
 Collection Date: 09/14/2022 17:21

| Analyses                                                                                | Certification | RL    | Qual | Result | Units | DF | Date Analyzed    | Batch   |
|-----------------------------------------------------------------------------------------|---------------|-------|------|--------|-------|----|------------------|---------|
| <b>FIELD ELEVATION MEASUREMENTS</b>                                                     |               |       |      |        |       |    |                  |         |
| Depth to water from measuring point                                                     | *             | 0     |      | 66.70  | ft    | 1  | 09/14/2022 17:21 | R319062 |
| <b>STANDARD METHOD 4500-H B 2001 FIELD</b>                                              |               |       |      |        |       |    |                  |         |
| pH                                                                                      | *             | 1.00  |      | 6.73   |       | 1  | 09/14/2022 17:21 | R319062 |
| <b>STANDARD METHODS 2130 B FIELD</b>                                                    |               |       |      |        |       |    |                  |         |
| Turbidity                                                                               | *             | 1.0   |      | < 1.0  | NTU   | 1  | 09/14/2022 17:21 | R319062 |
| <b>STANDARD METHODS 18TH ED. 2580 B FIELD</b>                                           |               |       |      |        |       |    |                  |         |
| Oxidation-Reduction Potential                                                           | *             | -300  |      | 175    | mV    | 1  | 09/14/2022 17:21 | R319062 |
| <b>STANDARD METHODS 2510 B FIELD</b>                                                    |               |       |      |        |       |    |                  |         |
| Spec. Conductance, Field                                                                | *             | 0     |      | 1990   | µS/cm | 1  | 09/14/2022 17:21 | R319062 |
| <b>STANDARD METHODS 2550 B FIELD</b>                                                    |               |       |      |        |       |    |                  |         |
| Temperature                                                                             | *             | 0     |      | 11.6   | °C    | 1  | 09/14/2022 17:21 | R319062 |
| <b>STANDARD METHODS 4500-O G FIELD</b>                                                  |               |       |      |        |       |    |                  |         |
| Oxygen, Dissolved                                                                       | *             | 0     |      | 4.38   | mg/L  | 1  | 09/14/2022 17:21 | R319062 |
| <b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>                                       |               |       |      |        |       |    |                  |         |
| Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )                                         | NELAP         | 0     |      | 515    | mg/L  | 1  | 09/21/2022 14:45 | R318378 |
| <b>STANDARD METHODS 2320 B 1997, 2011</b>                                               |               |       |      |        |       |    |                  |         |
| Alkalinity, Carbonate (as CaCO <sub>3</sub> )                                           | NELAP         | 0     |      | 0      | mg/L  | 1  | 09/21/2022 14:45 | R318378 |
| <b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>                                       |               |       |      |        |       |    |                  |         |
| Total Dissolved Solids                                                                  | NELAP         | 20    |      | 954    | mg/L  | 1  | 09/20/2022 15:17 | R318312 |
| <i>QC has recovered outside the acceptance range. Data is validated by passing LCS.</i> |               |       |      |        |       |    |                  |         |
| <b>SW-846 9036 (TOTAL)</b>                                                              |               |       |      |        |       |    |                  |         |
| Sulfate                                                                                 | NELAP         | 50    |      | 92     | mg/L  | 5  | 09/21/2022 12:43 | R318339 |
| <b>SW-846 9214 (TOTAL)</b>                                                              |               |       |      |        |       |    |                  |         |
| Fluoride                                                                                | NELAP         | 0.10  |      | 0.11   | mg/L  | 1  | 09/22/2022 16:35 | R318437 |
| <b>SW-846 9251 (TOTAL)</b>                                                              |               |       |      |        |       |    |                  |         |
| Chloride                                                                                | NELAP         | 20    |      | 180    | mg/L  | 5  | 09/21/2022 12:43 | R318345 |
| <b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>                                       |               |       |      |        |       |    |                  |         |
| Calcium                                                                                 | NELAP         | 0.100 |      | 160    | mg/L  | 1  | 09/16/2022 18:22 | 196679  |
| Magnesium                                                                               | NELAP         | 0.050 |      | 57.4   | mg/L  | 1  | 09/16/2022 18:22 | 196679  |
| Potassium                                                                               | NELAP         | 0.100 |      | 3.58   | mg/L  | 1  | 09/16/2022 18:22 | 196679  |
| Sodium                                                                                  | NELAP         | 0.050 |      | 113    | mg/L  | 1  | 09/16/2022 18:22 | 196679  |
| <b>SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)</b>                                     |               |       |      |        |       |    |                  |         |
| Antimony                                                                                | NELAP         | 1.0   |      | < 1.0  | µg/L  | 5  | 09/19/2022 20:50 | 196679  |
| Arsenic                                                                                 | NELAP         | 1.0   |      | < 1.0  | µg/L  | 5  | 09/19/2022 20:50 | 196679  |
| Barium                                                                                  | NELAP         | 1.0   |      | 162    | µg/L  | 5  | 09/19/2022 20:50 | 196679  |
| Boron                                                                                   | NELAP         | 25.0  |      | 64.9   | µg/L  | 5  | 09/20/2022 15:37 | 196679  |
| Cadmium                                                                                 | NELAP         | 1.0   |      | < 1.0  | µg/L  | 5  | 09/19/2022 20:50 | 196679  |
| Chromium                                                                                | NELAP         | 1.5   | J    | 1.1    | µg/L  | 5  | 09/22/2022 14:14 | 196679  |
| Cobalt                                                                                  | NELAP         | 1.0   |      | 67.6   | µg/L  | 5  | 09/20/2022 15:37 | 196679  |
| Lead                                                                                    | NELAP         | 1.0   |      | < 1.0  | µg/L  | 5  | 09/19/2022 20:50 | 196679  |
| Lithium                                                                                 | *             | 3.0   |      | 10.5   | µg/L  | 5  | 09/20/2022 15:37 | 196679  |
| Molybdenum                                                                              | NELAP         | 1.5   | J    | 0.7    | µg/L  | 5  | 09/19/2022 20:50 | 196679  |
| Selenium                                                                                | NELAP         | 1.0   |      | < 1.0  | µg/L  | 5  | 09/19/2022 20:50 | 196679  |

Client: Ramboll  
 Client Project: Hennepin Q3 Groundwater  
 Lab ID: 22081261-006  
 Matrix: GROUNDWATER

Work Order: 22081261  
 Report Date: 31-Oct-22  
 Client Sample ID: 08  
 Collection Date: 09/14/2022 9:37

| Analyses                                                                                | Certification | RL    | Qual | Result | Units | DF | Date Analyzed    | Batch   |
|-----------------------------------------------------------------------------------------|---------------|-------|------|--------|-------|----|------------------|---------|
| <b>FIELD ELEVATION MEASUREMENTS</b>                                                     |               |       |      |        |       |    |                  |         |
| Depth to water from measuring point                                                     | *             | 0     |      | 53.73  | ft    | 1  | 09/14/2022 9:37  | R319062 |
| <b>STANDARD METHOD 4500-H B 2001 FIELD</b>                                              |               |       |      |        |       |    |                  |         |
| pH                                                                                      | *             | 1.00  |      | 6.58   |       | 1  | 09/14/2022 9:37  | R319062 |
| <b>STANDARD METHODS 2130 B FIELD</b>                                                    |               |       |      |        |       |    |                  |         |
| Turbidity                                                                               | *             | 1.0   |      | < 1.0  | NTU   | 1  | 09/14/2022 9:37  | R319062 |
| <b>STANDARD METHODS 18TH ED. 2580 B FIELD</b>                                           |               |       |      |        |       |    |                  |         |
| Oxidation-Reduction Potential                                                           | *             | -300  |      | 184    | mV    | 1  | 09/14/2022 9:37  | R319062 |
| <b>STANDARD METHODS 2510 B FIELD</b>                                                    |               |       |      |        |       |    |                  |         |
| Spec. Conductance, Field                                                                | *             | 0     |      | 2200   | µS/cm | 1  | 09/14/2022 9:37  | R319062 |
| <b>STANDARD METHODS 2550 B FIELD</b>                                                    |               |       |      |        |       |    |                  |         |
| Temperature                                                                             | *             | 0     |      | 13.4   | °C    | 1  | 09/14/2022 9:37  | R319062 |
| <b>STANDARD METHODS 4500-O G FIELD</b>                                                  |               |       |      |        |       |    |                  |         |
| Oxygen, Dissolved                                                                       | *             | 0     |      | 2.82   | mg/L  | 1  | 09/14/2022 9:37  | R319062 |
| <b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>                                       |               |       |      |        |       |    |                  |         |
| Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )                                         | NELAP         | 0     |      | 486    | mg/L  | 1  | 09/21/2022 14:52 | R318378 |
| <b>STANDARD METHODS 2320 B 1997, 2011</b>                                               |               |       |      |        |       |    |                  |         |
| Alkalinity, Carbonate (as CaCO <sub>3</sub> )                                           | NELAP         | 0     |      | 0      | mg/L  | 1  | 09/21/2022 14:52 | R318378 |
| <b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>                                       |               |       |      |        |       |    |                  |         |
| Total Dissolved Solids                                                                  | NELAP         | 20    |      | 1060   | mg/L  | 1  | 09/20/2022 15:10 | R318312 |
| <i>QC has recovered outside the acceptance range. Data is validated by passing LCS.</i> |               |       |      |        |       |    |                  |         |
| <b>SW-846 9036 (TOTAL)</b>                                                              |               |       |      |        |       |    |                  |         |
| Sulfate                                                                                 | NELAP         | 50    |      | 115    | mg/L  | 5  | 09/21/2022 12:46 | R318339 |
| <b>SW-846 9214 (TOTAL)</b>                                                              |               |       |      |        |       |    |                  |         |
| Fluoride                                                                                | NELAP         | 0.10  |      | 0.10   | mg/L  | 1  | 09/22/2022 16:38 | R318437 |
| <b>SW-846 9251 (TOTAL)</b>                                                              |               |       |      |        |       |    |                  |         |
| Chloride                                                                                | NELAP         | 40    |      | 224    | mg/L  | 10 | 09/21/2022 12:51 | R318345 |
| <b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>                                       |               |       |      |        |       |    |                  |         |
| Calcium                                                                                 | NELAP         | 0.100 |      | 182    | mg/L  | 1  | 09/16/2022 18:26 | 196679  |
| Magnesium                                                                               | NELAP         | 0.050 |      | 48.0   | mg/L  | 1  | 09/16/2022 18:26 | 196679  |
| Potassium                                                                               | NELAP         | 0.100 |      | 6.92   | mg/L  | 1  | 09/16/2022 18:26 | 196679  |
| Sodium                                                                                  | NELAP         | 0.050 |      | 133    | mg/L  | 1  | 09/16/2022 18:26 | 196679  |
| <b>SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)</b>                                     |               |       |      |        |       |    |                  |         |
| Antimony                                                                                | NELAP         | 1.0   |      | < 1.0  | µg/L  | 5  | 09/19/2022 20:56 | 196679  |
| Arsenic                                                                                 | NELAP         | 1.0   |      | < 1.0  | µg/L  | 5  | 09/19/2022 20:56 | 196679  |
| Barium                                                                                  | NELAP         | 1.0   |      | 86.4   | µg/L  | 5  | 09/19/2022 20:56 | 196679  |
| Boron                                                                                   | NELAP         | 25.0  |      | 90.0   | µg/L  | 5  | 09/20/2022 15:43 | 196679  |
| Cadmium                                                                                 | NELAP         | 1.0   | J    | 0.2    | µg/L  | 5  | 09/19/2022 20:56 | 196679  |
| Chromium                                                                                | NELAP         | 1.5   |      | < 1.5  | µg/L  | 5  | 09/22/2022 14:57 | 196679  |
| Cobalt                                                                                  | NELAP         | 1.0   |      | 2.7    | µg/L  | 5  | 09/20/2022 15:43 | 196679  |
| Lead                                                                                    | NELAP         | 1.0   |      | < 1.0  | µg/L  | 5  | 09/19/2022 20:56 | 196679  |
| Lithium                                                                                 | *             | 3.0   |      | 10.6   | µg/L  | 5  | 09/20/2022 15:43 | 196679  |
| Molybdenum                                                                              | NELAP         | 1.5   | J    | 1.4    | µg/L  | 5  | 09/19/2022 20:56 | 196679  |
| Selenium                                                                                | NELAP         | 1.0   |      | < 1.0  | µg/L  | 5  | 09/19/2022 20:56 | 196679  |

Client: Ramboll  
 Client Project: Hennepin Q3 Groundwater  
 Lab ID: 22081261-007  
 Matrix: GROUNDWATER

Work Order: 22081261  
 Report Date: 31-Oct-22  
 Client Sample ID: 08D  
 Collection Date: 09/14/2022 9:09

| Analyses                                                                                | Certification | RL    | Qual | Result | Units | DF | Date Analyzed    | Batch   |
|-----------------------------------------------------------------------------------------|---------------|-------|------|--------|-------|----|------------------|---------|
| <b>FIELD ELEVATION MEASUREMENTS</b>                                                     |               |       |      |        |       |    |                  |         |
| Depth to water from measuring point                                                     | *             | 0     |      | 53.96  | ft    | 1  | 09/14/2022 9:09  | R319062 |
| <b>STANDARD METHOD 4500-H B 2001 FIELD</b>                                              |               |       |      |        |       |    |                  |         |
| pH                                                                                      | *             | 1.00  |      | 6.47   |       | 1  | 09/14/2022 9:09  | R319062 |
| <b>STANDARD METHODS 2130 B FIELD</b>                                                    |               |       |      |        |       |    |                  |         |
| Turbidity                                                                               | *             | 1.0   |      | < 1.0  | NTU   | 1  | 09/14/2022 9:09  | R319062 |
| <b>STANDARD METHODS 18TH ED. 2580 B FIELD</b>                                           |               |       |      |        |       |    |                  |         |
| Oxidation-Reduction Potential                                                           | *             | -300  |      | 214    | mV    | 1  | 09/14/2022 9:09  | R319062 |
| <b>STANDARD METHODS 2510 B FIELD</b>                                                    |               |       |      |        |       |    |                  |         |
| Spec. Conductance, Field                                                                | *             | 0     |      | 2790   | µS/cm | 1  | 09/14/2022 9:09  | R319062 |
| <b>STANDARD METHODS 2550 B FIELD</b>                                                    |               |       |      |        |       |    |                  |         |
| Temperature                                                                             | *             | 0     |      | 13.7   | °C    | 1  | 09/14/2022 9:09  | R319062 |
| <b>STANDARD METHODS 4500-O G FIELD</b>                                                  |               |       |      |        |       |    |                  |         |
| Oxygen, Dissolved                                                                       | *             | 0     |      | 0.46   | mg/L  | 1  | 09/14/2022 9:09  | R319062 |
| <b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>                                       |               |       |      |        |       |    |                  |         |
| Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )                                         | NELAP         | 0     |      | 550    | mg/L  | 1  | 09/21/2022 14:58 | R318378 |
| <b>STANDARD METHODS 2320 B 1997, 2011</b>                                               |               |       |      |        |       |    |                  |         |
| Alkalinity, Carbonate (as CaCO <sub>3</sub> )                                           | NELAP         | 0     |      | 0      | mg/L  | 1  | 09/21/2022 14:58 | R318378 |
| <b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>                                       |               |       |      |        |       |    |                  |         |
| Total Dissolved Solids                                                                  | NELAP         | 20    |      | 1410   | mg/L  | 1  | 09/20/2022 15:11 | R318312 |
| <i>QC has recovered outside the acceptance range. Data is validated by passing LCS.</i> |               |       |      |        |       |    |                  |         |
| <b>SW-846 9036 (TOTAL)</b>                                                              |               |       |      |        |       |    |                  |         |
| Sulfate                                                                                 | NELAP         | 100   |      | 198    | mg/L  | 10 | 09/21/2022 12:54 | R318339 |
| <b>SW-846 9214 (TOTAL)</b>                                                              |               |       |      |        |       |    |                  |         |
| Fluoride                                                                                | NELAP         | 0.10  |      | 0.11   | mg/L  | 1  | 09/22/2022 16:40 | R318437 |
| <b>SW-846 9251 (TOTAL)</b>                                                              |               |       |      |        |       |    |                  |         |
| Chloride                                                                                | NELAP         | 40    |      | 297    | mg/L  | 10 | 09/21/2022 12:54 | R318345 |
| <b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>                                       |               |       |      |        |       |    |                  |         |
| Calcium                                                                                 | NELAP         | 0.100 |      | 232    | mg/L  | 1  | 09/16/2022 18:29 | 196679  |
| Magnesium                                                                               | NELAP         | 0.050 |      | 66.3   | mg/L  | 1  | 09/16/2022 18:29 | 196679  |
| Potassium                                                                               | NELAP         | 0.100 |      | 4.45   | mg/L  | 1  | 09/16/2022 18:29 | 196679  |
| Sodium                                                                                  | NELAP         | 0.050 |      | 181    | mg/L  | 1  | 09/16/2022 18:29 | 196679  |
| <b>SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)</b>                                     |               |       |      |        |       |    |                  |         |
| Antimony                                                                                | NELAP         | 1.0   |      | < 1.0  | µg/L  | 5  | 09/19/2022 21:03 | 196679  |
| Arsenic                                                                                 | NELAP         | 1.0   |      | < 1.0  | µg/L  | 5  | 09/19/2022 21:03 | 196679  |
| Barium                                                                                  | NELAP         | 1.0   |      | 118    | µg/L  | 5  | 09/19/2022 21:03 | 196679  |
| Boron                                                                                   | NELAP         | 25.0  |      | 95.1   | µg/L  | 5  | 09/20/2022 15:50 | 196679  |
| Cadmium                                                                                 | NELAP         | 1.0   | J    | 0.4    | µg/L  | 5  | 10/20/2022 17:27 | 198935  |
| Chromium                                                                                | NELAP         | 1.5   |      | < 1.5  | µg/L  | 5  | 09/22/2022 15:02 | 196679  |
| Cobalt                                                                                  | NELAP         | 1.0   |      | 3.5    | µg/L  | 5  | 09/20/2022 15:50 | 196679  |
| Lead                                                                                    | NELAP         | 1.0   |      | < 1.0  | µg/L  | 5  | 09/19/2022 21:03 | 196679  |
| Lithium                                                                                 | *             | 3.0   |      | 12.5   | µg/L  | 5  | 09/20/2022 15:50 | 196679  |
| Molybdenum                                                                              | NELAP         | 1.5   | J    | 1.3    | µg/L  | 5  | 09/19/2022 21:03 | 196679  |
| Selenium                                                                                | NELAP         | 1.0   |      | < 1.0  | µg/L  | 5  | 09/19/2022 21:03 | 196679  |



Client: Ramboll  
 Client Project: Hennepin Q3 Groundwater  
 Lab ID: 22081261-013  
 Matrix: GROUNDWATER

Work Order: 22081261  
 Report Date: 31-Oct-22  
 Client Sample ID: 18S  
 Collection Date: 09/14/2022 13:28

| Analyses                                                                                | Certification | RL    | Qual | Result | Units | DF | Date Analyzed    | Batch   |
|-----------------------------------------------------------------------------------------|---------------|-------|------|--------|-------|----|------------------|---------|
| <b>FIELD ELEVATION MEASUREMENTS</b>                                                     |               |       |      |        |       |    |                  |         |
| Depth to water from measuring point                                                     | *             | 0     |      | 40.55  | ft    | 1  | 09/14/2022 13:28 | R319062 |
| <b>STANDARD METHOD 4500-H B 2001 FIELD</b>                                              |               |       |      |        |       |    |                  |         |
| pH                                                                                      | *             | 1.00  |      | 7.32   |       | 1  | 09/14/2022 13:28 | R319062 |
| <b>STANDARD METHODS 2130 B FIELD</b>                                                    |               |       |      |        |       |    |                  |         |
| Turbidity                                                                               | *             | 1.0   |      | < 1.0  | NTU   | 1  | 09/14/2022 13:28 | R319062 |
| <b>STANDARD METHODS 18TH ED. 2580 B FIELD</b>                                           |               |       |      |        |       |    |                  |         |
| Oxidation-Reduction Potential                                                           | *             | -300  |      | 109    | mV    | 1  | 09/14/2022 13:28 | R319062 |
| <b>STANDARD METHODS 2510 B FIELD</b>                                                    |               |       |      |        |       |    |                  |         |
| Spec. Conductance, Field                                                                | *             | 0     |      | 1060   | µS/cm | 1  | 09/14/2022 13:28 | R319062 |
| <b>STANDARD METHODS 2550 B FIELD</b>                                                    |               |       |      |        |       |    |                  |         |
| Temperature                                                                             | *             | 0     |      | 17.2   | °C    | 1  | 09/14/2022 13:28 | R319062 |
| <b>STANDARD METHODS 4500-O G FIELD</b>                                                  |               |       |      |        |       |    |                  |         |
| Oxygen, Dissolved                                                                       | *             | 0     |      | 0.30   | mg/L  | 1  | 09/14/2022 13:28 | R319062 |
| <b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>                                       |               |       |      |        |       |    |                  |         |
| Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )                                         | NELAP         | 0     |      | 217    | mg/L  | 1  | 09/21/2022 15:26 | R318378 |
| <b>STANDARD METHODS 2320 B 1997, 2011</b>                                               |               |       |      |        |       |    |                  |         |
| Alkalinity, Carbonate (as CaCO <sub>3</sub> )                                           | NELAP         | 0     |      | 0      | mg/L  | 1  | 09/21/2022 15:26 | R318378 |
| <b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>                                       |               |       |      |        |       |    |                  |         |
| Total Dissolved Solids                                                                  | NELAP         | 20    |      | 594    | mg/L  | 1  | 09/19/2022 15:49 | R318312 |
| <i>QC has recovered outside the acceptance range. Data is validated by passing LCS.</i> |               |       |      |        |       |    |                  |         |
| <b>SW-846 9036 (TOTAL)</b>                                                              |               |       |      |        |       |    |                  |         |
| Sulfate                                                                                 | NELAP         | 50    |      | 115    | mg/L  | 5  | 09/21/2022 14:25 | R318339 |
| <b>SW-846 9214 (TOTAL)</b>                                                              |               |       |      |        |       |    |                  |         |
| Fluoride                                                                                | NELAP         | 0.10  |      | 0.18   | mg/L  | 1  | 09/22/2022 17:03 | R318437 |
| <b>SW-846 9251 (TOTAL)</b>                                                              |               |       |      |        |       |    |                  |         |
| Chloride                                                                                | NELAP         | 20    |      | 77     | mg/L  | 5  | 09/21/2022 14:25 | R318345 |
| <b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>                                       |               |       |      |        |       |    |                  |         |
| Calcium                                                                                 | NELAP         | 0.100 |      | 96.6   | mg/L  | 1  | 09/16/2022 18:48 | 196679  |
| Magnesium                                                                               | NELAP         | 0.050 |      | 23.1   | mg/L  | 1  | 09/16/2022 18:48 | 196679  |
| Potassium                                                                               | NELAP         | 0.500 |      | 10.7   | mg/L  | 5  | 09/19/2022 14:38 | 196679  |
| Sodium                                                                                  | NELAP         | 0.050 |      | 46.8   | mg/L  | 1  | 09/16/2022 18:48 | 196679  |
| <b>SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)</b>                                     |               |       |      |        |       |    |                  |         |
| Antimony                                                                                | NELAP         | 1.0   |      | < 1.0  | µg/L  | 5  | 09/19/2022 22:36 | 196679  |
| Arsenic                                                                                 | NELAP         | 1.0   | J    | 0.5    | µg/L  | 5  | 09/19/2022 22:36 | 196679  |
| Barium                                                                                  | NELAP         | 1.0   |      | 54.0   | µg/L  | 5  | 09/19/2022 22:36 | 196679  |
| Boron                                                                                   | NELAP         | 25.0  |      | 2460   | µg/L  | 5  | 09/20/2022 16:47 | 196679  |
| Cadmium                                                                                 | NELAP         | 1.0   |      | < 1.0  | µg/L  | 5  | 09/19/2022 22:36 | 196679  |
| Chromium                                                                                | NELAP         | 1.5   |      | 37.3   | µg/L  | 5  | 09/22/2022 15:17 | 196679  |
| Cobalt                                                                                  | NELAP         | 1.0   | J    | 0.4    | µg/L  | 5  | 09/20/2022 16:47 | 196679  |
| Lead                                                                                    | NELAP         | 1.0   |      | < 1.0  | µg/L  | 5  | 09/19/2022 22:36 | 196679  |
| Lithium                                                                                 | *             | 3.0   |      | 47.9   | µg/L  | 5  | 09/20/2022 16:47 | 196679  |
| Molybdenum                                                                              | NELAP         | 1.5   |      | 137    | µg/L  | 5  | 09/19/2022 22:36 | 196679  |
| Selenium                                                                                | NELAP         | 1.0   |      | 14.7   | µg/L  | 5  | 09/19/2022 22:36 | 196679  |

Client: Ramboll  
 Client Project: Hennepin Q3 Groundwater  
 Lab ID: 22081261-014  
 Matrix: GROUNDWATER

Work Order: 22081261  
 Report Date: 31-Oct-22  
 Client Sample ID: 18D  
 Collection Date: 09/14/2022 13:44

| Analyses                                            | Certification | RL    | Qual | Result | Units | DF | Date Analyzed    | Batch   |
|-----------------------------------------------------|---------------|-------|------|--------|-------|----|------------------|---------|
| <b>FIELD ELEVATION MEASUREMENTS</b>                 |               |       |      |        |       |    |                  |         |
| Depth to water from measuring point                 | *             | 0     |      | 40.60  | ft    | 1  | 09/14/2022 13:44 | R319062 |
| <b>STANDARD METHOD 4500-H B 2001 FIELD</b>          |               |       |      |        |       |    |                  |         |
| pH                                                  | *             | 1.00  |      | 7.13   |       | 1  | 09/14/2022 13:44 | R319062 |
| <b>STANDARD METHODS 2130 B FIELD</b>                |               |       |      |        |       |    |                  |         |
| Turbidity                                           | *             | 1.0   |      | < 1.0  | NTU   | 1  | 09/14/2022 13:44 | R319062 |
| <b>STANDARD METHODS 18TH ED. 2580 B FIELD</b>       |               |       |      |        |       |    |                  |         |
| Oxidation-Reduction Potential                       | *             | -300  |      | 121    | mV    | 1  | 09/14/2022 13:44 | R319062 |
| <b>STANDARD METHODS 2510 B FIELD</b>                |               |       |      |        |       |    |                  |         |
| Spec. Conductance, Field                            | *             | 0     |      | 1120   | µS/cm | 1  | 09/14/2022 13:44 | R319062 |
| <b>STANDARD METHODS 2550 B FIELD</b>                |               |       |      |        |       |    |                  |         |
| Temperature                                         | *             | 0     |      | 17.5   | °C    | 1  | 09/14/2022 13:44 | R319062 |
| <b>STANDARD METHODS 4500-O G FIELD</b>              |               |       |      |        |       |    |                  |         |
| Oxygen, Dissolved                                   | *             | 0     |      | 0.43   | mg/L  | 1  | 09/14/2022 13:44 | R319062 |
| <b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>   |               |       |      |        |       |    |                  |         |
| Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )     | NELAP         | 0     |      | 266    | mg/L  | 1  | 09/21/2022 15:31 | R318378 |
| <b>STANDARD METHODS 2320 B 1997, 2011</b>           |               |       |      |        |       |    |                  |         |
| Alkalinity, Carbonate (as CaCO <sub>3</sub> )       | NELAP         | 0     |      | 0      | mg/L  | 1  | 09/21/2022 15:31 | R318378 |
| <b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>   |               |       |      |        |       |    |                  |         |
| Total Dissolved Solids                              | NELAP         | 20    |      | 522    | mg/L  | 1  | 09/20/2022 16:13 | R318379 |
| <b>SW-846 9036 (TOTAL)</b>                          |               |       |      |        |       |    |                  |         |
| Sulfate                                             | NELAP         | 50    |      | 98     | mg/L  | 5  | 09/21/2022 14:33 | R318339 |
| <b>SW-846 9214 (TOTAL)</b>                          |               |       |      |        |       |    |                  |         |
| Fluoride                                            | NELAP         | 0.10  |      | 0.16   | mg/L  | 1  | 09/22/2022 17:05 | R318437 |
| <b>SW-846 9251 (TOTAL)</b>                          |               |       |      |        |       |    |                  |         |
| Chloride                                            | NELAP         | 20    |      | 82     | mg/L  | 5  | 09/21/2022 14:33 | R318345 |
| <b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>   |               |       |      |        |       |    |                  |         |
| Calcium                                             | NELAP         | 0.100 |      | 102    | mg/L  | 1  | 09/16/2022 19:07 | 196679  |
| Magnesium                                           | NELAP         | 0.050 |      | 28.7   | mg/L  | 1  | 09/16/2022 19:07 | 196679  |
| Potassium                                           | NELAP         | 0.100 |      | 9.95   | mg/L  | 1  | 09/16/2022 19:07 | 196679  |
| Sodium                                              | NELAP         | 0.050 |      | 49.3   | mg/L  | 1  | 09/16/2022 19:07 | 196679  |
| <b>SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)</b> |               |       |      |        |       |    |                  |         |
| Antimony                                            | NELAP         | 1.0   |      | < 1.0  | µg/L  | 5  | 09/19/2022 22:42 | 196679  |
| Arsenic                                             | NELAP         | 1.0   | J    | 0.5    | µg/L  | 5  | 09/19/2022 22:42 | 196679  |
| Barium                                              | NELAP         | 1.0   |      | 70.4   | µg/L  | 5  | 09/19/2022 22:42 | 196679  |
| Boron                                               | NELAP         | 25.0  |      | 1200   | µg/L  | 5  | 09/20/2022 16:53 | 196679  |
| Cadmium                                             | NELAP         | 1.0   | J    | 0.4    | µg/L  | 5  | 09/19/2022 22:42 | 196679  |
| Chromium                                            | NELAP         | 1.5   |      | < 1.5  | µg/L  | 5  | 09/22/2022 15:22 | 196679  |
| Cobalt                                              | NELAP         | 1.0   |      | 1.9    | µg/L  | 5  | 09/20/2022 16:53 | 196679  |
| Lead                                                | NELAP         | 1.0   |      | < 1.0  | µg/L  | 5  | 09/19/2022 22:42 | 196679  |
| Lithium                                             | *             | 3.0   |      | 20.7   | µg/L  | 5  | 09/20/2022 16:53 | 196679  |
| Molybdenum                                          | NELAP         | 1.5   |      | 31.9   | µg/L  | 5  | 09/19/2022 22:42 | 196679  |
| Selenium                                            | NELAP         | 1.0   |      | < 1.0  | µg/L  | 5  | 09/19/2022 22:42 | 196679  |



## Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll  
Client Project: Hennepin Q3 Groundwater  
Lab ID: 22081261-030  
Matrix: GROUNDWATER

Work Order: 22081261  
Report Date: 31-Oct-22  
Client Sample ID: 45S  
Collection Date: 09/14/2022 12:34

| Analyses                                            | Certification | RL    | Qual | Result | Units | DF | Date Analyzed    | Batch   |
|-----------------------------------------------------|---------------|-------|------|--------|-------|----|------------------|---------|
| <b>FIELD ELEVATION MEASUREMENTS</b>                 |               |       |      |        |       |    |                  |         |
| Depth to water from measuring point                 | *             | 0     |      | 20.23  | ft    | 1  | 09/14/2022 12:34 | R319062 |
| <b>STANDARD METHOD 4500-H B 2001 FIELD</b>          |               |       |      |        |       |    |                  |         |
| pH                                                  | *             | 1.00  |      | 7.14   |       | 1  | 09/14/2022 12:34 | R319062 |
| <b>STANDARD METHODS 2130 B FIELD</b>                |               |       |      |        |       |    |                  |         |
| Turbidity                                           | *             | 1.0   |      | < 1.0  | NTU   | 1  | 09/14/2022 12:34 | R319062 |
| <b>STANDARD METHODS 18TH ED. 2580 B FIELD</b>       |               |       |      |        |       |    |                  |         |
| Oxidation-Reduction Potential                       | *             | -300  |      | 169    | mV    | 1  | 09/14/2022 12:34 | R319062 |
| <b>STANDARD METHODS 2510 B FIELD</b>                |               |       |      |        |       |    |                  |         |
| Spec. Conductance, Field                            | *             | 0     |      | 1080   | µS/cm | 1  | 09/14/2022 12:34 | R319062 |
| <b>STANDARD METHODS 2550 B FIELD</b>                |               |       |      |        |       |    |                  |         |
| Temperature                                         | *             | 0     |      | 18.2   | °C    | 1  | 09/14/2022 12:34 | R319062 |
| <b>STANDARD METHODS 4500-O G FIELD</b>              |               |       |      |        |       |    |                  |         |
| Oxygen, Dissolved                                   | *             | 0     |      | 0.38   | mg/L  | 1  | 09/14/2022 12:34 | R319062 |
| <b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>   |               |       |      |        |       |    |                  |         |
| Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )     | NELAP         | 0     |      | 261    | mg/L  | 1  | 09/21/2022 15:47 | R318378 |
| <b>STANDARD METHODS 2320 B 1997, 2011</b>           |               |       |      |        |       |    |                  |         |
| Alkalinity, Carbonate (as CaCO <sub>3</sub> )       | NELAP         | 0     |      | 0      | mg/L  | 1  | 09/21/2022 15:47 | R318378 |
| <b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>   |               |       |      |        |       |    |                  |         |
| Total Dissolved Solids                              | NELAP         | 20    |      | 508    | mg/L  | 1  | 09/20/2022 16:14 | R318379 |
| <b>SW-846 9036 (TOTAL)</b>                          |               |       |      |        |       |    |                  |         |
| Sulfate                                             | NELAP         | 50    |      | 63     | mg/L  | 5  | 09/21/2022 16:30 | R318339 |
| <b>SW-846 9214 (TOTAL)</b>                          |               |       |      |        |       |    |                  |         |
| Fluoride                                            | NELAP         | 0.10  |      | 0.28   | mg/L  | 1  | 09/22/2022 17:42 | R318437 |
| <b>SW-846 9251 (TOTAL)</b>                          |               |       |      |        |       |    |                  |         |
| Chloride                                            | NELAP         | 20    |      | 90     | mg/L  | 5  | 09/21/2022 16:30 | R318345 |
| <b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>   |               |       |      |        |       |    |                  |         |
| Calcium                                             | NELAP         | 0.100 |      | 86.1   | mg/L  | 1  | 09/19/2022 15:36 | 196682  |
| Magnesium                                           | NELAP         | 0.050 |      | 26.9   | mg/L  | 1  | 09/19/2022 15:36 | 196682  |
| Potassium                                           | NELAP         | 0.100 |      | 5.49   | mg/L  | 1  | 09/19/2022 15:36 | 196682  |
| Sodium                                              | NELAP         | 0.050 |      | 53.3   | mg/L  | 1  | 09/19/2022 15:36 | 196682  |
| <b>SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)</b> |               |       |      |        |       |    |                  |         |
| Antimony                                            | NELAP         | 1.0   |      | < 1.0  | µg/L  | 5  | 09/20/2022 2:03  | 196682  |
| Arsenic                                             | NELAP         | 1.0   | J    | 0.5    | µg/L  | 5  | 09/20/2022 2:03  | 196682  |
| Barium                                              | NELAP         | 1.0   |      | 62.9   | µg/L  | 5  | 09/20/2022 2:03  | 196682  |
| Boron                                               | NELAP         | 25.0  |      | 256    | µg/L  | 5  | 09/20/2022 23:09 | 196682  |
| Cadmium                                             | NELAP         | 1.0   | J    | 0.6    | µg/L  | 5  | 09/20/2022 2:03  | 196682  |
| Chromium                                            | NELAP         | 1.5   |      | 1.7    | µg/L  | 5  | 09/23/2022 0:32  | 196682  |
| Cobalt                                              | NELAP         | 1.0   |      | 1.0    | µg/L  | 5  | 09/20/2022 23:09 | 196682  |
| Lead                                                | NELAP         | 1.0   |      | 1.1    | µg/L  | 5  | 09/20/2022 2:03  | 196682  |
| Lithium                                             | *             | 3.0   |      | 10.2   | µg/L  | 5  | 09/20/2022 23:09 | 196682  |
| Molybdenum                                          | NELAP         | 1.5   |      | 45.3   | µg/L  | 5  | 09/20/2022 2:03  | 196682  |
| Selenium                                            | NELAP         | 1.0   |      | < 1.0  | µg/L  | 5  | 09/20/2022 2:03  | 196682  |



## Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll  
Client Project: Hennepin Q3 Groundwater  
Lab ID: 22081261-038  
Matrix: GROUNDWATER

Work Order: 22081261  
Report Date: 31-Oct-22  
Client Sample ID: SG02  
Collection Date: 09/13/2022 14:52

| Analyses                            | Certification | RL | Qual | Result | Units | DF | Date Analyzed    | Batch   |
|-------------------------------------|---------------|----|------|--------|-------|----|------------------|---------|
| FIELD ELEVATION MEASUREMENTS        |               |    |      |        |       |    |                  |         |
| Depth to water from measuring point | *             | 0  |      | 6.99   | ft    | 1  | 09/13/2022 14:52 | R319062 |

Client: Ramboll  
 Client Project: Hennepin Q3 Groundwater  
 Lab ID: 22081261-040  
 Matrix: GROUNDWATER

Work Order: 22081261  
 Report Date: 31-Oct-22  
 Client Sample ID: 08 Duplicate  
 Collection Date: 09/14/2022 9:37

| Analyses                                            | Certification | RL    | Qual | Result | Units | DF | Date Analyzed    | Batch   |
|-----------------------------------------------------|---------------|-------|------|--------|-------|----|------------------|---------|
| <b>FIELD ELEVATION MEASUREMENTS</b>                 |               |       |      |        |       |    |                  |         |
| Depth to water from measuring point                 | *             | 0     |      | 53.73  | ft    | 1  | 09/14/2022 9:37  | R319062 |
| <b>STANDARD METHOD 4500-H B 2001 FIELD</b>          |               |       |      |        |       |    |                  |         |
| pH                                                  | *             | 1.00  |      | 6.58   |       | 1  | 09/14/2022 9:37  | R319062 |
| <b>STANDARD METHODS 2130 B FIELD</b>                |               |       |      |        |       |    |                  |         |
| Turbidity                                           | *             | 1.0   |      | < 1.0  | NTU   | 1  | 09/14/2022 9:37  | R319062 |
| <b>STANDARD METHODS 18TH ED. 2580 B FIELD</b>       |               |       |      |        |       |    |                  |         |
| Oxidation-Reduction Potential                       | *             | -300  |      | 184    | mV    | 1  | 09/14/2022 9:37  | R319062 |
| <b>STANDARD METHODS 2510 B FIELD</b>                |               |       |      |        |       |    |                  |         |
| Spec. Conductance, Field                            | *             | 0     |      | 2200   | µS/cm | 1  | 09/14/2022 9:37  | R319062 |
| <b>STANDARD METHODS 2550 B FIELD</b>                |               |       |      |        |       |    |                  |         |
| Temperature                                         | *             | 0     |      | 13.4   | °C    | 1  | 09/14/2022 9:37  | R319062 |
| <b>STANDARD METHODS 4500-O G FIELD</b>              |               |       |      |        |       |    |                  |         |
| Oxygen, Dissolved                                   | *             | 0     |      | 2.82   | mg/L  | 1  | 09/14/2022 9:37  | R319062 |
| <b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>   |               |       |      |        |       |    |                  |         |
| Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )     | NELAP         | 0     |      | 496    | mg/L  | 1  | 09/21/2022 16:11 | R318378 |
| <b>STANDARD METHODS 2320 B 1997, 2011</b>           |               |       |      |        |       |    |                  |         |
| Alkalinity, Carbonate (as CaCO <sub>3</sub> )       | NELAP         | 0     |      | 0      | mg/L  | 1  | 09/21/2022 16:11 | R318378 |
| <b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>   |               |       |      |        |       |    |                  |         |
| Total Dissolved Solids                              | NELAP         | 20    |      | 1040   | mg/L  | 1  | 09/20/2022 16:16 | R318379 |
| <b>SW-846 9036 (TOTAL)</b>                          |               |       |      |        |       |    |                  |         |
| Sulfate                                             | NELAP         | 50    |      | 113    | mg/L  | 5  | 09/21/2022 17:53 | R318339 |
| <b>SW-846 9214 (TOTAL)</b>                          |               |       |      |        |       |    |                  |         |
| Fluoride                                            | NELAP         | 0.10  | J    | 0.10   | mg/L  | 1  | 09/22/2022 18:08 | R318437 |
| <b>SW-846 9251 (TOTAL)</b>                          |               |       |      |        |       |    |                  |         |
| Chloride                                            | NELAP         | 40    |      | 214    | mg/L  | 10 | 09/23/2022 9:16  | R318566 |
| <b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>   |               |       |      |        |       |    |                  |         |
| Calcium                                             | NELAP         | 0.100 |      | 172    | mg/L  | 1  | 09/19/2022 16:36 | 196682  |
| Magnesium                                           | NELAP         | 0.050 |      | 44.8   | mg/L  | 1  | 09/19/2022 16:36 | 196682  |
| Potassium                                           | NELAP         | 0.100 |      | 6.17   | mg/L  | 1  | 09/19/2022 16:36 | 196682  |
| Sodium                                              | NELAP         | 0.050 |      | 122    | mg/L  | 1  | 09/19/2022 16:36 | 196682  |
| <b>SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)</b> |               |       |      |        |       |    |                  |         |
| Antimony                                            | NELAP         | 1.0   |      | < 1.0  | µg/L  | 5  | 09/20/2022 1:38  | 196682  |
| Arsenic                                             | NELAP         | 1.0   |      | < 1.0  | µg/L  | 5  | 09/20/2022 1:38  | 196682  |
| Barium                                              | NELAP         | 1.0   |      | 99.7   | µg/L  | 5  | 10/20/2022 18:55 | 196682  |
| Boron                                               | NELAP         | 25.0  |      | 87.2   | µg/L  | 5  | 09/21/2022 0:18  | 196682  |
| Cadmium                                             | NELAP         | 1.0   | J    | 0.2    | µg/L  | 5  | 09/20/2022 1:38  | 196682  |
| Chromium                                            | NELAP         | 1.5   |      | 10.1   | µg/L  | 5  | 09/23/2022 0:22  | 196682  |
| Cobalt                                              | NELAP         | 1.0   |      | 2.9    | µg/L  | 5  | 09/21/2022 0:18  | 196682  |
| Lead                                                | NELAP         | 1.0   |      | < 1.0  | µg/L  | 5  | 09/20/2022 1:38  | 196682  |
| Lithium                                             | *             | 3.0   |      | 11.5   | µg/L  | 5  | 09/23/2022 0:22  | 196682  |
| Molybdenum                                          | NELAP         | 1.5   |      | 1.7    | µg/L  | 5  | 10/20/2022 18:49 | 198935  |
| Selenium                                            | NELAP         | 1.0   |      | < 1.0  | µg/L  | 5  | 09/20/2022 1:38  | 196682  |

Client: Ramboll  
 Client Project: Hennepin Q3 Groundwater  
 Lab ID: 22081261-041  
 Matrix: AQUEOUS

Work Order: 22081261  
 Report Date: 31-Oct-22  
 Client Sample ID: Field Blank  
 Collection Date: 09/14/2022 16:45

| Analyses                                            | Certification | RL    | Qual | Result  | Units | DF | Date Analyzed    | Batch   |
|-----------------------------------------------------|---------------|-------|------|---------|-------|----|------------------|---------|
| <b>STANDARD METHODS 2320 B (TOTAL) 1997, 2011</b>   |               |       |      |         |       |    |                  |         |
| Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )     | NELAP         | 0     |      | 2       | mg/L  | 1  | 09/22/2022 8:14  | R318378 |
| <b>STANDARD METHODS 2320 B 1997, 2011</b>           |               |       |      |         |       |    |                  |         |
| Alkalinity, Carbonate (as CaCO <sub>3</sub> )       | NELAP         | 0     |      | 0       | mg/L  | 1  | 09/22/2022 8:14  | R318378 |
| <b>STANDARD METHODS 2540 C (TOTAL) 1997, 2011</b>   |               |       |      |         |       |    |                  |         |
| Total Dissolved Solids                              | NELAP         | 20    |      | < 20    | mg/L  | 1  | 09/20/2022 16:16 | R318379 |
| <b>SW-846 9036 (TOTAL)</b>                          |               |       |      |         |       |    |                  |         |
| Sulfate                                             | NELAP         | 10    |      | < 10    | mg/L  | 1  | 09/21/2022 17:58 | R318339 |
| <b>SW-846 9214 (TOTAL)</b>                          |               |       |      |         |       |    |                  |         |
| Fluoride                                            | NELAP         | 0.10  |      | < 0.10  | mg/L  | 1  | 09/22/2022 18:10 | R318437 |
| <b>SW-846 9251 (TOTAL)</b>                          |               |       |      |         |       |    |                  |         |
| Chloride                                            | NELAP         | 4     |      | < 4     | mg/L  | 1  | 09/21/2022 17:58 | R318345 |
| <b>SW-846 3005A, 6010B, METALS BY ICP (TOTAL)</b>   |               |       |      |         |       |    |                  |         |
| Calcium                                             | NELAP         | 0.100 |      | < 0.100 | mg/L  | 1  | 09/19/2022 16:39 | 196682  |
| Magnesium                                           | NELAP         | 0.050 |      | < 0.050 | mg/L  | 1  | 09/19/2022 16:39 | 196682  |
| Potassium                                           | NELAP         | 0.100 |      | < 0.100 | mg/L  | 1  | 09/20/2022 10:13 | 196682  |
| Sodium                                              | NELAP         | 0.050 |      | < 0.050 | mg/L  | 1  | 09/19/2022 16:39 | 196682  |
| <b>SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)</b> |               |       |      |         |       |    |                  |         |
| Antimony                                            | NELAP         | 1.0   |      | < 1.0   | µg/L  | 5  | 09/20/2022 1:44  | 196682  |
| Arsenic                                             | NELAP         | 1.0   |      | < 1.0   | µg/L  | 5  | 09/20/2022 1:44  | 196682  |
| Barium                                              | NELAP         | 1.0   |      | < 1.0   | µg/L  | 5  | 09/20/2022 1:44  | 196682  |
| Boron                                               | NELAP         | 25.0  |      | < 25.0  | µg/L  | 5  | 09/21/2022 0:24  | 196682  |
| Cadmium                                             | NELAP         | 1.0   |      | < 1.0   | µg/L  | 5  | 09/20/2022 1:44  | 196682  |
| Chromium                                            | NELAP         | 1.5   |      | < 1.5   | µg/L  | 5  | 09/23/2022 0:27  | 196682  |
| Cobalt                                              | NELAP         | 1.0   |      | < 1.0   | µg/L  | 5  | 09/21/2022 0:24  | 196682  |
| Lead                                                | NELAP         | 1.0   |      | < 1.0   | µg/L  | 5  | 09/20/2022 1:44  | 196682  |
| Lithium                                             | *             | 3.0   |      | < 3.0   | µg/L  | 5  | 09/23/2022 0:27  | 196682  |
| Molybdenum                                          | NELAP         | 1.5   |      | < 1.5   | µg/L  | 5  | 09/20/2022 1:44  | 196682  |
| Selenium                                            | NELAP         | 1.0   |      | < 1.0   | µg/L  | 5  | 09/20/2022 1:44  | 196682  |

## Sample Summary

<http://www.teklabinc.com/>

**Client:** Ramboll

**Work Order:** 22081261

**Client Project:** Hennepin Q3 Groundwater

**Report Date:** 31-Oct-22

| Lab Sample ID | Client Sample ID | Matrix      | Fractions | Collection Date  |
|---------------|------------------|-------------|-----------|------------------|
| 22081261-002  | 03R              | Groundwater | 7         | 09/14/2022 13:09 |
| 22081261-005  | 07               | Groundwater | 7         | 09/14/2022 17:21 |
| 22081261-006  | 08               | Groundwater | 9         | 09/14/2022 9:37  |
| 22081261-007  | 08D              | Groundwater | 9         | 09/14/2022 9:09  |
| 22081261-013  | 18S              | Groundwater | 7         | 09/14/2022 13:28 |
| 22081261-014  | 18D              | Groundwater | 7         | 09/14/2022 13:44 |
| 22081261-030  | 45S              | Groundwater | 7         | 09/14/2022 12:34 |
| 22081261-038  | SG02             | Groundwater | 1         | 09/13/2022 14:52 |
| 22081261-040  | 08 Duplicate     | Groundwater | 9         | 09/14/2022 9:37  |
| 22081261-041  | Field Blank      | Aqueous     | 9         | 09/14/2022 16:45 |

**Client:** Ramboll

**Work Order:** 22081261

**Client Project:** Hennepin Q3 Groundwater

**Report Date:** 31-Oct-22

| Sample ID     | Client Sample ID                                 | Collection Date  | Received Date    | Prep Date/Time   | Analysis Date/Time |
|---------------|--------------------------------------------------|------------------|------------------|------------------|--------------------|
| Test Name     |                                                  |                  |                  |                  |                    |
| 22081261-002A | 03R                                              | 09/14/2022 13:09 | 09/15/2022 10:05 |                  |                    |
|               | Field Elevation Measurements                     |                  |                  |                  | 09/14/2022 13:09   |
|               | Standard Method 4500-H B 2001 Field              |                  |                  |                  | 09/14/2022 13:09   |
|               | Standard Methods 2130 B Field                    |                  |                  |                  | 09/14/2022 13:09   |
|               | Standard Methods 18th Ed. 2580 B Field           |                  |                  |                  | 09/14/2022 13:09   |
|               | Standard Methods 2320 B (Total) 1997, 2011       |                  |                  |                  | 09/21/2022 14:23   |
|               | Standard Methods 2320 B 1997, 2011               |                  |                  |                  | 09/21/2022 14:23   |
|               | Standard Methods 2510 B Field                    |                  |                  |                  | 09/14/2022 13:09   |
|               | Standard Methods 2540 C (Total) 1997, 2011       |                  |                  |                  | 09/19/2022 15:46   |
|               | Standard Methods 2550 B Field                    |                  |                  |                  | 09/14/2022 13:09   |
|               | Standard Methods 4500-NO2 B (Total) 2000, 2011   |                  |                  |                  | 09/15/2022 18:40   |
|               | Standard Methods 4500-NO3 F (Total) 2000, 2011   |                  |                  |                  | 09/16/2022 12:51   |
|               | Standard Methods 4500-O G Field                  |                  |                  |                  | 09/14/2022 13:09   |
|               | SW-846 9036 (Total)                              |                  |                  |                  | 09/21/2022 11:42   |
|               | SW-846 9214 (Total)                              |                  |                  |                  | 09/22/2022 16:28   |
|               | SW-846 9251 (Total)                              |                  |                  |                  | 09/21/2022 11:42   |
| 22081261-002B | 03R                                              | 09/14/2022 13:09 | 09/15/2022 10:05 |                  |                    |
|               | EPA 314.0                                        |                  |                  |                  | 09/21/2022 0:00    |
| 22081261-002C | 03R                                              | 09/14/2022 13:09 | 09/15/2022 10:05 |                  |                    |
|               | SW-846 9036 (Dissolved)                          |                  |                  |                  | 09/19/2022 13:31   |
|               | SW-846 9214 (Dissolved)                          |                  |                  |                  | 09/20/2022 11:22   |
|               | SW-846 9251 (Dissolved)                          |                  |                  |                  | 09/19/2022 13:31   |
| 22081261-002D | 03R                                              | 09/14/2022 13:09 | 09/15/2022 10:05 |                  |                    |
|               | SW-846 3005A, 6010B, Metals by ICP (Total)       |                  |                  | 09/16/2022 9:55  | 09/16/2022 17:49   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)     |                  |                  | 09/16/2022 9:55  | 09/19/2022 21:28   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)     |                  |                  | 09/16/2022 9:55  | 09/20/2022 15:05   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)     |                  |                  | 09/16/2022 9:55  | 09/22/2022 15:31   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)     |                  |                  | 10/19/2022 7:43  | 10/20/2022 16:06   |
|               | SW-846 7470A (Total)                             |                  |                  | 09/19/2022 10:35 | 09/20/2022 10:50   |
| 22081261-002E | 03R                                              | 09/14/2022 13:09 | 09/15/2022 10:05 |                  |                    |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved) |                  |                  | 09/19/2022 12:15 | 09/20/2022 22:14   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved) |                  |                  | 09/19/2022 12:15 | 09/21/2022 19:10   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved) |                  |                  | 09/19/2022 12:15 | 09/23/2022 4:09    |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved) |                  |                  | 09/19/2022 12:15 | 09/23/2022 15:59   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved) |                  |                  | 09/19/2022 12:15 | 10/03/2022 14:59   |
|               | SW-846 7470A (Dissolved)                         |                  |                  | 09/19/2022 10:35 | 09/20/2022 10:52   |
| 22081261-002F | 03R                                              | 09/14/2022 13:09 | 09/15/2022 10:05 |                  |                    |



**Client:** Ramboll

**Work Order:** 22081261

**Client Project:** Hennepin Q3 Groundwater

**Report Date:** 31-Oct-22

| Sample ID     | Client Sample ID                                        | Collection Date  | Received Date    |                  |                    |
|---------------|---------------------------------------------------------|------------------|------------------|------------------|--------------------|
| Test Name     |                                                         |                  |                  | Prep Date/Time   | Analysis Date/Time |
|               | SW-846 9012A (Total)                                    |                  |                  | 09/16/2022 10:30 | 09/19/2022 14:36   |
| 22081261-002G | 03R                                                     | 09/14/2022 13:09 | 09/15/2022 10:05 |                  |                    |
|               | SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS |                  |                  |                  | 09/16/2022 12:17   |
| 22081261-005A | 07                                                      | 09/14/2022 17:21 | 09/15/2022 10:05 |                  |                    |
|               | Field Elevation Measurements                            |                  |                  |                  | 09/14/2022 17:21   |
|               | Standard Method 4500-H B 2001 Field                     |                  |                  |                  | 09/14/2022 17:21   |
|               | Standard Methods 2130 B Field                           |                  |                  |                  | 09/14/2022 17:21   |
|               | Standard Methods 18th Ed. 2580 B Field                  |                  |                  |                  | 09/14/2022 17:21   |
|               | Standard Methods 2320 B (Total) 1997, 2011              |                  |                  |                  | 09/21/2022 14:45   |
|               | Standard Methods 2320 B 1997, 2011                      |                  |                  |                  | 09/21/2022 14:45   |
|               | Standard Methods 2510 B Field                           |                  |                  |                  | 09/14/2022 17:21   |
|               | Standard Methods 2540 C (Total) 1997, 2011              |                  |                  |                  | 09/20/2022 15:17   |
|               | Standard Methods 2550 B Field                           |                  |                  |                  | 09/14/2022 17:21   |
|               | Standard Methods 4500-NO2 B (Total) 2000, 2011          |                  |                  |                  | 09/15/2022 18:43   |
|               | Standard Methods 4500-NO3 F (Total) 2000, 2011          |                  |                  |                  | 09/16/2022 14:35   |
|               | Standard Methods 4500-O G Field                         |                  |                  |                  | 09/14/2022 17:21   |
|               | SW-846 9036 (Total)                                     |                  |                  |                  | 09/21/2022 12:43   |
|               | SW-846 9214 (Total)                                     |                  |                  |                  | 09/22/2022 16:35   |
|               | SW-846 9251 (Total)                                     |                  |                  |                  | 09/21/2022 12:43   |
| 22081261-005B | 07                                                      | 09/14/2022 17:21 | 09/15/2022 10:05 |                  |                    |
|               | EPA 314.0                                               |                  |                  |                  | 09/21/2022 0:00    |
| 22081261-005C | 07                                                      | 09/14/2022 17:21 | 09/15/2022 10:05 |                  |                    |
|               | SW-846 9036 (Dissolved)                                 |                  |                  |                  | 09/19/2022 13:55   |
|               | SW-846 9214 (Dissolved)                                 |                  |                  |                  | 09/20/2022 11:37   |
|               | SW-846 9251 (Dissolved)                                 |                  |                  |                  | 09/19/2022 13:55   |
| 22081261-005D | 07                                                      | 09/14/2022 17:21 | 09/15/2022 10:05 |                  |                    |
|               | SW-846 3005A, 6010B, Metals by ICP (Total)              |                  |                  | 09/16/2022 9:55  | 09/16/2022 18:22   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)            |                  |                  | 09/16/2022 9:55  | 09/19/2022 20:50   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)            |                  |                  | 09/16/2022 9:55  | 09/20/2022 15:37   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)            |                  |                  | 09/16/2022 9:55  | 09/22/2022 14:14   |
|               | SW-846 7470A (Total)                                    |                  |                  | 09/19/2022 10:35 | 09/20/2022 10:59   |
| 22081261-005E | 07                                                      | 09/14/2022 17:21 | 09/15/2022 10:05 |                  |                    |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                  | 09/19/2022 12:15 | 09/20/2022 22:27   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                  | 09/19/2022 12:15 | 09/21/2022 19:23   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                  | 09/19/2022 12:15 | 09/23/2022 4:21    |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                  | 09/19/2022 12:15 | 09/23/2022 16:12   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                  | 09/19/2022 12:15 | 10/03/2022 15:05   |

**Client:** Ramboll

**Work Order:** 22081261

**Client Project:** Hennepin Q3 Groundwater

**Report Date:** 31-Oct-22

| Sample ID     | Client Sample ID                                        | Collection Date  | Received Date    | Prep Date/Time   | Analysis Date/Time |
|---------------|---------------------------------------------------------|------------------|------------------|------------------|--------------------|
|               | <b>Test Name</b>                                        |                  |                  |                  |                    |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                  | 10/18/2022 14:32 | 10/26/2022 17:33   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                  | 10/18/2022 14:32 | 10/26/2022 17:39   |
|               | SW-846 7470A (Dissolved)                                |                  |                  | 09/19/2022 10:35 | 09/20/2022 11:01   |
| 22081261-005F | 07                                                      | 09/14/2022 17:21 | 09/15/2022 10:05 |                  |                    |
|               | SW-846 9012A (Total)                                    |                  |                  | 09/16/2022 10:30 | 09/19/2022 14:49   |
| 22081261-005G | 07                                                      | 09/14/2022 17:21 | 09/15/2022 10:05 |                  |                    |
|               | SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS |                  |                  |                  | 09/16/2022 12:42   |
| 22081261-006A | 08                                                      | 09/14/2022 9:37  | 09/15/2022 10:05 |                  |                    |
|               | Field Elevation Measurements                            |                  |                  |                  | 09/14/2022 9:37    |
|               | Standard Method 4500-H B 2001 Field                     |                  |                  |                  | 09/14/2022 9:37    |
|               | Standard Methods 2130 B Field                           |                  |                  |                  | 09/14/2022 9:37    |
|               | Standard Methods 2320 B 1997, 2011                      |                  |                  |                  | 09/21/2022 14:52   |
|               | Standard Methods 18th Ed. 2580 B Field                  |                  |                  |                  | 09/14/2022 9:37    |
|               | Standard Methods 2320 B (Total) 1997, 2011              |                  |                  |                  | 09/21/2022 14:52   |
|               | Standard Methods 2320 B 1997, 2011                      |                  |                  |                  | 09/21/2022 14:52   |
|               | Standard Methods 2510 B Field                           |                  |                  |                  | 09/14/2022 9:37    |
|               | Standard Methods 2540 C (Total) 1997, 2011              |                  |                  |                  | 09/20/2022 15:10   |
|               | Standard Methods 2550 B Field                           |                  |                  |                  | 09/14/2022 9:37    |
|               | Standard Methods 4500-NO2 B (Total) 2000, 2011          |                  |                  |                  | 09/15/2022 18:43   |
|               | Standard Methods 4500-NO3 F (Total) 2000, 2011          |                  |                  |                  | 09/16/2022 15:39   |
|               | Standard Methods 4500-O G Field                         |                  |                  |                  | 09/14/2022 9:37    |
|               | SW-846 9036 (Total)                                     |                  |                  |                  | 09/21/2022 12:46   |
|               | SW-846 9214 (Total)                                     |                  |                  |                  | 09/22/2022 16:38   |
|               | SW-846 9251 (Total)                                     |                  |                  |                  | 09/21/2022 12:51   |
| 22081261-006B | 08                                                      | 09/14/2022 9:37  | 09/15/2022 10:05 |                  |                    |
|               | EPA 314.0                                               |                  |                  |                  | 09/21/2022 0:00    |
| 22081261-006C | 08                                                      | 09/14/2022 9:37  | 09/15/2022 10:05 |                  |                    |
|               | SW-846 9036 (Dissolved)                                 |                  |                  |                  | 09/19/2022 13:58   |
|               | SW-846 9214 (Dissolved)                                 |                  |                  |                  | 09/20/2022 11:40   |
|               | SW-846 9251 (Dissolved)                                 |                  |                  |                  | 09/19/2022 13:58   |
| 22081261-006D | 08                                                      | 09/14/2022 9:37  | 09/15/2022 10:05 |                  |                    |
|               | SW-846 3005A, 6010B, Metals by ICP (Total)              |                  |                  | 09/16/2022 9:55  | 09/16/2022 18:26   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)            |                  |                  | 09/16/2022 9:55  | 09/19/2022 20:56   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)            |                  |                  | 09/16/2022 9:55  | 09/20/2022 15:43   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)            |                  |                  | 09/16/2022 9:55  | 09/22/2022 14:57   |
|               | SW-846 7470A (Total)                                    |                  |                  | 09/19/2022 10:35 | 09/20/2022 11:04   |
| 22081261-006E | 08                                                      | 09/14/2022 9:37  | 09/15/2022 10:05 |                  |                    |

**Client:** Ramboll

**Work Order:** 22081261

**Client Project:** Hennepin Q3 Groundwater

**Report Date:** 31-Oct-22

| Sample ID     | Client Sample ID                                        | Collection Date | Received Date    | Prep Date/Time   | Analysis Date/Time |
|---------------|---------------------------------------------------------|-----------------|------------------|------------------|--------------------|
|               | Test Name                                               |                 |                  |                  |                    |
|               | SW-846 3005A, 6010B, Metals by ICP (Dissolved)          |                 |                  | 09/19/2022 12:15 | 09/20/2022 8:59    |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                 |                  | 09/19/2022 12:15 | 09/20/2022 22:33   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                 |                  | 09/19/2022 12:15 | 09/21/2022 19:29   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                 |                  | 09/19/2022 12:15 | 09/23/2022 4:27    |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                 |                  | 09/19/2022 12:15 | 09/23/2022 16:18   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                 |                  | 09/19/2022 12:15 | 09/30/2022 9:54    |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                 |                  | 09/19/2022 12:15 | 10/03/2022 15:11   |
|               | SW-846 7470A (Dissolved)                                |                 |                  | 09/19/2022 10:35 | 09/20/2022 11:06   |
| 22081261-006F | 08                                                      | 09/14/2022 9:37 | 09/15/2022 10:05 |                  |                    |
|               | SW-846 9012A (Total)                                    |                 |                  | 09/16/2022 10:30 | 09/19/2022 14:53   |
| 22081261-006G | 08                                                      | 09/14/2022 9:37 | 09/15/2022 10:05 |                  |                    |
|               | SW-846 9066 (Total)                                     |                 |                  |                  | 09/20/2022 9:03    |
| 22081261-006H | 08                                                      | 09/14/2022 9:37 | 09/15/2022 10:05 |                  |                    |
|               | Standard Methods 4500-NH3 G (Total) 1997, 2011          |                 |                  |                  | 09/16/2022 22:23   |
| 22081261-006I | 08                                                      | 09/14/2022 9:37 | 09/15/2022 10:05 |                  |                    |
|               | SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS |                 |                  |                  | 09/16/2022 13:06   |
| 22081261-007A | 08D                                                     | 09/14/2022 9:09 | 09/15/2022 10:05 |                  |                    |
|               | Field Elevation Measurements                            |                 |                  |                  | 09/14/2022 9:09    |
|               | Standard Method 4500-H B 2001 Field                     |                 |                  |                  | 09/14/2022 9:09    |
|               | Standard Methods 2130 B Field                           |                 |                  |                  | 09/14/2022 9:09    |
|               | Standard Methods 2320 B 1997, 2011                      |                 |                  |                  | 09/21/2022 14:58   |
|               | Standard Methods 18th Ed. 2580 B Field                  |                 |                  |                  | 09/14/2022 9:09    |
|               | Standard Methods 2320 B (Total) 1997, 2011              |                 |                  |                  | 09/21/2022 14:58   |
|               | Standard Methods 2320 B 1997, 2011                      |                 |                  |                  | 09/21/2022 14:58   |
|               | Standard Methods 2510 B Field                           |                 |                  |                  | 09/14/2022 9:09    |
|               | Standard Methods 2540 C (Total) 1997, 2011              |                 |                  |                  | 09/20/2022 15:11   |
|               | Standard Methods 2550 B Field                           |                 |                  |                  | 09/14/2022 9:09    |
|               | Standard Methods 4500-NO2 B (Total) 2000, 2011          |                 |                  |                  | 09/15/2022 18:46   |
|               | Standard Methods 4500-NO3 F (Total) 2000, 2011          |                 |                  |                  | 09/16/2022 15:41   |
|               | Standard Methods 4500-O G Field                         |                 |                  |                  | 09/14/2022 9:09    |
|               | SW-846 9036 (Total)                                     |                 |                  |                  | 09/21/2022 12:54   |
|               | SW-846 9214 (Total)                                     |                 |                  |                  | 09/22/2022 16:40   |
|               | SW-846 9251 (Total)                                     |                 |                  |                  | 09/21/2022 12:54   |
| 22081261-007B | 08D                                                     | 09/14/2022 9:09 | 09/15/2022 10:05 |                  |                    |
|               | EPA 314.0                                               |                 |                  |                  | 09/21/2022 0:00    |
| 22081261-007C | 08D                                                     | 09/14/2022 9:09 | 09/15/2022 10:05 |                  |                    |
|               | SW-846 9036 (Dissolved)                                 |                 |                  |                  | 09/19/2022 14:22   |

**Client:** Ramboll

**Work Order:** 22081261

**Client Project:** Hennepin Q3 Groundwater

**Report Date:** 31-Oct-22

| Sample ID     | Client Sample ID                                        | Collection Date  | Received Date    | Prep Date/Time   | Analysis Date/Time |
|---------------|---------------------------------------------------------|------------------|------------------|------------------|--------------------|
| Test Name     |                                                         |                  |                  |                  |                    |
|               | SW-846 9214 (Dissolved)                                 |                  |                  |                  | 09/20/2022 11:43   |
|               | SW-846 9251 (Dissolved)                                 |                  |                  |                  | 09/19/2022 14:22   |
| 22081261-007D | 08D                                                     | 09/14/2022 9:09  | 09/15/2022 10:05 |                  |                    |
|               | SW-846 3005A, 6010B, Metals by ICP (Total)              |                  |                  | 09/16/2022 9:55  | 09/16/2022 18:29   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)            |                  |                  | 09/16/2022 9:55  | 09/19/2022 21:03   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)            |                  |                  | 09/16/2022 9:55  | 09/20/2022 15:50   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)            |                  |                  | 09/16/2022 9:55  | 09/22/2022 15:02   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)            |                  |                  | 10/19/2022 7:43  | 10/20/2022 17:27   |
|               | SW-846 7470A (Total)                                    |                  |                  | 09/19/2022 10:35 | 09/20/2022 11:08   |
| 22081261-007E | 08D                                                     | 09/14/2022 9:09  | 09/15/2022 10:05 |                  |                    |
|               | SW-846 3005A, 6010B, Metals by ICP (Dissolved)          |                  |                  | 09/19/2022 12:15 | 09/20/2022 9:40    |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                  | 09/19/2022 12:15 | 09/20/2022 23:24   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                  | 09/19/2022 12:15 | 09/21/2022 19:35   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                  | 09/19/2022 12:15 | 09/23/2022 5:17    |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                  | 09/19/2022 12:15 | 09/23/2022 16:50   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                  | 09/19/2022 12:15 | 09/30/2022 9:58    |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                  | 09/19/2022 12:15 | 10/03/2022 15:17   |
|               | SW-846 7470A (Dissolved)                                |                  |                  | 09/19/2022 10:35 | 09/20/2022 11:10   |
| 22081261-007F | 08D                                                     | 09/14/2022 9:09  | 09/15/2022 10:05 |                  |                    |
|               | SW-846 9012A (Total)                                    |                  |                  | 09/16/2022 10:30 | 09/19/2022 14:57   |
| 22081261-007G | 08D                                                     | 09/14/2022 9:09  | 09/15/2022 10:05 |                  |                    |
|               | SW-846 9066 (Total)                                     |                  |                  |                  | 09/20/2022 9:12    |
| 22081261-007H | 08D                                                     | 09/14/2022 9:09  | 09/15/2022 10:05 |                  |                    |
|               | Standard Methods 4500-NH3 G (Total) 1997, 2011          |                  |                  |                  | 09/16/2022 20:01   |
| 22081261-007I | 08D                                                     | 09/14/2022 9:09  | 09/15/2022 10:05 |                  |                    |
|               | SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS |                  |                  |                  | 09/16/2022 13:33   |
| 22081261-013A | 18S                                                     | 09/14/2022 13:28 | 09/15/2022 10:05 |                  |                    |
|               | Field Elevation Measurements                            |                  |                  |                  | 09/14/2022 13:28   |
|               | Standard Method 4500-H B 2001 Field                     |                  |                  |                  | 09/14/2022 13:28   |
|               | Standard Methods 2130 B Field                           |                  |                  |                  | 09/14/2022 13:28   |
|               | Standard Methods 18th Ed. 2580 B Field                  |                  |                  |                  | 09/14/2022 13:28   |
|               | Standard Methods 2320 B (Total) 1997, 2011              |                  |                  |                  | 09/21/2022 15:26   |
|               | Standard Methods 2320 B 1997, 2011                      |                  |                  |                  | 09/21/2022 15:26   |
|               | Standard Methods 2510 B Field                           |                  |                  |                  | 09/14/2022 13:28   |
|               | Standard Methods 2540 C (Total) 1997, 2011              |                  |                  |                  | 09/19/2022 15:49   |
|               | Standard Methods 2550 B Field                           |                  |                  |                  | 09/14/2022 13:28   |
|               | Standard Methods 4500-NO2 B (Total) 2000, 2011          |                  |                  |                  | 09/15/2022 18:49   |

**Client:** Ramboll

**Work Order:** 22081261

**Client Project:** Hennepin Q3 Groundwater

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| Sample ID     | Client Sample ID                                        | Collection Date  | Received Date    | Prep Date/Time   | Analysis Date/Time |
|---------------|---------------------------------------------------------|------------------|------------------|------------------|--------------------|
| Test Name     |                                                         |                  |                  |                  |                    |
|               | Standard Methods 4500-NO3 F (Total) 2000, 2011          |                  |                  |                  | 09/16/2022 12:56   |
|               | Standard Methods 4500-O G Field                         |                  |                  |                  | 09/14/2022 13:28   |
|               | SW-846 9036 (Total)                                     |                  |                  |                  | 09/21/2022 14:25   |
|               | SW-846 9214 (Total)                                     |                  |                  |                  | 09/22/2022 17:03   |
|               | SW-846 9251 (Total)                                     |                  |                  |                  | 09/21/2022 14:25   |
| 22081261-013B | 18S                                                     | 09/14/2022 13:28 | 09/15/2022 10:05 |                  |                    |
|               | EPA 314.0                                               |                  |                  |                  | 09/21/2022 0:00    |
| 22081261-013C | 18S                                                     | 09/14/2022 13:28 | 09/15/2022 10:05 |                  |                    |
|               | SW-846 9036 (Dissolved)                                 |                  |                  |                  | 09/19/2022 15:47   |
|               | SW-846 9214 (Dissolved)                                 |                  |                  |                  | 09/20/2022 12:04   |
|               | SW-846 9251 (Dissolved)                                 |                  |                  |                  | 09/19/2022 15:47   |
| 22081261-013D | 18S                                                     | 09/14/2022 13:28 | 09/15/2022 10:05 |                  |                    |
|               | SW-846 3005A, 6010B, Metals by ICP (Total)              |                  |                  | 09/16/2022 9:55  | 09/16/2022 18:48   |
|               | SW-846 3005A, 6010B, Metals by ICP (Total)              |                  |                  | 09/16/2022 9:55  | 09/19/2022 14:38   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)            |                  |                  | 09/16/2022 9:55  | 09/19/2022 22:36   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)            |                  |                  | 09/16/2022 9:55  | 09/20/2022 16:47   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)            |                  |                  | 09/16/2022 9:55  | 09/22/2022 15:17   |
|               | SW-846 7470A (Total)                                    |                  |                  | 09/19/2022 10:35 | 09/20/2022 11:28   |
| 22081261-013E | 18S                                                     | 09/14/2022 13:28 | 09/15/2022 10:05 |                  |                    |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                  | 09/19/2022 12:15 | 09/21/2022 0:03    |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                  | 09/19/2022 12:15 | 09/21/2022 20:57   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                  | 09/19/2022 12:15 | 09/23/2022 5:54    |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                  | 09/19/2022 12:15 | 09/23/2022 17:27   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                  | 09/19/2022 12:15 | 10/03/2022 17:04   |
|               | SW-846 7470A (Dissolved)                                |                  |                  | 09/19/2022 10:35 | 09/20/2022 11:31   |
| 22081261-013F | 18S                                                     | 09/14/2022 13:28 | 09/15/2022 10:05 |                  |                    |
|               | SW-846 9012A (Total)                                    |                  |                  | 09/16/2022 17:53 | 09/19/2022 12:48   |
| 22081261-013G | 18S                                                     | 09/14/2022 13:28 | 09/15/2022 10:05 |                  |                    |
|               | SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS |                  |                  |                  | 09/16/2022 14:22   |
| 22081261-014A | 18D                                                     | 09/14/2022 13:44 | 09/15/2022 10:05 |                  |                    |
|               | Field Elevation Measurements                            |                  |                  |                  | 09/14/2022 13:44   |
|               | Standard Method 4500-H B 2001 Field                     |                  |                  |                  | 09/14/2022 13:44   |
|               | Standard Methods 2130 B Field                           |                  |                  |                  | 09/14/2022 13:44   |
|               | Standard Methods 18th Ed. 2580 B Field                  |                  |                  |                  | 09/14/2022 13:44   |
|               | Standard Methods 2320 B (Total) 1997, 2011              |                  |                  |                  | 09/21/2022 15:31   |
|               | Standard Methods 2320 B 1997, 2011                      |                  |                  |                  | 09/21/2022 15:31   |
|               | Standard Methods 2510 B Field                           |                  |                  |                  | 09/14/2022 13:44   |

**Client:** Ramboll

**Work Order:** 22081261

**Client Project:** Hennepin Q3 Groundwater

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|---------------|---------------------------------------------------------|------------------|------------------|------------------|--------------------|
|               | Test Name                                               |                  |                  |                  |                    |
|               | Standard Methods 2540 C (Total) 1997, 2011              |                  |                  |                  | 09/20/2022 16:13   |
|               | Standard Methods 2550 B Field                           |                  |                  |                  | 09/14/2022 13:44   |
|               | Standard Methods 4500-NO2 B (Total) 2000, 2011          |                  |                  |                  | 09/15/2022 18:51   |
|               | Standard Methods 4500-NO3 F (Total) 2000, 2011          |                  |                  |                  | 09/16/2022 13:07   |
|               | Standard Methods 4500-O G Field                         |                  |                  |                  | 09/14/2022 13:44   |
|               | SW-846 9036 (Total)                                     |                  |                  |                  | 09/21/2022 14:33   |
|               | SW-846 9214 (Total)                                     |                  |                  |                  | 09/22/2022 17:05   |
|               | SW-846 9251 (Total)                                     |                  |                  |                  | 09/21/2022 14:33   |
| 22081261-014B | 18D                                                     | 09/14/2022 13:44 | 09/15/2022 10:05 |                  |                    |
|               | EPA 314.0                                               |                  |                  |                  | 09/21/2022 0:00    |
| 22081261-014C | 18D                                                     | 09/14/2022 13:44 | 09/15/2022 10:05 |                  |                    |
|               | SW-846 9036 (Dissolved)                                 |                  |                  |                  | 09/19/2022 15:55   |
|               | SW-846 9214 (Dissolved)                                 |                  |                  |                  | 09/20/2022 12:06   |
|               | SW-846 9251 (Dissolved)                                 |                  |                  |                  | 09/19/2022 15:55   |
| 22081261-014D | 18D                                                     | 09/14/2022 13:44 | 09/15/2022 10:05 |                  |                    |
|               | SW-846 3005A, 6010B, Metals by ICP (Total)              |                  |                  | 09/16/2022 9:55  | 09/16/2022 19:07   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)            |                  |                  | 09/16/2022 9:55  | 09/19/2022 22:42   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)            |                  |                  | 09/16/2022 9:55  | 09/20/2022 16:53   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)            |                  |                  | 09/16/2022 9:55  | 09/22/2022 15:22   |
|               | SW-846 7470A (Total)                                    |                  |                  | 09/19/2022 10:35 | 09/20/2022 11:33   |
| 22081261-014E | 18D                                                     | 09/14/2022 13:44 | 09/15/2022 10:05 |                  |                    |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                  | 09/19/2022 12:15 | 09/21/2022 0:09    |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                  | 09/19/2022 12:15 | 09/21/2022 21:03   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                  | 09/19/2022 12:15 | 09/23/2022 6:00    |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                  | 09/19/2022 12:15 | 09/23/2022 18:36   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                  | 09/19/2022 12:15 | 10/03/2022 17:10   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                  | 10/18/2022 14:32 | 10/19/2022 22:42   |
|               | SW-846 7470A (Dissolved)                                |                  |                  | 09/19/2022 10:35 | 09/20/2022 11:35   |
| 22081261-014F | 18D                                                     | 09/14/2022 13:44 | 09/15/2022 10:05 |                  |                    |
|               | SW-846 9012A (Total)                                    |                  |                  | 09/16/2022 17:53 | 09/19/2022 16:02   |
| 22081261-014G | 18D                                                     | 09/14/2022 13:44 | 09/15/2022 10:05 |                  |                    |
|               | SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS |                  |                  |                  | 09/16/2022 14:46   |
| 22081261-030A | 45S                                                     | 09/14/2022 12:34 | 09/15/2022 10:05 |                  |                    |
|               | Field Elevation Measurements                            |                  |                  |                  | 09/14/2022 12:34   |
|               | Standard Method 4500-H B 2001 Field                     |                  |                  |                  | 09/14/2022 12:34   |
|               | Standard Methods 2130 B Field                           |                  |                  |                  | 09/14/2022 12:34   |
|               | Standard Methods 18th Ed. 2580 B Field                  |                  |                  |                  | 09/14/2022 12:34   |

**Client:** Ramboll

**Work Order:** 22081261

**Client Project:** Hennepin Q3 Groundwater

**Report Date:** 31-Oct-22

| Sample ID     | Client Sample ID                                        | Collection Date  | Received Date    |                  |                    |
|---------------|---------------------------------------------------------|------------------|------------------|------------------|--------------------|
|               | Test Name                                               |                  |                  | Prep Date/Time   | Analysis Date/Time |
|               | Standard Methods 2320 B (Total) 1997, 2011              |                  |                  |                  | 09/21/2022 15:47   |
|               | Standard Methods 2320 B 1997, 2011                      |                  |                  |                  | 09/21/2022 15:47   |
|               | Standard Methods 2510 B Field                           |                  |                  |                  | 09/14/2022 12:34   |
|               | Standard Methods 2540 C (Total) 1997, 2011              |                  |                  |                  | 09/20/2022 16:14   |
|               | Standard Methods 2550 B Field                           |                  |                  |                  | 09/14/2022 12:34   |
|               | Standard Methods 4500-NO2 B (Total) 2000, 2011          |                  |                  |                  | 09/15/2022 18:52   |
|               | Standard Methods 4500-NO3 F (Total) 2000, 2011          |                  |                  |                  | 09/16/2022 12:54   |
|               | Standard Methods 4500-O G Field                         |                  |                  |                  | 09/14/2022 12:34   |
|               | SW-846 9036 (Total)                                     |                  |                  |                  | 09/21/2022 16:30   |
|               | SW-846 9214 (Total)                                     |                  |                  |                  | 09/22/2022 17:42   |
|               | SW-846 9251 (Total)                                     |                  |                  |                  | 09/21/2022 16:30   |
| 22081261-030B | 45S                                                     | 09/14/2022 12:34 | 09/15/2022 10:05 |                  |                    |
|               | EPA 314.0                                               |                  |                  |                  | 09/21/2022 0:00    |
| 22081261-030C | 45S                                                     | 09/14/2022 12:34 | 09/15/2022 10:05 |                  |                    |
|               | SW-846 9036 (Dissolved)                                 |                  |                  |                  | 09/19/2022 18:11   |
|               | SW-846 9214 (Dissolved)                                 |                  |                  |                  | 09/20/2022 12:10   |
|               | SW-846 9251 (Dissolved)                                 |                  |                  |                  | 09/19/2022 18:11   |
| 22081261-030D | 45S                                                     | 09/14/2022 12:34 | 09/15/2022 10:05 |                  |                    |
|               | SW-846 3005A, 6010B, Metals by ICP (Total)              |                  |                  | 09/16/2022 9:55  | 09/19/2022 15:36   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)            |                  |                  | 09/16/2022 9:55  | 09/20/2022 2:03    |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)            |                  |                  | 09/16/2022 9:55  | 09/20/2022 23:09   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)            |                  |                  | 09/16/2022 9:55  | 09/23/2022 0:32    |
|               | SW-846 7470A (Total)                                    |                  |                  | 09/19/2022 10:39 | 09/20/2022 12:14   |
| 22081261-030E | 45S                                                     | 09/14/2022 12:34 | 09/15/2022 10:05 |                  |                    |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                  | 09/19/2022 12:16 | 09/21/2022 2:30    |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                  | 09/19/2022 12:16 | 09/21/2022 22:55   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                  | 09/19/2022 12:16 | 09/23/2022 8:15    |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                  | 09/19/2022 12:16 | 09/23/2022 20:11   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                  | 09/19/2022 12:16 | 09/26/2022 14:01   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                  | 09/19/2022 12:16 | 10/03/2022 17:16   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                  | 10/18/2022 14:32 | 10/19/2022 23:33   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                  | 10/18/2022 14:32 | 10/26/2022 17:46   |
|               | SW-846 7470A (Dissolved)                                |                  |                  | 09/19/2022 10:39 | 09/20/2022 12:16   |
| 22081261-030F | 45S                                                     | 09/14/2022 12:34 | 09/15/2022 10:05 |                  |                    |
|               | SW-846 9012A (Total)                                    |                  |                  | 09/16/2022 17:53 | 09/19/2022 16:11   |
| 22081261-030G | 45S                                                     | 09/14/2022 12:34 | 09/15/2022 10:05 |                  |                    |
|               | SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS |                  |                  |                  | 09/16/2022 15:10   |



**Client:** Ramboll

**Work Order:** 22081261

**Client Project:** Hennepin Q3 Groundwater

**Report Date:** 31-Oct-22

| Sample ID     | Client Sample ID                                 | Collection Date  | Received Date    | Prep Date/Time   | Analysis Date/Time |
|---------------|--------------------------------------------------|------------------|------------------|------------------|--------------------|
| Test Name     |                                                  |                  |                  |                  |                    |
| 22081261-038A | SG02                                             | 09/13/2022 14:52 | 09/15/2022 10:05 |                  |                    |
|               | Field Elevation Measurements                     |                  |                  |                  | 09/13/2022 14:52   |
| 22081261-040A | 08 Duplicate                                     | 09/14/2022 9:37  | 09/15/2022 10:05 |                  |                    |
|               | Field Elevation Measurements                     |                  |                  |                  | 09/14/2022 9:37    |
|               | Standard Method 4500-H B 2001 Field              |                  |                  |                  | 09/14/2022 9:37    |
|               | Standard Methods 2130 B Field                    |                  |                  |                  | 09/14/2022 9:37    |
|               | Standard Methods 2320 B 1997, 2011               |                  |                  |                  | 09/21/2022 16:11   |
|               | Standard Methods 18th Ed. 2580 B Field           |                  |                  |                  | 09/14/2022 9:37    |
|               | Standard Methods 2320 B (Total) 1997, 2011       |                  |                  |                  | 09/21/2022 16:11   |
|               | Standard Methods 2320 B 1997, 2011               |                  |                  |                  | 09/21/2022 16:11   |
|               | Standard Methods 2510 B Field                    |                  |                  |                  | 09/14/2022 9:37    |
|               | Standard Methods 2540 C (Total) 1997, 2011       |                  |                  |                  | 09/20/2022 16:16   |
|               | Standard Methods 2550 B Field                    |                  |                  |                  | 09/14/2022 9:37    |
|               | Standard Methods 4500-NO2 B (Total) 2000, 2011   |                  |                  |                  | 09/15/2022 18:53   |
|               | Standard Methods 4500-NO3 F (Total) 2000, 2011   |                  |                  |                  | 09/15/2022 19:22   |
|               | Standard Methods 4500-O G Field                  |                  |                  |                  | 09/14/2022 9:37    |
|               | SW-846 9036 (Total)                              |                  |                  |                  | 09/21/2022 17:53   |
|               | SW-846 9214 (Total)                              |                  |                  |                  | 09/22/2022 18:08   |
|               | SW-846 9251 (Total)                              |                  |                  |                  | 09/23/2022 9:16    |
| 22081261-040B | 08 Duplicate                                     | 09/14/2022 9:37  | 09/15/2022 10:05 |                  |                    |
|               | EPA 314.0                                        |                  |                  |                  | 09/21/2022 0:00    |
| 22081261-040C | 08 Duplicate                                     | 09/14/2022 9:37  | 09/15/2022 10:05 |                  |                    |
|               | SW-846 9036 (Dissolved)                          |                  |                  |                  | 09/19/2022 18:44   |
|               | SW-846 9214 (Dissolved)                          |                  |                  |                  | 09/20/2022 12:12   |
|               | SW-846 9251 (Dissolved)                          |                  |                  |                  | 09/19/2022 18:43   |
| 22081261-040D | 08 Duplicate                                     | 09/14/2022 9:37  | 09/15/2022 10:05 |                  |                    |
|               | SW-846 3005A, 6010B, Metals by ICP (Total)       |                  |                  | 09/16/2022 9:55  | 09/19/2022 16:36   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)     |                  |                  | 09/16/2022 9:55  | 09/20/2022 1:38    |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)     |                  |                  | 09/16/2022 9:55  | 09/21/2022 0:18    |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)     |                  |                  | 09/16/2022 9:55  | 09/23/2022 0:22    |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)     |                  |                  | 10/19/2022 7:43  | 10/20/2022 18:49   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)     |                  |                  | 09/16/2022 9:55  | 10/20/2022 18:55   |
|               | SW-846 7470A (Total)                             |                  |                  | 09/19/2022 10:39 | 09/20/2022 12:29   |
| 22081261-040E | 08 Duplicate                                     | 09/14/2022 9:37  | 09/15/2022 10:05 |                  |                    |
|               | SW-846 3005A, 6010B, Metals by ICP (Dissolved)   |                  |                  | 09/19/2022 12:16 | 09/20/2022 9:49    |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved) |                  |                  | 09/19/2022 12:16 | 09/21/2022 2:49    |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved) |                  |                  | 09/19/2022 12:16 | 09/23/2022 8:27    |



**Client:** Ramboll

**Work Order:** 22081261

**Client Project:** Hennepin Q3 Groundwater

**Report Date:** 31-Oct-22

| Sample ID     | Client Sample ID                                        | Collection Date  | Received Date    | Prep Date/Time   | Analysis Date/Time |
|---------------|---------------------------------------------------------|------------------|------------------|------------------|--------------------|
|               | Test Name                                               |                  |                  |                  |                    |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                  | 09/19/2022 12:16 | 09/23/2022 20:23   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                  | 09/19/2022 12:16 | 09/26/2022 14:20   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                  | 09/19/2022 12:16 | 09/29/2022 19:16   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                  | 09/19/2022 12:16 | 10/03/2022 17:23   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                  | 10/18/2022 14:32 | 10/26/2022 17:58   |
|               | SW-846 7470A (Dissolved)                                |                  |                  | 09/19/2022 10:39 | 09/20/2022 12:32   |
| 22081261-040F | 08 Duplicate                                            | 09/14/2022 9:37  | 09/15/2022 10:05 |                  |                    |
|               | SW-846 9012A (Total)                                    |                  |                  | 09/16/2022 17:53 | 09/19/2022 16:15   |
| 22081261-040G | 08 Duplicate                                            | 09/14/2022 9:37  | 09/15/2022 10:05 |                  |                    |
|               | SW-846 9066 (Total)                                     |                  |                  |                  | 09/20/2022 9:56    |
| 22081261-040H | 08 Duplicate                                            | 09/14/2022 9:37  | 09/15/2022 10:05 |                  |                    |
|               | Standard Methods 4500-NH3 G (Total) 1997, 2011          |                  |                  |                  | 09/19/2022 15:29   |
| 22081261-040I | 08 Duplicate                                            | 09/14/2022 9:37  | 09/15/2022 10:05 |                  |                    |
|               | SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS |                  |                  |                  | 09/16/2022 15:34   |
| 22081261-041A | Field Blank                                             | 09/14/2022 16:45 | 09/15/2022 10:05 |                  |                    |
|               | Standard Methods 2320 B 1997, 2011                      |                  |                  |                  | 09/22/2022 8:14    |
|               | Standard Methods 2320 B (Total) 1997, 2011              |                  |                  |                  | 09/22/2022 8:14    |
|               | Standard Methods 2320 B 1997, 2011                      |                  |                  |                  | 09/22/2022 8:14    |
|               | Standard Methods 2540 C (Total) 1997, 2011              |                  |                  |                  | 09/20/2022 16:16   |
|               | Standard Methods 4500-NO2 B (Total) 2000, 2011          |                  |                  |                  | 09/15/2022 18:53   |
|               | Standard Methods 4500-NO3 F (Total) 2000, 2011          |                  |                  |                  | 09/16/2022 14:04   |
|               | SW-846 9036 (Total)                                     |                  |                  |                  | 09/21/2022 17:58   |
|               | SW-846 9214 (Total)                                     |                  |                  |                  | 09/22/2022 18:10   |
|               | SW-846 9251 (Total)                                     |                  |                  |                  | 09/21/2022 17:58   |
| 22081261-041B | Field Blank                                             | 09/14/2022 16:45 | 09/15/2022 10:05 |                  |                    |
|               | EPA 314.0                                               |                  |                  |                  | 09/21/2022 0:00    |
| 22081261-041C | Field Blank                                             | 09/14/2022 16:45 | 09/15/2022 10:05 |                  |                    |
|               | SW-846 9036 (Dissolved)                                 |                  |                  |                  | 09/19/2022 19:02   |
|               | SW-846 9214 (Dissolved)                                 |                  |                  |                  | 09/20/2022 12:15   |
|               | SW-846 9251 (Dissolved)                                 |                  |                  |                  | 09/19/2022 19:01   |
| 22081261-041D | Field Blank                                             | 09/14/2022 16:45 | 09/15/2022 10:05 |                  |                    |
|               | SW-846 3005A, 6010B, Metals by ICP (Total)              |                  |                  | 09/16/2022 9:55  | 09/19/2022 16:39   |
|               | SW-846 3005A, 6010B, Metals by ICP (Total)              |                  |                  | 09/16/2022 9:55  | 09/20/2022 10:13   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)            |                  |                  | 09/16/2022 9:55  | 09/20/2022 1:44    |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)            |                  |                  | 09/16/2022 9:55  | 09/21/2022 0:24    |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Total)            |                  |                  | 09/16/2022 9:55  | 09/23/2022 0:27    |
|               | SW-846 7470A (Total)                                    |                  |                  | 09/19/2022 10:39 | 09/20/2022 12:38   |

**Client:** Ramboll

**Work Order:** 22081261

**Client Project:** Hennepin Q3 Groundwater

**Report Date:** 31-Oct-22

| Sample ID     | Client Sample ID                                        | Collection Date  | Received Date    | Prep Date/Time   | Analysis Date/Time |
|---------------|---------------------------------------------------------|------------------|------------------|------------------|--------------------|
| Test Name     |                                                         |                  |                  |                  |                    |
| 22081261-041E | Field Blank                                             | 09/14/2022 16:45 | 09/15/2022 10:05 |                  |                    |
|               | SW-846 3005A, 6010B, Metals by ICP (Dissolved)          |                  |                  | 09/19/2022 12:16 | 09/20/2022 9:58    |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                  | 09/19/2022 12:16 | 09/21/2022 2:56    |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                  | 09/19/2022 12:16 | 09/22/2022 0:04    |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                  | 09/19/2022 12:16 | 09/23/2022 8:33    |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                  | 09/19/2022 12:16 | 09/23/2022 20:29   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                  | 09/19/2022 12:16 | 09/26/2022 14:26   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                  | 09/19/2022 12:16 | 09/29/2022 19:22   |
|               | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)        |                  |                  | 09/19/2022 12:16 | 10/03/2022 18:26   |
|               | SW-846 7470A (Dissolved)                                |                  |                  | 09/19/2022 10:39 | 09/20/2022 12:41   |
| 22081261-041F | Field Blank                                             | 09/14/2022 16:45 | 09/15/2022 10:05 |                  |                    |
|               | SW-846 9012A (Total)                                    |                  |                  | 09/16/2022 17:53 | 09/19/2022 16:41   |
| 22081261-041G | Field Blank                                             | 09/14/2022 16:45 | 09/15/2022 10:05 |                  |                    |
|               | SW-846 9066 (Total)                                     |                  |                  |                  | 09/20/2022 10:01   |
| 22081261-041H | Field Blank                                             | 09/14/2022 16:45 | 09/15/2022 10:05 |                  |                    |
|               | Standard Methods 4500-NH3 G (Total) 1997, 2011          |                  |                  |                  | 09/16/2022 20:54   |
| 22081261-041I | Field Blank                                             | 09/14/2022 16:45 | 09/15/2022 10:05 |                  |                    |
|               | SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS |                  |                  |                  | 09/16/2022 9:03    |

**Client:** Ramboll

**Work Order:** 22081261

**Client Project:** Hennepin Q3 Groundwater

**Report Date:** 31-Oct-22

**STANDARD METHOD 4500-H B 2001 FIELD**

| Batch R319062       |      | SampType: LCS |      | Units  |       |             |       |           |            |            |               |
|---------------------|------|---------------|------|--------|-------|-------------|-------|-----------|------------|------------|---------------|
| SampID: LCS-R319062 |      |               |      |        |       |             |       |           |            |            | Date Analyzed |
| Analyses            | Cert | RL            | Qual | Result | Spike | SPK Ref Val | %REC  | Low Limit | High Limit |            |               |
| pH                  | *    | 1.00          |      | 6.99   | 7.000 | 0           | 99.9  | 98.57     | 101.4      | 09/13/2022 |               |
| pH                  | *    | 1.00          |      | 7.05   | 7.000 | 0           | 100.7 | 98.57     | 101.4      | 09/14/2022 |               |

**STANDARD METHODS 2510 B FIELD**

| Batch R319062            |      | SampType: LCS |      | Units $\mu\text{S/cm}$ |       |             |      |           |            |            | Date Analyzed |
|--------------------------|------|---------------|------|------------------------|-------|-------------|------|-----------|------------|------------|---------------|
| SampID: LCS-R319062      |      |               |      |                        |       |             |      |           |            |            |               |
| Analyses                 | Cert | RL            | Qual | Result                 | Spike | SPK Ref Val | %REC | Low Limit | High Limit |            |               |
| Spec. Conductance, Field | *    | 0             |      | 1400                   | 1409  | 0           | 99.1 | 90        | 110        | 09/14/2022 |               |
| Spec. Conductance, Field | *    | 0             |      | 1390                   | 1409  | 0           | 98.4 | 90        | 110        | 09/13/2022 |               |

**STANDARD METHODS 2320 B 1997, 2011**

| Batch R318378                |  | SampType: MBLK |    | Units mg/L |        |       |             |      |           |            |               |
|------------------------------|--|----------------|----|------------|--------|-------|-------------|------|-----------|------------|---------------|
| SampID: MBLK                 |  |                |    |            |        |       |             |      |           |            |               |
| Analyses                     |  | Cert           | RL | Qual       | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
| Alkalinity, Total (as CaCO3) |  |                | 0  |            | 0      |       |             |      |           |            | 09/21/2022    |

| Batch R318378                |      | SampType: LCS |      | Units mg/L |       |             |       |           |            |            |               |
|------------------------------|------|---------------|------|------------|-------|-------------|-------|-----------|------------|------------|---------------|
| SampID: LCS                  |      |               |      |            |       |             |       |           |            |            | Date Analyzed |
| Analyses                     | Cert | RL            | Qual | Result     | Spike | SPK Ref Val | %REC  | Low Limit | High Limit |            |               |
| Alkalinity, Total (as CaCO3) |      | 0             |      | 237        | 234.0 | 0           | 101.3 | 90        | 110        | 09/21/2022 |               |

| Batch R318378                |  | SampType: DUP |    | Units mg/L |        |       |             |      | RPD Limit: 10 |      |               |
|------------------------------|--|---------------|----|------------|--------|-------|-------------|------|---------------|------|---------------|
| SampID: 22081261-040ADUP     |  |               |    |            |        |       |             |      |               |      | Date Analyzed |
| Analyses                     |  | Cert          | RL | Qual       | Result | Spike | SPK Ref Val | %REC | RPD Ref Val   | %RPD |               |
| Alkalinity, Total (as CaCO3) |  |               | 0  |            | 509    |       |             |      | 496.0         | 2.59 | 09/21/2022    |

| Batch R318378                |  | SampType: DUP |    | Units mg/L |        |       |             | RPD Limit: 10 |             |       | Date Analyzed |
|------------------------------|--|---------------|----|------------|--------|-------|-------------|---------------|-------------|-------|---------------|
| SampID: 22081261-041ADUP     |  |               |    |            |        |       |             |               |             |       |               |
| Analyses                     |  | Cert          | RL | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD  |               |
| Alkalinity, Total (as CaCO3) |  |               | 0  | R          | 1      |       |             |               | 2.000       | 66.67 | 09/22/2022    |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22081261

Client Project: Hennepin Q3 Groundwater

Report Date: 31-Oct-22

### STANDARD METHODS 2540 C (TOTAL) 1997, 2011

Batch R318312 SampType: MBLK Units mg/L

SampleID: MBLK

| Analyses               | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|------------------------|------|----|------|--------|-------|-------------|------|-----------|------------|---------------|
| Total Dissolved Solids |      | 20 |      | < 20   | 16.00 | 0           | 0    | -100      | 100        | 09/19/2022    |
| Total Dissolved Solids |      | 20 |      | < 20   | 16.00 | 0           | 0    | -100      | 100        | 09/19/2022    |
| Total Dissolved Solids |      | 20 |      | < 20   | 16.00 | 0           | 0    | -100      | 100        | 09/19/2022    |

Batch R318312 SampType: LCS Units mg/L

SampleID: LCS

| Analyses               | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|------------------------|------|----|------|--------|-------|-------------|------|-----------|------------|---------------|
| Total Dissolved Solids |      | 20 |      | 966    | 1000  | 0           | 96.6 | 90        | 110        | 09/19/2022    |
| Total Dissolved Solids |      | 20 |      | 958    | 1000  | 0           | 95.8 | 90        | 110        | 09/19/2022    |
| Total Dissolved Solids |      | 20 |      | 940    | 1000  | 0           | 94.0 | 90        | 110        | 09/19/2022    |

Batch R318312 SampType: DUP Units mg/L

RPD Limit: 5

SampleID: 22081261-001ADUP

| Analyses               | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|------------------------|------|----|------|--------|-------|-------------|------|-------------|------|---------------|
| Total Dissolved Solids |      | 20 |      | 628    |       |             |      | 614.0       | 2.25 | 09/19/2022    |

Batch R318312 SampType: DUP Units mg/L

RPD Limit: 5

SampleID: 22081261-009ADUP

| Analyses               | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|------------------------|------|----|------|--------|-------|-------------|------|-------------|------|---------------|
| Total Dissolved Solids |      | 20 | R    | 534    |       |             |      | 494.0       | 7.78 | 09/19/2022    |

Batch R318312 SampType: DUP Units mg/L

RPD Limit: 5

SampleID: 22081261-034ADUP

| Analyses               | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD  | Date Analyzed |
|------------------------|------|----|------|--------|-------|-------------|------|-------------|-------|---------------|
| Total Dissolved Solids |      | 20 | R    | 590    |       |             |      | 658.0       | 10.90 | 09/19/2022    |

Batch R318379 SampType: MBLK Units mg/L

SampleID: MBLK

| Analyses               | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|------------------------|------|----|------|--------|-------|-------------|------|-----------|------------|---------------|
| Total Dissolved Solids |      | 20 |      | < 20   | 16.00 | 0           | 0    | -100      | 100        | 09/20/2022    |

Batch R318379 SampType: LCS Units mg/L

SampleID: LCS

| Analyses               | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|------------------------|------|----|------|--------|-------|-------------|------|-----------|------------|---------------|
| Total Dissolved Solids |      | 20 |      | 926    | 1000  | 0           | 92.6 | 90        | 110        | 09/20/2022    |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22081261

Client Project: Hennepin Q3 Groundwater

Report Date: 31-Oct-22

### STANDARD METHODS 2540 C (TOTAL) 1997, 2011

| Batch R318379            |  | SampType: DUP |    | Units mg/L |        |       |             | RPD Limit: 5 |             |      | Date Analyzed |  |
|--------------------------|--|---------------|----|------------|--------|-------|-------------|--------------|-------------|------|---------------|--|
| SampID: 22081261-030ADUP |  |               |    |            |        |       |             |              |             |      |               |  |
| Analyses                 |  | Cert          | RL | Qual       | Result | Spike | SPK Ref Val | %REC         | RPD Ref Val | %RPD |               |  |
| Total Dissolved Solids   |  |               | 20 |            | 510    |       |             |              | 508.0       | 0.39 |               |  |
| 09/20/2022               |  |               |    |            |        |       |             |              |             |      |               |  |

| Batch R318379            |  | SampType: DUP |    | Units mg/L |        |       |             | RPD Limit: 5 |             |      |               |
|--------------------------|--|---------------|----|------------|--------|-------|-------------|--------------|-------------|------|---------------|
| SampID: 22081261-045ADUP |  |               |    |            |        |       |             |              |             |      |               |
| Analyses                 |  | Cert          | RL | Qual       | Result | Spike | SPK Ref Val | %REC         | RPD Ref Val | %RPD | Date Analyzed |
| Total Dissolved Solids   |  |               | 20 |            | 400    |       |             |              | 394.0       | 1.51 | 09/20/2022    |

| Batch R318497          |      | SampType: MBLK |      | Units mg/L |       |             |      |           |            |               |
|------------------------|------|----------------|------|------------|-------|-------------|------|-----------|------------|---------------|
| SampID: MBLK           |      |                |      |            |       |             |      |           |            |               |
| Analyses               | Cert | RL             | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
| Total Dissolved Solids |      | 20             |      | < 20       | 16.00 | 0           | 0    | -100      | 100        | 09/22/2022    |
| Total Dissolved Solids |      | 20             |      | < 20       | 16.00 | 0           | 0    | -100      | 100        | 09/23/2022    |
| Total Dissolved Solids |      | 20             |      | < 20       | 16.00 | 0           | 0    | -100      | 100        | 09/22/2022    |

| Batch R318497          |      | SampType: LCS |      | Units mg/L |       |             |      |           |            |               |
|------------------------|------|---------------|------|------------|-------|-------------|------|-----------|------------|---------------|
| SampID: LCS            |      |               |      |            |       |             |      |           |            |               |
| Analyses               | Cert | RL            | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
| Total Dissolved Solids |      | 20            |      | 970        | 1000  | 0           | 97.0 | 90        | 110        | 09/23/2022    |
| Total Dissolved Solids |      | 20            |      | 954        | 1000  | 0           | 95.4 | 90        | 110        | 09/22/2022    |
| Total Dissolved Solids |      | 20            |      | 952        | 1000  | 0           | 95.2 | 90        | 110        | 09/22/2022    |

| Batch R318497            |  | SampType: DUP |    | Units mg/L |        |       |             | RPD Limit: 5 |             |      | Date Analyzed |  |
|--------------------------|--|---------------|----|------------|--------|-------|-------------|--------------|-------------|------|---------------|--|
| SampID: 22081261-046ADUP |  |               |    |            |        |       |             |              |             |      |               |  |
| Analyses                 |  | Cert          | RL | Qual       | Result | Spike | SPK Ref Val | %REC         | RPD Ref Val | %RPD |               |  |
| Total Dissolved Solids   |  |               | 20 | H          | 400    |       |             |              | 388.0       | 3.05 |               |  |
| 09/22/2022               |  |               |    |            |        |       |             |              |             |      |               |  |

| Batch R318645          |      | SampType: MBLK |      | Units mg/L |       |             |      |           |            |  | Date Analyzed |
|------------------------|------|----------------|------|------------|-------|-------------|------|-----------|------------|--|---------------|
| SampID: MBLK           |      |                |      |            |       |             |      |           |            |  |               |
| Analyses               | Cert | RL             | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit |  |               |
| Total Dissolved Solids |      | 20             |      | < 20       | 16.00 | 0           | 0    | -100      | 100        |  |               |
| Total Dissolved Solids |      | 20             |      | < 20       | 16.00 | 0           | 0    | -100      | 100        |  |               |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22081261

Client Project: Hennepin Q3 Groundwater

Report Date: 31-Oct-22

### STANDARD METHODS 2540 C (TOTAL) 1997, 2011

| Batch R318645          |      | SampType: LCS |      | Units mg/L |       |             |      |           |            |               |
|------------------------|------|---------------|------|------------|-------|-------------|------|-----------|------------|---------------|
| SampID: LCS            |      |               |      |            |       |             |      |           |            |               |
| Analyses               | Cert | RL            | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
| Total Dissolved Solids |      | 20            |      | 974        | 1000  | 0           | 97.4 | 90        | 110        | 09/26/2022    |
| Total Dissolved Solids |      | 20            |      | 952        | 1000  | 0           | 95.2 | 90        | 110        | 09/26/2022    |

| Batch R318645            |  | SampType: DUP |    | Units mg/L |        |       |             | RPD Limit: 5 |             |      |               |
|--------------------------|--|---------------|----|------------|--------|-------|-------------|--------------|-------------|------|---------------|
| SampID: 22081261-029ADUP |  |               |    |            |        |       |             |              |             |      |               |
| Analyses                 |  | Cert          | RL | Qual       | Result | Spike | SPK Ref Val | %REC         | RPD Ref Val | %RPD | Date Analyzed |
| Total Dissolved Solids   |  |               | 50 | H          | 480    |       |             |              | 485.0       | 1.04 | 09/26/2022    |

### STANDARD METHODS 4500-NH3 G (TOTAL) 1997, 2011

|                          |      |                |      |            |        |             |      |           |            |            |      |
|--------------------------|------|----------------|------|------------|--------|-------------|------|-----------|------------|------------|------|
| Batch R318162            |      | SampType: MBLK |      | Units mg/L |        |             |      |           |            |            |      |
| SampID: ICB/MBLK         |      |                |      |            |        |             |      |           |            |            | Date |
| Analyses                 | Cert | RL             | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Analyzed   |      |
| Nitrogen, Ammonia (as N) |      | 0.10           |      | < 0.10     | 0.0270 | 0           | 0    | -100      | 100        | 09/16/2022 |      |

|                          |      |               |      |            |       |             |       |           |            |            |      |
|--------------------------|------|---------------|------|------------|-------|-------------|-------|-----------|------------|------------|------|
| Batch R318162            |      | SampType: LCS |      | Units mg/L |       |             |       |           |            |            |      |
| SampID: ICV/LCS          |      |               |      |            |       |             |       |           |            |            | Date |
| Analyses                 | Cert | RL            | Qual | Result     | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Analyzed   |      |
| Nitrogen, Ammonia (as N) |      | 0.10          |      | 1.02       | 1.000 | 0           | 102.2 | 90        | 110        | 09/16/2022 |      |

|                          |      |              |      |            |       |             |      |           |            |               |
|--------------------------|------|--------------|------|------------|-------|-------------|------|-----------|------------|---------------|
| Batch R318162            |      | SampType: MS |      | Units mg/L |       |             |      |           |            |               |
| SampID: 22081261-003GMS  |      |              |      |            |       |             |      |           |            |               |
| Analyses                 | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
| Nitrogen, Ammonia (as N) |      | 0.10         | S    | 1.78       | 2.000 | 0.02900     | 87.5 | 90        | 110        | 09/16/2022    |

|                          |  |               |      |            |        |       |             |               |             |      |               |
|--------------------------|--|---------------|------|------------|--------|-------|-------------|---------------|-------------|------|---------------|
| Batch R318162            |  | SampType: MSD |      | Units mg/L |        |       |             | RPD Limit: 10 |             |      |               |
| SampID: 22081261-003GMSD |  |               |      |            |        |       |             |               |             |      |               |
| Analyses                 |  | Cert          | RL   | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD | Date Analyzed |
| Nitrogen, Ammonia (as N) |  |               | 0.10 | S          | 1.73   | 2.000 | 0.02900     | 85.1          | 1.779       | 2.74 | 09/16/2022    |

| Batch R318237            |      | SampType: MBLK |      | Units mg/L |        |             |      |           |            |               |  |
|--------------------------|------|----------------|------|------------|--------|-------------|------|-----------|------------|---------------|--|
| SampID: ICB/MBLK         |      |                |      |            |        |             |      |           |            |               |  |
| Analyses                 | Cert | RL             | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Nitrogen, Ammonia (as N) |      | 0.10           |      | < 0.10     | 0.0270 | 0           | 0    | -100      | 100        | 09/19/2022    |  |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22081261

Client Project: Hennepin Q3 Groundwater

Report Date: 31-Oct-22

### STANDARD METHODS 4500-NH3 G (TOTAL) 1997, 2011

Batch R318237 SampType: LCS Units mg/L

SampID: ICV/LCS

| Analyses                 | Cert | RL   | Qual | Result | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|--------------------------|------|------|------|--------|-------|-------------|-------|-----------|------------|---------------|
| Nitrogen, Ammonia (as N) |      | 0.10 |      | 1.08   | 1.000 | 0           | 108.0 | 90        | 110        | 09/19/2022    |

### STANDARD METHODS 4500-NO2 B (TOTAL) 2000, 2011

Batch R318110 SampType: MBLK Units mg/L

SampID: MBLK

| Analyses                 | Cert | RL   | Qual | Result | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|--------------------------|------|------|------|--------|--------|-------------|------|-----------|------------|---------------|
| Nitrogen, Nitrite (as N) |      | 0.05 |      | < 0.05 | 0.0250 | 0           | 0    | -100      | 100        | 09/15/2022    |

Batch R318110 SampType: LCS Units mg/L

SampID: LCS

| Analyses                 | Cert | RL   | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|--------------------------|------|------|------|--------|-------|-------------|------|-----------|------------|---------------|
| Nitrogen, Nitrite (as N) |      | 0.25 |      | 1.03   | 1.100 | 0           | 93.6 | 90        | 110        | 09/15/2022    |

Batch R318110 SampType: MS Units mg/L

SampID: 22081261-002AMS

| Analyses                 | Cert | RL   | Qual | Result | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|--------------------------|------|------|------|--------|--------|-------------|-------|-----------|------------|---------------|
| Nitrogen, Nitrite (as N) |      | 0.05 |      | 0.52   | 0.5000 | 0           | 103.6 | 85        | 115        | 09/15/2022    |

Batch R318110 SampType: MSD Units mg/L

RPD Limit: 10

SampID: 22081261-002AMSD

| Analyses                 | Cert | RL   | Qual | Result | Spike  | SPK Ref Val | %REC  | RPD Ref Val | %RPD | Date Analyzed |
|--------------------------|------|------|------|--------|--------|-------------|-------|-------------|------|---------------|
| Nitrogen, Nitrite (as N) |      | 0.05 |      | 0.52   | 0.5000 | 0           | 104.6 | 0.5180      | 0.96 | 09/15/2022    |

Batch R318110 SampType: MS Units mg/L

SampID: 22081261-003AMS

| Analyses                 | Cert | RL   | Qual | Result | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|--------------------------|------|------|------|--------|--------|-------------|-------|-----------|------------|---------------|
| Nitrogen, Nitrite (as N) |      | 0.05 |      | 0.54   | 0.5000 | 0.01600     | 105.8 | 85        | 115        | 09/15/2022    |

Batch R318110 SampType: MSD Units mg/L

RPD Limit: 10

SampID: 22081261-003AMSD

| Analyses                 | Cert | RL   | Qual | Result | Spike  | SPK Ref Val | %REC  | RPD Ref Val | %RPD | Date Analyzed |
|--------------------------|------|------|------|--------|--------|-------------|-------|-------------|------|---------------|
| Nitrogen, Nitrite (as N) |      | 0.05 |      | 0.55   | 0.5000 | 0.01600     | 106.6 | 0.5450      | 0.73 | 09/15/2022    |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22081261

Client Project: Hennepin Q3 Groundwater

Report Date: 31-Oct-22

### STANDARD METHODS 4500-NO2 B (TOTAL) 2000, 2011

Batch R318110 SampType: MS Units mg/L

SampleID: 22081261-004AMS

| Analyses                 | Cert | RL   | Qual | Result | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|--------------------------|------|------|------|--------|--------|-------------|-------|-----------|------------|---------------|
| Nitrogen, Nitrite (as N) |      | 0.05 |      | 0.52   | 0.5000 | 0           | 104.8 | 85        | 115        | 09/15/2022    |

Batch R318110 SampType: MSD Units mg/L

RPD Limit: 10

SampleID: 22081261-004AMSD

| Analyses                 | Cert | RL   | Qual | Result | Spike  | SPK Ref Val | %REC  | RPD Ref Val | %RPD | Date Analyzed |
|--------------------------|------|------|------|--------|--------|-------------|-------|-------------|------|---------------|
| Nitrogen, Nitrite (as N) |      | 0.05 |      | 0.52   | 0.5000 | 0           | 104.6 | 0.5240      | 0.19 | 09/15/2022    |

### STANDARD METHODS 4500-NO3 F (TOTAL) 2000, 2011

Batch R318114 SampType: MBLK Units mg/L

SampleID: ICB/MBLK

| Analyses                         | Cert | RL    | Qual | Result  | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|----------------------------------|------|-------|------|---------|--------|-------------|------|-----------|------------|---------------|
| Nitrogen, Nitrate-Nitrite (as N) |      | 0.050 |      | < 0.050 | 0.0090 | 0           | 0    | -100      | 100        | 09/15/2022    |

Batch R318114 SampType: LCS Units mg/L

SampleID: ICV/LCS

| Analyses                         | Cert | RL    | Qual | Result | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|----------------------------------|------|-------|------|--------|--------|-------------|-------|-----------|------------|---------------|
| Nitrogen, Nitrate-Nitrite (as N) |      | 0.050 |      | 0.519  | 0.5000 | 0           | 103.8 | 90        | 110        | 09/15/2022    |

Batch R318170 SampType: MBLK Units mg/L

SampleID: ICB/MBLK

| Analyses                         | Cert | RL    | Qual | Result  | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|----------------------------------|------|-------|------|---------|--------|-------------|------|-----------|------------|---------------|
| Nitrogen, Nitrate-Nitrite (as N) |      | 0.050 |      | < 0.050 | 0.0090 | 0           | 0    | -100      | 100        | 09/16/2022    |

Batch R318170 SampType: LCS Units mg/L

SampleID: ICV/LCS

| Analyses                         | Cert | RL    | Qual | Result | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|----------------------------------|------|-------|------|--------|--------|-------------|-------|-----------|------------|---------------|
| Nitrogen, Nitrate-Nitrite (as N) |      | 0.050 |      | 0.517  | 0.5000 | 0           | 103.4 | 90        | 110        | 09/16/2022    |

Batch R318170 SampType: MS Units mg/L

SampleID: 22081261-005AMS

| Analyses                         | Cert | RL   | Qual | Result | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|----------------------------------|------|------|------|--------|-------|-------------|-------|-----------|------------|---------------|
| Nitrogen, Nitrate-Nitrite (as N) |      | 2.50 |      | 26.2   | 12.50 | 13.35       | 102.6 | 85        | 115        | 09/16/2022    |





## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22081261

Client Project: Hennepin Q3 Groundwater

Report Date: 31-Oct-22

### STANDARD METHODS 4500-NO3 F (TOTAL) 2000, 2011

| Batch R318170                    |  | SampType: MSD |      | Units mg/L |        |       |             | RPD Limit: 10 |             |      | Date Analyzed |  |
|----------------------------------|--|---------------|------|------------|--------|-------|-------------|---------------|-------------|------|---------------|--|
| SampID: 22081261-005AMSD         |  |               |      |            |        |       |             |               |             |      |               |  |
| Analyses                         |  | Cert          | RL   | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD |               |  |
| Nitrogen, Nitrate-Nitrite (as N) |  |               | 2.50 |            | 26.3   | 12.50 | 13.35       | 103.7         | 26.18       | 0.48 | 09/16/2022    |  |

| Batch R318170                    |      | SampType: MS |      | Units mg/L |       |             |       |           |            |            |               |
|----------------------------------|------|--------------|------|------------|-------|-------------|-------|-----------|------------|------------|---------------|
| SampID: 22081261-010AMS          |      |              |      |            |       |             |       |           |            |            | Date Analyzed |
| Analyses                         | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC  | Low Limit | High Limit |            |               |
| Nitrogen, Nitrate-Nitrite (as N) |      | 0.500        | H    | 6.44       | 2.500 | 3.945       | 100.0 | 85        | 115        | 09/16/2022 |               |

| Batch R318170                    |  | SampType: MSD |       | Units mg/L |        |       |             | RPD Limit: 10 |             |      |            | Date Analyzed |
|----------------------------------|--|---------------|-------|------------|--------|-------|-------------|---------------|-------------|------|------------|---------------|
| SampID: 22081261-010AMSD         |  |               |       |            |        |       |             |               |             |      |            |               |
| Analyses                         |  | Cert          | RL    | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD |            |               |
| Nitrogen, Nitrate-Nitrite (as N) |  |               | 0.500 | H          | 6.38   | 2.500 | 3.945       | 97.3          | 6.444       | 1.05 | 09/16/2022 |               |

| Batch R318170                    |      | SampType: MS |      | Units mg/L |       |             |      |           |            |               |  |
|----------------------------------|------|--------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: 22081261-043AMS          |      |              |      |            |       |             |      |           |            |               |  |
| Analyses                         | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Nitrogen, Nitrate-Nitrite (as N) |      | 0.500        |      | 5.84       | 2.500 | 3.394       | 97.8 | 85        | 115        | 09/16/2022    |  |

| Batch R318170                    |  | SampType: MSD |    | Units mg/L |        |       |             | RPD Limit: 10 |             |       | Date Analyzed |            |
|----------------------------------|--|---------------|----|------------|--------|-------|-------------|---------------|-------------|-------|---------------|------------|
| SampID: 22081261-043AMSD         |  |               |    |            |        |       |             |               |             |       |               |            |
| Analyses                         |  | Cert          | RL | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD  |               |            |
| Nitrogen, Nitrate-Nitrite (as N) |  |               |    | 0.500      |        | 5.83  | 2.500       | 3.394         | 97.5        | 5.840 | 0.14          | 09/16/2022 |

| Batch R318305                    |  | SampType: MBLK |       | Units mg/L |         |        |             |      |           |            |               |
|----------------------------------|--|----------------|-------|------------|---------|--------|-------------|------|-----------|------------|---------------|
| SampID: ICB/MBLK                 |  |                |       |            |         |        |             |      |           |            |               |
| Analyses                         |  | Cert           | RL    | Qual       | Result  | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
| Nitrogen, Nitrate-Nitrite (as N) |  |                | 0.050 |            | < 0.050 | 0.0090 | 0           | 0    | -100      | 100        | 09/20/2022    |

| Batch R318305                    |      | SampType: LCS |      | Units mg/L |        |             |       |           |            |            | Date Analyzed |  |
|----------------------------------|------|---------------|------|------------|--------|-------------|-------|-----------|------------|------------|---------------|--|
| SampID: ICV/LCS                  |      |               |      |            |        |             |       |           |            |            |               |  |
| Analyses                         | Cert | RL            | Qual | Result     | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit |            |               |  |
| Nitrogen, Nitrate-Nitrite (as N) |      | 0.050         |      | 0.521      | 0.5000 | 0           | 104.2 | 90        | 110        | 09/20/2022 |               |  |

| Batch R318368                    |      | SampType: MBLK |       | Units mg/L |         |             |      |           |            |     | Date Analyzed |
|----------------------------------|------|----------------|-------|------------|---------|-------------|------|-----------|------------|-----|---------------|
| SampID: ICB/MBLK                 |      |                |       |            |         |             |      |           |            |     |               |
| Analyses                         | Cert | RL             | Qual  | Result     | Spike   | SPK Ref Val | %REC | Low Limit | High Limit |     |               |
| Nitrogen, Nitrate-Nitrite (as N) |      |                | 0.050 |            | < 0.050 | 0.0090      | 0    | 0         | -100       | 100 | 09/21/2022    |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22081261

Client Project: Hennepin Q3 Groundwater

Report Date: 31-Oct-22

### STANDARD METHODS 4500-NO3 F (TOTAL) 2000, 2011

Batch R318368 SampType: LCS Units mg/L

SampID: ICV/LCS

| Analyses                         | Cert | RL    | Qual | Result | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|----------------------------------|------|-------|------|--------|--------|-------------|-------|-----------|------------|---------------|
| Nitrogen, Nitrate-Nitrite (as N) |      | 0.050 |      | 0.518  | 0.5000 | 0           | 103.6 | 90        | 110        | 09/21/2022    |

Batch R318368 SampType: MS Units mg/L

SampID: 22081261-046AMS

| Analyses                         | Cert | RL    | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|----------------------------------|------|-------|------|--------|-------|-------------|------|-----------|------------|---------------|
| Nitrogen, Nitrate-Nitrite (as N) |      | 0.500 | H    | 4.35   | 2.500 | 2.004       | 93.7 | 85        | 115        | 09/21/2022    |

Batch R318368 SampType: MSD Units mg/L

RPD Limit: 10

SampID: 22081261-046AMSD

| Analyses                         | Cert | RL    | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|----------------------------------|------|-------|------|--------|-------|-------------|------|-------------|------|---------------|
| Nitrogen, Nitrate-Nitrite (as N) |      | 0.500 | H    | 4.49   | 2.500 | 2.004       | 99.4 | 4.346       | 3.24 | 09/21/2022    |

### SW-846 9012A (TOTAL)

Batch 196683 SampType: MBLK Units mg/L

SampID: MBLK 220916 TCN1

| Analyses | Cert | RL    | Qual | Result  | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|----------|------|-------|------|---------|--------|-------------|------|-----------|------------|---------------|
| Cyanide  |      | 0.005 |      | < 0.005 | 0.0015 | 0           | 0    | -100      | 100        | 09/19/2022    |

Batch 196683 SampType: LCS Units mg/L

SampID: LCS 220916 TCN1

| Analyses | Cert | RL    | Qual | Result | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|----------|------|-------|------|--------|--------|-------------|-------|-----------|------------|---------------|
| Cyanide  |      | 0.005 |      | 0.026  | 0.0250 | 0           | 104.0 | 90        | 110        | 09/19/2022    |

Batch 196683 SampType: MS Units mg/L

SampID: 22081261-009EMS

| Analyses | Cert | RL    | Qual | Result | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|----------|------|-------|------|--------|--------|-------------|-------|-----------|------------|---------------|
| Cyanide  |      | 0.005 |      | 0.027  | 0.0250 | 0           | 106.9 | 75        | 125        | 09/19/2022    |

Batch 196683 SampType: MSD Units mg/L

RPD Limit: 15

SampID: 22081261-009EMSD

| Analyses | Cert | RL    | Qual | Result | Spike  | SPK Ref Val | %REC  | RPD Ref Val | %RPD | Date Analyzed |
|----------|------|-------|------|--------|--------|-------------|-------|-------------|------|---------------|
| Cyanide  |      | 0.005 |      | 0.027  | 0.0250 | 0           | 108.1 | 0.02673     | 1.06 | 09/19/2022    |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22081261

Client Project: Hennepin Q3 Groundwater

Report Date: 31-Oct-22

### SW-846 9012A (TOTAL)

Batch 196703 SampType: MBLK Units mg/L

SampID: MBLK 220916 TCN2

| Analyses | Cert | RL    | Qual | Result  | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|----------|------|-------|------|---------|--------|-------------|------|-----------|------------|---------------|
| Cyanide  |      | 0.005 |      | < 0.005 | 0.0015 | 0           | 0    | -100      | 100        | 09/19/2022    |

Batch 196703 SampType: LCS Units mg/L

SampID: LCS 220916 TCN2

| Analyses | Cert | RL    | Qual | Result | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|----------|------|-------|------|--------|--------|-------------|-------|-----------|------------|---------------|
| Cyanide  |      | 0.005 |      | 0.027  | 0.0250 | 0           | 106.2 | 90        | 110        | 09/19/2022    |

Batch 196703 SampType: MS Units mg/L

SampID: 22081261-013FMS

| Analyses | Cert | RL    | Qual | Result | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|----------|------|-------|------|--------|--------|-------------|-------|-----------|------------|---------------|
| Cyanide  |      | 0.005 |      | 0.027  | 0.0250 | 0           | 107.6 | 75        | 125        | 09/19/2022    |

Batch 196703 SampType: MSD Units mg/L

RPD Limit: 15

SampID: 22081261-013FMSD

| Analyses | Cert | RL    | Qual | Result | Spike  | SPK Ref Val | %REC  | RPD Ref Val | %RPD | Date Analyzed |
|----------|------|-------|------|--------|--------|-------------|-------|-------------|------|---------------|
| Cyanide  |      | 0.005 |      | 0.028  | 0.0250 | 0           | 111.3 | 0.02689     | 3.44 | 09/19/2022    |

Batch 196703 SampType: MS Units mg/L

SampID: 22081261-044DMS

| Analyses | Cert | RL    | Qual | Result | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|----------|------|-------|------|--------|--------|-------------|-------|-----------|------------|---------------|
| Cyanide  |      | 0.005 |      | 0.027  | 0.0250 | 0           | 106.5 | 75        | 125        | 09/19/2022    |

Batch 196703 SampType: MSD Units mg/L

RPD Limit: 15

SampID: 22081261-044DMSD

| Analyses | Cert | RL    | Qual | Result | Spike  | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|----------|------|-------|------|--------|--------|-------------|------|-------------|------|---------------|
| Cyanide  |      | 0.005 |      | 0.024  | 0.0250 | 0           | 97.1 | 0.02662     | 9.22 | 09/19/2022    |

### SW-846 9036 (DISSOLVED)

Batch R318277 SampType: MS Units mg/L

SampID: 22081261-011BMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|----------|------|----|------|--------|-------|-------------|-------|-----------|------------|---------------|
| Sulfate  |      | 50 |      | 177    | 100.0 | 69.61       | 107.2 | 85        | 115        | 09/19/2022    |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22081261

Client Project: Hennepin Q3 Groundwater

Report Date: 31-Oct-22

### SW-846 9036 (DISSOLVED)

| Batch R318277            |  | SampType: MSD |    | Units mg/L |        |       |             | RPD Limit: 10 |             |      | Date Analyzed |
|--------------------------|--|---------------|----|------------|--------|-------|-------------|---------------|-------------|------|---------------|
| SampID: 22081261-011BMSD |  |               |    |            |        |       |             |               |             |      |               |
| Analyses                 |  | Cert          | RL | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD |               |
| Sulfate                  |  |               | 50 |            | 176    | 100.0 | 69.61       | 106.3         | 176.8       | 0.47 | 09/19/2022    |

| Batch R318277           |      | SampType: MS |      | Units mg/L |       |             |       |           |            |               |  |
|-------------------------|------|--------------|------|------------|-------|-------------|-------|-----------|------------|---------------|--|
| SampID: 22081261-043BMS |      |              |      |            |       |             |       |           |            |               |  |
| Analyses                | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |  |
| Sulfate                 |      | 50           |      | 165        | 100.0 | 61.38       | 104.1 | 85        | 115        | 09/19/2022    |  |

| Batch R318277            |  | SampType: MSD |    | Units mg/L |        |       |             | RPD Limit: 10 |             |      | Date Analyzed |
|--------------------------|--|---------------|----|------------|--------|-------|-------------|---------------|-------------|------|---------------|
| SampID: 22081261-043BMSD |  |               |    |            |        |       |             |               |             |      |               |
| Analyses                 |  | Cert          | RL | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD |               |
| Sulfate                  |  |               | 50 |            | 166    | 100.0 | 61.38       | 104.2         | 165.5       | 0.06 | 09/19/2022    |

| Batch R318339           |      | SampType: MS |      | Units mg/L |       |             |      |           |            |               |  |
|-------------------------|------|--------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: 22081261-001CMS |      |              |      |            |       |             |      |           |            |               |  |
| Analyses                | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Sulfate                 |      | 50           |      | 167        | 100.0 | 67.94       | 98.8 | 85        | 115        | 09/21/2022    |  |

| Batch R318339            |  | SampType: MSD |    | Units mg/L |        |       |             | RPD Limit: 10 |             |      |            | Date Analyzed |
|--------------------------|--|---------------|----|------------|--------|-------|-------------|---------------|-------------|------|------------|---------------|
| SampID: 22081261-001CMSD |  |               |    |            |        |       |             |               |             |      |            |               |
| Analyses                 |  | Cert          | RL | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD |            |               |
| Sulfate                  |  |               | 50 |            | 170    | 100.0 | 67.94       | 102.5         | 166.7       | 2.21 | 09/21/2022 |               |

### SW-846 9036 (TOTAL)

| Batch R318277    |      | SampType: MBLK |      | Units mg/L |       |             |      |           |            |               |  |
|------------------|------|----------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: ICB/MBLK |      |                |      |            |       |             |      |           |            |               |  |
| Analyses         | Cert | RL             | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Sulfate          |      | 10             |      | < 10       | 6.140 | 0           | 0    | -100      | 100        | 09/19/2022    |  |

| Batch R318277   |      | SampType: LCS |      | Units mg/L |       |             |       |           |            |               |  |
|-----------------|------|---------------|------|------------|-------|-------------|-------|-----------|------------|---------------|--|
| SampID: ICV/LCS |      |               |      |            |       |             |       |           |            |               |  |
| Analyses        | Cert | RL            | Qual | Result     | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |  |
| Sulfate         |      | 10            |      | 22         | 20.00 | 0           | 107.6 | 90        | 110        | 09/19/2022    |  |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22081261

Client Project: Hennepin Q3 Groundwater

Report Date: 31-Oct-22

### SW-846 9036 (TOTAL)

| Batch R318339    |      | SampType: MBLK |      | Units mg/L |       |             |      |           |            |               |  |
|------------------|------|----------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: ICB/MBLK |      |                |      |            |       |             |      |           |            |               |  |
| Analyses         | Cert | RL             | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Sulfate          |      | 10             |      | < 10       | 6.140 | 0           | 0    | -100      | 100        | 09/21/2022    |  |

| Batch R318339   |      | SampType: LCS |      | Units mg/L |       |             |      |           |            |               |  |
|-----------------|------|---------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: ICV/LCS |      |               |      |            |       |             |      |           |            |               |  |
| Analyses        | Cert | RL            | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Sulfate         |      | 10            |      | 19         | 20.00 | 0           | 96.7 | 90        | 110        | 09/21/2022    |  |

| Batch R318339           |      | SampType: MS |      | Units mg/L |       |             |      |           |            |               |  |
|-------------------------|------|--------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: 22081261-012AMS |      |              |      |            |       |             |      |           |            |               |  |
| Analyses                | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Sulfate                 |      | 50           |      | 164        | 100.0 | 64.25       | 99.5 | 85        | 115        | 09/21/2022    |  |

| Batch R318339            |  | SampType: MSD |    | Units mg/L |        |       |             | RPD Limit: 10 |             |      |               |
|--------------------------|--|---------------|----|------------|--------|-------|-------------|---------------|-------------|------|---------------|
| SampID: 22081261-012AMSD |  |               |    |            |        |       |             |               |             |      |               |
| Analyses                 |  | Cert          | RL | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD | Date Analyzed |
| Sulfate                  |  |               | 50 |            | 152    | 100.0 | 64.25       | 87.4          | 163.8       | 7.67 | 09/21/2022    |

| Batch R318339           |      | SampType: MS |      | Units mg/L |       |             |       |           |            |            |               |
|-------------------------|------|--------------|------|------------|-------|-------------|-------|-----------|------------|------------|---------------|
| SampID: 22081261-029AMS |      |              |      |            |       |             |       |           |            |            | Date Analyzed |
| Analyses                | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC  | Low Limit | High Limit |            |               |
| Sulfate                 |      | 50           | S    | 204        | 100.0 | 88.16       | 116.1 | 85        | 115        | 09/21/2022 |               |

| Batch R318339            |  | SampType: MSD |    | Units mg/L |        |       |             | RPD Limit: 10 |             |      |               |
|--------------------------|--|---------------|----|------------|--------|-------|-------------|---------------|-------------|------|---------------|
| SampID: 22081261-029AMSD |  |               |    |            |        |       |             |               |             |      |               |
| Analyses                 |  | Cert          | RL | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD | Date Analyzed |
| Sulfate                  |  |               | 50 |            | 193    | 100.0 | 88.16       | 104.8         | 204.2       | 5.67 | 09/21/2022    |

| Batch R318485    |      | SampType: MBLK |      | Units mg/L |       |             |      |           |            |               |  |
|------------------|------|----------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: ICB/MBLK |      |                |      |            |       |             |      |           |            |               |  |
| Analyses         | Cert | RL             | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Sulfate          |      | 10             |      | < 10       | 6.140 | 0           | 0    | -100      | 100        | 09/23/2022    |  |

| Batch R318485   |      | SampType: LCS |      | Units mg/L |       |             |       |           |            |               |  |
|-----------------|------|---------------|------|------------|-------|-------------|-------|-----------|------------|---------------|--|
| SampID: ICV/LCS |      |               |      |            |       |             |       |           |            |               |  |
| Analyses        | Cert | RL            | Qual | Result     | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |  |
| Sulfate         |      | 10            |      | 20         | 20.00 | 0           | 100.0 | 90        | 110        | 09/23/2022    |  |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22081261

Client Project: Hennepin Q3 Groundwater

Report Date: 31-Oct-22

### SW-846 9066 (TOTAL)

| Batch R318273    |      | SampType: MBLK |      | Units mg/L |        |             |      |           |            |               |  |
|------------------|------|----------------|------|------------|--------|-------------|------|-----------|------------|---------------|--|
| SampID: ICB/MBLK |      |                |      |            |        |             |      |           |            |               |  |
| Analyses         | Cert | RL             | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Phenols          |      | 0.005          |      | < 0.005    | 0.0028 | 0           | 0    | -100      | 100        | 09/20/2022    |  |

| Batch R318273   |      | SampType: LCS |      | Units mg/L |        |             |       |           |            |            |               |
|-----------------|------|---------------|------|------------|--------|-------------|-------|-----------|------------|------------|---------------|
| SampID: ICV/LCS |      |               |      |            |        |             |       |           |            |            | Date Analyzed |
| Analyses        | Cert | RL            | Qual | Result     | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit |            |               |
| Phenols         |      | 0.005         |      | 0.052      | 0.0500 | 0           | 103.9 | 90        | 110        | 09/20/2022 |               |

| Batch R318273           |      | SampType: MS |      | Units µg/L |       |             |       |           |            |               |  |
|-------------------------|------|--------------|------|------------|-------|-------------|-------|-----------|------------|---------------|--|
| SampID: 22081261-003FMS |      |              |      |            |       |             |       |           |            |               |  |
| Analyses                | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |  |
| Phenols                 |      | 5            |      | 54         | 50.00 | 0           | 107.2 | 85        | 115        | 09/20/2022    |  |

| Batch R318273            |  | SampType: MSD |    | Units µg/L |        |       |             | RPD Limit: 15 |             |      |               |
|--------------------------|--|---------------|----|------------|--------|-------|-------------|---------------|-------------|------|---------------|
| SampID: 22081261-003FMSD |  |               |    |            |        |       |             |               |             |      |               |
| Analyses                 |  | Cert          | RL | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD | Date Analyzed |
| Phenols                  |  |               | 5  |            | 51     | 50.00 | 0           | 102.8         | 53.58       | 4.13 | 09/20/2022    |

### SW-846 9214 (DISSOLVED)

| Batch R318287           |      | SampType: MS |      | Units mg/L |       |             |       |           |            |               |  |
|-------------------------|------|--------------|------|------------|-------|-------------|-------|-----------|------------|---------------|--|
| SampID: 22081261-003BMS |      |              |      |            |       |             |       |           |            |               |  |
| Analyses                | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |  |
| Fluoride                |      | 0.10         |      | 2.29       | 2.000 | 0.1350      | 107.6 | 75        | 125        | 09/20/2022    |  |

| Batch R318287            |  | SampType: MSD |      | Units mg/L |        |       |             | RPD Limit: 15 |             |      |               |
|--------------------------|--|---------------|------|------------|--------|-------|-------------|---------------|-------------|------|---------------|
| SampID: 22081261-003BMSD |  |               |      |            |        |       |             |               |             |      |               |
| Analyses                 |  | Cert          | RL   | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD | Date Analyzed |
| Fluoride                 |  |               | 0.10 |            | 2.36   | 2.000 | 0.1350      | 111.1         | 2.286       | 3.06 | 09/20/2022    |

| Batch R318287           |      | SampType: MS |      | Units mg/L |       |             |       |           |            |               |  |
|-------------------------|------|--------------|------|------------|-------|-------------|-------|-----------|------------|---------------|--|
| SampID: 22081261-011BMS |      |              |      |            |       |             |       |           |            |               |  |
| Analyses                | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |  |
| Fluoride                |      | 0.10         |      | 2.34       | 2.000 | 0.2290      | 105.3 | 75        | 125        | 09/20/2022    |  |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22081261

Client Project: Hennepin Q3 Groundwater

Report Date: 31-Oct-22

### SW-846 9214 (DISSOLVED)

| Batch R318287            |      | SampType: MSD |      | Units mg/L |       |             |       | RPD Limit: 15 |      |            | Date Analyzed |
|--------------------------|------|---------------|------|------------|-------|-------------|-------|---------------|------|------------|---------------|
| SampID: 22081261-011BMSD |      |               |      |            |       |             |       |               |      |            |               |
| Analyses                 | Cert | RL            | Qual | Result     | Spike | SPK Ref Val | %REC  | RPD Ref Val   | %RPD |            |               |
| Fluoride                 |      | 0.10          |      | 2.39       | 2.000 | 0.2290      | 108.0 | 2.335         | 2.33 | 09/20/2022 |               |

| Batch R318287           |      | SampType: MS |      | Units mg/L |       |             |       |           |            |            |               |
|-------------------------|------|--------------|------|------------|-------|-------------|-------|-----------|------------|------------|---------------|
| SampID: 22081261-042BMS |      |              |      |            |       |             |       |           |            |            | Date Analyzed |
| Analyses                | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC  | Low Limit | High Limit |            |               |
| Fluoride                |      | 0.10         |      | 2.37       | 2.000 | 0.2010      | 108.4 | 75        | 125        | 09/20/2022 |               |

| Batch R318287            |  | SampType: MSD |      | Units mg/L |        |       |             | RPD Limit: 15 |             |      |            | Date Analyzed |
|--------------------------|--|---------------|------|------------|--------|-------|-------------|---------------|-------------|------|------------|---------------|
| SampID: 22081261-042BMSD |  |               |      |            |        |       |             |               |             |      |            |               |
| Analyses                 |  | Cert          | RL   | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD |            |               |
| Fluoride                 |  |               | 0.10 |            | 2.40   | 2.000 | 0.2010      | 109.8         | 2.369       | 1.13 | 09/20/2022 |               |

| Batch R318287           |      | SampType: MS |      | Units mg/L |       |             |       |           |            |               |  |
|-------------------------|------|--------------|------|------------|-------|-------------|-------|-----------|------------|---------------|--|
| SampID: 22081261-046BMS |      |              |      |            |       |             |       |           |            |               |  |
| Analyses                | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |  |
| Fluoride                |      | 0.10         |      | 2.27       | 2.000 | 0.1370      | 106.4 | 75        | 125        | 09/20/2022    |  |

| Batch R318287            |  | SampType: MSD |      | Units mg/L |        |       | RPD Limit: 15 |       |             |      | Date Analyzed |
|--------------------------|--|---------------|------|------------|--------|-------|---------------|-------|-------------|------|---------------|
| SampID: 22081261-046BMSD |  |               |      |            |        |       |               |       |             |      |               |
| Analyses                 |  | Cert          | RL   | Qual       | Result | Spike | SPK Ref Val   | %REC  | RPD Ref Val | %RPD |               |
| Fluoride                 |  |               | 0.10 |            | 2.30   | 2.000 | 0.1370        | 108.2 | 2.266       | 1.49 | 09/20/2022    |

### SW-846 9214 (TOTAL)

| Batch R318287 |      | SampType: MBLK |      | Units mg/L |        |             |      |           |            |            | Date Analyzed |
|---------------|------|----------------|------|------------|--------|-------------|------|-----------|------------|------------|---------------|
| SampID: MBLK  |      |                |      |            |        |             |      |           |            |            |               |
| Analyses      | Cert | RL             | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit |            |               |
| Fluoride      |      | 0.10           |      | < 0.10     | 0.0370 | 0           | 0    | -100      | 100        | 09/20/2022 |               |

| Batch R318287 |      | SampType: LCS |      | Units mg/L |       |             |       |           |            |               |  |
|---------------|------|---------------|------|------------|-------|-------------|-------|-----------|------------|---------------|--|
| SampID: LCS   |      |               |      |            |       |             |       |           |            |               |  |
| Analyses      | Cert | RL            | Qual | Result     | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |  |
| Fluoride      |      | 0.10          |      | 1.06       | 1.000 | 0           | 105.6 | 90        | 110        | 09/20/2022    |  |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22081261

Client Project: Hennepin Q3 Groundwater

Report Date: 31-Oct-22

### SW-846 9214 (TOTAL)

| Batch R318437 |      | SampType: MBLK |      | Units mg/L |        |             |      |           |            |               |  |
|---------------|------|----------------|------|------------|--------|-------------|------|-----------|------------|---------------|--|
| SampID: MBLK  |      |                |      |            |        |             |      |           |            |               |  |
| Analyses      | Cert | RL             | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Fluoride      |      | 0.10           |      | < 0.10     | 0.0370 | 0           | 0    | -100      | 100        | 09/22/2022    |  |

| Batch R318437 |      | SampType: LCS |      | Units mg/L |       |             |      |           |            |               |  |
|---------------|------|---------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: LCS   |      |               |      |            |       |             |      |           |            |               |  |
| Analyses      | Cert | RL            | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Fluoride      |      | 0.10          |      | 0.93       | 1.000 | 0           | 93.3 | 90        | 110        | 09/22/2022    |  |

| Batch R318437           |      | SampType: MS |      | Units mg/L |       |             |       |           |            |               |  |
|-------------------------|------|--------------|------|------------|-------|-------------|-------|-----------|------------|---------------|--|
| SampID: 22081261-011AMS |      |              |      |            |       |             |       |           |            |               |  |
| Analyses                | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |  |
| Fluoride                |      | 0.10         |      | 2.39       | 2.000 | 0.2270      | 108.0 | 75        | 125        | 09/22/2022    |  |

| Batch R318437            |  | SampType: MSD |      | Units mg/L |        |       |             | RPD Limit: 15 |             |      |            | Date Analyzed |
|--------------------------|--|---------------|------|------------|--------|-------|-------------|---------------|-------------|------|------------|---------------|
| SampID: 22081261-011AMSD |  |               |      |            |        |       |             |               |             |      |            |               |
| Analyses                 |  | Cert          | RL   | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD |            |               |
| Fluoride                 |  |               | 0.10 |            | 2.36   | 2.000 | 0.2270      | 106.9         | 2.387       | 0.93 | 09/22/2022 |               |

| Batch R318437           |      | SampType: MS |      | Units mg/L |       |             |       |           |            |               |  |
|-------------------------|------|--------------|------|------------|-------|-------------|-------|-----------|------------|---------------|--|
| SampID: 22081261-018AMS |      |              |      |            |       |             |       |           |            |               |  |
| Analyses                | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |  |
| Fluoride                |      | 0.10         |      | 2.27       | 2.000 | 0.1590      | 105.7 | 75        | 125        | 09/22/2022    |  |

| Batch R318437            |  | SampType: MSD |      | Units mg/L |        |       |             | RPD Limit: 15 |             |      |               |
|--------------------------|--|---------------|------|------------|--------|-------|-------------|---------------|-------------|------|---------------|
| SampID: 22081261-018AMSD |  |               |      |            |        |       |             |               |             |      |               |
| Analyses                 |  | Cert          | RL   | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD | Date Analyzed |
| Fluoride                 |  |               | 0.10 |            | 2.22   | 2.000 | 0.1590      | 103.3         | 2.273       | 2.13 | 09/22/2022    |

| Batch R318437           |      | SampType: MS |      | Units mg/L |       |             |       |           |            |               |  |
|-------------------------|------|--------------|------|------------|-------|-------------|-------|-----------|------------|---------------|--|
| SampID: 22081261-033AMS |      |              |      |            |       |             |       |           |            |               |  |
| Analyses                | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |  |
| Fluoride                |      | 0.10         |      | 2.26       | 2.000 | 0.1720      | 104.5 | 75        | 125        | 09/22/2022    |  |

| Batch R318437            |  | SampType: MSD |      | Units mg/L |        |       |             | RPD Limit: 15 |             |      |               |
|--------------------------|--|---------------|------|------------|--------|-------|-------------|---------------|-------------|------|---------------|
| SampID: 22081261-033AMSD |  |               |      |            |        |       |             |               |             |      |               |
| Analyses                 |  | Cert          | RL   | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD | Date Analyzed |
| Fluoride                 |  |               | 0.10 |            | 2.20   | 2.000 | 0.1720      | 101.6         | 2.262       | 2.60 | 09/22/2022    |





## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22081261

Client Project: Hennepin Q3 Groundwater

Report Date: 31-Oct-22

### SW-846 9214 (TOTAL)

| Batch R318437           |      | SampType: MS |      | Units mg/L |       |             |       |           |            |            |               |
|-------------------------|------|--------------|------|------------|-------|-------------|-------|-----------|------------|------------|---------------|
| SampID: 22081261-041AMS |      |              |      |            |       |             |       |           |            |            | Date Analyzed |
| Analyses                | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC  | Low Limit | High Limit |            |               |
| Fluoride                |      | 0.10         |      | 2.05       | 2.000 | 0           | 102.6 | 75        | 125        | 09/22/2022 |               |

| Batch R318437            |  | SampType: MSD |      | Units mg/L |        |       |             | RPD Limit: 15 |             |      |               |
|--------------------------|--|---------------|------|------------|--------|-------|-------------|---------------|-------------|------|---------------|
| SampID: 22081261-041AMSD |  |               |      |            |        |       |             |               |             |      |               |
| Analyses                 |  | Cert          | RL   | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD | Date Analyzed |
| Fluoride                 |  |               | 0.10 |            | 2.04   | 2.000 | 0           | 101.8         | 2.051       | 0.73 | 09/22/2022    |

### SW-846 9251 (DISSOLVED)

| Batch R318286           |      | SampType: MS |      | Units mg/L |       |             |      |           |            |            |               |
|-------------------------|------|--------------|------|------------|-------|-------------|------|-----------|------------|------------|---------------|
| SampID: 22081261-001CMS |      |              |      |            |       |             |      |           |            |            | Date Analyzed |
| Analyses                | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit |            |               |
| Chloride                |      | 20           |      | 149        | 100.0 | 59.30       | 89.3 | 85        | 115        | 09/19/2022 |               |

| Batch R318286            |  | SampType: MSD |    | Units mg/L |        |       |             | RPD Limit: 15 |             |      |               |
|--------------------------|--|---------------|----|------------|--------|-------|-------------|---------------|-------------|------|---------------|
| SampID: 22081261-001CMSD |  |               |    |            |        |       |             |               |             |      |               |
| Analyses                 |  | Cert          | RL | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD | Date Analyzed |
| Chloride                 |  |               | 20 |            | 150    | 100.0 | 59.30       | 91.2          | 148.6       | 1.24 | 09/19/2022    |

| Batch R318286           |      | SampType: MS |      | Units mg/L |       |             |      |           |            |               |  |
|-------------------------|------|--------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: 22081261-016BMS |      |              |      |            |       |             |      |           |            |               |  |
| Analyses                | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Chloride                |      | 20           |      | 191        | 100.0 | 95.98       | 94.9 | 85        | 115        | 09/19/2022    |  |

| Batch R318286            |  | SampType: MSD |    | Units mg/L |        |       |             | RPD Limit: 15 |             |      |               |
|--------------------------|--|---------------|----|------------|--------|-------|-------------|---------------|-------------|------|---------------|
| SampID: 22081261-016BMSD |  |               |    |            |        |       |             |               |             |      |               |
| Analyses                 |  | Cert          | RL | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD | Date Analyzed |
| Chloride                 |  |               | 20 |            | 181    | 100.0 | 95.98       | 85.5          | 190.9       | 5.05 | 09/19/2022    |

| Batch R318286           |      | SampType: MS |      | Units mg/L |       |             |      |           |            |               |  |
|-------------------------|------|--------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: 22081261-043BMS |      |              |      |            |       |             |      |           |            |               |  |
| Analyses                | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Chloride                |      | 20           |      | 182        | 100.0 | 90.73       | 91.0 | 85        | 115        | 09/19/2022    |  |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22081261

Client Project: Hennepin Q3 Groundwater

Report Date: 31-Oct-22

### SW-846 9251 (DISSOLVED)

| Batch R318286            |  | SampType: MSD |    | Units mg/L |        |       |             | RPD Limit: 15 |             |      | Date Analyzed |
|--------------------------|--|---------------|----|------------|--------|-------|-------------|---------------|-------------|------|---------------|
| SampID: 22081261-043BMSD |  |               |    |            |        |       |             |               |             |      |               |
| Analyses                 |  | Cert          | RL | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD |               |
| Chloride                 |  |               | 20 |            | 178    | 100.0 | 90.73       | 87.6          | 181.7       | 1.87 | 09/19/2022    |

| Batch R318345           |      | SampType: MS |      | Units mg/L |       |             |      |           |            |               |  |
|-------------------------|------|--------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: 22081261-011BMS |      |              |      |            |       |             |      |           |            |               |  |
| Analyses                | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Chloride                |      | 40           |      | 277        | 200.0 | 90.36       | 93.1 | 85        | 115        | 09/21/2022    |  |

| Batch R318345            |  | SampType: MSD |    | Units mg/L |        |       |             | RPD Limit: 15 |             |      |            | Date Analyzed |
|--------------------------|--|---------------|----|------------|--------|-------|-------------|---------------|-------------|------|------------|---------------|
| SampID: 22081261-011BMSD |  |               |    |            |        |       |             |               |             |      |            |               |
| Analyses                 |  | Cert          | RL | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD |            |               |
| Chloride                 |  |               | 40 |            | 276    | 200.0 | 90.36       | 93.0          | 276.6       | 0.06 | 09/21/2022 |               |

### SW-846 9251 (TOTAL)

| Batch R318286    |      | SampType: MBLK |      | Units mg/L |        |             |      |           |            |               |  |
|------------------|------|----------------|------|------------|--------|-------------|------|-----------|------------|---------------|--|
| SampID: ICB/MBLK |      |                |      |            |        |             |      |           |            |               |  |
| Analyses         | Cert | RL             | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Chloride         |      | 4              |      | < 4        | 0.5000 | 0           | 0    | -100      | 100        | 09/19/2022    |  |

| Batch R318286   |      | SampType: LCS |      | Units mg/L |       |             |      |           |            |               |  |
|-----------------|------|---------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: ICB/LCS |      |               |      |            |       |             |      |           |            |               |  |
| Analyses        | Cert | RL            | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Chloride        |      | 4             |      | 19         | 20.00 | 0           | 95.8 | 90        | 110        | 09/19/2022    |  |

| Batch R318345    |      | SampType: MBLK |      | Units mg/L |        |             |      |           |            |               |  |
|------------------|------|----------------|------|------------|--------|-------------|------|-----------|------------|---------------|--|
| SampID: ICB/MBLK |      |                |      |            |        |             |      |           |            |               |  |
| Analyses         | Cert | RL             | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Chloride         |      | 4              |      | < 4        | 0.5000 | 0           | 0    | -100      | 100        | 09/21/2022    |  |

| Batch R318345   |      | SampType: LCS |      | Units mg/L |       |             |      |           |            |               |  |
|-----------------|------|---------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: ICB/LCS |      |               |      |            |       |             |      |           |            |               |  |
| Analyses        | Cert | RL            | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Chloride        |      | 4             |      | 19         | 20.00 | 0           | 97.1 | 90        | 110        | 09/21/2022    |  |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22081261

Client Project: Hennepin Q3 Groundwater

Report Date: 31-Oct-22

### SW-846 9251 (TOTAL)

| Batch R318345           |      | SampType: MS |      | Units mg/L |       |             |      |           |            |            |               |
|-------------------------|------|--------------|------|------------|-------|-------------|------|-----------|------------|------------|---------------|
| SampID: 22081261-012AMS |      |              |      |            |       |             |      |           |            |            | Date Analyzed |
| Analyses                | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit |            |               |
| Chloride                |      | 20           |      | 178        | 100.0 | 84.03       | 93.7 | 85        | 115        | 09/21/2022 |               |

| Batch R318345            |      | SampType: MSD |      | Units mg/L |       |             |      |             | RPD Limit: 15 |               |  |
|--------------------------|------|---------------|------|------------|-------|-------------|------|-------------|---------------|---------------|--|
| SampID: 22081261-012AMSD |      |               |      |            |       |             |      |             |               |               |  |
| Analyses                 | Cert | RL            | Qual | Result     | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD          | Date Analyzed |  |
| Chloride                 |      | 20            |      | 173        | 100.0 | 84.03       | 89.4 | 177.7       | 2.43          | 09/21/2022    |  |

| Batch R318345           |      | SampType: MS |      | Units mg/L |       |             |      |           |            |               |  |
|-------------------------|------|--------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: 22081261-029AMS |      |              |      |            |       |             |      |           |            |               |  |
| Analyses                | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Chloride                |      | 20           |      | 175        | 100.0 | 82.28       | 92.7 | 85        | 115        | 09/21/2022    |  |

| Batch R318345            |  | SampType: MSD |    | Units mg/L |        |       |             | RPD Limit: 15 |             |      |               |
|--------------------------|--|---------------|----|------------|--------|-------|-------------|---------------|-------------|------|---------------|
| SampID: 22081261-029AMSD |  |               |    |            |        |       |             |               |             |      |               |
| Analyses                 |  | Cert          | RL | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD | Date Analyzed |
| Chloride                 |  |               | 20 |            | 173    | 100.0 | 82.28       | 91.1          | 175.0       | 0.94 | 09/21/2022    |

| Batch R318566    |      | SampType: MBLK |      | Units mg/L |        |             |      |           |            |               |  |
|------------------|------|----------------|------|------------|--------|-------------|------|-----------|------------|---------------|--|
| SampID: ICB/MBLK |      |                |      |            |        |             |      |           |            |               |  |
| Analyses         | Cert | RL             | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Chloride         |      | 4              |      | < 4        | 0.5000 | 0           | 0    | -100      | 100        | 09/23/2022    |  |

| Batch R318566   |      | SampType: LCS |      | Units mg/L |       |             |      |           |            |               |  |
|-----------------|------|---------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: ICV/LCS |      |               |      |            |       |             |      |           |            |               |  |
| Analyses        | Cert | RL            | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Chloride        |      | 4             |      | 19         | 20.00 | 0           | 96.8 | 90        | 110        | 09/23/2022    |  |

### SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

| Batch 197755        |      | SampType: MBLK |      | Units mg/L |        |             |      |           |            |               |  |
|---------------------|------|----------------|------|------------|--------|-------------|------|-----------|------------|---------------|--|
| SampID: MBLK-197755 |      |                |      |            |        |             |      |           |            |               |  |
| Analyses            | Cert | RL             | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Calcium             |      | 0.100          |      | < 0.100    | 0.0350 | 0           | 0    | -100      | 100        | 09/20/2022    |  |
| Magnesium           |      | 0.050          |      | < 0.050    | 0.0055 | 0           | 0    | -100      | 100        | 09/20/2022    |  |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22081261

Client Project: Hennepin Q3 Groundwater

Report Date: 31-Oct-22

### SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 197755 SampType: LCS Units mg/L

SampleID: LCS-197755

| Analyses  | Cert | RL    | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|-----------|------|-------|------|--------|-------|-------------|------|-----------|------------|---------------|
| Calcium   |      | 0.100 |      | 2.26   | 2.500 | 0           | 90.3 | 85        | 115        | 09/20/2022    |
| Magnesium |      | 0.050 |      | 2.31   | 2.500 | 0           | 92.4 | 85        | 115        | 09/20/2022    |

Batch 197755 SampType: MS Units mg/L

SampleID: 22081261-003DMS

| Analyses  | Cert | RL    | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|-----------|------|-------|------|--------|-------|-------------|------|-----------|------------|---------------|
| Calcium   |      | 0.100 | S    | 77.0   | 2.500 | 75.19       | 71.6 | 75        | 125        | 09/20/2022    |
| Magnesium |      | 0.050 |      | 29.7   | 2.500 | 27.57       | 83.4 | 75        | 125        | 09/20/2022    |

Batch 197755 SampType: MSD Units mg/L

SampleID: 22081261-003DMSD

RPD Limit: 20

| Analyses  | Cert | RL    | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|-----------|------|-------|------|--------|-------|-------------|------|-------------|------|---------------|
| Calcium   |      | 0.100 | S    | 76.8   | 2.500 | 75.19       | 63.6 | 76.98       | 0.26 | 09/20/2022    |
| Magnesium |      | 0.050 |      | 29.7   | 2.500 | 27.57       | 86.1 | 29.65       | 0.23 | 09/20/2022    |

Batch 197756 SampType: MBLK Units mg/L

SampleID: MBLK-197756

| Analyses  | Cert | RL     | Qual | Result   | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|-----------|------|--------|------|----------|--------|-------------|------|-----------|------------|---------------|
| Calcium   |      | 0.100  |      | < 0.100  | 0.0350 | 0           | 0    | -100      | 100        | 09/20/2022    |
| Magnesium |      | 0.0500 |      | < 0.0500 | 0.0055 | 0           | 0    | -100      | 100        | 09/20/2022    |

Batch 197756 SampType: LCS Units mg/L

SampleID: LCS-197756

| Analyses  | Cert | RL     | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|-----------|------|--------|------|--------|-------|-------------|------|-----------|------------|---------------|
| Calcium   |      | 0.100  |      | 2.20   | 2.500 | 0           | 88.2 | 85        | 115        | 09/20/2022    |
| Magnesium |      | 0.0500 |      | 2.26   | 2.500 | 0           | 90.4 | 85        | 115        | 09/20/2022    |

### SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 196679 SampType: MBLK Units mg/L

SampleID: MBLK-196679

| Analyses  | Cert | RL    | Qual | Result  | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|-----------|------|-------|------|---------|--------|-------------|------|-----------|------------|---------------|
| Calcium   |      | 0.100 |      | < 0.100 | 0.0350 | 0           | 0    | -100      | 100        | 09/16/2022    |
| Magnesium |      | 0.050 |      | < 0.050 | 0.0055 | 0           | 0    | -100      | 100        | 09/16/2022    |
| Potassium |      | 0.100 |      | < 0.100 | 0.0400 | 0           | 0    | -100      | 100        | 09/19/2022    |
| Sodium    |      | 0.050 |      | < 0.050 | 0.0180 | 0           | 0    | -100      | 100        | 09/16/2022    |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22081261

Client Project: Hennepin Q3 Groundwater

Report Date: 31-Oct-22

### SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 196679 SampType: LCS Units mg/L

SampleID: LCS-196679

| Analyses  | Cert | RL    | Qual | Result | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|-----------|------|-------|------|--------|-------|-------------|-------|-----------|------------|---------------|
| Calcium   |      | 0.100 |      | 2.49   | 2.500 | 0           | 99.6  | 85        | 115        | 09/16/2022    |
| Magnesium |      | 0.050 |      | 2.50   | 2.500 | 0           | 99.9  | 85        | 115        | 09/16/2022    |
| Potassium |      | 0.100 |      | 2.54   | 2.500 | 0           | 101.8 | 85        | 115        | 09/16/2022    |
| Sodium    |      | 0.050 |      | 2.27   | 2.500 | 0           | 90.9  | 85        | 115        | 09/16/2022    |

Batch 196679 SampType: MS Units mg/L

SampleID: 22081261-002DMS

| Analyses  | Cert | RL    | Qual | Result | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|-----------|------|-------|------|--------|-------|-------------|-------|-----------|------------|---------------|
| Calcium   |      | 0.100 | S    | 93.5   | 2.500 | 91.81       | 67.6  | 75        | 125        | 09/16/2022    |
| Magnesium |      | 0.050 |      | 27.8   | 2.500 | 25.11       | 106.4 | 75        | 125        | 09/16/2022    |
| Potassium |      | 0.100 | E    | 12.3   | 2.500 | 9.712       | 103.9 | 75        | 125        | 09/16/2022    |
| Sodium    |      | 0.050 |      | 51.9   | 2.500 | 49.70       | 88.4  | 75        | 125        | 09/16/2022    |

Batch 196679 SampType: MSD Units mg/L

RPD Limit: 20

SampleID: 22081261-002DMSD

| Analyses  | Cert | RL    | Qual | Result | Spike | SPK Ref Val | %REC  | RPD Ref Val | %RPD | Date Analyzed |
|-----------|------|-------|------|--------|-------|-------------|-------|-------------|------|---------------|
| Calcium   |      | 0.100 |      | 94.3   | 2.500 | 91.81       | 98.8  | 93.50       | 0.83 | 09/16/2022    |
| Magnesium |      | 0.050 |      | 27.9   | 2.500 | 25.11       | 113.2 | 27.77       | 0.61 | 09/16/2022    |
| Potassium |      | 0.100 | E    | 12.4   | 2.500 | 9.712       | 108.7 | 12.31       | 0.97 | 09/16/2022    |
| Sodium    |      | 0.050 |      | 52.6   | 2.500 | 49.70       | 116.8 | 51.91       | 1.36 | 09/16/2022    |

Batch 196679 SampType: MS Units mg/L

SampleID: 22081261-036CMS

| Analyses  | Cert | RL    | Qual | Result | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|-----------|------|-------|------|--------|-------|-------------|-------|-----------|------------|---------------|
| Calcium   |      | 0.100 |      | 126    | 2.500 | 124.4       | 80.0  | 75        | 125        | 09/16/2022    |
| Magnesium |      | 0.050 |      | 39.2   | 2.500 | 36.67       | 100.0 | 75        | 125        | 09/16/2022    |
| Potassium |      | 0.100 |      | 9.03   | 2.500 | 6.490       | 101.5 | 75        | 125        | 09/16/2022    |
| Sodium    |      | 0.050 |      | 57.8   | 2.500 | 55.46       | 92.4  | 75        | 125        | 09/16/2022    |

Batch 196679 SampType: MSD Units mg/L

RPD Limit: 20

SampleID: 22081261-036CMSD

| Analyses  | Cert | RL    | Qual | Result | Spike | SPK Ref Val | %REC  | RPD Ref Val | %RPD | Date Analyzed |
|-----------|------|-------|------|--------|-------|-------------|-------|-------------|------|---------------|
| Calcium   |      | 0.100 | S    | 128    | 2.500 | 124.4       | 148.0 | 126.4       | 1.34 | 09/16/2022    |
| Magnesium |      | 0.050 |      | 39.7   | 2.500 | 36.67       | 122.0 | 39.17       | 1.39 | 09/16/2022    |
| Potassium |      | 0.100 |      | 9.12   | 2.500 | 6.490       | 105.3 | 9.027       | 1.05 | 09/16/2022    |
| Sodium    |      | 0.050 |      | 58.5   | 2.500 | 55.46       | 122.0 | 57.77       | 1.27 | 09/16/2022    |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22081261

Client Project: Hennepin Q3 Groundwater

Report Date: 31-Oct-22

### SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 196682 SampType: MBLK Units mg/L

SampleID: MBLK-196682

| Analyses  | Cert | RL     | Qual | Result   | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|-----------|------|--------|------|----------|--------|-------------|------|-----------|------------|---------------|
| Calcium   |      | 0.100  |      | < 0.100  | 0.0350 | 0           | 0    | -100      | 100        | 09/19/2022    |
| Magnesium |      | 0.0500 |      | < 0.0500 | 0.0055 | 0           | 0    | -100      | 100        | 09/19/2022    |
| Potassium |      | 0.100  |      | < 0.100  | 0.0400 | 0           | 0    | -100      | 100        | 09/19/2022    |
| Sodium    |      | 0.0500 |      | < 0.0500 | 0.0180 | 0           | 0    | -100      | 100        | 09/19/2022    |

Batch 196682 SampType: LCS Units mg/L

SampleID: LCS-196682

| Analyses  | Cert | RL     | Qual | Result | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|-----------|------|--------|------|--------|-------|-------------|-------|-----------|------------|---------------|
| Calcium   |      | 0.100  |      | 2.59   | 2.500 | 0           | 103.7 | 85        | 115        | 09/19/2022    |
| Magnesium |      | 0.0500 |      | 2.60   | 2.500 | 0           | 104.0 | 85        | 115        | 09/19/2022    |
| Potassium |      | 0.100  |      | 2.52   | 2.500 | 0           | 101.0 | 85        | 115        | 09/19/2022    |
| Sodium    |      | 0.0500 |      | 2.36   | 2.500 | 0           | 94.2  | 85        | 115        | 09/19/2022    |

Batch 196682 SampType: MS Units mg/L

SampleID: 22081261-030DMS

| Analyses  | Cert | RL    | Qual | Result | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|-----------|------|-------|------|--------|-------|-------------|-------|-----------|------------|---------------|
| Calcium   |      | 0.100 |      | 89.1   | 2.500 | 86.14       | 117.6 | 75        | 125        | 09/19/2022    |
| Magnesium |      | 0.050 |      | 29.6   | 2.500 | 26.91       | 106.4 | 75        | 125        | 09/19/2022    |
| Potassium |      | 0.100 |      | 8.13   | 2.500 | 5.493       | 105.6 | 75        | 125        | 09/19/2022    |
| Sodium    |      | 0.050 |      | 56.2   | 2.500 | 53.31       | 117.2 | 75        | 125        | 09/19/2022    |

Batch 196682 SampType: MSD Units mg/L

RPD Limit: 20

SampleID: 22081261-030DMSD

| Analyses  | Cert | RL    | Qual | Result | Spike | SPK Ref Val | %REC  | RPD Ref Val | %RPD | Date Analyzed |
|-----------|------|-------|------|--------|-------|-------------|-------|-------------|------|---------------|
| Calcium   |      | 0.100 |      | 88.8   | 2.500 | 86.14       | 106.8 | 89.08       | 0.30 | 09/19/2022    |
| Magnesium |      | 0.050 |      | 29.4   | 2.500 | 26.91       | 100.0 | 29.57       | 0.54 | 09/19/2022    |
| Potassium |      | 0.100 |      | 8.11   | 2.500 | 5.493       | 104.8 | 8.134       | 0.27 | 09/19/2022    |
| Sodium    |      | 0.050 |      | 56.2   | 2.500 | 53.31       | 114.8 | 56.24       | 0.11 | 09/19/2022    |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22081261

Client Project: Hennepin Q3 Groundwater

Report Date: 31-Oct-22

### SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

| Batch 197755          |      | SampType: MBLK |      | Units µg/L |        |             |      |           |            |            | Date Analyzed |
|-----------------------|------|----------------|------|------------|--------|-------------|------|-----------|------------|------------|---------------|
| SampleID: MBLK-197755 |      |                |      |            |        |             |      |           |            |            |               |
| Analyses              | Cert | RL             | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit |            |               |
| Aluminum              |      | 25.0           |      | < 25.0     | 12.50  | 0           | 0    | -100      | 100        | 09/23/2022 |               |
| Antimony              |      | 1.0            |      | < 1.0      | 0.4500 | 0           | 0    | -100      | 100        | 09/21/2022 |               |
| Arsenic               |      | 1.0            |      | < 1.0      | 0.3750 | 0           | 0    | -100      | 100        | 09/20/2022 |               |
| Barium                |      | 1.0            |      | < 1.0      | 0.7000 | 0           | 0    | -100      | 100        | 09/20/2022 |               |
| Beryllium             |      | 1.0            |      | < 1.0      | 0.2500 | 0           | 0    | -100      | 100        | 09/20/2022 |               |
| Boron                 |      | 25.0           |      | < 25.0     | 9.250  | 0           | 0    | -100      | 100        | 09/20/2022 |               |
| Cadmium               |      | 1.0            |      | < 1.0      | 0.1500 | 0           | 0    | -100      | 100        | 09/20/2022 |               |
| Chromium              |      | 1.5            |      | < 1.5      | 0.7000 | 0           | 0    | -100      | 100        | 09/23/2022 |               |
| Cobalt                |      | 1.0            |      | < 1.0      | 0.1500 | 0           | 0    | -100      | 100        | 09/20/2022 |               |
| Copper                |      | 1.0            |      | < 1.0      | 0.6500 | 0           | 0    | -100      | 100        | 09/20/2022 |               |
| Iron                  |      | 25.0           |      | < 25.0     | 11.50  | 0           | 0    | -100      | 100        | 10/03/2022 |               |
| Lead                  |      | 1.0            |      | < 1.0      | 0.6000 | 0           | 0    | -100      | 100        | 09/20/2022 |               |
| Manganese             |      | 2.0            |      | < 2.0      | 0.7500 | 0           | 0    | -100      | 100        | 09/23/2022 |               |
| Molybdenum            |      | 1.5            |      | < 1.5      | 0.9000 | 0           | 0    | -100      | 100        | 09/20/2022 |               |
| Nickel                |      | 1.0            |      | < 1.0      | 0.6000 | 0           | 0    | -100      | 100        | 09/20/2022 |               |
| Selenium              |      | 1.0            |      | < 1.0      | 0.6000 | 0           | 0    | -100      | 100        | 09/20/2022 |               |
| Silver                |      | 1.0            |      | < 1.0      | 0.1000 | 0           | 0    | -100      | 100        | 09/20/2022 |               |
| Thallium              |      | 2.0            |      | < 2.0      | 0.9500 | 0           | 0    | -100      | 100        | 09/20/2022 |               |
| Vanadium              |      | 5.0            |      | < 5.0      | 5.000  | 0           | 0    | -100      | 100        | 09/20/2022 |               |
| Zinc                  |      | 15.0           |      | < 15.0     | 5.900  | 0           | 0    | -100      | 100        | 09/20/2022 |               |

**Client:** Ramboll

**Work Order:** 22081261

**Client Project:** Hennepin Q3 Groundwater

**Report Date:** 31-Oct-22

### SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

**Batch** 197755      **SampType:** LCS

Units µg/L

SampleID: LCS-197755

| Analyses   | Cert | RL   | Qual | Result      | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|------------|------|------|------|-------------|-------|-------------|-------|-----------|------------|---------------|
| Aluminum   |      | 25.0 |      | <b>2380</b> | 2000  | 0           | 118.9 | 80        | 120        | 09/30/2022    |
| Antimony   |      | 1.0  |      | <b>484</b>  | 500.0 | 0           | 96.8  | 80        | 120        | 09/21/2022    |
| Arsenic    |      | 1.0  |      | <b>494</b>  | 500.0 | 0           | 98.8  | 80        | 120        | 09/20/2022    |
| Barium     |      | 1.0  |      | <b>1970</b> | 2000  | 0           | 98.7  | 80        | 120        | 09/20/2022    |
| Beryllium  |      | 1.0  |      | <b>42.8</b> | 50.00 | 0           | 85.6  | 80        | 120        | 09/20/2022    |
| Boron      |      | 25.0 |      | <b>444</b>  | 500.0 | 0           | 88.8  | 80        | 120        | 09/20/2022    |
| Cadmium    |      | 1.0  |      | <b>45.7</b> | 50.00 | 0           | 91.4  | 80        | 120        | 09/20/2022    |
| Chromium   |      | 1.5  |      | <b>196</b>  | 200.0 | 0           | 98.0  | 80        | 120        | 09/23/2022    |
| Cobalt     |      | 1.0  |      | <b>485</b>  | 500.0 | 0           | 97.1  | 80        | 120        | 09/20/2022    |
| Copper     |      | 1.0  |      | <b>248</b>  | 250.0 | 0           | 99.2  | 80        | 120        | 09/20/2022    |
| Iron       |      | 25.0 |      | <b>2210</b> | 2000  | 0           | 110.6 | 80        | 120        | 10/03/2022    |
| Lead       |      | 1.0  |      | <b>477</b>  | 500.0 | 0           | 95.5  | 80        | 120        | 09/20/2022    |
| Manganese  |      | 2.0  |      | <b>537</b>  | 500.0 | 0           | 107.4 | 80        | 120        | 09/23/2022    |
| Molybdenum |      | 1.5  |      | <b>468</b>  | 500.0 | 0           | 93.5  | 80        | 120        | 09/20/2022    |
| Nickel     |      | 1.0  |      | <b>486</b>  | 500.0 | 0           | 97.3  | 80        | 120        | 09/20/2022    |
| Selenium   |      | 1.0  |      | <b>445</b>  | 500.0 | 0           | 88.9  | 80        | 120        | 09/20/2022    |
| Silver     |      | 1.0  |      | <b>48.0</b> | 50.00 | 0           | 95.9  | 80        | 120        | 09/20/2022    |
| Thallium   |      | 2.0  |      | <b>235</b>  | 250.0 | 0           | 94.0  | 80        | 120        | 09/20/2022    |
| Vanadium   |      | 5.0  |      | <b>472</b>  | 500.0 | 0           | 94.3  | 80        | 120        | 09/20/2022    |
| Zinc       |      | 15.0 |      | <b>447</b>  | 500.0 | 0           | 89.5  | 80        | 120        | 09/20/2022    |





## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22081261

Client Project: Hennepin Q3 Groundwater

Report Date: 31-Oct-22

### SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 197755 SampType: MS

Units µg/L

SampleID: 22081261-003DMS

| Analyses   | Cert | RL   | Qual | Result | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|------------|------|------|------|--------|-------|-------------|-------|-----------|------------|---------------|
| Aluminum   |      | 25.0 |      | 2040   | 2000  | 0           | 102.0 | 75        | 125        | 09/30/2022    |
| Antimony   |      | 1.0  |      | 488    | 500.0 | 0           | 97.7  | 75        | 125        | 09/21/2022    |
| Arsenic    |      | 1.0  |      | 510    | 500.0 | 1.008       | 101.8 | 75        | 125        | 09/21/2022    |
| Barium     |      | 1.0  |      | 1920   | 2000  | 66.94       | 92.8  | 75        | 125        | 09/20/2022    |
| Beryllium  |      | 1.0  |      | 48.5   | 50.00 | 0           | 97.0  | 75        | 125        | 09/20/2022    |
| Boron      |      | 25.0 |      | 1160   | 500.0 | 600.2       | 112.1 | 75        | 125        | 09/23/2022    |
| Cadmium    |      | 1.0  |      | 47.1   | 50.00 | 0.1794      | 93.9  | 75        | 125        | 09/21/2022    |
| Chromium   |      | 1.5  |      | 187    | 200.0 | 0           | 93.7  | 75        | 125        | 09/23/2022    |
| Cobalt     |      | 1.0  |      | 484    | 500.0 | 0.2203      | 96.7  | 75        | 125        | 09/21/2022    |
| Copper     |      | 1.0  |      | 242    | 250.0 | 0.7387      | 96.5  | 75        | 125        | 09/21/2022    |
| Iron       |      | 25.0 |      | 2020   | 2000  | 0           | 100.8 | 75        | 125        | 10/03/2022    |
| Lead       |      | 1.0  |      | 466    | 500.0 | 0           | 93.1  | 75        | 125        | 09/20/2022    |
| Manganese  |      | 2.0  |      | 607    | 500.0 | 94.42       | 102.6 | 75        | 125        | 09/23/2022    |
| Molybdenum |      | 1.5  |      | 514    | 500.0 | 18.85       | 99.0  | 75        | 125        | 09/21/2022    |
| Nickel     |      | 1.0  |      | 454    | 500.0 | 2.632       | 90.3  | 75        | 125        | 09/20/2022    |
| Selenium   |      | 1.0  |      | 439    | 500.0 | 3.462       | 87.1  | 75        | 125        | 09/20/2022    |
| Silver     |      | 1.0  |      | 45.1   | 50.00 | 0           | 90.1  | 75        | 125        | 09/20/2022    |
| Thallium   |      | 2.0  |      | 233    | 250.0 | 0           | 93.2  | 75        | 125        | 09/20/2022    |
| Zinc       |      | 15.0 |      | 457    | 500.0 | 0           | 91.4  | 75        | 125        | 09/21/2022    |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22081261

Client Project: Hennepin Q3 Groundwater

Report Date: 31-Oct-22

### SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

| Batch 197755               |      | SampType: MSD |      | Units µg/L |       |             | RPD Limit: 20 |             |       |               |
|----------------------------|------|---------------|------|------------|-------|-------------|---------------|-------------|-------|---------------|
| SampleID: 22081261-003DMSD |      |               |      |            |       |             |               |             |       |               |
| Analyses                   | Cert | RL            | Qual | Result     | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD  | Date Analyzed |
| Aluminum                   |      | 25.0          |      | 2270       | 2000  | 0           | 113.4         | 2039        | 10.61 | 09/30/2022    |
| Antimony                   |      | 1.0           |      | 469        | 500.0 | 0           | 93.8          | 488.5       | 4.04  | 09/21/2022    |
| Arsenic                    |      | 1.0           |      | 476        | 500.0 | 1.008       | 95.0          | 509.9       | 6.85  | 09/21/2022    |
| Barium                     |      | 1.0           |      | 2340       | 2000  | 66.94       | 113.5         | 1924        | 19.37 | 09/20/2022    |
| Beryllium                  |      | 1.0           |      | 58.6       | 50.00 | 0           | 117.3         | 48.49       | 18.95 | 09/20/2022    |
| Boron                      |      | 25.0          |      | 1100       | 500.0 | 600.2       | 100.0         | 1161        | 5.38  | 09/23/2022    |
| Cadmium                    |      | 1.0           |      | 44.9       | 50.00 | 0.1794      | 89.5          | 47.11       | 4.69  | 09/21/2022    |
| Chromium                   |      | 1.5           |      | 183        | 200.0 | 0           | 91.3          | 187.4       | 2.56  | 09/23/2022    |
| Cobalt                     |      | 1.0           |      | 447        | 500.0 | 0.2203      | 89.3          | 483.5       | 7.94  | 09/21/2022    |
| Copper                     |      | 1.0           |      | 226        | 250.0 | 0.7387      | 90.1          | 241.9       | 6.83  | 09/21/2022    |
| Iron                       |      | 25.0          |      | 1960       | 2000  | 0           | 97.8          | 2015        | 2.96  | 10/03/2022    |
| Lead                       |      | 1.0           |      | 565        | 500.0 | 0           | 113.0         | 465.7       | 19.30 | 09/20/2022    |
| Manganese                  |      | 2.0           |      | 561        | 500.0 | 94.42       | 93.3          | 607.4       | 7.98  | 09/23/2022    |
| Molybdenum                 |      | 1.5           |      | 477        | 500.0 | 18.85       | 91.6          | 513.7       | 7.43  | 09/21/2022    |
| Nickel                     |      | 1.0           |      | 553        | 500.0 | 2.632       | 110.1         | 454.0       | 19.71 | 09/20/2022    |
| Selenium                   |      | 1.0           |      | 533        | 500.0 | 3.462       | 105.8         | 439.2       | 19.23 | 09/20/2022    |
| Silver                     |      | 1.0           |      | 53.1       | 50.00 | 0           | 106.2         | 45.06       | 16.42 | 09/20/2022    |
| Thallium                   |      | 2.0           |      | 270        | 250.0 | 0           | 107.9         | 233.0       | 14.63 | 09/20/2022    |
| Zinc                       |      | 15.0          |      | 432        | 500.0 | 0           | 86.5          | 457.1       | 5.55  | 09/21/2022    |

| Batch 197755              |      | SampType: MS |      | Units µg/L |       |             |      |           |            |            |               |
|---------------------------|------|--------------|------|------------|-------|-------------|------|-----------|------------|------------|---------------|
| SampleID: 22081261-017DMS |      |              |      |            |       |             |      |           |            |            | Date Analyzed |
| Analyses                  | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit |            |               |
| Boron                     |      | 25.0         |      | 2120       | 500.0 | 1716        | 81.6 | 75        | 125        | 09/23/2022 |               |

| Batch 197755               |  | SampType: MSD |      | Units µg/L |        |       |             | RPD Limit: 20 |             |      |               |
|----------------------------|--|---------------|------|------------|--------|-------|-------------|---------------|-------------|------|---------------|
| SampleID: 22081261-017DMSD |  |               |      |            |        |       |             |               |             |      |               |
| Analyses                   |  | Cert          | RL   | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD | Date Analyzed |
| Boron                      |  |               | 25.0 |            | 2340   | 500.0 | 1716        | 124.9         | 2124        | 9.69 | 09/23/2022    |

Client: Ramboll

Work Order: 22081261

Client Project: Hennepin Q3 Groundwater

Report Date: 31-Oct-22

### SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

| Batch 197756        |      | SampType: MBLK |      | Units µg/L |        |             |       |           |            |            | Date Analyzed |  |
|---------------------|------|----------------|------|------------|--------|-------------|-------|-----------|------------|------------|---------------|--|
| SampID: MBLK-197756 |      |                |      |            |        |             |       |           |            |            |               |  |
| Analyses            | Cert | RL             | Qual | Result     | Spike  | SPK Ref Val | %REC  | Low Limit | High Limit |            |               |  |
| Aluminum            |      | 25.0           |      | < 25.0     | 12.50  | 0           | 0     | -100      | 100        | 09/23/2022 |               |  |
| Aluminum            |      | 25.0           | JS   | 15         | 12.50  | 0           | 123.1 | -100      | 100        | 09/28/2022 |               |  |
| Antimony            |      | 1.0            |      | < 1.0      | 0.4500 | 0           | 0     | -100      | 100        | 09/21/2022 |               |  |
| Antimony            |      | 1.0            |      | < 1.0      | 0.4500 | 0           | 0     | -100      | 100        | 09/23/2022 |               |  |
| Arsenic             |      | 1.0            |      | < 1.0      | 0.3750 | 0           | 0     | -100      | 100        | 09/21/2022 |               |  |
| Barium              |      | 1.0            |      | < 1.0      | 0.7000 | 0           | 0     | -100      | 100        | 09/21/2022 |               |  |
| Beryllium           |      | 1.0            |      | < 1.0      | 0.2500 | 0           | 0     | -100      | 100        | 09/23/2022 |               |  |
| Beryllium           |      | 1.0            |      | < 1.0      | 0.2500 | 0           | 0     | -100      | 100        | 09/21/2022 |               |  |
| Boron               |      | 25.0           |      | < 25.0     | 9.250  | 0           | 0     | -100      | 100        | 09/23/2022 |               |  |
| Cadmium             |      | 1.0            |      | < 1.0      | 0.1340 | 0           | 0     | -100      | 100        | 09/21/2022 |               |  |
| Chromium            |      | 1.5            |      | < 1.5      | 0.7000 | 0           | 0     | -100      | 100        | 09/23/2022 |               |  |
| Cobalt              |      | 1.0            |      | < 1.0      | 0.1150 | 0           | 0     | -100      | 100        | 09/21/2022 |               |  |
| Copper              |      | 1.0            |      | < 1.0      | 0.4500 | 0           | 0     | -100      | 100        | 09/21/2022 |               |  |
| Iron                |      | 25.0           |      | < 25.0     | 11.50  | 0           | 0     | -100      | 100        | 10/03/2022 |               |  |
| Lead                |      | 1.0            |      | < 1.0      | 0.6000 | 0           | 0     | -100      | 100        | 09/21/2022 |               |  |
| Manganese           |      | 2.0            | JS   | 1.2        | 0.7500 | 0           | 164.0 | -100      | 100        | 09/21/2022 |               |  |
| Molybdenum          |      | 1.5            |      | < 1.5      | 0.6000 | 0           | 0     | -100      | 100        | 09/21/2022 |               |  |
| Nickel              |      | 1.0            |      | < 1.0      | 0.4300 | 0           | 0     | -100      | 100        | 09/21/2022 |               |  |
| Selenium            |      | 1.0            |      | < 1.0      | 0.6000 | 0           | 0     | -100      | 100        | 09/21/2022 |               |  |
| Silver              |      | 1.0            |      | < 1.0      | 0.1000 | 0           | 0     | -100      | 100        | 09/21/2022 |               |  |
| Thallium            |      | 2.0            |      | < 2.0      | 0.9500 | 0           | 0     | -100      | 100        | 09/21/2022 |               |  |
| Vanadium            |      | 5.0            |      | < 5.0      | 5.000  | 0           | 0     | -100      | 100        | 09/21/2022 |               |  |
| Zinc                |      | 15.0           |      | < 15.0     | 5.900  | 0           | 0     | -100      | 100        | 09/21/2022 |               |  |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22081261

Client Project: Hennepin Q3 Groundwater

Report Date: 31-Oct-22

### SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

| Batch 197756 SampType: LCS Units µg/L |      |      |      |        |       |             |       |           |            |               |
|---------------------------------------|------|------|------|--------|-------|-------------|-------|-----------|------------|---------------|
| SampID: LCS-197756                    |      |      |      |        |       |             |       |           |            |               |
| Analyses                              | Cert | RL   | Qual | Result | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
| Aluminum                              |      | 25.0 | B    | 2080   | 2000  | 0           | 104.1 | 80        | 120        | 09/28/2022    |
| Antimony                              |      | 1.0  |      | 499    | 500.0 | 0           | 99.7  | 80        | 120        | 09/21/2022    |
| Antimony                              |      | 1.0  |      | 502    | 500.0 | 0           | 100.4 | 80        | 120        | 09/23/2022    |
| Arsenic                               |      | 1.0  |      | 472    | 500.0 | 0           | 94.4  | 80        | 120        | 09/21/2022    |
| Barium                                |      | 1.0  |      | 1860   | 2000  | 0           | 93.0  | 80        | 120        | 09/21/2022    |
| Beryllium                             |      | 1.0  |      | 48.4   | 50.00 | 0           | 96.8  | 80        | 120        | 09/23/2022    |
| Beryllium                             |      | 1.0  |      | 47.4   | 50.00 | 0           | 94.8  | 80        | 120        | 09/23/2022    |
| Boron                                 |      | 25.0 |      | 516    | 500.0 | 0           | 103.2 | 80        | 120        | 09/23/2022    |
| Cadmium                               |      | 1.0  |      | 44.0   | 50.00 | 0           | 88.0  | 80        | 120        | 09/21/2022    |
| Chromium                              |      | 1.5  |      | 189    | 200.0 | 0           | 94.4  | 80        | 120        | 09/23/2022    |
| Cobalt                                |      | 1.0  |      | 458    | 500.0 | 0           | 91.6  | 80        | 120        | 09/21/2022    |
| Copper                                |      | 1.0  |      | 236    | 250.0 | 0           | 94.3  | 80        | 120        | 09/21/2022    |
| Iron                                  |      | 25.0 |      | 1850   | 2000  | 0           | 92.3  | 80        | 120        | 10/04/2022    |
| Lead                                  |      | 1.0  |      | 469    | 500.0 | 0           | 93.8  | 80        | 120        | 09/21/2022    |
| Manganese                             |      | 2.0  |      | 493    | 500.0 | 0           | 98.6  | 80        | 120        | 09/23/2022    |
| Molybdenum                            |      | 1.5  |      | 443    | 500.0 | 0           | 88.5  | 80        | 120        | 09/21/2022    |
| Nickel                                |      | 1.0  |      | 463    | 500.0 | 0           | 92.6  | 80        | 120        | 09/21/2022    |
| Selenium                              |      | 1.0  |      | 438    | 500.0 | 0           | 87.6  | 80        | 120        | 09/21/2022    |
| Silver                                |      | 1.0  |      | 45.2   | 50.00 | 0           | 90.4  | 80        | 120        | 09/21/2022    |
| Thallium                              |      | 2.0  |      | 226    | 250.0 | 0           | 90.3  | 80        | 120        | 09/21/2022    |
| Vanadium                              |      | 5.0  |      | 456    | 500.0 | 0           | 91.2  | 80        | 120        | 09/21/2022    |
| Zinc                                  |      | 15.0 |      | 437    | 500.0 | 0           | 87.4  | 80        | 120        | 09/21/2022    |

| Batch 197756 SampType: MS Units µg/L |      |      |      |        |       |             |      |           |            |               |
|--------------------------------------|------|------|------|--------|-------|-------------|------|-----------|------------|---------------|
| SampID: 22081261-034DMS              |      |      |      |        |       |             |      |           |            |               |
| Analyses                             | Cert | RL   | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
| Boron                                |      | 25.0 | S    | 968    | 500.0 | 665.2       | 60.6 | 75        | 125        | 09/28/2022    |

| Batch 197756 SampType: MSD Units µg/L |      |      |      |        |       |             |      |             |      |               |
|---------------------------------------|------|------|------|--------|-------|-------------|------|-------------|------|---------------|
| SampID: 22081261-034DMSD              |      |      |      |        |       |             |      |             |      |               |
| Analyses                              | Cert | RL   | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
| Boron                                 |      | 25.0 | S    | 1000   | 500.0 | 665.2       | 67.5 | 968.1       | 3.51 | 09/28/2022    |

Client: Ramboll

Work Order: 22081261

Client Project: Hennepin Q3 Groundwater

Report Date: 31-Oct-22

### SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 196679 SampType: MBLK Units µg/L

SampID: MBLK-196679

| Analyses   | Cert | RL   | Qual | Result | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|------------|------|------|------|--------|--------|-------------|------|-----------|------------|---------------|
| Antimony   |      | 1.0  |      | < 1.0  | 0.4500 | 0           | 0    | -100      | 100        | 09/19/2022    |
| Arsenic    |      | 1.0  |      | < 1.0  | 0.3750 | 0           | 0    | -100      | 100        | 09/19/2022    |
| Barium     |      | 1.0  |      | < 1.0  | 0.7000 | 0           | 0    | -100      | 100        | 09/19/2022    |
| Beryllium  |      | 1.0  |      | < 1.0  | 0.2500 | 0           | 0    | -100      | 100        | 09/19/2022    |
| Boron      |      | 25.0 |      | < 25.0 | 12.50  | 0           | 0    | -100      | 100        | 09/20/2022    |
| Cadmium    |      | 1.0  |      | < 1.0  | 0.1340 | 0           | 0    | -100      | 100        | 09/19/2022    |
| Chromium   |      | 1.5  |      | < 1.5  | 0.7000 | 0           | 0    | -100      | 100        | 09/22/2022    |
| Cobalt     |      | 1.0  |      | < 1.0  | 0.1150 | 0           | 0    | -100      | 100        | 09/20/2022    |
| Lead       |      | 1.0  |      | < 1.0  | 0.6000 | 0           | 0    | -100      | 100        | 09/19/2022    |
| Lithium    | *    | 3.0  |      | < 3.0  | 1.450  | 0           | 0    | -100      | 100        | 09/19/2022    |
| Molybdenum |      | 1.5  |      | < 1.5  | 0.6000 | 0           | 0    | -100      | 100        | 09/19/2022    |
| Selenium   |      | 1.0  |      | < 1.0  | 0.6000 | 0           | 0    | -100      | 100        | 09/19/2022    |
| Thallium   |      | 2.0  |      | < 2.0  | 0.9500 | 0           | 0    | -100      | 100        | 09/19/2022    |

Batch 196679 SampType: LCS Units µg/L

SampID: LCS-196679

| Analyses   | Cert | RL   | Qual | Result | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|------------|------|------|------|--------|-------|-------------|-------|-----------|------------|---------------|
| Antimony   |      | 1.0  |      | 552    | 500.0 | 0           | 110.5 | 80        | 120        | 09/19/2022    |
| Arsenic    |      | 1.0  |      | 559    | 500.0 | 0           | 111.9 | 80        | 120        | 09/19/2022    |
| Barium     |      | 1.0  |      | 2210   | 2000  | 0           | 110.6 | 80        | 120        | 09/19/2022    |
| Beryllium  |      | 1.0  |      | 53.0   | 50.00 | 0           | 106.0 | 80        | 120        | 09/19/2022    |
| Boron      |      | 25.0 |      | 454    | 500.0 | 0           | 90.7  | 80        | 120        | 09/20/2022    |
| Cadmium    |      | 1.0  |      | 51.5   | 50.00 | 0           | 103.1 | 80        | 120        | 09/19/2022    |
| Chromium   |      | 1.5  |      | 213    | 200.0 | 0           | 106.5 | 80        | 120        | 09/22/2022    |
| Cobalt     |      | 1.0  |      | 449    | 500.0 | 0           | 89.8  | 80        | 120        | 09/20/2022    |
| Lead       |      | 1.0  |      | 511    | 500.0 | 0           | 102.3 | 80        | 120        | 09/19/2022    |
| Molybdenum |      | 1.5  |      | 523    | 500.0 | 0           | 104.5 | 80        | 120        | 09/19/2022    |
| Selenium   |      | 1.0  |      | 514    | 500.0 | 0           | 102.8 | 80        | 120        | 09/19/2022    |
| Thallium   |      | 2.0  |      | 270    | 250.0 | 0           | 108.2 | 80        | 120        | 09/19/2022    |

**Client:** Ramboll

**Work Order:** 22081261

**Client Project:** Hennepin Q3 Groundwater

**Report Date:** 31-Oct-22

**SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)**
**Batch** 196679    **SampType:** MS    Units µg/L

SampID: 22081261-002DMS

| Analyses   | Cert | RL   | Qual | Result | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|------------|------|------|------|--------|-------|-------------|-------|-----------|------------|---------------|
| Antimony   |      | 1.0  |      | 525    | 500.0 | 0           | 105.1 | 75        | 125        | 09/19/2022    |
| Barium     |      | 1.0  |      | 2120   | 2000  | 59.20       | 103.0 | 75        | 125        | 09/19/2022    |
| Beryllium  |      | 1.0  |      | 49.4   | 50.00 | 0           | 98.7  | 75        | 125        | 09/19/2022    |
| Boron      |      | 25.0 |      | 1210   | 500.0 | 766.1       | 88.3  | 75        | 125        | 09/20/2022    |
| Cadmium    |      | 1.0  |      | 48.5   | 50.00 | 0           | 96.9  | 75        | 125        | 09/19/2022    |
| Chromium   |      | 1.5  |      | 226    | 200.0 | 10.49       | 107.6 | 75        | 125        | 09/22/2022    |
| Cobalt     |      | 1.0  |      | 454    | 500.0 | 0.2100      | 90.8  | 75        | 125        | 09/20/2022    |
| Lead       |      | 1.0  |      | 498    | 500.0 | 0           | 99.5  | 75        | 125        | 09/19/2022    |
| Lithium    | *    | 3.0  |      | 488    | 500.0 | 19.33       | 93.7  | 75        | 125        | 09/20/2022    |
| Molybdenum |      | 1.5  |      | 623    | 500.0 | 107.7       | 103.0 | 75        | 125        | 09/19/2022    |
| Selenium   |      | 1.0  |      | 485    | 500.0 | 3.326       | 96.4  | 75        | 125        | 09/19/2022    |
| Thallium   |      | 2.0  |      | 251    | 250.0 | 0           | 100.2 | 75        | 125        | 09/19/2022    |

**Batch** 196679    **SampType:** MSD    Units µg/L

RPD Limit: 20

SampID: 22081261-002DMSD

| Analyses   | Cert | RL   | Qual | Result | Spike | SPK Ref Val | %REC  | RPD Ref Val | %RPD | Date Analyzed |
|------------|------|------|------|--------|-------|-------------|-------|-------------|------|---------------|
| Antimony   |      | 1.0  |      | 516    | 500.0 | 0           | 103.3 | 525.5       | 1.74 | 09/19/2022    |
| Barium     |      | 1.0  |      | 2070   | 2000  | 59.20       | 100.3 | 2120        | 2.57 | 09/19/2022    |
| Beryllium  |      | 1.0  |      | 48.4   | 50.00 | 0           | 96.8  | 49.37       | 1.97 | 09/19/2022    |
| Boron      |      | 25.0 |      | 1270   | 500.0 | 766.1       | 100.7 | 1208        | 4.99 | 09/20/2022    |
| Cadmium    |      | 1.0  |      | 48.5   | 50.00 | 0           | 97.1  | 48.46       | 0.17 | 09/19/2022    |
| Chromium   |      | 1.5  |      | 240    | 200.0 | 10.49       | 114.5 | 225.7       | 5.96 | 09/22/2022    |
| Cobalt     |      | 1.0  |      | 480    | 500.0 | 0.2100      | 96.0  | 454.0       | 5.63 | 09/20/2022    |
| Lead       |      | 1.0  |      | 469    | 500.0 | 0           | 93.8  | 497.7       | 5.94 | 09/19/2022    |
| Lithium    | *    | 3.0  |      | 512    | 500.0 | 19.33       | 98.6  | 487.8       | 4.93 | 09/20/2022    |
| Molybdenum |      | 1.5  |      | 595    | 500.0 | 107.7       | 97.4  | 623.0       | 4.60 | 09/19/2022    |
| Selenium   |      | 1.0  |      | 472    | 500.0 | 3.326       | 93.7  | 485.1       | 2.74 | 09/19/2022    |
| Thallium   |      | 2.0  |      | 243    | 250.0 | 0           | 97.2  | 250.6       | 3.11 | 09/19/2022    |

**Client:** Ramboll

**Work Order:** 22081261

**Client Project:** Hennepin Q3 Groundwater

**Report Date:** 31-Oct-22

**SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)**
**Batch** 196679    **SampType:** MS    Units µg/L

SampID: 22081261-036CMS

| Analyses   | Cert | RL  | Qual | Result      | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|------------|------|-----|------|-------------|-------|-------------|-------|-----------|------------|---------------|
| Antimony   |      | 1.0 | S    | <b>648</b>  | 500.0 | 0           | 129.5 | 75        | 125        | 09/20/2022    |
| Arsenic    |      | 1.0 |      | <b>497</b>  | 500.0 | 20.58       | 95.3  | 75        | 125        | 09/20/2022    |
| Barium     |      | 1.0 |      | <b>1990</b> | 2000  | 91.71       | 94.7  | 75        | 125        | 09/20/2022    |
| Beryllium  |      | 1.0 |      | <b>60.3</b> | 50.00 | 0           | 120.6 | 75        | 125        | 09/20/2022    |
| Cadmium    |      | 1.0 |      | <b>60.1</b> | 50.00 | 0           | 120.2 | 75        | 125        | 09/20/2022    |
| Chromium   |      | 1.5 |      | <b>199</b>  | 200.0 | 0           | 99.3  | 75        | 125        | 09/22/2022    |
| Cobalt     |      | 1.0 |      | <b>436</b>  | 500.0 | 0.4932      | 87.1  | 75        | 125        | 09/20/2022    |
| Lead       |      | 1.0 |      | <b>590</b>  | 500.0 | 0.6460      | 117.9 | 75        | 125        | 09/20/2022    |
| Lithium    | *    | 3.0 |      | <b>478</b>  | 500.0 | 21.34       | 91.4  | 75        | 125        | 09/20/2022    |
| Molybdenum |      | 1.5 |      | <b>612</b>  | 500.0 | 6.196       | 121.1 | 75        | 125        | 09/20/2022    |
| Selenium   |      | 1.0 |      | <b>566</b>  | 500.0 | 0           | 113.1 | 75        | 125        | 09/20/2022    |
| Thallium   |      | 2.0 |      | <b>293</b>  | 250.0 | 0           | 117.2 | 75        | 125        | 09/20/2022    |

**Batch** 196679    **SampType:** MSD    Units µg/L

RPD Limit: 20

SampID: 22081261-036CMSD

| Analyses   | Cert | RL  | Qual | Result      | Spike | SPK Ref Val | %REC  | RPD Ref Val | %RPD  | Date Analyzed |
|------------|------|-----|------|-------------|-------|-------------|-------|-------------|-------|---------------|
| Antimony   |      | 1.0 | S    | <b>635</b>  | 500.0 | 0           | 127.1 | 647.7       | 1.90  | 09/20/2022    |
| Arsenic    |      | 1.0 |      | <b>498</b>  | 500.0 | 20.58       | 95.6  | 497.0       | 0.29  | 09/20/2022    |
| Barium     |      | 1.0 |      | <b>1910</b> | 2000  | 91.71       | 91.1  | 1986        | 3.67  | 09/20/2022    |
| Beryllium  |      | 1.0 |      | <b>59.4</b> | 50.00 | 0           | 118.7 | 60.29       | 1.55  | 09/20/2022    |
| Cadmium    |      | 1.0 |      | <b>58.9</b> | 50.00 | 0           | 117.9 | 60.09       | 1.94  | 09/20/2022    |
| Chromium   |      | 1.5 |      | <b>235</b>  | 200.0 | 0           | 117.3 | 198.7       | 16.62 | 09/22/2022    |
| Cobalt     |      | 1.0 |      | <b>432</b>  | 500.0 | 0.4932      | 86.3  | 436.2       | 0.95  | 09/20/2022    |
| Lead       |      | 1.0 |      | <b>591</b>  | 500.0 | 0.6460      | 118.0 | 590.2       | 0.07  | 09/20/2022    |
| Lithium    | *    | 3.0 |      | <b>459</b>  | 500.0 | 21.34       | 87.6  | 478.3       | 4.02  | 09/20/2022    |
| Molybdenum |      | 1.5 |      | <b>613</b>  | 500.0 | 6.196       | 121.3 | 611.7       | 0.14  | 09/20/2022    |
| Selenium   |      | 1.0 |      | <b>555</b>  | 500.0 | 0           | 111.0 | 565.7       | 1.88  | 09/20/2022    |
| Thallium   |      | 2.0 |      | <b>297</b>  | 250.0 | 0           | 118.9 | 293.1       | 1.38  | 09/20/2022    |

**Client:** Ramboll

**Work Order:** 22081261

**Client Project:** Hennepin Q3 Groundwater

**Report Date:** 31-Oct-22

**SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)**
**Batch** 196682    **SampType:** MBLK    Units µg/L

SampleID: MBLK-196682

| Analyses   | Cert | RL   | Qual | Result | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|------------|------|------|------|--------|--------|-------------|------|-----------|------------|---------------|
| Antimony   |      | 1.0  |      | < 1.0  | 0.4500 | 0           | 0    | -100      | 100        | 09/19/2022    |
| Arsenic    |      | 1.0  |      | < 1.0  | 0.3750 | 0           | 0    | -100      | 100        | 09/19/2022    |
| Barium     |      | 1.0  |      | < 1.0  | 0.7000 | 0           | 0    | -100      | 100        | 09/19/2022    |
| Beryllium  |      | 1.0  |      | < 1.0  | 0.2500 | 0           | 0    | -100      | 100        | 09/19/2022    |
| Boron      |      | 25.0 |      | < 25.0 | 10.00  | 0           | 0    | -100      | 100        | 09/20/2022    |
| Cadmium    |      | 1.0  |      | < 1.0  | 0.1340 | 0           | 0    | -100      | 100        | 09/19/2022    |
| Chromium   |      | 1.5  |      | < 1.5  | 0.7000 | 0           | 0    | -100      | 100        | 09/22/2022    |
| Cobalt     |      | 1.0  |      | < 1.0  | 0.1150 | 0           | 0    | -100      | 100        | 09/20/2022    |
| Lead       |      | 1.0  |      | < 1.0  | 0.6000 | 0           | 0    | -100      | 100        | 09/19/2022    |
| Lithium    | *    | 3.0  |      | < 3.0  | 1.450  | 0           | 0    | -100      | 100        | 09/19/2022    |
| Molybdenum |      | 1.5  |      | < 1.5  | 0.6000 | 0           | 0    | -100      | 100        | 09/19/2022    |
| Selenium   |      | 1.0  |      | < 1.0  | 0.6000 | 0           | 0    | -100      | 100        | 09/19/2022    |
| Thallium   |      | 2.0  |      | < 2.0  | 0.9500 | 0           | 0    | -100      | 100        | 09/19/2022    |

**Batch** 196682    **SampType:** LCS    Units µg/L

SampleID: LCS-196682

| Analyses  | Cert | RL   | Qual | Result | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|-----------|------|------|------|--------|-------|-------------|-------|-----------|------------|---------------|
| Antimony  |      | 1.0  |      | 531    | 500.0 | 0           | 106.2 | 80        | 120        | 09/19/2022    |
| Arsenic   |      | 1.0  |      | 511    | 500.0 | 0           | 102.2 | 80        | 120        | 09/19/2022    |
| Barium    |      | 1.0  |      | 2080   | 2000  | 0           | 103.9 | 80        | 120        | 09/19/2022    |
| Beryllium |      | 1.0  |      | 48.9   | 50.00 | 0           | 97.7  | 80        | 120        | 09/19/2022    |
| Boron     |      | 25.0 |      | 538    | 500.0 | 0           | 107.7 | 80        | 120        | 09/20/2022    |
| Cadmium   |      | 1.0  |      | 48.8   | 50.00 | 0           | 97.6  | 80        | 120        | 09/19/2022    |
| Chromium  |      | 1.5  |      | 222    | 200.0 | 0           | 111.1 | 80        | 120        | 09/22/2022    |
| Cobalt    |      | 1.0  |      | 526    | 500.0 | 0           | 105.2 | 80        | 120        | 09/20/2022    |
| Lead      |      | 1.0  |      | 479    | 500.0 | 0           | 95.8  | 80        | 120        | 09/19/2022    |
| Lithium   | *    | 3.0  |      | 551    | 500.0 | 0           | 110.3 | 80        | 120        | 09/20/2022    |
| Lithium   | *    | 3.0  |      | 523    | 500.0 | 0           | 104.6 | 80        | 120        | 09/19/2022    |
| Selenium  |      | 1.0  |      | 469    | 500.0 | 0           | 93.8  | 80        | 120        | 09/19/2022    |
| Thallium  |      | 2.0  |      | 247    | 250.0 | 0           | 98.8  | 80        | 120        | 09/19/2022    |





## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22081261

Client Project: Hennepin Q3 Groundwater

Report Date: 31-Oct-22

### SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 196682 SampType: MS Units µg/L

SampleID: 22081261-030DMS

| Analyses   | Cert | RL   | Qual | Result | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|------------|------|------|------|--------|-------|-------------|-------|-----------|------------|---------------|
| Antimony   |      | 1.0  |      | 485    | 500.0 | 0           | 97.0  | 75        | 125        | 09/20/2022    |
| Arsenic    |      | 1.0  |      | 489    | 500.0 | 0.4780      | 97.7  | 75        | 125        | 09/20/2022    |
| Barium     |      | 1.0  |      | 1980   | 2000  | 62.91       | 95.6  | 75        | 125        | 09/20/2022    |
| Beryllium  |      | 1.0  |      | 47.5   | 50.00 | 0           | 94.9  | 75        | 125        | 09/20/2022    |
| Boron      |      | 25.0 |      | 756    | 500.0 | 256.3       | 100.0 | 75        | 125        | 09/20/2022    |
| Cadmium    |      | 1.0  |      | 45.4   | 50.00 | 0.6360      | 89.6  | 75        | 125        | 09/20/2022    |
| Chromium   |      | 1.5  |      | 203    | 200.0 | 1.710       | 100.8 | 75        | 125        | 09/23/2022    |
| Cobalt     |      | 1.0  |      | 481    | 500.0 | 1.013       | 96.0  | 75        | 125        | 09/20/2022    |
| Lead       |      | 1.0  |      | 460    | 500.0 | 1.053       | 91.9  | 75        | 125        | 09/20/2022    |
| Lithium    | *    | 3.0  |      | 531    | 500.0 | 10.20       | 104.2 | 75        | 125        | 09/20/2022    |
| Molybdenum |      | 1.5  |      | 499    | 500.0 | 45.30       | 90.7  | 75        | 125        | 09/20/2022    |
| Selenium   |      | 1.0  |      | 443    | 500.0 | 0           | 88.6  | 75        | 125        | 09/20/2022    |
| Thallium   |      | 2.0  |      | 240    | 250.0 | 0           | 95.8  | 75        | 125        | 09/20/2022    |

Batch 196682 SampType: MSD Units µg/L

RPD Limit: 20

SampleID: 22081261-030DMSD

| Analyses   | Cert | RL   | Qual | Result | Spike | SPK Ref Val | %REC  | RPD Ref Val | %RPD  | Date Analyzed |
|------------|------|------|------|--------|-------|-------------|-------|-------------|-------|---------------|
| Antimony   |      | 1.0  |      | 498    | 500.0 | 0           | 99.5  | 484.8       | 2.59  | 09/20/2022    |
| Arsenic    |      | 1.0  |      | 491    | 500.0 | 0.4780      | 98.0  | 489.1       | 0.28  | 09/20/2022    |
| Barium     |      | 1.0  |      | 2000   | 2000  | 62.91       | 96.7  | 1976        | 1.10  | 09/20/2022    |
| Beryllium  |      | 1.0  |      | 47.4   | 50.00 | 0           | 94.8  | 47.47       | 0.10  | 09/20/2022    |
| Boron      |      | 25.0 |      | 741    | 500.0 | 256.3       | 97.0  | 756.4       | 2.03  | 09/20/2022    |
| Cadmium    |      | 1.0  |      | 47.3   | 50.00 | 0.6360      | 93.3  | 45.43       | 4.00  | 09/20/2022    |
| Chromium   |      | 1.5  |      | 248    | 200.0 | 1.710       | 123.3 | 203.4       | 19.87 | 09/23/2022    |
| Cobalt     |      | 1.0  |      | 474    | 500.0 | 1.013       | 94.5  | 481.0       | 1.56  | 09/20/2022    |
| Lead       |      | 1.0  |      | 467    | 500.0 | 1.053       | 93.1  | 460.5       | 1.30  | 09/20/2022    |
| Lithium    | *    | 3.0  |      | 519    | 500.0 | 10.20       | 101.7 | 531.2       | 2.32  | 09/20/2022    |
| Molybdenum |      | 1.5  |      | 528    | 500.0 | 45.30       | 96.5  | 498.9       | 5.61  | 09/20/2022    |
| Selenium   |      | 1.0  |      | 443    | 500.0 | 0           | 88.6  | 443.1       | 0.06  | 09/20/2022    |
| Thallium   |      | 2.0  |      | 241    | 250.0 | 0           | 96.6  | 239.6       | 0.76  | 09/20/2022    |

Batch 197894 SampType: MBLK Units µg/L

SampleID: MBLK-197894

| Analyses | Cert | RL   | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|----------|------|------|------|--------|-------|-------------|------|-----------|------------|---------------|
| Boron    |      | 25.0 |      | < 25.0 | 9.250 | 0           | 0    | -100      | 100        | 09/22/2022    |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22081261

Client Project: Hennepin Q3 Groundwater

Report Date: 31-Oct-22

### SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 197894 SampType: LCS Units µg/L

SampID: LCS-197894

| Analyses | Cert | RL   | Qual | Result | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|----------|------|------|------|--------|-------|-------------|-------|-----------|------------|---------------|
| Boron    |      | 25.0 |      | 532    | 500.0 | 0           | 106.4 | 80        | 120        | 09/26/2022    |

Batch 197894 SampType: LCSD Units µg/L

SampID: LCSD-197894

RPD Limit: 20

| Analyses | Cert | RL   | Qual | Result | Spike | SPK Ref Val | %REC  | RPD Ref Val | %RPD | Date Analyzed |
|----------|------|------|------|--------|-------|-------------|-------|-------------|------|---------------|
| Boron    |      | 25.0 |      | 533    | 500.0 | 0           | 106.7 | 531.8       | 0.32 | 09/26/2022    |

Batch 198935 SampType: MBLK Units µg/L

SampID: MBLK-198935

| Analyses   | Cert | RL  | Qual | Result | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|------------|------|-----|------|--------|--------|-------------|------|-----------|------------|---------------|
| Antimony   |      | 1.0 |      | < 1.0  | 0.4500 | 0           | 0    | -100      | 100        | 10/20/2022    |
| Arsenic    |      | 1.0 |      | < 1.0  | 0.3750 | 0           | 0    | -100      | 100        | 10/20/2022    |
| Barium     |      | 1.0 |      | < 1.0  | 0.7000 | 0           | 0    | -100      | 100        | 10/20/2022    |
| Beryllium  |      | 1.0 |      | < 1.0  | 0.2500 | 0           | 0    | -100      | 100        | 10/21/2022    |
| Cadmium    |      | 1.0 |      | < 1.0  | 0.1340 | 0           | 0    | -100      | 100        | 10/20/2022    |
| Chromium   |      | 1.5 |      | < 1.5  | 0.7000 | 0           | 0    | -100      | 100        | 10/20/2022    |
| Cobalt     |      | 1.0 |      | < 1.0  | 0.1150 | 0           | 0    | -100      | 100        | 10/20/2022    |
| Lead       |      | 1.0 |      | < 1.0  | 0.6000 | 0           | 0    | -100      | 100        | 10/20/2022    |
| Molybdenum |      | 1.5 |      | < 1.5  | 0.6000 | 0           | 0    | -100      | 100        | 10/21/2022    |
| Selenium   |      | 1.0 |      | < 1.0  | 0.6000 | 0           | 0    | -100      | 100        | 10/20/2022    |
| Thallium   |      | 2.0 |      | < 2.0  | 0.9500 | 0           | 0    | -100      | 100        | 10/20/2022    |

Batch 198935 SampType: LCS Units µg/L

SampID: LCS-198935

| Analyses   | Cert | RL  | Qual | Result | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|------------|------|-----|------|--------|-------|-------------|-------|-----------|------------|---------------|
| Antimony   |      | 1.0 |      | 508    | 500.0 | 0           | 101.6 | 80        | 120        | 10/20/2022    |
| Arsenic    |      | 1.0 |      | 484    | 500.0 | 0           | 96.8  | 80        | 120        | 10/20/2022    |
| Barium     |      | 1.0 |      | 2020   | 2000  | 0           | 101.0 | 80        | 120        | 10/20/2022    |
| Cadmium    |      | 1.0 |      | 48.8   | 50.00 | 0           | 97.5  | 80        | 120        | 10/20/2022    |
| Chromium   |      | 1.5 |      | 189    | 200.0 | 0           | 94.6  | 80        | 120        | 10/20/2022    |
| Cobalt     |      | 1.0 |      | 475    | 500.0 | 0           | 94.9  | 80        | 120        | 10/20/2022    |
| Lead       |      | 1.0 |      | 464    | 500.0 | 0           | 92.8  | 80        | 120        | 10/20/2022    |
| Molybdenum |      | 1.5 |      | 521    | 500.0 | 0           | 104.2 | 80        | 120        | 10/21/2022    |
| Selenium   |      | 1.0 |      | 453    | 500.0 | 0           | 90.6  | 80        | 120        | 10/20/2022    |
| Thallium   |      | 2.0 |      | 241    | 250.0 | 0           | 96.5  | 80        | 120        | 10/20/2022    |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22081261

Client Project: Hennepin Q3 Groundwater

Report Date: 31-Oct-22

### SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

| Batch 198935        |      | SampType: LCSD |      | Units µg/L |       |             |       | RPD Limit: 20 |      |               |
|---------------------|------|----------------|------|------------|-------|-------------|-------|---------------|------|---------------|
| SampID: LCSD-198935 |      |                |      |            |       |             |       |               |      |               |
| Analyses            | Cert | RL             | Qual | Result     | Spike | SPK Ref Val | %REC  | RPD Ref Val   | %RPD | Date Analyzed |
| Antimony            |      | 1.0            |      | 485        | 500.0 | 0           | 97.1  | 508.2         | 4.60 | 10/20/2022    |
| Arsenic             |      | 1.0            |      | 483        | 500.0 | 0           | 96.7  | 484.0         | 0.13 | 10/20/2022    |
| Barium              |      | 1.0            |      | 1950       | 2000  | 0           | 97.7  | 2019          | 3.32 | 10/20/2022    |
| Cadmium             |      | 1.0            |      | 47.3       | 50.00 | 0           | 94.6  | 48.77         | 3.02 | 10/20/2022    |
| Chromium            |      | 1.5            |      | 196        | 200.0 | 0           | 98.0  | 189.2         | 3.56 | 10/20/2022    |
| Cobalt              |      | 1.0            |      | 474        | 500.0 | 0           | 94.7  | 474.6         | 0.17 | 10/20/2022    |
| Lead                |      | 1.0            |      | 471        | 500.0 | 0           | 94.1  | 463.8         | 1.45 | 10/20/2022    |
| Molybdenum          |      | 1.5            |      | 511        | 500.0 | 0           | 102.3 | 521.0         | 1.86 | 10/21/2022    |
| Selenium            |      | 1.0            |      | 458        | 500.0 | 0           | 91.7  | 453.0         | 1.19 | 10/20/2022    |
| Thallium            |      | 2.0            |      | 243        | 250.0 | 0           | 97.0  | 241.2         | 0.56 | 10/20/2022    |

### SW-846 7470A (DISSOLVED)

| Batch 197749            |      | SampType: MS |      | Units µg/L |       |             |       |           |            |            |               |
|-------------------------|------|--------------|------|------------|-------|-------------|-------|-----------|------------|------------|---------------|
| SampID: 22081261-001DMS |      |              |      |            |       |             |       |           |            |            | Date Analyzed |
| Analyses                | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC  | Low Limit | High Limit |            |               |
| Mercury                 |      | 0.20         |      | 5.63       | 5.000 | 0           | 112.5 | 75        | 125        | 09/20/2022 |               |

| Batch 197749             |  | SampType: MSD |      | Units µg/L |        |       |             | RPD Limit: 15 |             |      |               |
|--------------------------|--|---------------|------|------------|--------|-------|-------------|---------------|-------------|------|---------------|
| SampID: 22081261-001DMSD |  |               |      |            |        |       |             |               |             |      |               |
| Analyses                 |  | Cert          | RL   | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD | Date Analyzed |
| Mercury                  |  |               | 0.20 |            | 5.28   | 5.000 | 0           | 105.7         | 5.626       | 6.28 | 09/20/2022    |

| Batch 197749            |      | SampType: MS |      | Units µg/L |       |             |      |           |            |            |               |
|-------------------------|------|--------------|------|------------|-------|-------------|------|-----------|------------|------------|---------------|
| SampID: 22081261-014EMS |      |              |      |            |       |             |      |           |            |            | Date Analyzed |
| Analyses                | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC | Low Limit | High Limit |            |               |
| Mercury                 |      | 0.20         |      | 3.77       | 5.000 | 0           | 75.3 | 75        | 125        | 09/20/2022 |               |

| Batch 197749             |  | SampType: MSD |      | Units µg/L |        |       |             | RPD Limit: 15 |             |      |               |
|--------------------------|--|---------------|------|------------|--------|-------|-------------|---------------|-------------|------|---------------|
| SampID: 22081261-014EMSD |  |               |      |            |        |       |             |               |             |      |               |
| Analyses                 |  | Cert          | RL   | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD | Date Analyzed |
| Mercury                  |  |               | 0.20 |            | 4.01   | 5.000 | 0           | 80.1          | 3.766       | 6.19 | 09/20/2022    |

| Batch 197750            |      | SampType: MS |      | Units µg/L |       |             |       |           |            |            |               |
|-------------------------|------|--------------|------|------------|-------|-------------|-------|-----------|------------|------------|---------------|
| SampID: 22081261-030EMS |      |              |      |            |       |             |       |           |            |            | Date Analyzed |
| Analyses                | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC  | Low Limit | High Limit |            |               |
| Mercury                 |      | 0.20         |      | 5.81       | 5.000 | 0           | 116.1 | 75        | 125        | 09/20/2022 |               |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22081261

Client Project: Hennepin Q3 Groundwater

Report Date: 31-Oct-22

### SW-846 7470A (DISSOLVED)

| Batch 197750             |  | SampType: MSD |      | Units µg/L |        |       |             | RPD Limit: 15 |             |      |               |
|--------------------------|--|---------------|------|------------|--------|-------|-------------|---------------|-------------|------|---------------|
| SampID: 22081261-030EMSD |  |               |      |            |        |       |             |               |             |      |               |
| Analyses                 |  | Cert          | RL   | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD | Date Analyzed |
| Mercury                  |  |               | 0.20 |            | 5.52   | 5.000 | 0           | 110.5         | 5.807       | 4.99 | 09/20/2022    |

| Batch 197750            |      | SampType: MS |      | Units µg/L |       |             |       |           |            |            |      |
|-------------------------|------|--------------|------|------------|-------|-------------|-------|-----------|------------|------------|------|
| SampID: 22081261-043CMS |      |              |      |            |       |             |       |           |            |            | Date |
| Analyses                | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Analyzed   |      |
| Mercury                 |      | 0.20         |      | 5.83       | 5.000 | 0           | 116.5 | 75        | 125        | 09/20/2022 |      |

| Batch 197750             |  | SampType: MSD |      | Units µg/L |        |       |             | RPD Limit: 15 |             |      |               |
|--------------------------|--|---------------|------|------------|--------|-------|-------------|---------------|-------------|------|---------------|
| SampID: 22081261-043CMSD |  |               |      |            |        |       |             |               |             |      |               |
| Analyses                 |  | Cert          | RL   | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD | Date Analyzed |
| Mercury                  |  |               | 0.20 |            | 5.63   | 5.000 | 0           | 112.7         | 5.827       | 3.38 | 09/20/2022    |

| Batch 197768            |      | SampType: MS |      | Units µg/L |       |             |       |           |            |            |               |
|-------------------------|------|--------------|------|------------|-------|-------------|-------|-----------|------------|------------|---------------|
| SampID: 22081261-045CMS |      |              |      |            |       |             |       |           |            |            | Date Analyzed |
| Analyses                | Cert | RL           | Qual | Result     | Spike | SPK Ref Val | %REC  | Low Limit | High Limit |            |               |
| Mercury                 |      | 0.20         |      | 5.47       | 5.000 | 0           | 109.4 | 75        | 125        | 09/20/2022 |               |

| Batch 197768             |  | SampType: MSD |      | Units µg/L |        |       |             | RPD Limit: 15 |             |      |               |
|--------------------------|--|---------------|------|------------|--------|-------|-------------|---------------|-------------|------|---------------|
| SampID: 22081261-045CMSD |  |               |      |            |        |       |             |               |             |      |               |
| Analyses                 |  | Cert          | RL   | Qual       | Result | Spike | SPK Ref Val | %REC          | RPD Ref Val | %RPD | Date Analyzed |
| Mercury                  |  |               | 0.20 |            | 5.51   | 5.000 | 0           | 110.1         | 5.472       | 0.62 | 09/20/2022    |

### SW-846 7470A (TOTAL)

| Batch 197749        |      | SampType: MBLK |      | Units µg/L |        |             |      |           |            |               |  |
|---------------------|------|----------------|------|------------|--------|-------------|------|-----------|------------|---------------|--|
| SampID: MBLK-197749 |      |                |      |            |        |             |      |           |            |               |  |
| Analyses            | Cert | RL             | Qual | Result     | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |  |
| Mercury             |      | 0.20           |      | < 0.20     | 0.0550 | 0           | 0    | -100      | 100        | 09/20/2022    |  |

| Batch 197749       |      | SampType: LCS |      | Units µg/L |       |             |       |           |            |               |  |
|--------------------|------|---------------|------|------------|-------|-------------|-------|-----------|------------|---------------|--|
| SampID: LCS-197749 |      |               |      |            |       |             |       |           |            |               |  |
| Analyses           | Cert | RL            | Qual | Result     | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |  |
| Mercury            |      | 0.20          |      | 5.12       | 5.000 | 0           | 102.3 | 85        | 115        | 09/20/2022    |  |



## Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22081261

Client Project: Hennepin Q3 Groundwater

Report Date: 31-Oct-22

### SW-846 7470A (TOTAL)

Batch 197750 SampType: MBLK Units µg/L

SamplD: MBLK-197750

| Analyses | Cert | RL   | Qual | Result | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|----------|------|------|------|--------|--------|-------------|------|-----------|------------|---------------|
| Mercury  |      | 0.20 |      | < 0.20 | 0.0550 | 0           | 0    | -100      | 100        | 09/20/2022    |

Batch 197750 SampType: LCS Units µg/L

SamplD: LCS-197750

| Analyses | Cert | RL   | Qual | Result | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|----------|------|------|------|--------|-------|-------------|-------|-----------|------------|---------------|
| Mercury  |      | 0.20 |      | 5.44   | 5.000 | 0           | 108.8 | 85        | 115        | 09/20/2022    |

Batch 197768 SampType: MBLK Units µg/L

SamplD: MBLK-197768

| Analyses | Cert | RL   | Qual | Result | Spike  | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|----------|------|------|------|--------|--------|-------------|------|-----------|------------|---------------|
| Mercury  |      | 0.20 |      | < 0.20 | 0.0550 | 0           | 0    | -100      | 100        | 09/20/2022    |

Batch 197768 SampType: LCS Units µg/L

SamplD: LCS-197768

| Analyses | Cert | RL   | Qual | Result | Spike | SPK Ref Val | %REC  | Low Limit | High Limit | Date Analyzed |
|----------|------|------|------|--------|-------|-------------|-------|-----------|------------|---------------|
| Mercury  |      | 0.20 |      | 5.38   | 5.000 | 0           | 107.5 | 85        | 115        | 09/20/2022    |



## Receiving Check List

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22081261

Client Project: Hennepin Q3 Groundwater

Report Date: 31-Oct-22

Carrier: Joseph Riley

Received By: TWM

Completed by:

Reviewed by:

On:

On:

15-Sep-22

15-Sep-22

Timothy W. Mathis

Elizabeth A. Hurley

Pages to follow:

Chain of custody

3

Extra pages included

0

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Temp °C 4.4

Type of thermal preservation?

None ☐

Ice ☒

Blue Ice ☐

Dry Ice ☐

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Reported field parameters measured:

Field ☒

Lab ☐

NA ☐

Container/Temp Blank temperature in compliance?

Yes ☒

No ☐

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water – at least one vial per sample has zero headspace?

Yes ☒

No ☐

No VOA vials ☐

Water - TOX containers have zero headspace?

Yes ☐

No ☐

No TOX containers ☒

Water - pH acceptable upon receipt?

Yes ☐

No ☒

NA ☐

NPDES/CWA TCN interferences checked/treated in the field?

Yes ☐

No ☐

NA ☒

Any No responses must be detailed below or on the COC.

Additional sodium hydroxide (81662) was needed in 02, 05R, 07, 08, 08D, 10, 12, 16, 17, 40S, 45S, 08 Duplicate, 04R, and 06 upon arrival at the laboratory. - PWR/TMathis - 9/15/2022 4:14:49 PM

pH strip #82999/79929. - PWR/TMathis - 9/15/2022 4:17:47 PM

Samples were received with insufficient amount of time to meet hold time requirements for Nitrate analysis. Client was notified via work order summary. - ehurley - 9/15/2022 6:03:14 PM

22081261

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

## Page: 1 of 3

Invoice information:

|                                               |      |                                 |                                  |                          |                           |                       |
|-----------------------------------------------|------|---------------------------------|----------------------------------|--------------------------|---------------------------|-----------------------|
| Company: <b>Vistra Corp</b>                   |      | Report To: <b>Brian Voelker</b> | Attention: <b>Jason Stuckey</b>  |                          |                           |                       |
| Address: <b>13498 E. 900th St</b>             |      | Copy To: <b>Jason Stuckey</b>   | Company Name: <b>Vistra Corp</b> | <b>REGULATORY AGENCY</b> |                           |                       |
|                                               |      |                                 | Address: <b>see Section A</b>    | <b>NPDES</b>             | <b>GROUN</b> <b>WATER</b> | <b>DRINKING WATER</b> |
| Email To: <b>Brian.Voelker@VistraCorp.com</b> |      | Purchase Order No.:             | Quote Reference:                 | <b>UST</b>               | <b>RCRA</b>               | <b>OTHER</b>          |
| Phone: <b>(217) 753-8911</b>                  | Fax: | Project Name:                   | Project Manager:                 | <b>Site Location</b>     |                           |                       |
| Requested Due Date/TAT: <b>standard</b>       |      | Project Number: <b>2285</b>     | Profile #:                       | <b>STATE:</b>            | <b>IL</b>                 |                       |

[illegible]

PH ✓ 29929 / 82949

Add NaOH (81662) to

002, 05R, 07, 08, 08D, 10, 12, 16, 17, 40S, 45S, 08D, 04R, 006

DA ORK 171

2208126

Page: 2 of 3

**Required Client Information:**

**Required Project Information:**

Invoice information:

|                                               |  |                                 |  |                                  |  |                                                                                               |  |  |
|-----------------------------------------------|--|---------------------------------|--|----------------------------------|--|-----------------------------------------------------------------------------------------------|--|--|
| Company: <b>Vistra Corp</b>                   |  | Report To: <b>Brian Voelker</b> |  | Attention: <b>Jason Stuckey</b>  |  |                                                                                               |  |  |
| Address: <b>13498 E. 900th St</b>             |  | Copy To: <b>Jaspn Stuckey</b>   |  | Company Name: <b>Vistra Corp</b> |  | <b>REGULATORY AGENCY</b>                                                                      |  |  |
|                                               |  |                                 |  | Address: <b>see Section A</b>    |  | <b>NPDES</b> <b>GROUND WATER</b> <b>DRINKING WATER</b><br><b>UST</b> <b>RCRA</b> <b>OTHER</b> |  |  |
| Email To: <b>Brian.Voelker@VistraCorp.com</b> |  | Purchase Order No.:             |  | Quote Reference:                 |  |                                                                                               |  |  |
| Phone: <b>(217) 753-8911</b> Fax:             |  | Project Name:                   |  | Project Manager:                 |  | <b>Site Location</b>                                                                          |  |  |
| <b>Requested Due Date/TAT: standard</b>       |  | Project Number: <b>2285</b>     |  | Profile #:                       |  | <b>STATE:</b> <b>IL</b>                                                                       |  |  |

| ITEM #              | Section D<br>Required Client Information                 |                                                                                                                                                             | Valid Matrix Codes<br>MATRIX CODE |      | MATRIX CODE<br>(see valid codes to left) | SAMPLE TYPE<br>(G=GRAB C=COMP) | COLLECTED   |                                | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives    |                           |      |                                               |          |       |             |             | Y/N<br>Analysis Test | Requested Analysis Filtered (Y/N) |                   |             |                     |                 |               |               |                   | Residual Chlorine (Y/N) | Project No./ Lab I.D. |                   |
|---------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------|------------------------------------------|--------------------------------|-------------|--------------------------------|---------------------------|-----------------|------------------|---------------------------|------|-----------------------------------------------|----------|-------|-------------|-------------|----------------------|-----------------------------------|-------------------|-------------|---------------------|-----------------|---------------|---------------|-------------------|-------------------------|-----------------------|-------------------|
|                     | SAMPLE ID<br>(A-Z, 0-9 / .)<br>Sample IDs MUST BE UNIQUE | Valid Matrix Codes<br>DRINKING WATER DW<br>WATER WT<br>WASTE WATER WW<br>PRODUCT P<br>SOIL/SOLID SL<br>OIL OL<br>WIPE WP<br>AIR AR<br>OTHER OT<br>TISSUE TS | DATE                              | TIME |                                          |                                | Unpreserved | H <sub>2</sub> SO <sub>4</sub> |                           |                 | HNO <sub>3</sub> | HCl                       | NaOH | Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> | Methanol | Other | HEN-257-801 | HEN-257-802 |                      | HEN-257-803                       | HEN-257-804       | HEN-811-801 | HEN-CLOSURE-802-805 | HEN-CLOSURE-804 | HEN-WPCP-East | HEN-WPCP-West | Quarterly Group 1 |                         |                       | Quarterly Group 2 |
|                     |                                                          |                                                                                                                                                             |                                   |      |                                          |                                |             |                                |                           |                 |                  |                           |      |                                               |          |       |             |             |                      |                                   |                   |             |                     |                 |               |               |                   |                         |                       |                   |
| 1                   | 22D                                                      |                                                                                                                                                             | 09/13/22                          | 1131 |                                          |                                |             | 4                              | 2                         |                 |                  |                           |      |                                               |          |       |             |             |                      |                                   |                   |             |                     |                 | 22D812101-017 |               |                   |                         |                       |                   |
| 2                   | 23                                                       |                                                                                                                                                             | 08/13/22                          | 1027 |                                          |                                |             | 4                              | 2                         |                 |                  |                           |      |                                               |          |       |             |             |                      |                                   |                   |             |                     | 018             |               |               |                   |                         |                       |                   |
| 3                   | 25                                                       |                                                                                                                                                             | 09/13/22                          | 1451 |                                          |                                |             | 0                              |                           |                 |                  |                           |      |                                               |          |       |             |             |                      |                                   |                   |             |                     | 019             |               |               |                   |                         |                       |                   |
| 4                   | 26                                                       |                                                                                                                                                             | 09/13/22                          | 1402 |                                          |                                |             | 0                              |                           |                 |                  |                           |      |                                               |          |       |             |             |                      |                                   |                   |             |                     | 020             |               |               |                   |                         |                       |                   |
| 5                   | 27                                                       |                                                                                                                                                             | 09/13/22                          | 1253 |                                          |                                |             | 4                              | 2                         |                 |                  |                           |      |                                               |          |       |             |             |                      |                                   |                   |             |                     | 021             |               |               |                   |                         |                       |                   |
| 6                   | 30                                                       |                                                                                                                                                             | 09/13/22                          | 1228 |                                          |                                |             | 0                              |                           |                 |                  |                           |      |                                               |          |       |             |             |                      |                                   |                   |             |                     | 022             |               |               |                   |                         |                       |                   |
| 7                   | 31                                                       |                                                                                                                                                             | 09/13/22                          | 1229 |                                          |                                |             | 0                              |                           |                 |                  |                           |      |                                               |          |       |             |             |                      |                                   |                   |             |                     | 023             |               |               |                   |                         |                       |                   |
| 8                   | 32                                                       |                                                                                                                                                             | 09/13/22                          | 1337 |                                          |                                |             | 4                              | 2                         |                 |                  |                           |      |                                               |          |       |             |             |                      |                                   |                   |             |                     | 024             |               |               |                   |                         |                       |                   |
| 9                   | 33                                                       |                                                                                                                                                             | 09/13/22                          | 1342 |                                          |                                |             | 0                              |                           |                 |                  |                           |      |                                               |          |       |             |             |                      |                                   |                   |             |                     | 025             |               |               |                   |                         |                       |                   |
| 10                  | 34                                                       |                                                                                                                                                             | NOT ACCESSIBLE                    |      |                                          |                                |             | 4                              | 2                         |                 |                  |                           |      |                                               |          |       |             |             |                      |                                   |                   |             |                     | 026             |               |               |                   |                         |                       |                   |
| 11                  | 35                                                       |                                                                                                                                                             | 09/13/22                          | 0852 |                                          |                                |             | 4                              | 2                         |                 |                  |                           |      |                                               |          |       |             |             |                      |                                   |                   |             |                     | 027             |               |               |                   |                         |                       |                   |
| 12                  | 36                                                       |                                                                                                                                                             | 09/13/22                          | 1215 |                                          |                                |             | 0                              | 2                         | 2               |                  |                           |      |                                               |          |       |             |             |                      |                                   |                   |             |                     | 028             |               |               |                   |                         |                       |                   |
| 13                  | 40S                                                      |                                                                                                                                                             | 09/14/22                          | 1451 |                                          |                                |             | 7                              | 2                         | 2               |                  |                           |      |                                               |          |       |             |             |                      |                                   |                   |             |                     | 029             |               |               |                   |                         |                       |                   |
| 14                  | 45S                                                      |                                                                                                                                                             | 09/14/22                          | 1234 |                                          |                                |             | 9                              | 3                         | 2               | 2                | 3                         |      |                                               |          |       |             |             |                      |                                   |                   |             |                     | 030             |               |               |                   |                         |                       |                   |
| 15                  | 46                                                       |                                                                                                                                                             | 09/15/22                          | 1044 |                                          |                                |             | 2                              | 1                         |                 |                  |                           |      |                                               |          |       |             |             |                      |                                   |                   |             |                     | 031             |               |               |                   |                         |                       |                   |
| 16                  | 47                                                       |                                                                                                                                                             | 09/14/22                          | 1642 |                                          |                                |             | 2                              | 1                         |                 |                  |                           |      |                                               |          |       |             |             |                      |                                   |                   |             |                     | 032             |               |               |                   |                         |                       |                   |
| ADDITIONAL COMMENTS |                                                          |                                                                                                                                                             | RELINQUISHED BY / AFFILIATION     |      |                                          | DATE                           |             |                                | TIME                      |                 |                  | ACCEPTED BY / AFFILIATION |      |                                               | DATE     |       |             | TIME        |                      |                                   | SAMPLE CONDITIONS |             |                     |                 |               |               |                   |                         |                       |                   |
| HEN-Q3-2022         |                                                          |                                                                                                                                                             | [Signature]                       |      |                                          | 09/13/2025                     |             |                                | [Signature]               |                 |                  | 9-15-22                   |      |                                               | 1005     |       |             |             |                      |                                   |                   |             |                     |                 |               |               |                   |                         |                       |                   |

|                                   |                                |            |                       |                             |                      |
|-----------------------------------|--------------------------------|------------|-----------------------|-----------------------------|----------------------|
| SAMPLER NAME AND SIGNATURE        |                                | Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples intact (Y/N) |
| PRINT Name of SAMPLER: Joe Riley  |                                |            |                       |                             |                      |
| SIGNATURE of SAMPLER: [Signature] | DATE Signed (MM/DD/YY): 7/9/22 |            |                       |                             |                      |



## CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

22081261

Section A  
Required Client Information:

Company: Vistra Corp

Address: 13498 E. 900th St

Email To: Brian.Voelker@VistraCorp.com

Phone: (217) 753-8911 Fax: \_\_\_\_\_

Requested Due Date/TAT: standard

Section B  
Required Project Information:

Report To: Brian Voelker

Copy To: Jason Stuckey

Purchase Order No.: \_\_\_\_\_

Project Name: \_\_\_\_\_

Project Number: 2285

Section C  
Invoice Information:

Attention: Jason Stuckey

Company Name: Vistra Corp

Address: see Section A

Quote Reference: \_\_\_\_\_

Project Manager: \_\_\_\_\_

Profile #: \_\_\_\_\_

Page: 3 of 3

| Section D<br>Required Client Information |                                                          | Valid Matrix Codes<br>MATRIX CODE |      | COLLECTED |      | PRESERVATIVES             |                 | Requested Analysis Filtered (Y/N) |                                |                  |     |      |                                               |          |       |               |             |             |             | Project No. / Lab I.D. |             |                     |                 |               |               |                   |                   |                         |                        |  |
|------------------------------------------|----------------------------------------------------------|-----------------------------------|------|-----------|------|---------------------------|-----------------|-----------------------------------|--------------------------------|------------------|-----|------|-----------------------------------------------|----------|-------|---------------|-------------|-------------|-------------|------------------------|-------------|---------------------|-----------------|---------------|---------------|-------------------|-------------------|-------------------------|------------------------|--|
| ITEM #                                   | SAMPLE ID<br>(A-Z, 0-9 / -)<br>Sample IDs MUST BE UNIQUE | MATRIX                            | CODE | DATE      | TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Unpreserved                       | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub> | HCl | NaOH | Na <sub>2</sub> S <sub>2</sub> O <sub>8</sub> | Methanol | Other | Analysis Test | HEN-257-801 | HEN-257-802 | HEN-257-803 | HEN-257-804            | HEN-811-801 | HEN-CLOSURE-802-805 | HEN-CLOSURE-804 | HEN-WPCP-East | HEN-WPCP-West | Quarterly Group 1 | Quarterly Group 2 | Residual Chlorine (Y/N) | Project No. / Lab I.D. |  |
| 1                                        | 48                                                       |                                   |      | 08/19/22  | 1530 |                           | 1               |                                   |                                |                  |     |      |                                               |          |       | ✓             |             |             |             |                        |             |                     |                 |               |               |                   |                   |                         | 22081261-033           |  |
| 2                                        | 49                                                       |                                   |      | 08/19/22  | 1040 |                           | 4               |                                   |                                |                  |     |      |                                               |          |       | ✓             |             |             |             |                        |             |                     |                 |               |               |                   |                   |                         | 034                    |  |
| 3                                        | 50                                                       |                                   |      | 08/19/22  | 1203 |                           | 4               |                                   |                                |                  |     |      |                                               |          |       | ✓             |             |             |             |                        |             |                     |                 |               |               |                   |                   |                         | 035                    |  |
| 4                                        | 51                                                       |                                   |      | 08/19/22  | 0956 |                           | 4               |                                   |                                |                  |     |      |                                               |          |       | ✓             |             |             |             |                        |             |                     |                 |               |               |                   |                   |                         | 036                    |  |
| 5                                        | 55                                                       |                                   |      | 08/19/22  | 1511 |                           | 0               |                                   |                                |                  |     |      |                                               |          |       | ✓             |             |             |             |                        |             |                     |                 |               |               |                   |                   |                         | 037                    |  |
| 6                                        | SG02                                                     |                                   |      | 08/19/22  | 1757 |                           | 0               |                                   |                                |                  |     |      |                                               |          |       | ✓             | ✓           | ✓           | ✓           | ✓                      | ✓           | ✓                   | ✓               | ✓             | ✓             | ✓                 | ✓                 |                         | 038                    |  |
| 7                                        | XSG01                                                    |                                   |      | 08/19/22  | 1757 |                           | 0               |                                   |                                |                  |     |      |                                               |          |       | ✓             | ✓           | ✓           | ✓           | ✓                      | ✓           | ✓                   | ✓               | ✓             | ✓             | ✓                 | ✓                 |                         | 039                    |  |
| 8                                        | 08 Duplicate                                             |                                   |      | 08/19/22  | 0939 |                           | 11              | 3                                 | 2                              | 2                | 3   | 1    |                                               |          |       | ✓             | ✓           | ✓           | ✓           | ✓                      | ✓           | ✓                   | ✓               | ✓             | ✓             | ✓                 | ✓                 |                         | 040                    |  |
| 9                                        | Field Blank                                              |                                   |      | 08/19/22  | 1605 |                           | 11              | 3                                 | 2                              | 2                | 3   | 1    |                                               |          |       | ✓             | ✓           | ✓           | ✓           | ✓                      | ✓           | ✓                   | ✓               | ✓             | ✓             | ✓                 | ✓                 |                         | 041                    |  |
| 10                                       | 04R                                                      |                                   |      | 08/19/22  | 1547 |                           | 4               | 2                                 |                                |                  |     |      |                                               |          |       | ✓             |             |             |             |                        |             |                     |                 |               |               |                   |                   |                         | 042                    |  |
| 11                                       | 06                                                       |                                   |      | 08/19/22  | 1253 |                           | 4               | 2                                 |                                |                  |     |      |                                               |          |       | ✓             |             |             |             |                        |             |                     |                 |               |               |                   |                   |                         | 043                    |  |
| 12                                       | 15                                                       |                                   |      | 08/19/22  | 1006 |                           | 4               | 2                                 |                                |                  |     |      |                                               |          |       | ✓             |             |             |             |                        |             |                     |                 |               |               |                   |                   |                         | 044                    |  |
| 13                                       | 19D                                                      |                                   |      | 08/19/22  | 1533 |                           | 4               | 2                                 |                                |                  |     |      |                                               |          |       | ✓             |             |             |             |                        |             |                     |                 |               |               |                   |                   |                         | 045                    |  |
| 14                                       | 19S                                                      |                                   |      | 08/19/22  | 1514 |                           | 4               | 2                                 |                                |                  |     |      |                                               |          |       | ✓             |             |             |             |                        |             |                     |                 |               |               |                   |                   |                         | 046                    |  |
| 15                                       |                                                          |                                   |      |           |      |                           |                 |                                   |                                |                  |     |      |                                               |          |       |               |             |             |             |                        |             |                     |                 |               |               |                   |                   |                         |                        |  |
| 16                                       |                                                          |                                   |      |           |      |                           |                 |                                   |                                |                  |     |      |                                               |          |       |               |             |             |             |                        |             |                     |                 |               |               |                   |                   |                         |                        |  |

| ADDITIONAL COMMENTS                                        | RECEIVED BY / AFFILIATION | DATE     | TIME | ACCEPTED BY / AFFILIATION | DATE     | TIME | SAMPLE CONDITIONS |                       |                             |                      |
|------------------------------------------------------------|---------------------------|----------|------|---------------------------|----------|------|-------------------|-----------------------|-----------------------------|----------------------|
| <b>HEN-Q3-2022</b>                                         | <i>[Signature]</i>        | 08/19/22 | 1005 | <i>[Signature]</i>        | 08/19/22 | 1005 | Temp in °C        | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
| Duplicate and Field Blank per project history. EAH 8/18/22 |                           |          |      |                           |          |      |                   |                       |                             |                      |

| SAMPLER NAME AND SIGNATURE              |                                          | DATE Signed (MM/DD/YY) |
|-----------------------------------------|------------------------------------------|------------------------|
| PRINT Name of SAMPLER: <i>JD Rieger</i> | SIGNATURE of SAMPLER: <i>[Signature]</i> | 08/19/22               |

October 28, 2022

Eric Bauer  
Ramboll  
234 W. Florida St.  
5th Floor  
Milwaukee, WI 61704  
TEL: (414) 837-3607  
FAX:



|           |         |
|-----------|---------|
| Illinois  | 100226  |
| Kansas    | E-10374 |
| Louisiana | 05002   |
| Louisiana | 05003   |
| Oklahoma  | 9978    |

**RE:** Hennepin Q3 Groundwater

**WorkOrder:** 22081260

Dear Eric Bauer:

TEKLAB, INC received 24 samples on 9/15/2022 10:05:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Elizabeth A. Hurley  
Director of Customer Service  
(618)344-1004 ex 33  
[ehurley@teklabinc.com](mailto:ehurley@teklabinc.com)

**Client:** Ramboll

**Work Order:** 22081260

**Client Project:** Hennepin Q3 Groundwater

**Report Date:** 28-Oct-22

**This reporting package includes the following:**

|                      |          |
|----------------------|----------|
| Cover Letter         | 1        |
| Report Contents      | 2        |
| Definitions          | 3        |
| Case Narrative       | 5        |
| Accreditations       | 6        |
| Laboratory Results   | 7        |
| Sample Summary       | 30       |
| Dates Report         | 31       |
| Receiving Check List | 33       |
| Chain of Custody     | Appended |

**Client:** Ramboll

**Work Order:** 22081260

**Client Project:** Hennepin Q3 Groundwater

**Report Date:** 28-Oct-22

### Abbr Definition

\* Analytes on report marked with an asterisk are not NELAP accredited

CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.

CRQL A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.

DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.

DNI Did not ignite

DUP Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.

ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.

IDPH IL Dept. of Public Health

LCS Laboratory control sample is a sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.

LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).

MBLK Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.

MDL "The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."

MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).

MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).

MW Molecular weight

NC Data is not acceptable for compliance purposes

ND Not Detected at the Reporting Limit

NELAP NELAP Accredited

PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.

RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.

RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).

SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.

Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.

TIC Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"

TNTC Too numerous to count (> 200 CFU)

**Client:** Ramboll

**Work Order:** 22081260

**Client Project:** Hennepin Q3 Groundwater

**Report Date:** 28-Oct-22

### Qualifiers

- |                                                       |                                                              |
|-------------------------------------------------------|--------------------------------------------------------------|
| # - Unknown hydrocarbon                               | B - Analyte detected in associated Method Blank              |
| C - RL shown is a Client Requested Quantitation Limit | E - Value above quantitation range                           |
| H - Holding times exceeded                            | I - Associated internal standard was outside method criteria |
| J - Analyte detected below quantitation limits        | M - Manual Integration used to determine area response       |
| ND - Not Detected at the Reporting Limit              | R - RPD outside accepted recovery limits                     |
| S - Spike Recovery outside recovery limits            | T - TIC(Tentatively identified compound)                     |
| X - Value exceeds Maximum Contaminant Level           |                                                              |

**Client:** Ramboll**Work Order:** 22081260**Client Project:** Hennepin Q3 Groundwater**Report Date:** 28-Oct-22**Cooler Receipt Temp:** NA °C

An employee of Teklab, Inc. collected the sample(s).

34 was not accessible for sample collection.

Radium-226 and Radium-228 analysis was performed by Pace Analytical Services, LLC. See attached report for results.

---

**Locations**

---

**Collinsville**

**Address** 5445 Horseshoe Lake Road  
Collinsville, IL 62234-7425

**Phone** (618) 344-1004

**Fax** (618) 344-1005

**Email** jhriley@teklabinc.com

---

**Collinsville Air**

**Address** 5445 Horseshoe Lake Road  
Collinsville, IL 62234-7425

**Phone** (618) 344-1004

**Fax** (618) 344-1005

**Email** EHurley@teklabinc.com

---

**Springfield**

**Address** 3920 Pintail Dr  
Springfield, IL 62711-9415

**Phone** (217) 698-1004

**Fax** (217) 698-1005

**Email** KKlostermann@teklabinc.com

---

**Chicago**

**Address** 1319 Butterfield Rd.  
Downers Grove, IL 60515

**Phone** (630) 324-6855

**Fax**

**Email** arenner@teklabinc.com

---

**Kansas City**

**Address** 8421 Nieman Road  
Lenexa, KS 66214

**Phone** (913) 541-1998

**Fax** (913) 541-1998

**Email** jhriley@teklabinc.com

**Client:** Ramboll**Work Order:** 22081260**Client Project:** Hennepin Q3 Groundwater**Report Date:** 28-Oct-22

| State     | Dept | Cert #  | NELAP | Exp Date  | Lab          |
|-----------|------|---------|-------|-----------|--------------|
| Illinois  | IEPA | 100226  | NELAP | 1/31/2023 | Collinsville |
| Kansas    | KDHE | E-10374 | NELAP | 4/30/2023 | Collinsville |
| Louisiana | LDEQ | 05002   | NELAP | 6/30/2023 | Collinsville |
| Louisiana | LDEQ | 05003   | NELAP | 6/30/2023 | Collinsville |
| Oklahoma  | ODEQ | 9978    | NELAP | 8/31/2023 | Collinsville |
| Arkansas  | ADEQ | 88-0966 |       | 3/14/2023 | Collinsville |
| Illinois  | IDPH | 17584   |       | 5/31/2023 | Collinsville |
| Iowa      | IDNR | 430     |       | 6/1/2024  | Collinsville |
| Kentucky  | UST  | 0073    |       | 1/31/2023 | Collinsville |
| Missouri  | MDNR | 00930   |       | 5/31/2023 | Collinsville |
| Missouri  | MDNR | 930     |       | 1/31/2025 | Collinsville |

**Client:** Ramboll**Work Order:** 22081260**Client Project:** Hennepin Q3 Groundwater**Report Date:** 28-Oct-22**Lab ID:** 22081260-001**Client Sample ID:** 03R**Matrix:** GROUNDWATER**Collection Date:** 09/14/2022 13:09

| Analyses                               | Certification | RL | Qual | Result       | Units | DF | Date Analyzed   | Batch   |
|----------------------------------------|---------------|----|------|--------------|-------|----|-----------------|---------|
| <b>EPA 903.0/904.0, RADIUM 226/228</b> |               |    |      |              |       |    |                 |         |
| Radium-226                             | *             | 0  |      | See Attached | pci/L | 1  | 10/14/2022 0:00 | R320114 |
| Radium-228                             | *             | 0  |      | See Attached | pci/L | 1  | 10/14/2022 0:00 | R320114 |



**Client:** Ramboll**Work Order:** 22081260**Client Project:** Hennepin Q3 Groundwater**Report Date:** 28-Oct-22**Lab ID:** 22081260-002**Client Sample ID:** 07**Matrix:** GROUNDWATER**Collection Date:** 09/14/2022 17:21

| Analyses                               | Certification | RL | Qual | Result       | Units | DF | Date Analyzed   | Batch   |
|----------------------------------------|---------------|----|------|--------------|-------|----|-----------------|---------|
| <b>EPA 903.0/904.0, RADIUM 226/228</b> |               |    |      |              |       |    |                 |         |
| Radium-226                             | *             | 0  |      | See Attached | pCi/L | 1  | 10/14/2022 0:00 | R320114 |
| Radium-228                             | *             | 0  |      | See Attached | pCi/L | 1  | 10/14/2022 0:00 | R320114 |

**Client:** Ramboll**Work Order:** 22081260**Client Project:** Hennepin Q3 Groundwater**Report Date:** 28-Oct-22**Lab ID:** 22081260-003**Client Sample ID:** 08**Matrix:** GROUNDWATER**Collection Date:** 09/14/2022 9:37

| Analyses                               | Certification | RL | Qual | Result       | Units | DF | Date Analyzed   | Batch   |
|----------------------------------------|---------------|----|------|--------------|-------|----|-----------------|---------|
| <b>EPA 903.0/904.0, RADIUM 226/228</b> |               |    |      |              |       |    |                 |         |
| Radium-226                             | *             | 0  |      | See Attached | pci/L | 1  | 10/14/2022 0:00 | R320114 |
| Radium-228                             | *             | 0  |      | See Attached | pci/L | 1  | 10/14/2022 0:00 | R320114 |

**Client:** Ramboll**Work Order:** 22081260**Client Project:** Hennepin Q3 Groundwater**Report Date:** 28-Oct-22**Lab ID:** 22081260-004**Client Sample ID:** 08 Duplicate**Matrix:** GROUNDWATER**Collection Date:** 09/14/2022 9:37

| Analyses                               | Certification | RL | Qual | Result       | Units | DF | Date Analyzed   | Batch   |
|----------------------------------------|---------------|----|------|--------------|-------|----|-----------------|---------|
| <b>EPA 903.0/904.0, RADIUM 226/228</b> |               |    |      |              |       |    |                 |         |
| Radium-226                             | *             | 0  |      | See Attached | pci/L | 1  | 10/14/2022 0:00 | R320114 |
| Radium-228                             | *             | 0  |      | See Attached | pci/L | 1  | 10/14/2022 0:00 | R320114 |

**Client:** Ramboll**Work Order:** 22081260**Client Project:** Hennepin Q3 Groundwater**Report Date:** 28-Oct-22**Lab ID:** 22081260-005**Client Sample ID:** 08D**Matrix:** GROUNDWATER**Collection Date:** 09/14/2022 9:09

| Analyses                               | Certification | RL | Qual | Result       | Units | DF | Date Analyzed   | Batch   |
|----------------------------------------|---------------|----|------|--------------|-------|----|-----------------|---------|
| <b>EPA 903.0/904.0, RADIUM 226/228</b> |               |    |      |              |       |    |                 |         |
| Radium-226                             | *             | 0  |      | See Attached | pci/L | 1  | 10/14/2022 0:00 | R320114 |
| Radium-228                             | *             | 0  |      | See Attached | pci/L | 1  | 10/14/2022 0:00 | R320114 |

**Client:** Ramboll**Work Order:** 22081260**Client Project:** Hennepin Q3 Groundwater**Report Date:** 28-Oct-22**Lab ID:** 22081260-006**Client Sample ID:** 12**Matrix:** GROUNDWATER**Collection Date:** 09/14/2022 11:05

| Analyses                               | Certification | RL | Qual | Result       | Units | DF | Date Analyzed   | Batch   |
|----------------------------------------|---------------|----|------|--------------|-------|----|-----------------|---------|
| <b>EPA 903.0/904.0, RADIUM 226/228</b> |               |    |      |              |       |    |                 |         |
| Radium-226                             | *             | 0  |      | See Attached | pci/L | 1  | 10/14/2022 0:00 | R320114 |
| Radium-228                             | *             | 0  |      | See Attached | pci/L | 1  | 10/14/2022 0:00 | R320114 |



## Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll  
Client Project: Hennepin Q3 Groundwater  
Lab ID: 22081260-007  
Matrix: GROUNDWATER

Work Order: 22081260  
Report Date: 28-Oct-22  
Client Sample ID: 13  
Collection Date: 09/14/2022 11:19

| Analyses                               | Certification | RL | Qual | Result       | Units | DF | Date Analyzed   | Batch   |
|----------------------------------------|---------------|----|------|--------------|-------|----|-----------------|---------|
| <b>EPA 903.0/904.0, RADIUM 226/228</b> |               |    |      |              |       |    |                 |         |
| Radium-226                             | *             | 0  |      | See Attached | pci/L | 1  | 10/14/2022 0:00 | R320114 |
| Radium-228                             | *             | 0  |      | See Attached | pci/L | 1  | 10/14/2022 0:00 | R320114 |

**Client:** Ramboll**Work Order:** 22081260**Client Project:** Hennepin Q3 Groundwater**Report Date:** 28-Oct-22**Lab ID:** 22081260-008**Client Sample ID:** 18S**Matrix:** GROUNDWATER**Collection Date:** 09/14/2022 13:28

| Analyses                               | Certification | RL | Qual | Result       | Units | DF | Date Analyzed   | Batch   |
|----------------------------------------|---------------|----|------|--------------|-------|----|-----------------|---------|
| <b>EPA 903.0/904.0, RADIUM 226/228</b> |               |    |      |              |       |    |                 |         |
| Radium-226                             | *             | 0  |      | See Attached | pci/L | 1  | 10/14/2022 0:00 | R320114 |
| Radium-228                             | *             | 0  |      | See Attached | pci/L | 1  | 10/14/2022 0:00 | R320114 |

**Client:** Ramboll**Work Order:** 22081260**Client Project:** Hennepin Q3 Groundwater**Report Date:** 28-Oct-22**Lab ID:** 22081260-009**Client Sample ID:** 18D**Matrix:** GROUNDWATER**Collection Date:** 09/14/2022 13:44

| Analyses                               | Certification | RL | Qual | Result       | Units | DF | Date Analyzed   | Batch   |
|----------------------------------------|---------------|----|------|--------------|-------|----|-----------------|---------|
| <b>EPA 903.0/904.0, RADIUM 226/228</b> |               |    |      |              |       |    |                 |         |
| Radium-226                             | *             | 0  |      | See Attached | pci/L | 1  | 10/14/2022 0:00 | R320114 |
| Radium-228                             | *             | 0  |      | See Attached | pci/L | 1  | 10/14/2022 0:00 | R320114 |



**Client:** Ramboll**Work Order:** 22081260**Client Project:** Hennepin Q3 Groundwater**Report Date:** 28-Oct-22**Lab ID:** 22081260-010**Client Sample ID:** 21R**Matrix:** GROUNDWATER**Collection Date:** 09/14/2022 9:22

| Analyses                               | Certification | RL | Qual | Result       | Units | DF | Date Analyzed   | Batch   |
|----------------------------------------|---------------|----|------|--------------|-------|----|-----------------|---------|
| <b>EPA 903.0/904.0, RADIUM 226/228</b> |               |    |      |              |       |    |                 |         |
| Radium-226                             | *             | 0  |      | See Attached | pci/L | 1  | 10/14/2022 0:00 | R320114 |
| Radium-228                             | *             | 0  |      | See Attached | pci/L | 1  | 10/14/2022 0:00 | R320114 |

**Client:** Ramboll**Work Order:** 22081260**Client Project:** Hennepin Q3 Groundwater**Report Date:** 28-Oct-22**Lab ID:** 22081260-011**Client Sample ID:** 22**Matrix:** GROUNDWATER**Collection Date:** 09/13/2022 11:12

| Analyses                               | Certification | RL | Qual | Result       | Units | DF | Date Analyzed   | Batch   |
|----------------------------------------|---------------|----|------|--------------|-------|----|-----------------|---------|
| <b>EPA 903.0/904.0, RADIUM 226/228</b> |               |    |      |              |       |    |                 |         |
| Radium-226                             | *             | 0  |      | See Attached | pCi/L | 1  | 10/14/2022 0:00 | R320114 |
| Radium-228                             | *             | 0  |      | See Attached | pCi/L | 1  | 10/14/2022 0:00 | R320114 |

**Client:** Ramboll**Work Order:** 22081260**Client Project:** Hennepin Q3 Groundwater**Report Date:** 28-Oct-22**Lab ID:** 22081260-012**Client Sample ID:** 22D**Matrix:** GROUNDWATER**Collection Date:** 09/13/2022 11:31

| Analyses                               | Certification | RL | Qual | Result       | Units | DF | Date Analyzed   | Batch   |
|----------------------------------------|---------------|----|------|--------------|-------|----|-----------------|---------|
| <b>EPA 903.0/904.0, RADIUM 226/228</b> |               |    |      |              |       |    |                 |         |
| Radium-226                             | *             | 0  |      | See Attached | pCi/L | 1  | 10/14/2022 0:00 | R320114 |
| Radium-228                             | *             | 0  |      | See Attached | pCi/L | 1  | 10/14/2022 0:00 | R320114 |

**Client:** Ramboll**Work Order:** 22081260**Client Project:** Hennepin Q3 Groundwater**Report Date:** 28-Oct-22**Lab ID:** 22081260-013**Client Sample ID:** 23**Matrix:** GROUNDWATER**Collection Date:** 09/13/2022 10:27

| Analyses                               | Certification | RL | Qual | Result       | Units | DF | Date Analyzed   | Batch   |
|----------------------------------------|---------------|----|------|--------------|-------|----|-----------------|---------|
| <b>EPA 903.0/904.0, RADIUM 226/228</b> |               |    |      |              |       |    |                 |         |
| Radium-226                             | *             | 0  |      | See Attached | pci/L | 1  | 10/14/2022 0:00 | R320114 |
| Radium-228                             | *             | 0  |      | See Attached | pci/L | 1  | 10/14/2022 0:00 | R320114 |

**Client:** Ramboll**Work Order:** 22081260**Client Project:** Hennepin Q3 Groundwater**Report Date:** 28-Oct-22**Lab ID:** 22081260-014**Client Sample ID:** 27**Matrix:** GROUNDWATER**Collection Date:** 09/13/2022 12:53

| Analyses                               | Certification | RL | Qual | Result       | Units | DF | Date Analyzed   | Batch   |
|----------------------------------------|---------------|----|------|--------------|-------|----|-----------------|---------|
| <b>EPA 903.0/904.0, RADIUM 226/228</b> |               |    |      |              |       |    |                 |         |
| Radium-226                             | *             | 0  |      | See Attached | pCi/L | 1  | 10/14/2022 0:00 | R320114 |
| Radium-228                             | *             | 0  |      | See Attached | pCi/L | 1  | 10/14/2022 0:00 | R320114 |

**Client:** Ramboll**Work Order:** 22081260**Client Project:** Hennepin Q3 Groundwater**Report Date:** 28-Oct-22**Lab ID:** 22081260-015**Client Sample ID:** 32**Matrix:** GROUNDWATER**Collection Date:** 09/13/2022 13:37

| Analyses                               | Certification | RL | Qual | Result       | Units | DF | Date Analyzed   | Batch   |
|----------------------------------------|---------------|----|------|--------------|-------|----|-----------------|---------|
| <b>EPA 903.0/904.0, RADIUM 226/228</b> |               |    |      |              |       |    |                 |         |
| Radium-226                             | *             | 0  |      | See Attached | pci/L | 1  | 10/14/2022 0:00 | R320114 |
| Radium-228                             | *             | 0  |      | See Attached | pci/L | 1  | 10/14/2022 0:00 | R320114 |

**Client:** Ramboll**Work Order:** 22081260**Client Project:** Hennepin Q3 Groundwater**Report Date:** 28-Oct-22**Lab ID:** 22081260-017**Client Sample ID:** 35**Matrix:** GROUNDWATER**Collection Date:** 09/14/2022 8:52

| Analyses                               | Certification | RL | Qual | Result       | Units | DF | Date Analyzed   | Batch   |
|----------------------------------------|---------------|----|------|--------------|-------|----|-----------------|---------|
| <b>EPA 903.0/904.0, RADIUM 226/228</b> |               |    |      |              |       |    |                 |         |
| Radium-226                             | *             | 0  |      | See Attached | pci/L | 1  | 10/14/2022 0:00 | R320114 |
| Radium-228                             | *             | 0  |      | See Attached | pci/L | 1  | 10/14/2022 0:00 | R320114 |



## Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll  
Client Project: Hennepin Q3 Groundwater  
Lab ID: 22081260-018  
Matrix: GROUNDWATER

Work Order: 22081260  
Report Date: 28-Oct-22  
Client Sample ID: 45S  
Collection Date: 09/14/2022 12:34

| Analyses                               | Certification | RL | Qual | Result       | Units | DF | Date Analyzed   | Batch   |
|----------------------------------------|---------------|----|------|--------------|-------|----|-----------------|---------|
| <b>EPA 903.0/904.0, RADIUM 226/228</b> |               |    |      |              |       |    |                 |         |
| Radium-226                             | *             | 0  |      | See Attached | pci/L | 1  | 10/14/2022 0:00 | R320114 |
| Radium-228                             | *             | 0  |      | See Attached | pci/L | 1  | 10/14/2022 0:00 | R320114 |





## Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22081260

Client Project: Hennepin Q3 Groundwater

Report Date: 28-Oct-22

Lab ID: 22081260-019

Client Sample ID: 46

Matrix: GROUNDWATER

Collection Date: 09/14/2022 10:44

| Analyses                               | Certification | RL | Qual | Result       | Units | DF | Date Analyzed   | Batch   |
|----------------------------------------|---------------|----|------|--------------|-------|----|-----------------|---------|
| <b>EPA 903.0/904.0, RADIUM 226/228</b> |               |    |      |              |       |    |                 |         |
| Radium-226                             | *             | 0  |      | See Attached | pci/L | 1  | 10/14/2022 0:00 | R320114 |
| Radium-228                             | *             | 0  |      | See Attached | pci/L | 1  | 10/14/2022 0:00 | R320114 |

**Client:** Ramboll**Work Order:** 22081260**Client Project:** Hennepin Q3 Groundwater**Report Date:** 28-Oct-22**Lab ID:** 22081260-020**Client Sample ID:** 47**Matrix:** GROUNDWATER**Collection Date:** 09/14/2022 11:42

| Analyses                               | Certification | RL | Qual | Result       | Units | DF | Date Analyzed   | Batch   |
|----------------------------------------|---------------|----|------|--------------|-------|----|-----------------|---------|
| <b>EPA 903.0/904.0, RADIUM 226/228</b> |               |    |      |              |       |    |                 |         |
| Radium-226                             | *             | 0  |      | See Attached | pCi/L | 1  | 10/14/2022 0:00 | R320114 |
| Radium-228                             | *             | 0  |      | See Attached | pCi/L | 1  | 10/14/2022 0:00 | R320114 |

**Client:** Ramboll  
**Client Project:** Hennepin Q3 Groundwater  
**Lab ID:** 22081260-021  
**Matrix:** GROUNDWATER

**Work Order:** 22081260  
**Report Date:** 28-Oct-22  
**Client Sample ID:** 49  
**Collection Date:** 09/13/2022 10:48

| Analyses                               | Certification | RL | Qual | Result       | Units | DF | Date Analyzed   | Batch   |
|----------------------------------------|---------------|----|------|--------------|-------|----|-----------------|---------|
| <b>EPA 903.0/904.0, RADIUM 226/228</b> |               |    |      |              |       |    |                 |         |
| Radium-226                             | *             | 0  |      | See Attached | pci/L | 1  | 10/14/2022 0:00 | R320114 |
| Radium-228                             | *             | 0  |      | See Attached | pci/L | 1  | 10/14/2022 0:00 | R320114 |

**Client:** Ramboll**Work Order:** 22081260**Client Project:** Hennepin Q3 Groundwater**Report Date:** 28-Oct-22**Lab ID:** 22081260-022**Client Sample ID:** 50**Matrix:** GROUNDWATER**Collection Date:** 09/13/2022 12:03

| Analyses                               | Certification | RL | Qual | Result       | Units | DF | Date Analyzed   | Batch   |
|----------------------------------------|---------------|----|------|--------------|-------|----|-----------------|---------|
| <b>EPA 903.0/904.0, RADIUM 226/228</b> |               |    |      |              |       |    |                 |         |
| Radium-226                             | *             | 0  |      | See Attached | pci/L | 1  | 10/07/2022 0:00 | R320114 |
| Radium-228                             | *             | 0  |      | See Attached | pci/L | 1  | 10/07/2022 0:00 | R320114 |

**Client:** Ramboll**Work Order:** 22081260**Client Project:** Hennepin Q3 Groundwater**Report Date:** 28-Oct-22**Lab ID:** 22081260-023**Client Sample ID:** 51**Matrix:** GROUNDWATER**Collection Date:** 09/13/2022 9:56

| Analyses                               | Certification | RL | Qual | Result       | Units | DF | Date Analyzed   | Batch   |
|----------------------------------------|---------------|----|------|--------------|-------|----|-----------------|---------|
| <b>EPA 903.0/904.0, RADIUM 226/228</b> |               |    |      |              |       |    |                 |         |
| Radium-226                             | *             | 0  |      | See Attached | pCi/L | 1  | 10/07/2022 0:00 | R320114 |
| Radium-228                             | *             | 0  |      | See Attached | pCi/L | 1  | 10/07/2022 0:00 | R320114 |

**Client:** Ramboll  
**Client Project:** Hennepin Q3 Groundwater  
**Lab ID:** 22081260-024  
**Matrix:** AQUEOUS

**Work Order:** 22081260  
**Report Date:** 28-Oct-22  
**Client Sample ID:** Field Blank  
**Collection Date:** 09/14/2022 16:45

| Analyses                               | Certification | RL | Qual | Result       | Units | DF | Date Analyzed   | Batch   |
|----------------------------------------|---------------|----|------|--------------|-------|----|-----------------|---------|
| <b>EPA 903.0/904.0, RADIUM 226/228</b> |               |    |      |              |       |    |                 |         |
| Radium-226                             | *             | 0  |      | See Attached | pci/L | 1  | 10/07/2022 0:00 | R320114 |
| Radium-228                             | *             | 0  |      | See Attached | pci/L | 1  | 10/07/2022 0:00 | R320114 |

**Client:** Ramboll**Work Order:** 22081260**Client Project:** Hennepin Q3 Groundwater**Report Date:** 28-Oct-22

| Lab Sample ID | Client Sample ID | Matrix      | Fractions | Collection Date  |
|---------------|------------------|-------------|-----------|------------------|
| 22081260-001  | 03R              | Groundwater | 1         | 09/14/2022 13:09 |
| 22081260-002  | 07               | Groundwater | 1         | 09/14/2022 17:21 |
| 22081260-003  | 08               | Groundwater | 1         | 09/14/2022 9:37  |
| 22081260-004  | 08 Duplicate     | Groundwater | 1         | 09/14/2022 9:37  |
| 22081260-005  | 08D              | Groundwater | 1         | 09/14/2022 9:09  |
| 22081260-006  | 12               | Groundwater | 1         | 09/14/2022 11:05 |
| 22081260-007  | 13               | Groundwater | 1         | 09/14/2022 11:19 |
| 22081260-008  | 18S              | Groundwater | 1         | 09/14/2022 13:28 |
| 22081260-009  | 18D              | Groundwater | 1         | 09/14/2022 13:44 |
| 22081260-010  | 21R              | Groundwater | 1         | 09/14/2022 9:22  |
| 22081260-011  | 22               | Groundwater | 1         | 09/13/2022 11:12 |
| 22081260-012  | 22D              | Groundwater | 1         | 09/13/2022 11:31 |
| 22081260-013  | 23               | Groundwater | 1         | 09/13/2022 10:27 |
| 22081260-014  | 27               | Groundwater | 1         | 09/13/2022 12:53 |
| 22081260-015  | 32               | Groundwater | 1         | 09/13/2022 13:37 |
| 22081260-016  | 34               | Groundwater | 1         |                  |
| 22081260-017  | 35               | Groundwater | 1         | 09/14/2022 8:52  |
| 22081260-018  | 45S              | Groundwater | 1         | 09/14/2022 12:34 |
| 22081260-019  | 46               | Groundwater | 1         | 09/14/2022 10:44 |
| 22081260-020  | 47               | Groundwater | 1         | 09/14/2022 11:42 |
| 22081260-021  | 49               | Groundwater | 1         | 09/13/2022 10:48 |
| 22081260-022  | 50               | Groundwater | 1         | 09/13/2022 12:03 |
| 22081260-023  | 51               | Groundwater | 1         | 09/13/2022 9:56  |
| 22081260-024  | Field Blank      | Aqueous     | 1         | 09/14/2022 16:45 |

**Client:** Ramboll

**Work Order:** 22081260

**Client Project:** Hennepin Q3 Groundwater

**Report Date:** 28-Oct-22

| Sample ID     | Client Sample ID                | Collection Date  | Received Date    | Prep Date/Time | Analysis Date/Time |
|---------------|---------------------------------|------------------|------------------|----------------|--------------------|
| Test Name     |                                 |                  |                  |                |                    |
| 22081260-001A | 03R                             | 09/14/2022 13:09 | 09/15/2022 10:05 |                |                    |
|               | EPA 903.0/904.0, Radium 226/228 |                  |                  |                | 10/14/2022 0:00    |
| 22081260-002A | 07                              | 09/14/2022 17:21 | 09/15/2022 10:05 |                |                    |
|               | EPA 903.0/904.0, Radium 226/228 |                  |                  |                | 10/14/2022 0:00    |
| 22081260-003A | 08                              | 09/14/2022 9:37  | 09/15/2022 10:05 |                |                    |
|               | EPA 903.0/904.0, Radium 226/228 |                  |                  |                | 10/14/2022 0:00    |
| 22081260-004A | 08 Duplicate                    | 09/14/2022 9:37  | 09/15/2022 10:05 |                |                    |
|               | EPA 903.0/904.0, Radium 226/228 |                  |                  |                | 10/14/2022 0:00    |
| 22081260-005A | 08D                             | 09/14/2022 9:09  | 09/15/2022 10:05 |                |                    |
|               | EPA 903.0/904.0, Radium 226/228 |                  |                  |                | 10/14/2022 0:00    |
| 22081260-006A | 12                              | 09/14/2022 11:05 | 09/15/2022 10:05 |                |                    |
|               | EPA 903.0/904.0, Radium 226/228 |                  |                  |                | 10/14/2022 0:00    |
| 22081260-007A | 13                              | 09/14/2022 11:19 | 09/15/2022 10:05 |                |                    |
|               | EPA 903.0/904.0, Radium 226/228 |                  |                  |                | 10/14/2022 0:00    |
| 22081260-008A | 18S                             | 09/14/2022 13:28 | 09/15/2022 10:05 |                |                    |
|               | EPA 903.0/904.0, Radium 226/228 |                  |                  |                | 10/14/2022 0:00    |
| 22081260-009A | 18D                             | 09/14/2022 13:44 | 09/15/2022 10:05 |                |                    |
|               | EPA 903.0/904.0, Radium 226/228 |                  |                  |                | 10/14/2022 0:00    |
| 22081260-010A | 21R                             | 09/14/2022 9:22  | 09/15/2022 10:05 |                |                    |
|               | EPA 903.0/904.0, Radium 226/228 |                  |                  |                | 10/14/2022 0:00    |
| 22081260-011A | 22                              | 09/13/2022 11:12 | 09/15/2022 10:05 |                |                    |
|               | EPA 903.0/904.0, Radium 226/228 |                  |                  |                | 10/14/2022 0:00    |
| 22081260-012A | 22D                             | 09/13/2022 11:31 | 09/15/2022 10:05 |                |                    |
|               | EPA 903.0/904.0, Radium 226/228 |                  |                  |                | 10/14/2022 0:00    |
| 22081260-013A | 23                              | 09/13/2022 10:27 | 09/15/2022 10:05 |                |                    |
|               | EPA 903.0/904.0, Radium 226/228 |                  |                  |                | 10/14/2022 0:00    |
| 22081260-014A | 27                              | 09/13/2022 12:53 | 09/15/2022 10:05 |                |                    |
|               | EPA 903.0/904.0, Radium 226/228 |                  |                  |                | 10/14/2022 0:00    |
| 22081260-015A | 32                              | 09/13/2022 13:37 | 09/15/2022 10:05 |                |                    |
|               | EPA 903.0/904.0, Radium 226/228 |                  |                  |                | 10/14/2022 0:00    |
| 22081260-017A | 35                              | 09/14/2022 8:52  | 09/15/2022 10:05 |                |                    |
|               | EPA 903.0/904.0, Radium 226/228 |                  |                  |                | 10/14/2022 0:00    |
| 22081260-018A | 45S                             | 09/14/2022 12:34 | 09/15/2022 10:05 |                |                    |
|               | EPA 903.0/904.0, Radium 226/228 |                  |                  |                | 10/14/2022 0:00    |
| 22081260-019A | 46                              | 09/14/2022 10:44 | 09/15/2022 10:05 |                |                    |



**Client:** Ramboll

**Work Order:** 22081260

**Client Project:** Hennepin Q3 Groundwater

**Report Date:** 28-Oct-22

| Sample ID     | Client Sample ID                | Collection Date  | Received Date    | Prep Date/Time | Analysis Date/Time |
|---------------|---------------------------------|------------------|------------------|----------------|--------------------|
| Test Name     |                                 |                  |                  |                |                    |
|               | EPA 903.0/904.0, Radium 226/228 |                  |                  |                | 10/14/2022 0:00    |
| 22081260-020A | 47                              | 09/14/2022 11:42 | 09/15/2022 10:05 |                |                    |
|               | EPA 903.0/904.0, Radium 226/228 |                  |                  |                | 10/14/2022 0:00    |
| 22081260-021A | 49                              | 09/13/2022 10:48 | 09/15/2022 10:05 |                |                    |
|               | EPA 903.0/904.0, Radium 226/228 |                  |                  |                | 10/14/2022 0:00    |
| 22081260-022A | 50                              | 09/13/2022 12:03 | 09/15/2022 10:05 |                |                    |
|               | EPA 903.0/904.0, Radium 226/228 |                  |                  |                | 10/07/2022 0:00    |
| 22081260-023A | 51                              | 09/13/2022 9:56  | 09/15/2022 10:05 |                |                    |
|               | EPA 903.0/904.0, Radium 226/228 |                  |                  |                | 10/07/2022 0:00    |
| 22081260-024A | Field Blank                     | 09/14/2022 16:45 | 09/15/2022 10:05 |                |                    |
|               | EPA 903.0/904.0, Radium 226/228 |                  |                  |                | 10/07/2022 0:00    |



## Receiving Check List

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22081260

Client Project: Hennepin Q3 Groundwater

Report Date: 28-Oct-22

Carrier: Joseph Riley

Received By: TWM

Completed by:

Reviewed by:

On:

On:

19-Sep-22

19-Sep-22

Timothy W. Mathis

Elizabeth A. Hurley

Pages to follow:

Chain of custody

2

Extra pages included

40

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Temp °C

NA

Type of thermal preservation?

None ☒

Ice ☐

Blue Ice ☐

Dry Ice

☐

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Reported field parameters measured:

Field ☐

Lab ☐

NA ☒

Container/Temp Blank temperature in compliance?

Yes ☒

No ☐

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water – at least one vial per sample has zero headspace?

Yes ☐

No ☐

No VOA vials ☒

Water - TOX containers have zero headspace?

Yes ☐

No ☐

No TOX containers ☒

Water - pH acceptable upon receipt?

Yes ☒

No ☐

NA ☐

NPDES/CWA TCN interferences checked/treated in the field?

Yes ☐

No ☐

NA ☒

Any No responses must be detailed below or on the COC.

pH strip #82999 - CET/TMathis - 9/19/2022 3:54:45 PM

# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

22081260

## Section A

Required Client Information:

## Section B

Required Project Information:

## Section C

Invoice Information:

Page: 1 of 2

|                                               |      |                                 |                                  |
|-----------------------------------------------|------|---------------------------------|----------------------------------|
| Company: <b>Vistra Corp</b>                   |      | Report To: <b>Brian Voelker</b> | Attention: <b>Jason Stuckey</b>  |
| Address: <b>13498 E. 900th St</b>             |      | Copy To: <b>Jason Stuckey</b>   | Company Name: <b>Vistra Corp</b> |
| Email To: <b>Brian.Voelker@VistraCorp.com</b> |      | Purchase Order No.:             | Address: <b>see Section A</b>    |
| Phone: <b>(217) 753-8911</b>                  | Fax: | Project Name:                   | Quote Reference:                 |
| Requested Due Date/TAT: <b>standard</b>       |      | Project Number: <b>2285</b>     | Project Manager:                 |
|                                               |      | Profile #:                      |                                  |

| REGULATORY AGENCY |              |                |
|-------------------|--------------|----------------|
| NPDES             | GROUND WATER | DRINKING WATER |
| UST               | RCRA         | OTHER          |
| Site Location     | IL           |                |
| STATE:            |              |                |

| ITEM # | Section D<br>Required Client Information | Valid Matrix Codes<br>MATRIX CODE<br><br>Grounding WATER DW<br>WATER WT<br>WASTE WATER WW<br>PRODUCT P<br>SOIL/SOLID SL<br>OIL OL<br>WIPE WP<br>AIR AR<br>OTHER OT<br>TISSUE TS | MATRIX CODE<br>(see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED |      | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives |                                |                  |     |      |                                               |          |       | Analysis Test | Requested Analysis Filtered (Y/N) |   |   |   |   |   |   |   |   |   |   |   | Residual Chlorine (Y/N) | Project No./ Lab I.D. |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|        |                                          |                                                                                                                                                                                 |                                          |                             | DATE      | TIME |                           |                 | Unpreserved   | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub> | HCl | NaOH | Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> | Methanol | Other |               | Y                                 | N | Y | N | Y | N | Y | N | Y | N | Y | N |                         |                       | Y | N | Y | N |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|        |                                          |                                                                                                                                                                                 |                                          |                             |           |      |                           |                 |               |                                |                  |     |      |                                               |          |       |               |                                   |   |   |   |   |   |   |   |   |   |   |   |                         |                       |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1      | 03R                                      |                                                                                                                                                                                 |                                          |                             | 09/14/22  | 1304 |                           | 2               |               |                                |                  |     |      |                                               |          |       |               | X                                 |   |   |   |   |   |   |   |   |   |   |   |                         |                       |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE     | TIME | ACCEPTED BY / AFFILIATION | DATE     | TIME | SAMPLE CONDITIONS |
|---------------------|-------------------------------|----------|------|---------------------------|----------|------|-------------------|
| <b>HEN-Q3-2022</b>  | <i>[Signature]</i>            | 09/15/22 | 1005 | <i>[Signature]</i>        | 09/15/22 | 1005 |                   |
| Radium, only.       |                               |          |      |                           |          |      |                   |

Duplicate and Field Blank per project history. EAH 8/18/22

| SAMPLER NAME AND SIGNATURE |                       | Temp in °C                | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples intact (Y/N) |
|----------------------------|-----------------------|---------------------------|-----------------------|-----------------------------|----------------------|
| PRINT Name of SAMPLER:     | SIGNATURE of SAMPLER: |                           |                       |                             |                      |
| Joe Ripa                   | <i>[Signature]</i>    |                           |                       |                             |                      |
|                            |                       | DATE Signed (MM/DD/YYYY): |                       |                             |                      |
|                            |                       | 09/15/22                  |                       |                             |                      |

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The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 2 of 2

## Section A

**Required Client Information:**

## Section B

**Required Project Information:**

## Section C

**Invoice information:**

|                                                                                          |      |                          |                           |                   |              |                |
|------------------------------------------------------------------------------------------|------|--------------------------|---------------------------|-------------------|--------------|----------------|
| Company: Vistra Corp                                                                     |      | Report To: Brian Voelker | Attention: Jason Stuckey  |                   |              |                |
| Address: 13498 E. 900th St                                                               |      | Copy To: Jason Stuckey   | Company Name: Vistra Corp | REGULATORY AGENCY |              |                |
|                                                                                          |      |                          | Address: see Section A    | NPDES             | GROUND WATER | DRINKING WATER |
| Email To: <a href="mailto:Brian.Voelker@VistraCorp.com">Brian.Voelker@VistraCorp.com</a> |      | Purchase Order No.:      | Quote Reference:          | UST               | RCRA         | DTHR           |
| Phone: (217) 753-8911                                                                    | Fax: | Project Name:            | Project Manager:          | Site Location     | IL           |                |
| Requested Due Date/TAT: standard                                                         |      | Project Number: 2285     | Profile #:                | STATE:            |              |                |

| ITEM #                            | Section D<br>Required Client Information | Valid Matrix Codes<br><u>MATRIX</u><br>DRINKING WATER DW<br>WASTE WATER WW<br>PRODUCT P<br>SOIL/SOLID SL<br>OIL OL<br>PIPE WP<br>AIR AR<br>OTHER OT<br>TISSUE TS | <u>CODE</u> | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED |  | DATE                      | TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives |       |                                  |     |                       |         |                             |       | Analysis Test ↓<br>Y/N ↑ | Requested Analysis Filtered (Y/N) |             |             |                     |                 |  | Residual Chlorine (Y/N) | Project No./ Lab I.D. |  |  |              |  |  |
|-----------------------------------|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------------------------|-----------------------------|-----------|--|---------------------------|------|---------------------------|-----------------|---------------|-------|----------------------------------|-----|-----------------------|---------|-----------------------------|-------|--------------------------|-----------------------------------|-------------|-------------|---------------------|-----------------|--|-------------------------|-----------------------|--|--|--------------|--|--|
|                                   |                                          |                                                                                                                                                                  |             |                                       |                             |           |  |                           |      |                           |                 | Unpreserved   | H₂SO₄ | HNO₃                             | HCl | NaOH                  | Na₂S₂O₃ | Methanol                    | Other |                          | HEN-257-802                       | HEN-257-803 | HEN-257-804 | HEN-CLOSURE-802-805 | HEN-CLOSURE-804 |  |                         |                       |  |  |              |  |  |
|                                   |                                          |                                                                                                                                                                  |             |                                       |                             |           |  |                           |      |                           |                 |               |       |                                  |     |                       |         |                             |       |                          |                                   |             |             |                     |                 |  |                         |                       |  |  |              |  |  |
| 1                                 |                                          | 35                                                                                                                                                               |             |                                       |                             |           |  | 09/14/22                  | 0552 |                           | 2               |               |       |                                  |     |                       |         |                             | X     |                          |                                   |             |             |                     |                 |  |                         |                       |  |  | 23081260-017 |  |  |
| 2                                 |                                          | 45S                                                                                                                                                              |             |                                       |                             |           |  | 09/14/22                  | 1240 |                           |                 |               |       |                                  |     |                       |         |                             | X     |                          |                                   |             |             |                     |                 |  |                         |                       |  |  | 018          |  |  |
| 3                                 |                                          | 46                                                                                                                                                               |             |                                       |                             |           |  | 09/17/22                  | 1044 |                           |                 |               |       |                                  |     |                       |         |                             |       | X                        |                                   |             |             |                     |                 |  |                         |                       |  |  | 019          |  |  |
| 4                                 |                                          | 47                                                                                                                                                               |             |                                       |                             |           |  | 09/17/22                  | 1142 |                           |                 |               |       |                                  |     |                       |         |                             |       | X                        |                                   |             |             |                     |                 |  |                         |                       |  |  | 020          |  |  |
| 5                                 |                                          | 49                                                                                                                                                               |             |                                       |                             |           |  | 09/13/22                  | 1048 |                           |                 |               |       |                                  |     |                       |         |                             |       |                          | X                                 |             |             |                     |                 |  |                         |                       |  |  | 021          |  |  |
| 6                                 |                                          | 50                                                                                                                                                               |             |                                       |                             |           |  | 09/13/22                  | 1209 |                           |                 |               |       |                                  |     |                       |         |                             |       |                          | X                                 |             |             |                     |                 |  |                         |                       |  |  | 022          |  |  |
| 7                                 |                                          | 51                                                                                                                                                               |             |                                       |                             |           |  | 09/13/22                  | 0946 |                           |                 |               |       |                                  |     |                       |         |                             |       |                          | X                                 |             |             |                     |                 |  |                         |                       |  |  | 023          |  |  |
| 8                                 |                                          | Field Blank                                                                                                                                                      |             |                                       |                             |           |  | 09/14/22                  | 1645 |                           |                 |               |       |                                  |     |                       |         |                             | X     | X                        | X                                 |             | X           | X                   |                 |  |                         |                       |  |  | 024          |  |  |
| 9                                 |                                          |                                                                                                                                                                  |             |                                       |                             |           |  |                           |      |                           |                 |               |       |                                  |     |                       |         |                             |       |                          |                                   |             |             |                     |                 |  |                         |                       |  |  |              |  |  |
| 10                                |                                          |                                                                                                                                                                  |             |                                       |                             |           |  |                           |      |                           |                 |               |       |                                  |     |                       |         |                             |       |                          |                                   |             |             |                     |                 |  |                         |                       |  |  |              |  |  |
| 11                                |                                          |                                                                                                                                                                  |             |                                       |                             |           |  |                           |      |                           |                 |               |       |                                  |     |                       |         |                             |       |                          |                                   |             |             |                     |                 |  |                         |                       |  |  |              |  |  |
| 12                                |                                          |                                                                                                                                                                  |             |                                       |                             |           |  |                           |      |                           |                 |               |       |                                  |     |                       |         |                             |       |                          |                                   |             |             |                     |                 |  |                         |                       |  |  |              |  |  |
| 13                                |                                          |                                                                                                                                                                  |             |                                       |                             |           |  |                           |      |                           |                 |               |       |                                  |     |                       |         |                             |       |                          |                                   |             |             |                     |                 |  |                         |                       |  |  |              |  |  |
| 1d                                |                                          |                                                                                                                                                                  |             |                                       |                             |           |  |                           |      |                           |                 |               |       |                                  |     |                       |         |                             |       |                          |                                   |             |             |                     |                 |  |                         |                       |  |  |              |  |  |
| 15                                |                                          |                                                                                                                                                                  |             |                                       |                             |           |  |                           |      |                           |                 |               |       |                                  |     |                       |         |                             |       |                          |                                   |             |             |                     |                 |  |                         |                       |  |  |              |  |  |
| 16                                |                                          |                                                                                                                                                                  |             |                                       |                             |           |  |                           |      |                           |                 |               |       |                                  |     |                       |         |                             |       |                          |                                   |             |             |                     |                 |  |                         |                       |  |  |              |  |  |
| ADDITIONAL COMMENTS               |                                          | RELINQUISHED BY / AFFILIATION                                                                                                                                    |             | DATE                                  |                             | TIME      |  | ACCEPTED BY / AFFILIATION |      | DATE                      |                 | TIME          |       | SAMPLE CONDITIONS                |     |                       |         |                             |       |                          |                                   |             |             |                     |                 |  |                         |                       |  |  |              |  |  |
| HEN-Q3-2022                       |                                          | JMR Telebio                                                                                                                                                      |             | 09/15/22                              |                             | VOOS      |  |                           |      |                           |                 |               |       |                                  |     |                       |         |                             |       |                          |                                   |             |             |                     |                 |  |                         |                       |  |  |              |  |  |
| SAMPLER NAME AND SIGNATURE        |                                          |                                                                                                                                                                  |             |                                       |                             |           |  |                           |      |                           |                 |               |       | Temp in °C                       |     | Received on Ice (Y/N) |         | Custody Sealed Cooler (Y/N) |       | Samples Intact (Y/N)     |                                   |             |             |                     |                 |  |                         |                       |  |  |              |  |  |
| PRINT Name of SAMPLER: JMR        |                                          |                                                                                                                                                                  |             |                                       |                             |           |  |                           |      |                           |                 |               |       |                                  |     |                       |         |                             |       |                          |                                   |             |             |                     |                 |  |                         |                       |  |  |              |  |  |
| SIGNATURE of SAMPLER: [Signature] |                                          |                                                                                                                                                                  |             |                                       |                             |           |  |                           |      |                           |                 |               |       | DATE Signed (MM/DD/YY): 09/15/22 |     |                       |         |                             |       |                          |                                   |             |             |                     |                 |  |                         |                       |  |  |              |  |  |

**TEKLAB, Inc.**

Sample Delivery Group: L1537975

Samples Received: 09/21/2022

Project Number: 22091260

Description:

Report To: Elizabeth Hurley  
5445 Horseshoe Lake Road  
Collinsville, IL 62234

Entire Report Reviewed By:



Mark W. Beasley  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

**Pace Analytical National**12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 [www.pacenational.com](http://www.pacenational.com)

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|                 |
|-----------------|
| <sup>1</sup> Cp |
| <sup>2</sup> Tc |
| <sup>3</sup> Ss |
| <sup>4</sup> Cn |
| <sup>5</sup> Sr |
| <sup>6</sup> Qc |
| <sup>7</sup> Gl |
| <sup>8</sup> Al |
| <sup>9</sup> Sc |

# SAMPLE SUMMARY

## 22081260-001 L1537975-01 Non-Potable Water

Collected by  
Collected date/time  
09/14/22 13:09  
Received date/time  
09/21/22 09:15

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320     | WG1941696 | 1        | 10/18/22 08:54        | 10/21/22 12:18     | SWM     | Mt. Juliet, TN |
| Radiochemistry by Method Calculation  | WG1933262 | 1        | 10/11/22 14:00        | 10/21/22 12:18     | SWM     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1933262 | 1        | 10/11/22 14:00        | 10/14/22 14:08     | RGT     | Mt. Juliet, TN |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

## 22081260-002 L1537975-02 Non-Potable Water

Collected by  
Collected date/time  
09/14/22 17:21  
Received date/time  
09/21/22 09:15

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320     | WG1941696 | 1        | 10/18/22 08:54        | 10/21/22 12:18     | SWM     | Mt. Juliet, TN |
| Radiochemistry by Method Calculation  | WG1933262 | 1        | 10/11/22 14:00        | 10/21/22 12:18     | SWM     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1933262 | 1        | 10/11/22 14:00        | 10/14/22 14:08     | RGT     | Mt. Juliet, TN |

## 22081260-003 L1537975-03 Non-Potable Water

Collected by  
Collected date/time  
09/14/22 09:37  
Received date/time  
09/21/22 09:15

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320     | WG1941696 | 1        | 10/18/22 08:54        | 10/21/22 12:18     | SWM     | Mt. Juliet, TN |
| Radiochemistry by Method Calculation  | WG1933262 | 1        | 10/11/22 14:00        | 10/21/22 12:18     | SWM     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1933262 | 1        | 10/11/22 14:00        | 10/14/22 14:08     | RGT     | Mt. Juliet, TN |

## 22081260-004 L1537975-04 Non-Potable Water

Collected by  
Collected date/time  
09/14/22 09:37  
Received date/time  
09/21/22 09:15

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320     | WG1941696 | 1        | 10/18/22 08:54        | 10/21/22 12:18     | SWM     | Mt. Juliet, TN |
| Radiochemistry by Method Calculation  | WG1933262 | 1        | 10/11/22 14:00        | 10/21/22 12:18     | SWM     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1933262 | 1        | 10/11/22 14:00        | 10/14/22 14:08     | RGT     | Mt. Juliet, TN |

## 22081260-005 L1537975-05 Non-Potable Water

Collected by  
Collected date/time  
09/14/22 09:09  
Received date/time  
09/21/22 09:15

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320     | WG1941696 | 1        | 10/18/22 08:54        | 10/21/22 12:18     | SWM     | Mt. Juliet, TN |
| Radiochemistry by Method Calculation  | WG1933262 | 1        | 10/11/22 14:00        | 10/21/22 12:18     | SWM     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1933262 | 1        | 10/11/22 14:00        | 10/14/22 14:08     | RGT     | Mt. Juliet, TN |

## 22081260-006 L1537975-06 Non-Potable Water

Collected by  
Collected date/time  
09/14/22 11:05  
Received date/time  
09/21/22 09:15

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320     | WG1941696 | 1        | 10/18/22 08:54        | 10/21/22 12:18     | SWM     | Mt. Juliet, TN |
| Radiochemistry by Method Calculation  | WG1933262 | 1        | 10/11/22 14:00        | 10/21/22 12:18     | SWM     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1933262 | 1        | 10/11/22 14:00        | 10/14/22 14:08     | RGT     | Mt. Juliet, TN |

# SAMPLE SUMMARY

## 22081260-007 L1537975-07 Non-Potable Water

Collected by  
Collected date/time  
09/14/22 11:19  
Received date/time  
09/21/22 09:15

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320     | WG1941696 | 1        | 10/18/22 08:54        | 10/21/22 12:18     | SWM     | Mt. Juliet, TN |
| Radiochemistry by Method Calculation  | WG1933262 | 1        | 10/11/22 14:00        | 10/21/22 12:18     | SWM     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1933262 | 1        | 10/11/22 14:00        | 10/14/22 14:08     | RGT     | Mt. Juliet, TN |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

## 22081260-008 L1537975-08 Non-Potable Water

Collected by  
Collected date/time  
09/14/22 13:28  
Received date/time  
09/21/22 09:15

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320     | WG1941696 | 1        | 10/18/22 08:54        | 10/21/22 14:45     | SWM     | Mt. Juliet, TN |
| Radiochemistry by Method Calculation  | WG1933262 | 1        | 10/11/22 14:00        | 10/21/22 14:45     | SWM     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1933262 | 1        | 10/11/22 14:00        | 10/14/22 14:08     | RGT     | Mt. Juliet, TN |

## 22081260-009 L1537975-09 Non-Potable Water

Collected by  
Collected date/time  
09/14/22 13:44  
Received date/time  
09/21/22 09:15

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320     | WG1941696 | 1        | 10/18/22 08:54        | 10/21/22 14:45     | SWM     | Mt. Juliet, TN |
| Radiochemistry by Method Calculation  | WG1933262 | 1        | 10/11/22 14:00        | 10/21/22 14:45     | SWM     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1933262 | 1        | 10/11/22 14:00        | 10/14/22 14:08     | RGT     | Mt. Juliet, TN |

## 22081260-010 L1537975-10 Non-Potable Water

Collected by  
Collected date/time  
09/14/22 09:22  
Received date/time  
09/21/22 09:15

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320     | WG1941696 | 1        | 10/18/22 08:54        | 10/21/22 14:45     | SWM     | Mt. Juliet, TN |
| Radiochemistry by Method Calculation  | WG1933262 | 1        | 10/11/22 14:00        | 10/21/22 14:45     | SWM     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1933262 | 1        | 10/11/22 14:00        | 10/14/22 14:08     | RGT     | Mt. Juliet, TN |

## 22081260-011 L1537975-11 Non-Potable Water

Collected by  
Collected date/time  
09/13/22 11:12  
Received date/time  
09/21/22 09:15

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320     | WG1941696 | 1        | 10/18/22 08:54        | 10/21/22 14:45     | SWM     | Mt. Juliet, TN |
| Radiochemistry by Method Calculation  | WG1933262 | 1        | 10/11/22 14:00        | 10/21/22 14:45     | SWM     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1933262 | 1        | 10/11/22 14:00        | 10/14/22 14:08     | RGT     | Mt. Juliet, TN |

## 22081260-012 L1537975-12 Non-Potable Water

Collected by  
Collected date/time  
09/13/22 11:31  
Received date/time  
09/21/22 09:15

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320     | WG1941696 | 1        | 10/18/22 08:54        | 10/21/22 14:45     | SWM     | Mt. Juliet, TN |
| Radiochemistry by Method Calculation  | WG1933262 | 1        | 10/11/22 14:00        | 10/21/22 14:45     | SWM     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1933262 | 1        | 10/11/22 14:00        | 10/14/22 14:08     | RGT     | Mt. Juliet, TN |



# SAMPLE SUMMARY

## 22081260-013 L1537975-13 Non-Potable Water

Collected by

Collected date/time

Received date/time

09/13/22 10:27

09/21/22 09:15

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320     | WG1941696 | 1        | 10/18/22 08:54        | 10/21/22 14:45     | SWM     | Mt. Juliet, TN |
| Radiochemistry by Method Calculation  | WG1933262 | 1        | 10/11/22 14:00        | 10/21/22 14:45     | SWM     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1933262 | 1        | 10/11/22 14:00        | 10/14/22 14:08     | RGT     | Mt. Juliet, TN |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

## 22081260-014 L1537975-14 Non-Potable Water

Collected by

Collected date/time

Received date/time

09/13/22 12:53

09/21/22 09:15

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320     | WG1941696 | 1        | 10/18/22 08:54        | 10/21/22 14:45     | SWM     | Mt. Juliet, TN |
| Radiochemistry by Method Calculation  | WG1933262 | 1        | 10/11/22 14:00        | 10/21/22 14:45     | SWM     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1933262 | 1        | 10/11/22 14:00        | 10/14/22 14:08     | RGT     | Mt. Juliet, TN |

## 22081260-015 L1537975-15 Non-Potable Water

Collected by

Collected date/time

Received date/time

09/13/22 13:37

09/21/22 09:15

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320     | WG1943849 | 1        | 10/18/22 14:01        | 10/25/22 10:45     | SWM     | Mt. Juliet, TN |
| Radiochemistry by Method Calculation  | WG1933262 | 1        | 10/11/22 14:00        | 10/25/22 10:45     | SWM     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1933262 | 1        | 10/11/22 14:00        | 10/14/22 14:08     | RGT     | Mt. Juliet, TN |

## 22081260-017 L1537975-16 Non-Potable Water

Collected by

Collected date/time

Received date/time

09/14/22 08:52

09/21/22 09:15

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320     | WG1943849 | 1        | 10/18/22 14:01        | 10/25/22 10:45     | SWM     | Mt. Juliet, TN |
| Radiochemistry by Method Calculation  | WG1933262 | 1        | 10/11/22 14:00        | 10/25/22 10:45     | SWM     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1933262 | 1        | 10/11/22 14:00        | 10/14/22 14:08     | RGT     | Mt. Juliet, TN |

## 22081260-018 L1537975-17 Non-Potable Water

Collected by

Collected date/time

Received date/time

09/14/22 12:34

09/21/22 09:15

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320     | WG1943849 | 1        | 10/18/22 14:01        | 10/25/22 10:45     | SWM     | Mt. Juliet, TN |
| Radiochemistry by Method Calculation  | WG1933262 | 1        | 10/11/22 14:00        | 10/25/22 10:45     | SWM     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1933262 | 1        | 10/11/22 14:00        | 10/14/22 14:08     | RGT     | Mt. Juliet, TN |

## 22081260-019 L1537975-18 Non-Potable Water

Collected by

Collected date/time

Received date/time

09/14/22 10:44

09/21/22 09:15

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320     | WG1943849 | 1        | 10/18/22 14:01        | 10/25/22 10:45     | SWM     | Mt. Juliet, TN |
| Radiochemistry by Method Calculation  | WG1933262 | 1        | 10/11/22 14:00        | 10/25/22 10:45     | SWM     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1933262 | 1        | 10/11/22 14:00        | 10/14/22 14:08     | RGT     | Mt. Juliet, TN |

# SAMPLE SUMMARY

## 22081260-020 L1537975-19 Non-Potable Water

Collected by

Collected date/time

Received date/time

09/14/22 11:42

09/21/22 09:15

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320     | WG1943849 | 1        | 10/18/22 14:01        | 10/25/22 10:45     | SWM     | Mt. Juliet, TN |
| Radiochemistry by Method Calculation  | WG1933262 | 1        | 10/11/22 14:00        | 10/25/22 10:45     | SWM     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1933262 | 1        | 10/11/22 14:00        | 10/14/22 14:08     | RGT     | Mt. Juliet, TN |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

## 22081260-021 L1537975-20 Non-Potable Water

Collected by

Collected date/time

Received date/time

09/13/22 10:48

09/21/22 09:15

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320     | WG1943849 | 1        | 10/18/22 14:01        | 10/25/22 10:45     | SWM     | Mt. Juliet, TN |
| Radiochemistry by Method Calculation  | WG1933262 | 1        | 10/11/22 14:00        | 10/25/22 10:45     | SWM     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1933262 | 1        | 10/11/22 14:00        | 10/14/22 14:08     | RGT     | Mt. Juliet, TN |

## 22081260-022 L1537975-21 Non-Potable Water

Collected by

Collected date/time

Received date/time

09/13/22 12:03

09/21/22 09:15

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320     | WG1943849 | 1        | 10/18/22 14:01        | 10/25/22 10:45     | SWM     | Mt. Juliet, TN |
| Radiochemistry by Method Calculation  | WG1933261 | 1        | 10/06/22 15:00        | 10/25/22 10:45     | SWM     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1933261 | 1        | 10/06/22 15:00        | 10/07/22 12:15     | RGT     | Mt. Juliet, TN |

## 22081260-023 L1537975-22 Non-Potable Water

Collected by

Collected date/time

Received date/time

09/13/22 09:56

09/21/22 09:15

| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320     | WG1943849 | 1        | 10/18/22 14:01        | 10/25/22 10:45     | SWM     | Mt. Juliet, TN |
| Radiochemistry by Method Calculation  | WG1933261 | 1        | 10/06/22 15:00        | 10/25/22 10:45     | SWM     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1933261 | 1        | 10/06/22 15:00        | 10/07/22 12:15     | RGT     | Mt. Juliet, TN |

## 22081260-024 L1537975-23 Non-Potable Water

Collected by

Collected date/time

Received date/time

09/14/22 16:45

09/21/22 09:15

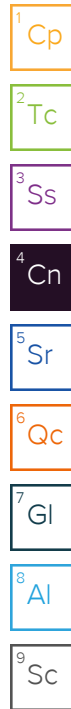
| Method                                | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320     | WG1943849 | 1        | 10/18/22 14:01        | 10/25/22 10:45     | SWM     | Mt. Juliet, TN |
| Radiochemistry by Method Calculation  | WG1933261 | 1        | 10/06/22 15:00        | 10/25/22 10:45     | SWM     | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1933261 | 1        | 10/06/22 15:00        | 10/07/22 12:15     | RGT     | Mt. Juliet, TN |

# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Mark W. Beasley  
Project Manager



## Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-228  | 1.95   |           | 0.202       | 0.503    | 10/21/2022 12:18 | <a href="#">WG1941696</a> |
| (T) Barium  | 96.7   |           |             | 30.0-143 | 10/21/2022 12:18 | <a href="#">WG1941696</a> |
| (T) Yttrium | 103    |           |             | 30.0-136 | 10/21/2022 12:18 | <a href="#">WG1941696</a> |

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss

## Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch                     |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |                           |
| Combined Radium | 1.95   |           | 0.244       | 0.598 | 10/21/2022 12:18 | <a href="#">WG1933262</a> |

<sup>4</sup> Cn<sup>5</sup> Sr

## Radiochemistry by Method SM7500Ra B M

| Analyte        | Result  | Qualifier         | Uncertainty | MDA      | Analysis Date    | Batch                     |
|----------------|---------|-------------------|-------------|----------|------------------|---------------------------|
|                | pCi/l   |                   | + / -       | pCi/l    | date / time      |                           |
| RADIUM-226     | -0.0331 | <a href="#">U</a> | 0.136       | 0.324    | 10/14/2022 14:08 | <a href="#">WG1933262</a> |
| (T) Barium-133 | 76.6    |                   |             | 30.0-143 | 10/14/2022 14:08 | <a href="#">WG1933262</a> |

<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al<sup>9</sup> Sc

Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-228  | 1.06   |           | 0.229       | 0.639    | 10/21/2022 12:18 | <a href="#">WG1941696</a> |
| (T) Barium  | 97.0   |           |             | 30.0-143 | 10/21/2022 12:18 | <a href="#">WG1941696</a> |
| (T) Yttrium | 101    |           |             | 30.0-136 | 10/21/2022 12:18 | <a href="#">WG1941696</a> |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch                     |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |                           |
| Combined Radium | 1.67   |           | 0.393       | 0.704 | 10/21/2022 12:18 | <a href="#">WG1933262</a> |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-226     | 0.608  |           | 0.320       | 0.296    | 10/14/2022 14:08 | <a href="#">WG1933262</a> |
| (T) Barium-133 | 93.0   |           |             | 30.0-143 | 10/14/2022 14:08 | <a href="#">WG1933262</a> |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

## Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-228  | 1.29   |           | 0.231       | 0.632    | 10/21/2022 12:18 | <a href="#">WG1941696</a> |
| (T) Barium  | 108    |           |             | 30.0-143 | 10/21/2022 12:18 | <a href="#">WG1941696</a> |
| (T) Yttrium | 93.3   |           |             | 30.0-136 | 10/21/2022 12:18 | <a href="#">WG1941696</a> |

<sup>1</sup>Cp<sup>2</sup>Tc<sup>3</sup>Ss

## Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch                     |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |                           |
| Combined Radium | 1.71   |           | 0.361       | 0.688 | 10/21/2022 12:18 | <a href="#">WG1933262</a> |

<sup>4</sup>Cn<sup>5</sup>Sr

## Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-226     | 0.421  |           | 0.277       | 0.271    | 10/14/2022 14:08 | <a href="#">WG1933262</a> |
| (T) Barium-133 | 94.0   |           |             | 30.0-143 | 10/14/2022 14:08 | <a href="#">WG1933262</a> |

<sup>6</sup>Qc<sup>7</sup>Gl<sup>8</sup>Al<sup>9</sup>Sc

Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-228  | 1.33   |           | 0.208       | 0.557    | 10/21/2022 12:18 | <a href="#">WG1941696</a> |
| (T) Barium  | 90.7   |           |             | 30.0-143 | 10/21/2022 12:18 | <a href="#">WG1941696</a> |
| (T) Yttrium | 103    |           |             | 30.0-136 | 10/21/2022 12:18 | <a href="#">WG1941696</a> |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch                     |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |                           |
| Combined Radium | 1.59   |           | 0.335       | 0.656 | 10/21/2022 12:18 | <a href="#">WG1933262</a> |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-226     | 0.260  | J         | 0.263       | 0.346    | 10/14/2022 14:08 | <a href="#">WG1933262</a> |
| (T) Barium-133 | 92.0   |           |             | 30.0-143 | 10/14/2022 14:08 | <a href="#">WG1933262</a> |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-228  | 1.39   |           | 0.224       | 0.606    | 10/21/2022 12:18 | <a href="#">WG1941696</a> |
| (T) Barium  | 88.4   |           |             | 30.0-143 | 10/21/2022 12:18 | <a href="#">WG1941696</a> |
| (T) Yttrium | 103    |           |             | 30.0-136 | 10/21/2022 12:18 | <a href="#">WG1941696</a> |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch                     |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |                           |
| Combined Radium | 1.59   |           | 0.299       | 0.657 | 10/21/2022 12:18 | <a href="#">WG1933262</a> |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-226     | 0.200  | J         | 0.198       | 0.253    | 10/14/2022 14:08 | <a href="#">WG1933262</a> |
| (T) Barium-133 | 93.9   |           |             | 30.0-143 | 10/14/2022 14:08 | <a href="#">WG1933262</a> |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc



## Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-228  | 1.80   |           | 0.228       | 0.597    | 10/21/2022 12:18 | <a href="#">WG1941696</a> |
| (T) Barium  | 92.8   |           |             | 30.0-143 | 10/21/2022 12:18 | <a href="#">WG1941696</a> |
| (T) Yttrium | 103    |           |             | 30.0-136 | 10/21/2022 12:18 | <a href="#">WG1941696</a> |

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss

## Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch                     |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |                           |
| Combined Radium | 1.82   |           | 0.244       | 0.630 | 10/21/2022 12:18 | <a href="#">WG1933262</a> |

<sup>4</sup> Cn<sup>5</sup> Sr

## Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier         | Uncertainty | MDA      | Analysis Date    | Batch                     |
|----------------|--------|-------------------|-------------|----------|------------------|---------------------------|
|                | pCi/l  |                   | + / -       | pCi/l    | date / time      |                           |
| RADIUM-226     | 0.0228 | <a href="#">U</a> | 0.0880      | 0.200    | 10/14/2022 14:08 | <a href="#">WG1933262</a> |
| (T) Barium-133 | 88.2   |                   |             | 30.0-143 | 10/14/2022 14:08 | <a href="#">WG1933262</a> |

<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al<sup>9</sup> Sc

Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-228  | 0.994  |           | 0.214       | 0.596    | 10/21/2022 12:18 | <a href="#">WG1941696</a> |
| (T) Barium  | 92.8   |           |             | 30.0-143 | 10/21/2022 12:18 | <a href="#">WG1941696</a> |
| (T) Yttrium | 104    |           |             | 30.0-136 | 10/21/2022 12:18 | <a href="#">WG1941696</a> |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch                     |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |                           |
| Combined Radium | 1.10   |           | 0.262       | 0.637 | 10/21/2022 12:18 | <a href="#">WG1933262</a> |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-226     | 0.102  | J         | 0.151       | 0.226    | 10/14/2022 14:08 | <a href="#">WG1933262</a> |
| (T) Barium-133 | 92.0   |           |             | 30.0-143 | 10/14/2022 14:08 | <a href="#">WG1933262</a> |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|-------------|--------|-----------|-------------|----------|------------------|-----------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-228  | 0.421  | U         | 0.267       | 0.775    | 10/21/2022 14:45 | WG1941696 |
| (T) Barium  | 91.8   |           |             | 30.0-143 | 10/21/2022 14:45 | WG1941696 |
| (T) Yttrium | 92.5   |           |             | 30.0-136 | 10/21/2022 14:45 | WG1941696 |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch     |
|-----------------|--------|-----------|-------------|-------|------------------|-----------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |           |
| Combined Radium | 0.501  | U         | 0.294       | 0.799 | 10/21/2022 14:45 | WG1933262 |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|----------------|--------|-----------|-------------|----------|------------------|-----------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-226     | 0.0798 | J         | 0.124       | 0.193    | 10/14/2022 14:08 | WG1933262 |
| (T) Barium-133 | 89.7   |           |             | 30.0-143 | 10/14/2022 14:08 | WG1933262 |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-228  | 1.42   |           | 0.232       | 0.623    | 10/21/2022 14:45 | <a href="#">WG1941696</a> |
| (T) Barium  | 91.4   |           |             | 30.0-143 | 10/21/2022 14:45 | <a href="#">WG1941696</a> |
| (T) Yttrium | 102    |           |             | 30.0-136 | 10/21/2022 14:45 | <a href="#">WG1941696</a> |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch                     |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |                           |
| Combined Radium | 1.71   |           | 0.325       | 0.668 | 10/21/2022 14:45 | <a href="#">WG1933262</a> |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-226     | 0.293  |           | 0.227       | 0.242    | 10/14/2022 14:08 | <a href="#">WG1933262</a> |
| (T) Barium-133 | 90.3   |           |             | 30.0-143 | 10/14/2022 14:08 | <a href="#">WG1933262</a> |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-228  | 1.68   |           | 0.213       | 0.551    | 10/21/2022 14:45 | <a href="#">WG1941696</a> |
| (T) Barium  | 97.3   |           |             | 30.0-143 | 10/21/2022 14:45 | <a href="#">WG1941696</a> |
| (T) Yttrium | 102    |           |             | 30.0-136 | 10/21/2022 14:45 | <a href="#">WG1941696</a> |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch                     |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |                           |
| Combined Radium | 2.44   |           | 0.369       | 0.573 | 10/21/2022 14:45 | <a href="#">WG1933262</a> |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-226     | 0.765  |           | 0.301       | 0.158    | 10/14/2022 14:08 | <a href="#">WG1933262</a> |
| (T) Barium-133 | 91.5   |           |             | 30.0-143 | 10/14/2022 14:08 | <a href="#">WG1933262</a> |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-228  | 0.684  |           | 0.201       | 0.569    | 10/21/2022 14:45 | <a href="#">WG1941696</a> |
| (T) Barium  | 97.3   |           |             | 30.0-143 | 10/21/2022 14:45 | <a href="#">WG1941696</a> |
| (T) Yttrium | 97.6   |           |             | 30.0-136 | 10/21/2022 14:45 | <a href="#">WG1941696</a> |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch                     |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |                           |
| Combined Radium | 1.01   |           | 0.312       | 0.625 | 10/21/2022 14:45 | <a href="#">WG1933262</a> |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-226     | 0.322  |           | 0.238       | 0.259    | 10/14/2022 14:08 | <a href="#">WG1933262</a> |
| (T) Barium-133 | 89.4   |           |             | 30.0-143 | 10/14/2022 14:08 | <a href="#">WG1933262</a> |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-228  | 1.42   |           | 0.217       | 0.579    | 10/21/2022 14:45 | <a href="#">WG1941696</a> |
| (T) Barium  | 105    |           |             | 30.0-143 | 10/21/2022 14:45 | <a href="#">WG1941696</a> |
| (T) Yttrium | 105    |           |             | 30.0-136 | 10/21/2022 14:45 | <a href="#">WG1941696</a> |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch                     |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |                           |
| Combined Radium | 2.31   |           | 0.410       | 0.607 | 10/21/2022 14:45 | <a href="#">WG1933262</a> |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-226     | 0.884  |           | 0.348       | 0.182    | 10/14/2022 14:08 | <a href="#">WG1933262</a> |
| (T) Barium-133 | 91.5   |           |             | 30.0-143 | 10/14/2022 14:08 | <a href="#">WG1933262</a> |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-228  | 1.01   |           | 0.226       | 0.627    | 10/21/2022 14:45 | <a href="#">WG1941696</a> |
| (T) Barium  | 99.5   |           |             | 30.0-143 | 10/21/2022 14:45 | <a href="#">WG1941696</a> |
| (T) Yttrium | 100    |           |             | 30.0-136 | 10/21/2022 14:45 | <a href="#">WG1941696</a> |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch                     |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |                           |
| Combined Radium | 1.01   |           | 0.272       | 0.701 | 10/21/2022 14:45 | <a href="#">WG1933262</a> |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier         | Uncertainty | MDA      | Analysis Date    | Batch                     |
|----------------|--------|-------------------|-------------|----------|------------------|---------------------------|
|                | pCi/l  |                   | + / -       | pCi/l    | date / time      |                           |
| RADIUM-226     | 0.000  | <a href="#">U</a> | 0.151       | 0.313    | 10/14/2022 14:08 | <a href="#">WG1933262</a> |
| (T) Barium-133 | 93.6   |                   |             | 30.0-143 | 10/14/2022 14:08 | <a href="#">WG1933262</a> |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc



Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-228  | 2.90   |           | 0.236       | 0.560    | 10/21/2022 14:45 | <a href="#">WG1941696</a> |
| (T) Barium  | 94.7   |           |             | 30.0-143 | 10/21/2022 14:45 | <a href="#">WG1941696</a> |
| (T) Yttrium | 107    |           |             | 30.0-136 | 10/21/2022 14:45 | <a href="#">WG1941696</a> |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch                     |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |                           |
| Combined Radium | 3.06   |           | 0.321       | 0.641 | 10/21/2022 14:45 | <a href="#">WG1933262</a> |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-226     | 0.167  | J         | 0.218       | 0.311    | 10/14/2022 14:08 | <a href="#">WG1933262</a> |
| (T) Barium-133 | 90.2   |           |             | 30.0-143 | 10/14/2022 14:08 | <a href="#">WG1933262</a> |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|-------------|--------|-----------|-------------|----------|------------------|-----------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-228  | -0.530 | U         | 0.242       | 0.466    | 10/25/2022 10:45 | WG1943849 |
| (T) Barium  | 95.6   |           |             | 30.0-143 | 10/25/2022 10:45 | WG1943849 |
| (T) Yttrium | 95.7   |           |             | 30.0-136 | 10/25/2022 10:45 | WG1943849 |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch     |
|-----------------|--------|-----------|-------------|-------|------------------|-----------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |           |
| Combined Radium | 0.249  | J         | 0.332       | 0.541 | 10/25/2022 10:45 | WG1933262 |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|----------------|--------|-----------|-------------|----------|------------------|-----------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-226     | 0.249  | J         | 0.227       | 0.274    | 10/14/2022 14:08 | WG1933262 |
| (T) Barium-133 | 94.2   |           |             | 30.0-143 | 10/14/2022 14:08 | WG1933262 |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|-------------|--------|-----------|-------------|----------|------------------|-----------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-228  | 0.301  | J         | 0.214       | 0.390    | 10/25/2022 10:45 | WG1943849 |
| (T) Barium  | 96.2   |           |             | 30.0-143 | 10/25/2022 10:45 | WG1943849 |
| (T) Yttrium | 102    |           |             | 30.0-136 | 10/25/2022 10:45 | WG1943849 |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch     |
|-----------------|--------|-----------|-------------|-------|------------------|-----------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |           |
| Combined Radium | 0.474  | J         | 0.293       | 0.475 | 10/25/2022 10:45 | WG1933262 |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|----------------|--------|-----------|-------------|----------|------------------|-----------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-226     | 0.173  | J         | 0.200       | 0.272    | 10/14/2022 14:08 | WG1933262 |
| (T) Barium-133 | 85.6   |           |             | 30.0-143 | 10/14/2022 14:08 | WG1933262 |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-228  | 0.401  |           | 0.189       | 0.339    | 10/25/2022 10:45 | <a href="#">WG1943849</a> |
| (T) Barium  | 97.4   |           |             | 30.0-143 | 10/25/2022 10:45 | <a href="#">WG1943849</a> |
| (T) Yttrium | 97.0   |           |             | 30.0-136 | 10/25/2022 10:45 | <a href="#">WG1943849</a> |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch                     |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |                           |
| Combined Radium | 0.538  |           | 0.274       | 0.453 | 10/25/2022 10:45 | <a href="#">WG1933262</a> |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-226     | 0.136  | J         | 0.199       | 0.300    | 10/14/2022 14:08 | <a href="#">WG1933262</a> |
| (T) Barium-133 | 77.6   |           |             | 30.0-143 | 10/14/2022 14:08 | <a href="#">WG1933262</a> |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|-------------|--------|-----------|-------------|----------|------------------|-----------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-228  | 0.314  | J         | 0.199       | 0.362    | 10/25/2022 10:45 | WG1943849 |
| (T) Barium  | 92.3   |           |             | 30.0-143 | 10/25/2022 10:45 | WG1943849 |
| (T) Yttrium | 102    |           |             | 30.0-136 | 10/25/2022 10:45 | WG1943849 |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch     |
|-----------------|--------|-----------|-------------|-------|------------------|-----------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |           |
| Combined Radium | 0.505  |           | 0.310       | 0.492 | 10/25/2022 10:45 | WG1933262 |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|----------------|--------|-----------|-------------|----------|------------------|-----------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-226     | 0.192  | J         | 0.238       | 0.333    | 10/14/2022 14:08 | WG1933262 |
| (T) Barium-133 | 83.0   |           |             | 30.0-143 | 10/14/2022 14:08 | WG1933262 |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-228  | 0.489  |           | 0.199       | 0.355    | 10/25/2022 10:45 | <a href="#">WG1943849</a> |
| (T) Barium  | 99.0   |           |             | 30.0-143 | 10/25/2022 10:45 | <a href="#">WG1943849</a> |
| (T) Yttrium | 98.8   |           |             | 30.0-136 | 10/25/2022 10:45 | <a href="#">WG1943849</a> |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch                     |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |                           |
| Combined Radium | 0.559  |           | 0.226       | 0.392 | 10/25/2022 10:45 | <a href="#">WG1933262</a> |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-226     | 0.0694 | J         | 0.108       | 0.167    | 10/14/2022 14:08 | <a href="#">WG1933262</a> |
| (T) Barium-133 | 95.9   |           |             | 30.0-143 | 10/14/2022 14:08 | <a href="#">WG1933262</a> |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|-------------|--------|-----------|-------------|----------|------------------|-----------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-228  | -0.388 | U         | 0.225       | 0.432    | 10/25/2022 10:45 | WG1943849 |
| (T) Barium  | 103    |           |             | 30.0-143 | 10/25/2022 10:45 | WG1943849 |
| (T) Yttrium | 94.0   |           |             | 30.0-136 | 10/25/2022 10:45 | WG1943849 |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch     |
|-----------------|--------|-----------|-------------|-------|------------------|-----------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |           |
| Combined Radium | 0.124  | U         | 0.276       | 0.488 | 10/25/2022 10:45 | WG1933262 |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|----------------|--------|-----------|-------------|----------|------------------|-----------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-226     | 0.124  | J         | 0.159       | 0.226    | 10/14/2022 14:08 | WG1933262 |
| (T) Barium-133 | 94.1   |           |             | 30.0-143 | 10/14/2022 14:08 | WG1933262 |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-228  | 0.451  |           | 0.195       | 0.349    | 10/25/2022 10:45 | <a href="#">WG1943849</a> |
| (T) Barium  | 99.3   |           |             | 30.0-143 | 10/25/2022 10:45 | <a href="#">WG1943849</a> |
| (T) Yttrium | 112    |           |             | 30.0-136 | 10/25/2022 10:45 | <a href="#">WG1943849</a> |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch                     |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |                           |
| Combined Radium | 0.880  |           | 0.309       | 0.403 | 10/25/2022 10:45 | <a href="#">WG1933261</a> |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-226     | 0.429  |           | 0.240       | 0.202    | 10/07/2022 12:15 | <a href="#">WG1933261</a> |
| (T) Barium-133 | 106    |           |             | 30.0-143 | 10/07/2022 12:15 | <a href="#">WG1933261</a> |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc



Radiochemistry by Method 904/9320

| Analyte     | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
|             | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-228  | 0.745  |           | 0.205       | 0.358    | 10/25/2022 10:45 | <a href="#">WG1943849</a> |
| (T) Barium  | 96.6   |           |             | 30.0-143 | 10/25/2022 10:45 | <a href="#">WG1943849</a> |
| (T) Yttrium | 104    |           |             | 30.0-136 | 10/25/2022 10:45 | <a href="#">WG1943849</a> |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch                     |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |                           |
| Combined Radium | 1.68   |           | 0.410       | 0.431 | 10/25/2022 10:45 | <a href="#">WG1933261</a> |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch                     |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |                           |
| RADIUM-226     | 0.932  |           | 0.355       | 0.240    | 10/07/2022 12:15 | <a href="#">WG1933261</a> |
| (T) Barium-133 | 111    |           |             | 30.0-143 | 10/07/2022 12:15 | <a href="#">WG1933261</a> |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Radiochemistry by Method 904/9320

| Analyte     | Result  | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|-------------|---------|-----------|-------------|----------|------------------|-----------|
|             | pCi/l   |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-228  | -0.0296 | U         | 0.195       | 0.366    | 10/25/2022 10:45 | WG1943849 |
| (T) Barium  | 102     |           |             | 30.0-143 | 10/25/2022 10:45 | WG1943849 |
| (T) Yttrium | 104     |           |             | 30.0-136 | 10/25/2022 10:45 | WG1943849 |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

| Analyte         | Result | Qualifier | Uncertainty | MDA   | Analysis Date    | Batch     |
|-----------------|--------|-----------|-------------|-------|------------------|-----------|
|                 | pCi/l  |           | + / -       | pCi/l | date / time      |           |
| Combined Radium | 0.0434 | U         | 0.269       | 0.491 | 10/25/2022 10:45 | WG1933261 |

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

| Analyte        | Result | Qualifier | Uncertainty | MDA      | Analysis Date    | Batch     |
|----------------|--------|-----------|-------------|----------|------------------|-----------|
|                | pCi/l  |           | + / -       | pCi/l    | date / time      |           |
| RADIUM-226     | 0.0434 | U         | 0.185       | 0.327    | 10/07/2022 12:15 | WG1933261 |
| (T) Barium-133 | 106    |           |             | 30.0-143 | 10/07/2022 12:15 | WG1933261 |

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R3852876-5 10/25/22 10:45

| Analyte     | MB Result<br>pCi/l | MB Qualifier | MB Uncertainty<br>+ / - | MB MDA<br>pCi/l |
|-------------|--------------------|--------------|-------------------------|-----------------|
| Radium-228  | -0.253             | <u>U</u>     | 0.169                   | 0.321           |
| (T) Barium  | 103                |              | 103                     |                 |
| (T) Yttrium | 104                |              | 104                     |                 |

L1537975-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1537975-04 10/21/22 12:18 • (DUP) R3852876-4 10/21/22 12:18

| Analyte     | Original Result<br>pCi/l | Original Uncertainty<br>+ / - | Original MDA<br>pCi/l | DUP Result<br>pCi/l | DUP Uncertainty<br>+ / - | DUP MDA<br>pCi/l | Dilution | DUP RPD<br>% | DUP RER | DUP Qualifier | DUP RPD Limits<br>% | DUP RER Limit |
|-------------|--------------------------|-------------------------------|-----------------------|---------------------|--------------------------|------------------|----------|--------------|---------|---------------|---------------------|---------------|
| Radium-228  | 1.33                     | 0.208                         | 0.557                 | 2.00                | 0.302                    | 0.557            | 1        | 40.3         | 1.83    |               | 20                  | 3             |
| (T) Barium  | 90.7                     |                               |                       | 101                 | 101                      |                  |          |              |         |               |                     |               |
| (T) Yttrium | 103                      |                               |                       | 104                 | 104                      |                  |          |              |         |               |                     |               |

Laboratory Control Sample (LCS)

(LCS) R3852876-1 10/21/22 12:18

| Analyte     | Spike Amount<br>pCi/l | LCS Result<br>pCi/l | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|-------------|-----------------------|---------------------|---------------|------------------|---------------|
| Radium-228  | 5.00                  | 5.80                | 116           | 80.0-120         |               |
| (T) Barium  |                       |                     | 112           |                  |               |
| (T) Yttrium |                       |                     | 103           |                  |               |

L1536453-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1536453-20 10/21/22 12:18 • (MS) R3852876-2 10/21/22 12:18 • (MSD) R3852876-3 10/21/22 12:18

| Analyte     | Spike Amount<br>pCi/l | Original Result<br>pCi/l | MS Result<br>pCi/l | MSD Result<br>pCi/l | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | MS RER | RPD Limits<br>% |
|-------------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|--------|-----------------|
| Radium-228  | 10.0                  | 1.31                     | 10.6               | 11.6                | 92.5         | 103           | 1        | 70.0-130         |              |               | 9.39     |        | 20              |
| (T) Barium  |                       | 95.4                     |                    |                     | 114          | 111           |          |                  |              |               |          |        |                 |
| (T) Yttrium |                       | 98.3                     |                    |                     | 103          | 106           |          |                  |              |               |          |        |                 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3852878-1 10/25/22 10:45

| Analyte     | MB Result<br>pCi/l | MB Qualifier | MB Uncertainty<br>+ / - | MB MDA<br>pCi/l |
|-------------|--------------------|--------------|-------------------------|-----------------|
| Radium-228  | -0.586             | <u>U</u>     | 0.182                   | 0.356           |
| (T) Barium  | 89.2               |              | 89.2                    |                 |
| (T) Yttrium | 96.3               |              | 96.3                    |                 |

L1537975-21 Original Sample (OS) • Duplicate (DUP)

(OS) L1537975-21 10/25/22 10:45 • (DUP) R3852878-5 10/25/22 10:45

| Analyte     | Original Result<br>pCi/l | Original Uncertainty<br>+ / - | Original MDA<br>pCi/l | DUP Result<br>pCi/l | DUP Uncertainty<br>+ / - | DUP MDA<br>pCi/l | Dilution | DUP RPD<br>% | DUP RER | DUP Qualifier | DUP RPD Limits<br>% | DUP RER Limit |
|-------------|--------------------------|-------------------------------|-----------------------|---------------------|--------------------------|------------------|----------|--------------|---------|---------------|---------------------|---------------|
| Radium-228  | 0.451                    | 0.195                         | 0.349                 | 0.188               | 0.302                    | 0.349            | 1        | 82.2         | 0.731   | <u>U</u>      | 20                  | 3             |
| (T) Barium  | 99.3                     |                               |                       | 97.0                | 97.0                     |                  |          |              |         |               |                     |               |
| (T) Yttrium | 112                      |                               |                       | 107                 | 107                      |                  |          |              |         |               |                     |               |

Laboratory Control Sample (LCS)

(LCS) R3852878-2 10/25/22 10:45

| Analyte     | Spike Amount<br>pCi/l | LCS Result<br>pCi/l | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|-------------|-----------------------|---------------------|---------------|------------------|---------------|
| Radium-228  | 5.00                  | 4.73                | 94.5          | 80.0-120         |               |
| (T) Barium  |                       |                     | 101           |                  |               |
| (T) Yttrium |                       |                     | 102           |                  |               |

L1538411-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1538411-05 10/25/22 10:45 • (MS) R3852878-3 10/25/22 10:45 • (MSD) R3852878-4 10/25/22 10:45

| Analyte     | Spike Amount<br>pCi/l | Original Result<br>pCi/l | MS Result<br>pCi/l | MSD Result<br>pCi/l | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | MS RER | RPD Limits<br>% |
|-------------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|--------|-----------------|
| Radium-228  | 10.0                  | -0.354                   | 8.43               | 10.0                | 84.3         | 100           | 1        | 70.0-130         |              |               | 17.3     |        | 20              |
| (T) Barium  |                       | 91.6                     |                    |                     | 101          | 90.7          |          |                  |              |               |          |        |                 |
| (T) Yttrium |                       | 103                      |                    |                     | 100          | 98.6          |          |                  |              |               |          |        |                 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3846799-1 10/07/22 12:15

| Analyte        | MB Result<br>pCi/l | MB Qualifier | MB Uncertainty<br>+ / - | MB MDA<br>pCi/l |
|----------------|--------------------|--------------|-------------------------|-----------------|
| Radium-226     | 0.00347            | <u>U</u>     | 0.0323                  | 0.0656          |
| (T) Barium-133 | 108                |              | 108                     |                 |

L1534671-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1534671-13 10/07/22 12:15 • (DUP) R3846799-5 10/07/22 12:15

| Analyte        | Original Result<br>pCi/l | Original Uncertainty<br>+ / - | Original MDA<br>pCi/l | DUP Result<br>pCi/l | DUP Uncertainty<br>+ / - | DUP MDA<br>pCi/l | Dilution | DUP RPD<br>% | DUP RER | DUP Qualifier | DUP RPD Limits<br>% | DUP RER Limit |
|----------------|--------------------------|-------------------------------|-----------------------|---------------------|--------------------------|------------------|----------|--------------|---------|---------------|---------------------|---------------|
| Radium-226     | 0.836                    | 0.341                         | 0.221                 | 0.0365              | 0.160                    | 0.221            | 1        | 183          | 2.12    | <u>U</u>      | 20                  | 3             |
| (T) Barium-133 | 100                      |                               |                       | 109                 | 109                      |                  |          |              |         |               |                     |               |

Laboratory Control Sample (LCS)

(LCS) R3846799-2 10/07/22 12:15

| Analyte        | Spike Amount<br>pCi/l | LCS Result<br>pCi/l | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|----------------|-----------------------|---------------------|---------------|------------------|---------------|
| Radium-226     | 5.02                  | 4.67                | 93.1          | 80.0-120         |               |
| (T) Barium-133 |                       |                     | 107           |                  |               |

L1539734-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1539734-07 10/07/22 12:15 • (MS) R3846799-3 10/07/22 12:15 • (MSD) R3846799-4 10/07/22 12:15

| Analyte        | Spike Amount<br>pCi/l | Original Result<br>pCi/l | MS Result<br>pCi/l | MSD Result<br>pCi/l | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | MS RER | RPD Limits<br>% |
|----------------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|--------|-----------------|
| Radium-226     | 20.0                  | 0.00615                  | 16.4               | 15.8                | 82.0         | 78.9          | 1        | 75.0-125         |              |               | 3.91     |        | 20              |
| (T) Barium-133 |                       | 108                      |                    |                     | 105          | 98.4          |          |                  |              |               |          |        |                 |

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

Method Blank (MB)

(MB) R3850352-1 10/14/22 14:08

| Analyte        | MB Result<br>pCi/l | MB Qualifier | MB Uncertainty<br>+ / - | MB MDA<br>pCi/l |
|----------------|--------------------|--------------|-------------------------|-----------------|
| Radium-226     | 0.0233             | <u>U</u>     | 0.0499                  | 0.0829          |
| (T) Barium-133 | 77.2               |              | 77.2                    |                 |

L1537975-20 Original Sample (OS) • Duplicate (DUP)

(OS) L1537975-20 10/14/22 14:08 • (DUP) R3850352-5 10/14/22 14:08

| Analyte        | Original Result<br>pCi/l | Original Uncertainty<br>+ / - | Original MDA<br>pCi/l | DUP Result<br>pCi/l | DUP Uncertainty<br>+ / - | DUP MDA<br>pCi/l | Dilution | DUP RPD<br>% | DUP RER | DUP Qualifier | DUP RPD Limits<br>% | DUP RER Limit |
|----------------|--------------------------|-------------------------------|-----------------------|---------------------|--------------------------|------------------|----------|--------------|---------|---------------|---------------------|---------------|
| Radium-226     | 0.124                    | 0.159                         | 0.226                 | 0.316               | 0.208                    | 0.226            | 1        | 87.5         | 0.735   |               | 20                  | 3             |
| (T) Barium-133 | 94.1                     |                               |                       | 88.2                | 88.2                     |                  |          |              |         |               |                     |               |

Laboratory Control Sample (LCS)

(LCS) R3850352-2 10/14/22 14:08

| Analyte        | Spike Amount<br>pCi/l | LCS Result<br>pCi/l | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|----------------|-----------------------|---------------------|---------------|------------------|---------------|
| Radium-226     | 5.02                  | 4.93                | 98.2          | 80.0-120         |               |
| (T) Barium-133 |                       |                     | 88.4          |                  |               |

L1537975-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1537975-01 10/14/22 14:08 • (MS) R3850352-3 10/14/22 14:08 • (MSD) R3850352-4 10/14/22 14:08

| Analyte        | Spike Amount<br>pCi/l | Original Result<br>pCi/l | MS Result<br>pCi/l | MSD Result<br>pCi/l | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | MS RER | RPD Limits<br>% |
|----------------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|--------|-----------------|
| Radium-226     | 20.0                  | -0.0331                  | 22.4               | 21.8                | 112          | 109           | 1        | 75.0-125         |              |               | 2.49     |        | 20              |
| (T) Barium-133 |                       | 76.6                     |                    |                     | 86.5         | 87.0          |          |                  |              |               |          |        |                 |

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

### Abbreviations and Definitions

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MDA                          | Minimum Detectable Activity.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Rec.                         | Recovery.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| RER                          | Replicate Error Ratio.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| RPD                          | Relative Percent Difference.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| SDG                          | Sample Delivery Group.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| (T)                          | Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.                                                                                                                                                                                                                                                                                                                           |
| Analyte                      | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.                                                                                                                                                                                                                                                                                                                                                                                                 |
| Dilution                     | If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.                                                                                    |
| Limits                       | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.                                                                                                                                                                                                                                                      |
| Original Sample              | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.                                                                                                                                                                                                                                                                                                                            |
| Qualifier                    | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.                                                                                                                                                                  |
| Result                       | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Uncertainty (Radiochemistry) | Confidence level of 2 sigma.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Case Narrative (Cn)          | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.                                                                                                                                                                          |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.                                                                                                                                                                                              |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.                                                              |
| Sample Results (Sr)          | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.                                                                                                                                                                                             |
| Sample Summary (Ss)          | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.                                                                                                                                                                                                                                                                                                                                                            |

### Qualifier Description

|   |                                                                                     |
|---|-------------------------------------------------------------------------------------|
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| U | Below Detectable Limits: Indicates that the analyte was not detected.               |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

# ACCREDITATIONS & LOCATIONS

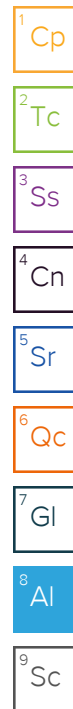
## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

|                                |             |                             |                  |
|--------------------------------|-------------|-----------------------------|------------------|
| Alabama                        | 40660       | Nebraska                    | NE-OS-15-05      |
| Alaska                         | 17-026      | Nevada                      | TN000032021-1    |
| Arizona                        | AZ0612      | New Hampshire               | 2975             |
| Arkansas                       | 88-0469     | New Jersey--NELAP           | TN002            |
| California                     | 2932        | New Mexico <sup>1</sup>     | TN00003          |
| Colorado                       | TN00003     | New York                    | 11742            |
| Connecticut                    | PH-0197     | North Carolina              | Env375           |
| Florida                        | E87487      | North Carolina <sup>1</sup> | DW21704          |
| Georgia                        | NELAP       | North Carolina <sup>3</sup> | 41               |
| Georgia <sup>1</sup>           | 923         | North Dakota                | R-140            |
| Idaho                          | TN00003     | Ohio--VAP                   | CL0069           |
| Illinois                       | 200008      | Oklahoma                    | 9915             |
| Indiana                        | C-TN-01     | Oregon                      | TN200002         |
| Iowa                           | 364         | Pennsylvania                | 68-02979         |
| Kansas                         | E-10277     | Rhode Island                | LA000356         |
| Kentucky <sup>1 6</sup>        | KY90010     | South Carolina              | 84004002         |
| Kentucky <sup>2</sup>          | 16          | South Dakota                | n/a              |
| Louisiana                      | AI30792     | Tennessee <sup>1 4</sup>    | 2006             |
| Louisiana                      | LA018       | Texas                       | T104704245-20-18 |
| Maine                          | TN00003     | Texas <sup>5</sup>          | LAB0152          |
| Maryland                       | 324         | Utah                        | TN000032021-11   |
| Massachusetts                  | M-TN003     | Vermont                     | VT2006           |
| Michigan                       | 9958        | Virginia                    | 110033           |
| Minnesota                      | 047-999-395 | Washington                  | C847             |
| Mississippi                    | TN00003     | West Virginia               | 233              |
| Missouri                       | 340         | Wisconsin                   | 998093910        |
| Montana                        | CERT0086    | Wyoming                     | A2LA             |
| A2LA -- ISO 17025              | 1461.01     | AIHA-LAP,LLC EMLAP          | 100789           |
| A2LA -- ISO 17025 <sup>5</sup> | 1461.02     | DOD                         | 1461.01          |
| Canada                         | 1461.01     | USDA                        | P330-15-00234    |
| EPA--Crypto                    | TN00003     |                             |                  |

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.





# TEKLAB, INC. Chain of Custody

Pg \_\_\_\_ of \_\_\_\_

1033

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples sealed? ☐ YES ☒ NO With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☒ Field

Teklab Inc

5445 Horseshoe Lake Road  
Collinsville, IL 62234

Cooler Temp:

Sampler:

QC Level:

Project#

WO-#22082600 22091260

Contact: Liz Hurley

Email: ehurley@teklabinc.com

Requested Due Date: NTAT

Billing/PO: 33354

Phone: (618)344-1004

Comments: Please Issue reports and invoices via email only

Please analyze Radium (226, 228) by method EPA901.1 on your standard TAT.

Batch QC is required for all analyses requested. Sample collected in (state):

## PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately. Any changes to analysis/methods must be approved by Teklab, Inc.

| Lab Use    | Sample ID    | Sample Date/Time | Preservative | Matrix  | Isotopic Radium |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------------|--------------|------------------|--------------|---------|-----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 1537975-01 | 22081260-001 | 9/14/22 1309     | HNO3         | Aqueous |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 02         | 22081260-002 | 9/14/22 1721     | HNO3         | Aqueous |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03         | 22081260-003 | 9/14/22 0937     | HNO3         | Aqueous |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 07         | 22081260-004 | 9/14/22 0937     | HNO3         | Aqueous |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 05         | 22081260-005 | 9/14/22 0909     | HNO3         | Aqueous |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06         | 22081260-006 | 9/14/22 1105     | HNO3         | Aqueous |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 07         | 22081260-007 | 9/14/22 1119     | HNO3         | Aqueous |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 08         | 22081260-008 | 9/14/22 1325     | HNO3         | Aqueous |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09         | 22081260-009 | 9/14/22 1344     | HNO3         | Aqueous |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10         | 22081260-010 | 9/13/22 0922     | HNO3         | Aqueous |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11         | 22081260-011 | 9/13/22 1112     | HNO3         | Aqueous |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| *Relinquished By | Date/Time | Received By | Date/Time    |
|------------------|-----------|-------------|--------------|
|                  | 9.19.22   |             | 9/22/22 0915 |
|                  |           |             |              |
|                  |           |             |              |
|                  |           |             |              |

**TEKLAB, INC. Chain of Custody**

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☒ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☒ Field

Teklab Inc

5445 Horseshoe Lake Road  
Collinsville, IL 62234Cooler Temp: Sampler: QC Level: 

Project#

Contact: Email: Requested Due Date: Billing/PO: Phone: 

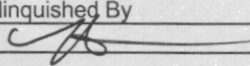
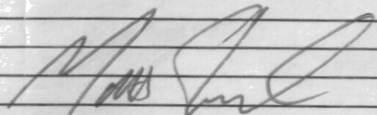
Comments:

**PLEASE NOTE:**

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Any changes to analysis/methods must be approved by Teklab, Inc.

| Lab Use    | Sample ID    | Sample Date/Time | Preservative | Matrix  | Isotopic Radium                     |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |
|------------|--------------|------------------|--------------|---------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1537975-12 | 22081260-012 | 9/13/22 1131     | HNO3         | Aqueous | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 13         | 22081260-013 | 9/13/22 1027     | HNO3         | Aqueous | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 14         | 22081260-014 | 9/13/22 1253     | HNO3         | Aqueous | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 15         | 22081260-015 | 9/13/22 1337     | HNO3         | Aqueous | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 16         | 22081260-017 | 9/14/22 0852     | HNO3         | Aqueous | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 17         | 22081260-018 | 9/14/22 1234     | HNO3         | Aqueous | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 18         | 22081260-019 | 9/14/22 1044     | HNO3         | Aqueous | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 19         | 22081260-020 | 9/14/22 1142     | HNO3         | Aqueous | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 20         | 22081260-021 | 9/13/22 1048     | HNO3         | Aqueous | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 21         | 22081260-022 | 9/13/22 1203     | HNO3         | Aqueous | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 22         | 22081260-023 | 9/13/22 0956     | HNO3         | Aqueous | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

| *Relinquished By                                                                    | Date/Time | Received By                                                                           | Date/Time    |
|-------------------------------------------------------------------------------------|-----------|---------------------------------------------------------------------------------------|--------------|
|  | 9-14-22   |  | 9/22/22 0915 |
|                                                                                     |           |                                                                                       |              |
|                                                                                     |           |                                                                                       |              |
|                                                                                     |           |                                                                                       |              |



## TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Freeze Sample: ☐ YES ☐ NO With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☒ Field

**Teklab Inc**  
5445 Horseshoe Lake Road  
Collinsville, IL 62234

Cooler Temp: 

Sampler: Client

QC Level: 3

|          |              |
|----------|--------------|
| Project# | WO #22082660 |
|----------|--------------|

Contact: Liz Hurley

Email: ehurley@teklabinc.com

Requested Due Date: NTAT

Billing/PO: 33354

Phone: (618)344-1004

|           |                                                  |
|-----------|--------------------------------------------------|
| Comments: | Please Issue reports and invoices via email only |
|-----------|--------------------------------------------------|

Please analyze Radium (226, 228) by method EPA901.1 on your standard TAT.

Batch QC is required for all analyses requested. Sample collected in (state):

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Any changes to analysis/methods must be approved by Teklab, Inc.

[illegible]

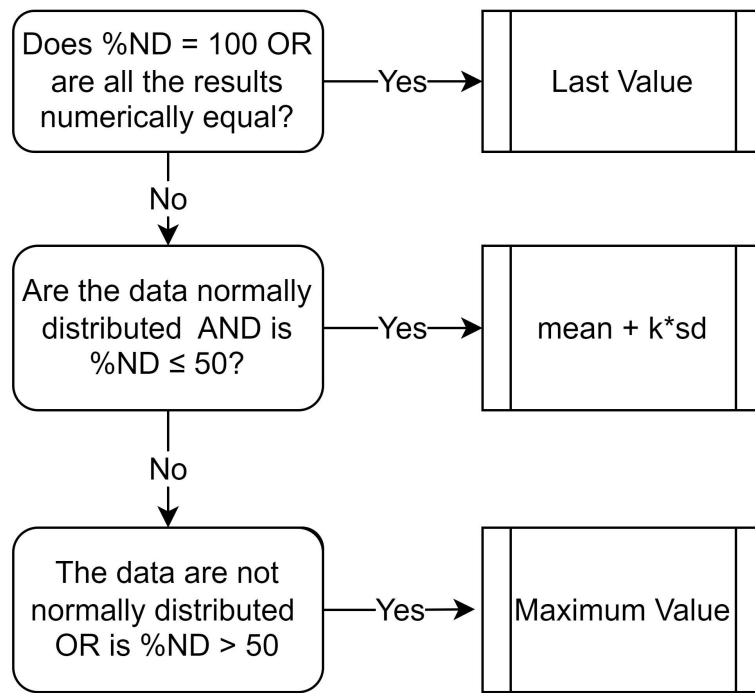
|                                                                                     |           |                                                                                       |               |
|-------------------------------------------------------------------------------------|-----------|---------------------------------------------------------------------------------------|---------------|
| *Relinquished By                                                                    | Date/Time | Received By                                                                           | Date/Time     |
|  | 4-19-22   |  | 09/22/22 0945 |
|                                                                                     |           |                                                                                       |               |
|                                                                                     |           |                                                                                       |               |
|                                                                                     |           |                                                                                       |               |

| Tracking<br>Numbers | Temperature                     |
|---------------------|---------------------------------|
| 58215898 1180       | <del>SAAL</del><br>26.1 f0=26.1 |
| 1206                | 29.1 f0=28.1                    |
| 1191                | 26.4 f0=26.4                    |
|                     |                                 |
|                     |                                 |
|                     |                                 |

## **APPENDIX B**

### **STATISTICAL METHODOLOGY FOR DETERMINATION OF BACKGROUND VALUES**

| Notes                                                       |
|-------------------------------------------------------------|
| %ND = Percent non-detected samples                          |
| sd = standard deviation                                     |
| k = kappa for tolerance limit (95% confidence/95% coverage) |



**APPENDIX C**  
**STATISTICAL METHODOLOGY FOR DETERMINATION OF**  
**STATISTICALLY SIGNIFICANT LEVELS**

| Notes                                           |
|-------------------------------------------------|
| %ND = Percent non-detected samples              |
| Future Median = Median of most recent 3 samples |
| MK = Mann-Kendall Trend Test                    |
| <u>Alpha Levels</u>                             |
| Normality = 0.01                                |
| MK Trend = 0.01                                 |
| Residuals = 0.01                                |
| Confidence Interval = 0.01                      |

