TECHNICAL MEMORANDUM

To:	**Nevada Environmental Response Trust**
Cc:	Nevada Division of Environmental Protection United States Environmental Protection Agency
From:	Chris Hayes and Dana Grady
Date:	January 17, 2025
Subject:	**Unit 4 Source Area In-Situ Bioremediation Treatability Study Monthly Progress Report**

At the direction of the Nevada Environmental Response Trust (NERT or Trust), Tetra Tech, Inc. (Tetra Tech) has prepared this memorandum to summarize Tetra Tech's progress during November 2024 toward successfully implementing the Unit 4 Source Area In-Situ Bioremediation (ISB) Treatability Study.

Task Progress Update: November 2024

Task M21 – Unit 4 Source Area ISB Treatability Study

- Current Status
  - Operations and maintenance activities for Phase 2 of the Unit 4 Source Area ISB Treatability Study began on September 8, 2022 and were completed on April 9, 2024. The treatability study, which was divided into two areas denoted as Area 1 and Area 2, was implemented in phases. For Area 1, the first phase began on September 8, 2022 and consisted of a total dissolved solids (TDS) reduction period to reduce the TDS concentrations in Area 1 deep below the TDS goal of 21,000 mg/L. The second phase for Area 1, which included carbon substrate injections for application of ISB into Area 1 intermediate and deep zones, was initiated on April 6, 2023. For Area 2, an initial TDS-reduction phase was not required. As a result, carbon substrate injections for application of ISB into Area 2 intermediate and deep zones was performed for the entire duration of treatability study operations from September 2022 to April 2024. Following system shutdown, system decommissioning activities were completed in May 2024. A layout map and construction details of all injection, monitoring, and extraction wells are provided on **Figure 1** and in **Table 1**, respectively.
  - Following system shut down in April 2024, the treatability study transitioned into the post-treatment evaluation phase to assess long-term changes in contaminant concentrations and geochemical conditions following system shut down. The post-treatment effectiveness monitoring program consisted of two quarterly sampling events. The first post-treatment effectiveness monitoring event was conducted from June 10 through June 20, 2024, with the results presented in the previous August 2024 monthly progress report. The second and final post-treatment effectiveness monitoring event was conducted from September 18 through September 27, 2024.

Tetra Tech, Inc.
150 S. 4th Street, Unit A, Henderson, NV 89015
Tel 702-854-2295 tetratech.com

Available unvalidated groundwater analytical results from the baseline sampling event and subsequent monitoring events performed from September 2022 to September 2024 are presented in **Table 2**. The September 2024 groundwater results are summarized below. Final validated data will be provided in the final treatability study results report.

- Area 1 Intermediate – The September 2024 sampling event was conducted approximately six months after the conclusion of ISB injections into Area 1 and included collection of groundwater samples from two former intermediate extraction wells, two former intermediate injection wells, and ten monitoring wells, including three monitoring wells located immediately within the Area 1 intermediate study area, four monitoring wells around the perimeter of the Area 1 intermediate study area, and three monitoring wells screened in the overlying shallow zone. Groundwater analytical results from the September 2024 sampling event are summarized below.
    - Perchlorate concentrations in the samples collected from three of the four former intermediate injection/extraction wells U4-E-01I, U4-E-04I, and U4-E-05I continued to be less than the sample detection limit despite six months having passed since the treatability study ended. Perchlorate concentrations in the groundwater sample collected from the remaining former extraction well U4-E-02I indicated a concentration increase from 104 mg/L in June 2024 to 173 mg/L in September 2024. However, the September 2024 concentration is 60 percent less than the April 2022 baseline concentration of 428 mg/L at this location. Perchlorate concentrations in groundwater samples collected from four of the seven intermediate monitoring wells located within or around the perimeter of the Area 1 intermediate treatment zone (namely, U4-MW-01I, U4-MW-03I, U4-MW-06I, and U4-MW-07I) decreased compared to the previous sampling event. For example, perchlorate concentrations in the groundwater sample collected from U4-MW-03I decreased from 461 mg/L in June 2024 to 34.3 mg/L in September 2024, which represents a reduction of 96 percent compared to pre-ISB baseline concentrations in March 2023 and the lowest concentration reported at this location. Perchlorate concentrations in the groundwater samples collected from the remaining three intermediate monitoring wells located within or around the perimeter of the Area 1 intermediate treatment zone were generally similar to or higher than the previous June 2024 sampling event. Lastly, perchlorate concentrations in groundwater samples collected from all three monitoring wells screened in the overlying shallow zone continued to indicate reductions of greater than 93 percent. Of these reductions, perchlorate concentrations of 0.0149 mg/L and 3.77 mg/L were measured in the groundwater samples collected from monitoring wells U4-MW-01S and U4-MW-03S, respectively, which represent the lowest measured to date in samples collected from these locations.
    - Chlorate concentrations in the samples collected from three of the four former intermediate injection/extraction wells (i.e., U4-E-01I, U4-E-04I, and U4-E-05I) continued to be less than the sample detection limit despite six months having passed since the treatability study ended. Of the samples collected from the three intermediate monitoring wells located immediately within Area 1, the greatest chlorate concentration reduction of 72 percent was observed in the groundwater sample

collected from monitoring well U4-MW-02I, with a chlorate concentration of 3,410 mg/L compared to a pre-ISB baseline concentration of 12,000 mg/L. In addition, the September 2024 concentration of 589 mg/L in the groundwater sample collected from monitoring well U4-MW-07I is significantly lower than the June 2024 concentration of 1,740 mg/L.

Chlorate concentrations in groundwater samples collected from intermediate perimeter monitoring wells generally showed similar concentrations to the March 2023 pre-ISB baseline concentrations. One exception to this was the chlorate concentration in the groundwater sample collected from U4-MW-03I, which reduced from 1,260 mg/L in June 2024 to 53.9 mg/L in September 2024, which represents a reduction of 99 percent compared to March 2023 pre-ISB baseline conditions. Lastly, groundwater samples collected from all three shallow monitoring wells (i.e., M-251-60, U4-MW-01S, and U4-MW-03S) indicated perchlorate concentration reductions of greater than 98 percent compared to March 2023 pre-ISB baseline concentrations. Groundwater samples collected from two of these shallow monitoring well locations reported the lowest chlorate concentrations measured since the start of ISB, one of which was less than sample detection limit.

- Nitrate concentrations in the samples collected from the four former intermediate injection/extraction wells U4-E-01I, U4-E-02I, U4-E-04I, and U4-E-05I generally increased compared to the previous June 2024 sampling event but remained below baseline concentrations. Nitrate concentration reductions in samples collected from all three intermediate monitoring wells located within the immediate vicinity of Area 1 (i.e., U4-MW-02I, U4-MW-05I, and U4-MW-07I) ranged from 63 percent to 77 percent compared to pre-ISB baseline concentrations. Nitrate concentrations in groundwater samples collected from six of the seven perimeter intermediate and shallow monitoring wells were below the sample detection limit of 0.884 mg/L.
- Results from groundwater samples collected from the four former intermediate injection/extraction wells (i.e., U4-E-01I, U4-E-02I, U4-E-04I, and U4-E-05I) and all three monitoring wells located in the immediate vicinity of the Area 1 intermediate treatment zone (i.e., U4-MW-02I, U4-MW-05I, and U4-MW-07I) continued to indicate significant hexavalent chromium reductions ranging from 91 percent to greater than 99 percent when compared to baseline concentrations. Results in groundwater samples collected from five of the seven intermediate perimeter and shallow monitoring wells indicated hexavalent chromium concentration reductions greater than 97 percent compared to the March 2023 pre-ISB baseline concentrations.
- TOC concentrations in groundwater samples collected from the three intermediate monitoring wells located in the immediate vicinity of Area 1 and former intermediate injection/extraction wells ranged from 22.4 mg/L to 7,780 mg/L in September 2024, which is substantially above baseline concentrations and indicates widespread carbon substrate distribution in the subsurface has been sustained 6 months after the completion of injection activities. TOC concentrations in groundwater samples collected

from five of the seven intermediate perimeter and shallow monitoring wells were notably elevated above the average baseline concentration of 1.6 mg/L, with the highest TOC concentration of 127 mg/L measured in the groundwater sample collected from shallow monitoring well M-251-60.

- Area 1 Deep – The September 2024 sampling event performed six months following the conclusion of ISB injections into Area 1 included the collection of groundwater samples from five former deep injection/extraction wells and 11 monitoring wells, including four monitoring wells located immediately within the Area 1 study area and six perimeter monitoring wells surrounding Area 1 screened in the targeted deep treatment interval or underlying deep zone (designated with “DD”), and one monitoring well screened in the underlying deep zone within Area 1 (namely, M-252). Groundwater analytical results from the September 2024 sampling event are summarized below.
  - Perchlorate concentrations in groundwater samples collected from the four monitoring wells located immediately within the Area 1 study area footprint (U4-MW-02D, U4-MW-05D, U4-MW-07D, and M-251-100) generally indicated similar concentrations to those measured in the samples collected during the previous June 2024 sampling event. When compared to April 2022 baseline concentrations prior to the start of the treatability study, results indicate perchlorate concentration reductions in groundwater samples collected from three of these monitoring wells ranging from 25 percent to 69 percent. Additionally, results indicated perchlorate concentration reductions less than sample detection limits in four of the five former injection/extraction wells. Perchlorate concentrations in groundwater samples collected from perimeter monitoring wells screened in either the deep or underlying deep zone were also similar to the previous June 2024 sampling event, with reductions of up to 78 percent compared to pre-ISB March 2023 baseline concentrations and up to 99 percent when compared to pre-treatability study baseline concentrations in April 2022.
  - Chlorate concentration trends were similar to perchlorate concentration trends. Chlorate concentrations were less than sample detection limit of 1.58 mg/L in all five former injection/extraction wells. Chlorate concentrations measured in groundwater samples collected from the four deep zone monitoring wells within Area 1, namely, U4-MW-02D, U4-MW-05D, U4-MW-07D, and M-251-100, were similar to or slightly higher than those observed during the previous June 2024 sampling event. Chlorate concentrations in groundwater samples collected from the three underlying deep monitoring wells M-252, U4-MW-01DD and U4-MW-03DD were the lowest concentrations measured to date in groundwater at these locations, with an average reduction of 66 percent compared to pre-ISB March 2023 baseline concentrations. Chlorate concentrations in groundwater collected from the remaining deep perimeter monitoring wells fluctuated but generally remained similar to the previous sampling events.
  - Nitrate concentration reductions were also generally similar to perchlorate and chlorate. Nitrate concentrations were less than sample detection limits in two of the five former injection/extraction wells.

Additionally, nitrate concentrations in groundwater collected from all four Area 1 deep zone monitoring wells (i.e., U4-MW-02D, U4-MW-05D, U4-MW-07D, and M-251-100) were less than the March 2023 pre-ISB baseline concentrations with reductions ranging from 38 percent to 77 percent. Nitrate concentration reductions in groundwater samples collected from six of the seven deep and underlying deep perimeter monitoring wells ranged from 46 percent to 99 percent when compared to March 2023 pre-ISB concentrations.

- Hexavalent concentrations were less than sample detection limit of 0.200 μg/L in groundwater samples collected from all five former injection/extraction wells. Additionally, results indicated hexavalent chromium concentration reductions ranging from 28 percent to greater than 99 percent in groundwater samples collected from all four Area 1 deep zone monitoring wells. The greatest hexavalent chromium concentration reductions were observed in the groundwater samples collected from monitoring wells U4-MW-07D and M-251-100, which measured less than 0.200 μg/L and 0.52 μg/L, respectively, and are the lowest concentrations reported since the study began. These results represent greater than 99 percent reduction when compared to the April 2022 baseline concentrations of 23,900 μg/L and 96,900 μg/L, respectively. Hexavalent chromium concentrations in groundwater samples collected from six of the seven deep perimeter and underlying deep monitoring wells indicated reductions ranging from 50 percent to 76 percent compared to pre-ISB March 2023 baseline concentrations.
- During the September 2024 sampling event, TOC concentrations in groundwater samples collected from the five former deep injection/extraction wells ranged from 451 mg/L to 4,220 mg/L, while TOC concentrations in the groundwater samples collected from three of the four Area 1 deep zone monitoring wells ranged from 140 mg/L to 2,560 mg/L. These concentrations are slightly lower those observed during the previous June 2024 sampling event but remain significantly elevated compared to baseline TOC concentrations of less than 2 mg/L, indicating continued widespread carbon substrate distribution in the Area 1 deep zone six months after completing ISB injections. When compared to baseline, elevated TOC concentrations were also detected in groundwater samples collected from three perimeter monitoring wells (M-252, U4-MW-03D, and U4-MW-06D), with concentrations ranging from 5.1 mg/L to 229 mg/L in September 2024.

- Area 2 Intermediate – During the September 2024 sampling event performed approximately six months after completion of ISB operations in Area 2, groundwater samples were collected from four former injection/ extraction wells screened in the Area 2 intermediate zone, three intermediate monitoring wells located immediately within Area 2 study area, and ten monitoring wells located around the perimeter of the Area 2 study area. Four of these ten perimeter monitoring wells are screened in the overlying shallow zone, while the remaining six monitoring wells are screened in the intermediate zone. Groundwater analytical results from the September 2024 sampling event are summarized below.

- Approximately six months after ceasing carbon substrate injections, perchlorate concentrations increased slightly or were similar to the previous June 2024 sampling event in the groundwater samples collected from all three intermediate monitoring wells located within Area 2. Despite increasing concentration trends in the groundwater samples collected from the monitoring wells located within the immediate Area 2 treatability study, perchlorate concentrations were less than the sample detection limit of 0.016 mg/L in groundwater samples collected from two of the four former intermediate injection/extraction wells. Additionally, perchlorate concentrations in groundwater samples collected from all four overlying shallow monitoring wells (i.e., U4-MW-08S, U4-MW-09S, U4-MW-15S, and U4-MW-16S) indicated perchlorate concentration reductions greater than 99 percent, with perchlorate concentrations less than the sample detection limit of 0.008 mg/L. Perchlorate concentrations in groundwater collected from the six intermediate perimeter monitoring wells fluctuated but generally remained similar to the previous June 2024 sampling event. The exceptions were the perchlorate concentrations in the groundwater samples collected from intermediate perimeter monitoring wells U4-MW-10I and U4-MW-15I. The perchlorate concentrations reported in the groundwater samples collected from U4-MW-10I decreased from 40.3 mg/L in June 2024 to 28.6 mg/L in September 2024, which represents a reduction of 80 percent compared to the baseline concentration. The perchlorate concentration measured in the groundwater samples collected from U4-MW-15I decreased from 249 mg/L in June 2024 to less than 0.008 mg/L in September 2024, which represents a reduction of greater than 99 percent compared to the baseline concentration.
- Chlorate concentration trends were generally similar to perchlorate trends. Chlorate concentrations in groundwater collected from the three intermediate monitoring wells within Area 2 fluctuated but generally remained similar or increased compared to the previous June 2024 sampling event. However, chlorate concentration reductions of greater than 99 percent were sustained six months after ceasing carbon substrate injections in groundwater samples collected from two of the four former injection/extraction wells, including chlorate concentrations of less than the sample detection limit of 1.58 mg/L. Additionally, chlorate concentration reductions of greater than 99 percent was observed in groundwater samples collected from all four of the overlying shallow monitoring wells. Lastly, as with perchlorate, chlorate concentration decreases were observed in the groundwater samples collected from intermediate perimeter monitoring wells U4-MW-10I and U4-MW-15I, which reported reductions of 82 percent and greater than 99 percent, respectively.
- Nitrate concentration reductions were generally greater than perchlorate and chlorate concentration reductions. Notable nitrate concentrations were reported in groundwater samples collected from monitoring well U4-MW-13I and former injection/extraction well U4-E-10I, which indicated concentrations below sample detection limits. Nitrate concentrations in groundwater samples collected in September 2024

from eight of the ten shallow and intermediate perimeter monitoring wells were significantly reduced compared to baseline concentrations, with samples collected from five locations (U4-MW-08S, U4-MW-09S, U4-MW-15S, U4-MW-16S, and U4-MW-16I) measuring less than the sample detection limit of 0.88 mg/L.

    - Hexavalent chromium concentration reductions in groundwater samples collected from three of the four former injection/extraction wells (i.e., U4-E-06I, U4-E-09I and U4-E-10I) were greater than 99 percent compared to baseline concentrations. Additionally, hexavalent chromium concentration reductions in groundwater samples collected from all four of the overlying shallow monitoring wells were greater than 99 percent, with concentrations ranging from less than 0.200 μg/L to less than 4 μg/L. Hexavalent chromium concentrations in groundwater samples collected from the nine intermediate monitoring wells within and surrounding the Area 2 study area fluctuated but generally remained similar to the previous June 2024 sampling event.
    - During the September 2024 sampling event, TOC concentrations in groundwater samples collected from the four former intermediate injection/extraction wells ranged from 8.98 mg/L to 4,140 mg/L. These concentrations are significantly elevated compared to the average baseline TOC concentration of 1.25 mg/L, indicating continued widespread carbon substrate distribution in the Area 2 intermediate zone six months after completing ISB injections. TOC concentrations in groundwater samples collected from intermediate monitoring wells within Area 2 ranged from 3.17 mg/L to 9.26 mg/L, which are slightly elevated above baseline concentrations. TOC concentrations in groundwater samples collected from seven of the ten intermediate and shallow perimeter monitoring wells were elevated above baseline concentrations and ranged from 9.2 mg/L to 874 mg/L.

- <u>Area 2 Deep</u> – During the September 2024 sampling event performed approximately six months after completion of ISB operations in Area 2, groundwater samples were collected from four former injection/extraction wells screened in the Area 2 deep zone, three deep monitoring wells within Area 2 and ten perimeter monitoring wells surrounding Area 2 that are screened in the targeted deep treatment interval or the underlying deep zone (designated with “DD”). Groundwater analytical results from the September 2024 sampling event are summarized below.
    - When compared to baseline concentrations, perchlorate concentration reductions ranging from 27 percent to 66 percent were observed in groundwater samples collected from the three deep monitoring wells located within Area 2 (i.e., U4-MW-11D, U4-MW-12D, and U4-MW-13D). Results also indicated perchlorate concentration reductions ranging from 52 percent to greater than 99 percent in groundwater samples collected from the four former injection/extraction wells that were sampled in September 2024, with groundwater results from two of the monitoring wells at concentrations less than sample detection limit. Lastly, perchlorate concentration reductions ranging from 63 percent to greater than 99 percent were observed in groundwater samples collected from six out of ten perimeter monitoring wells.

- Concentration reductions of chlorate and nitrate in the groundwater samples collected from the three deep monitoring wells within the immediate Area 2 vicinity were slightly greater than perchlorate, with chlorate reductions averaging 49 percent and nitrate reductions averaging 82 percent. Significant chlorate and nitrate concentration reductions of greater than 90 percent were reported in groundwater samples collected from three of the four of the injection/extraction wells (i.e., U4-E-06D, U4-E-07D, and U4-MW-09D). Lastly, significant chlorate and/or nitrate concentration reductions were reported in groundwater samples collected from all ten perimeter monitoring wells, with reductions ranging from 44 percent to greater than 99 percent when compared to baseline concentrations.
- Hexavalent chromium concentrations were less than the sample detection limit of 0.200 μg/L in groundwater samples collected from all four former injection/extraction wells and concentration reductions ranging from 36 percent to 70 percent were observed in groundwater samples collected from all three deep monitoring wells located within Area 2 (i.e., U4-MW-11D, U4-MW-12D, and U4-MW-13D). In addition, hexavalent chromium concentration reductions averaging 75 percent were also observed in groundwater samples collected from nine of the ten perimeter monitoring wells sampled in September 2024. Of these, groundwater samples collected from four of these monitoring wells indicated reductions of greater than 98 percent, namely, U4-MW-09D, U4-MW-09DD, U4-MW-10D, and U4-MW-16DD.
- During the September 2024 sampling event, TOC concentrations in groundwater samples collected from the four former deep injection/extraction wells ranged from 6.03 mg/L to 710 mg/L. These concentrations generally represent decreases compared to the previous June 2024 sampling event but remain elevated compared to the average baseline TOC concentration of 2.17 mg/L, indicating continued widespread carbon substrate distribution in the Area 2 deep zone six months after completing ISB injections. TOC concentrations in groundwater samples collected from the three deep monitoring wells located within Area 2 (i.e., U4-MW-11D, U4-MW-12D, and U4-MW-13D) similarly decreased compared to the previous June 2024 sampling event, ranging from 1.65 mg/L to 23.7 mg/L. Lastly, elevated TOC concentrations ranging from 7.51 mg/L to 48.8 mg/L were also observed in groundwater samples collected from four of the ten perimeter wells sampled in September 2024, namely, U4-MW-08D, U4-MW-09D, U4-MW-09DD, and U4-MW-10D.

- Schedule and Progress Updates
  - The final quarterly post-treatment effectiveness monitoring event was performed in September 2024 in accordance with the Work Plan Addendum. All field activities have been completed.
- Health and Safety
  - There were no health and safety incidents related to Task M21 in November 2024.

CERTIFICATION

Unit 4 Source Area In-Situ Bioremediation Treatability Study Monthly Progress Report

Nevada Environmental Response Trust Site
(Former Tronox LLC Site)
Henderson, Nevada

Nevada Environmental Response Trust (NERT) Representative Certification
I certify that this document and all attachments submitted to the Division were prepared at the request of, or under the direction or supervision of NERT. Based on my own involvement and/or my inquiry of the person or persons who manage the systems(s) or those directly responsible for gathering the information or preparing the document, or the immediate supervisor of such person(s), the information submitted and provided herein is, to the best of my knowledge and belief, true, accurate, and complete in all material respects.

Office of the Nevada Environmental Response Trust

Le Petomane XXVII, not individually, but solely in its representative capacity as the Nevada Environmental Response Trust Trustee

Not Individually, but Solely
as President of the Trustee

Signature: Jay A Steinberg, President, not individually, but solely in his representative capacity as President of the Nevada Environmental Response Trust Trustee

Name: Jay A. Steinberg, not individually, but solely in his representative capacity as President of the Nevada Environmental Response Trust Trustee

Title: Solely as President and not individually

Company: Le Petomane XXVII, Inc., not individually, but solely in its representative capacity as the Nevada Environmental Response Trust Trustee

Date: 1/17/25

CERTIFICATION

I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been prepared in a manner consistent with the current standards of the profession, and to the best of my knowledge, comply with all applicable federal, state, and local statutes, regulations, and ordinances. I hereby certify that all laboratory analytical data was generated by a laboratory certified by the NDEP for each constituent and media presented herein.

Description of Services Provided:

Prepared Unit 4 Source Area In-Situ Bioremediation Treatability Study Monthly Progress Report.

January 17, 2025

Christopher Hayes, CEM Date
Environmental Engineer
Tetra Tech, Inc.

Nevada CEM Certificate Number: EM2499
Nevada CEM Expiration Date: December 15, 2024

Figure

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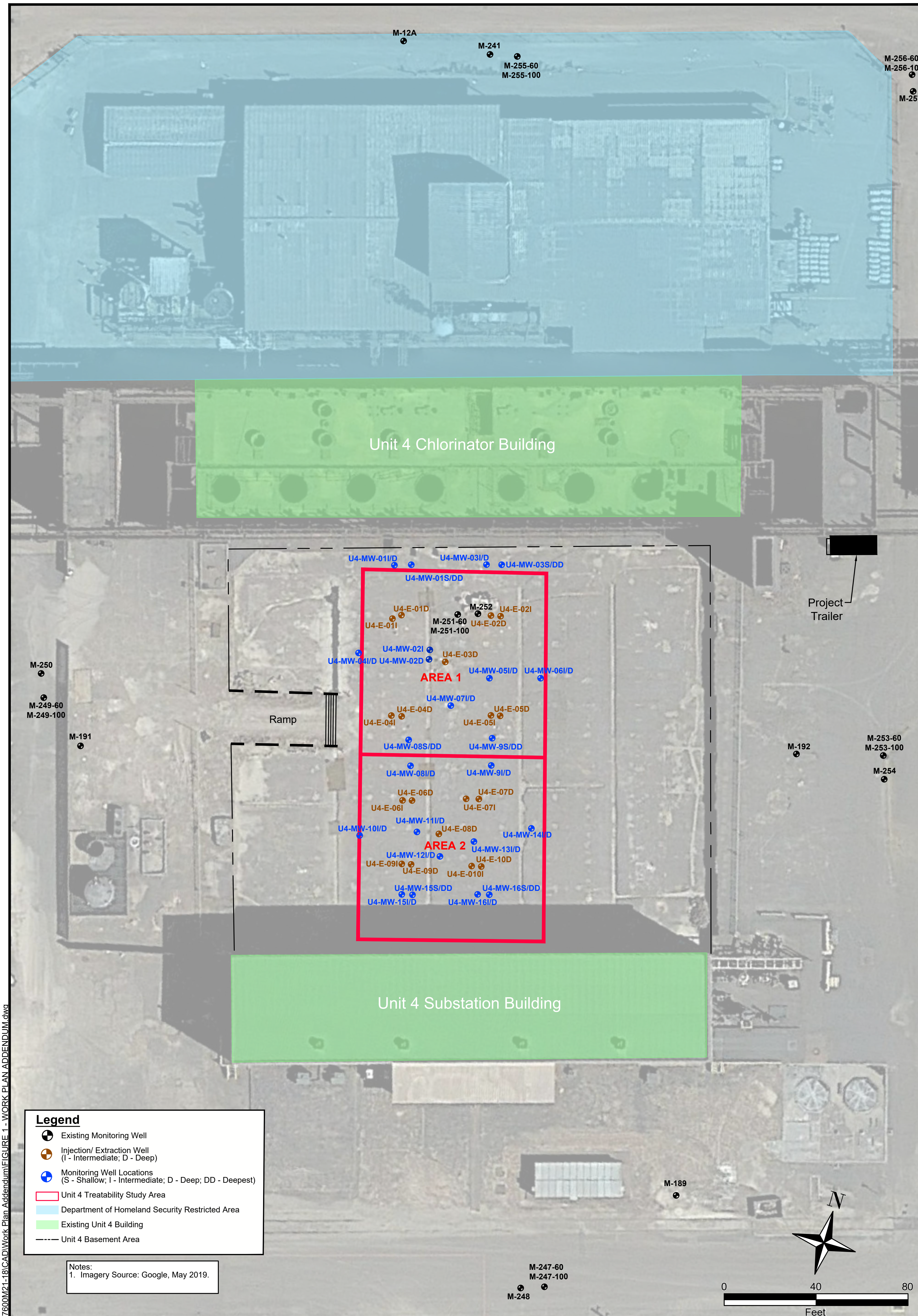

\\tts318fs3.tt.local\CES\Projects\8760\M21-18\CAD\Work Plan Addendum\FIGURE 1 - WORK PLAN ADDENDUM.dwg

TETRA TECH
www.tetratech.com
150 S. 4th Street, Unit A
Henderson, Nevada 89015
Phone: (702) 854-2293

NEVADA ENVIRONMENTAL RESPONSE TRUST SITE

UNIT 4 SOURCE AREA IN-SITU BIOREMEDIATION TREATABILITY STUDY
HENDERSON, NEVADA

INJECTION/ EXTRACTION AND MONITORING WELL LAYOUT

Project No.:	117-7502021-M21
Date:	May 10, 2022
Designed By:	AC
Figure No.	1

Tables

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Table 1
Well Construction Details
Unit 4 Source Area In-Situ Bioremediation Treatability Study

Well ID	Screened Lithology	Northing	Easting	Ground Surface Elevation[1] (feet amsl)	Top of Casing Elevation (feet amsl)	Construction Type	Casing Material	Screen Material	Slot Size (inches)	Filter Pack Gradation	Borehole Diameter (inches)	Borehole Total Depth (feet bgs[1])	Well Diameter (inches)	Nominal Screen Length (feet)	Well Total Depth (feet bgs[1])	Bottom of Screen (feet bgs[1])	Top of Screen (feet bgs[1])
U4-E-01D	UMCf	26717332.49	828215.74	1805.50	1805.11	Single	Schedule 80 PVC	Stainless Steel	0.010	#2/16	8	115.0	4	15	110.3	94.7	109.7
U4-E-01I	UMCf	26717330.42	828212.11	1805.40	1805.15	Single	Schedule 80 PVC	Stainless Steel	0.010	#2/16	8	92.0	4	15	90.3	74.6	89.6
U4-E-02D	UMCf	26717338.47	828258.40	1805.55	1804.99	Single	Schedule 80 PVC	Stainless Steel	0.010	#2/16	8	115.0	4	15	110.3	94.4	109.4
U4-E-02I	UMCf	26717338.14	828254.24	1805.51	1804.99	Single	Schedule 80 PVC	Stainless Steel	0.010	#2/16	8	92.0	4	15	90.3	74.4	89.4
U4-E-04D	UMCf	26717288.90	828222.53	1805.49	1804.95	Single	Schedule 80 PVC	Stainless Steel	0.010	#2/16	8	115.0	4	15	110.3	95.0	110.0
U4-E-03D	UMCf	26717310.37	828241.13	1805.49	1804.94	Single	Schedule 80 PVC	Stainless Steel	0.010	#2/16	8	113.0	4	15	111.1	110.1	95.1
U4-E-04I	UMCf	26717288.51	828217.91	1805.64	1805.03	Single	Schedule 80 PVC	Stainless Steel	0.010	#2/16	8	92.0	4	15	90.3	75.0	90.0
U4-E-05D	UMCf	26717295.64	828264.86	1805.48	1804.95	Single	Schedule 80 PVC	Stainless Steel	0.010	#2/16	8	115.0	4	15	110.3	95.0	110.0
U4-E-05I	UMCf	26717295.15	828260.95	1805.58	1804.72	Single	Schedule 80 PVC	Stainless Steel	0.010	#2/16	8	92.0	4	15	90.3	75.0	90.0
U4-E-06D	UMCf	26717253.44	828232.43	1805.44	1804.74	Single	Schedule 80 PVC	Stainless Steel	0.010	#2/16	8	112.0	4	15	111.1	110.1	95.1
U4-E-06I	UMCf	26717252.90	828228.29	1805.47	1805.04	Single	Schedule 80 PVC	Stainless Steel	0.010	#2/16	8	92.5	4	15	89.2	88.2	73.2
U4-E-07D	UMCf	26717258.48	828261.02	1805.62	1805.31	Single	Schedule 80 PVC	Stainless Steel	0.010	#2/16	8	111.5	4	15	110.6	109.6	94.6
U4-E-07I	UMCf	26717257.68	828255.56	1805.62	1805.16	Single	Schedule 80 PVC	Stainless Steel	0.010	#2/16	8	92.0	4	15	90.7	89.7	74.7
U4-E-08D	UMCf	26717240.82	828246.11	1805.45	1804.91	Single	Schedule 80 PVC	Stainless Steel	0.010	#2/16	8	120.0	4	15	110.6	109.6	94.6
U4-E-09D	UMCf	26717225.92	828236.22	1805.45	1804.91	Single	Schedule 80 PVC	Stainless Steel	0.010	#2/16	8	112.0	4	15	110.5	109.5	94.5
U4-E-09I	UMCf	26717225.46	828232.18	1805.47	1805.14	Single	Schedule 80 PVC	Stainless Steel	0.010	#2/16	8	93.3	4	15	90.9	89.9	74.9
U4-E-10D	UMCf	26717229.55	828266.50	1805.66	1805.28	Single	Schedule 80 PVC	Stainless Steel	0.010	#2/16	8	112.0	4	15	110.5	109.5	94.5
U4-E-10I	UMCf	26717229.15	828262.34	1805.71	1805.37	Single	Schedule 80 PVC	Stainless Steel	0.010	#2/16	8	92.0	4	15	90.2	89.2	74.2
U4-MW-01I	UMCf	26717353.59	828209.51	1805.57	1805.14	Dual-Nested	Schedule 80 PVC	Stainless Steel	0.010	#2/16	11	108.0	2	10	86.7	86.7	76.7
U4-MW-01D	UMCf	26717353.51	828209.25	1805.57	1805.10		Schedule 80 PVC	Stainless Steel	0.010	#2/16			2	10	106.7	106.7	96.7
U4-MW-01S	UMCf	26717354.83	828216.42	1805.57	1805.02	Dual-Nested	Schedule 80 PVC	Stainless Steel	0.010	#2/16	11	131.0	2	10	64.7	64.7	54.7
U4-MW-01DD	UMCf	26717354.86	828216.87	1805.57	1805.09		Schedule 80 PVC	Stainless Steel	0.010	#2/16			2	10	129.9	129.9	119.9
U4-MW-02D	UMCf	26717315.33	828230.47	1805.50	1805.07	Single	Schedule 80 PVC	Stainless Steel	0.010	#2/16	8	115.0	4	15	110.3	95.0	110.0
U4-MW-02I	UMCf	26717319.45	828230.17	1805.47	1805.07	Single	Schedule 80 PVC	Stainless Steel	0.010	#2/16	8	92.0	4	15	90.3	75.0	90.0
U4-MW-03I	UMCf	26717359.79	828248.76	1805.61	1805.17	Dual-Nested	Schedule 80 PVC	Stainless Steel	0.010	#2/16	11	108.3	2	10	86.6	86.6	76.6
U4-MW-03D	UMCf	26717360.01	828249.20	1805.61	1805.18		Schedule 80 PVC	Stainless Steel	0.010	#2/16			2	10	106.6	106.6	96.6
U4-MW-03S	UMCf	26717360.79	828255.35	1805.56	1805.19	Dual-Nested	Schedule 80 PVC	Stainless Steel	0.010	#2/16	11	131.3	2	10	64.5	64.5	54.5
U4-MW-03DD	UMCf	26717360.84	828255.62	1805.56	1805.20		Schedule 80 PVC	Stainless Steel	0.010	#2/16			2	10	129.7	129.7	119.7
U4-MW-04I	UMCf	26717313.50	828199.89	1805.49	1805.13	Dual-Nested	Schedule 80 PVC	Stainless Steel	0.010	#2/16	11	108.5	2	10	86.8	86.8	76.8
U4-MW-04D	UMCf	26717313.36	828199.55	1805.49	1805.15		Schedule 80 PVC	Stainless Steel	0.010	#2/16			2	10	107.0	107.0	97.0
U4-MW-05I	UMCf	26717311.18	828257.53	1805.52	1805.06	Dual-Nested	Schedule 80 PVC	Stainless Steel	0.010	#2/16	11	108.0	2	10	86.6	86.6	76.6
U4-MW-05D	UMCf	26717311.18	828257.89	1805.52	1805.05		Schedule 80 PVC	Stainless Steel	0.010	#2/16			2	10	108.2	108.2	98.2
U4-MW-06I	UMCf	26717314.46	828279.53	1805.52	1805.21	Dual-Nested	Schedule 80 PVC	Stainless Steel	0.010	#2/16	11	108.3	2	10	86.5	86.5	76.5
U4-MW-06D	UMCf	26717314.51	828279.82	1805.52	1805.20		Schedule 80 PVC	Stainless Steel	0.010	#2/16			2	10	107.1	107.1	97.1
U4-MW-07I	UMCf	26717296.98	828242.85	1805.36	1805.16	Dual-Nested	Schedule 80 PVC	Stainless Steel	0.010	#2/16	11	109.2	2	10	86.8	86.8	76.8
U4-MW-07D	UMCf	26717296.68	828242.80	1805.36	1805.01		Schedule 80 PVC	Stainless Steel	0.010	#2/16			2	10	106.5	106.5	96.5
U4-MW-08I	UMCf	26717268.25	828229.36	1805.45	1804.97	Dual-Nested	Schedule 80 PVC	Stainless Steel	0.010	#2/16	11	108.0	2	10	88.0	88.0	78.0
U4-MW-08D	UMCf	26717268.30	828229.62	1805.45	1804.99		Schedule 80 PVC	Stainless Steel	0.010	#2/16			2	10	108.6	108.6	98.6
U4-MW-08S	UMCf	26717279.33	828226.78	1805.47	1804.94	Dual-Nested	Schedule 80 PVC	Stainless Steel	0.010	#2/16	11	131.2	2	10	64.9	64.9	54.9
U4-MW-08DD	UMCf	26717279.35	828227.22	1805.47	1804.95		Schedule 80 PVC	Stainless Steel	0.010	#2/16			2	10	129.8	129.8	119.8
U4-MW-09I	UMCf	26717273.70	828264.04	1805.62	1805.22	Dual-Nested	Schedule 80 PVC	Stainless Steel	0.010	#2/16	11	108.0	2	10	86.8	86.8	76.8
U4-MW-09D	UMCf	26717273.73	828264.40	1805.62	1805.20		Schedule 80 PVC	Stainless Steel	0.010	#2/16			2	10	106.9	106.9	96.9
U4-MW-09S	UMCf	26717285.44	828262.62	1805.55	1805.12	Dual-Nested	Schedule 80 PVC	Stainless Steel	0.010	#2/16	11	132.0	2	10	65.3	65.3	55.3
U4-MW-09DD	UMCf	26717285.52	828263.00	1805.55	1805.12		Schedule 80 PVC	Stainless Steel	0.010	#2/16			2	10	129.8	129.8	119.8
U4-MW-10I	UMCf	26717234.83	828212.05	1805.55	1805.10	Dual-Nested	Schedule 80 PVC	Stainless Steel	0.010	#2/16	11	109.0	2	10	87.1	87.1	77.1
U4-MW-10D	UMCf	26717235.18	828212.26	1805.55	1805.07		Schedule 80 PVC	Stainless Steel	0.010	#2/16			2	10	106.9	106.9	96.9
U4-MW-11I	UMCf	26717240.19	828236.42	1805.41	1805.03	Dual-Nested	Schedule 80 PVC	Stainless Steel	0.010	#2/16	11	109.0	2	10	87.0	87.0	77.0
U4-MW-11D	UMCf	26717240.23	828236.77	1805.41	1804.96		Schedule 80 PVC	Stainless Steel	0.010	#2/16			2	10	107.4	107.4	97.4
U4-MW-12I	UMCf	26717231.25	828247.87	1805.47	1805.11	Dual-Nested	Schedule 80 PVC	Stainless Steel	0.010	#2/16	11	108.0	2	10	86.8	86.8	76.8
U4-MW-12D	UMCf	26717231.22	828248.29	1805.47	1805.12		Schedule 80 PVC	Stainless Steel	0.010	#2/16			2	10	107.1	107.1	97.1
U4-MW-13I	UMCf	26717242.66	828261.00	1805.64	1805.28	Dual-Nested	Schedule 80 PVC	Stainless Steel	0.010	#2/16	11	109.0	2	10	87.1	87.1	77.1
U4-MW-13D	UMCf	26717242.70	828261.37	1805.64	1805.35		Schedule 80 PVC	Stainless Steel	0.010	#2/16			2	10	108.2	108.2	98.2
U4-MW-14I	UMCf	26717249.26	828285.32	1805.43	1805.13	Dual-Nested	Schedule 80 PVC	Stainless Steel	0.010	#2/16	11	109.0	2	10	87.3	87.3	77.3
U4-MW-14D	UMCf	26717249.24	828285.84	1805.43	1805.05		Schedule 80 PVC	Stainless Steel	0.010	#2/16			2	10	107.3	107.3	97.3
U4-MW-15I	UMCf	26717212.34	828233.91	1805.48	1805.03	Dual-Nested	Schedule 80 PVC	Stainless Steel	0.010	#2/16	11	109.0	2	10	86.8	86.8	76.8
U4-MW-15D	UMCf	26717212.35	828234.41	1805.48	1804.97		Schedule 80 PVC	Stainless Steel	0.010	#2/16			2	10	106.0	106.0	96.0
U4-MW-15S	UMCf	26717212.89	828238.61	1805.44	1805.05	Dual-Nested	Schedule 80 PVC	Stainless Steel	0.010	#2/16	11	132.0	2	10	64.8	64.8	54.8
U4-MW-15DD	UMCf	26717212.87	828239.01	1805.44	1804.98		Schedule 80 PVC	Stainless Steel	0.010	#2/16			2	10	130.3	130.3	120.3
U4-MW-16I	UMCf	26717217.25	828266.62	1805.68	1805.36	Dual-Nested	Schedule 80 PVC	Stainless Steel	0.010	#2/16	11	108.5	2	10	87.0	87.0	77.0
U4-MW-16D	UMCf	26717217.40	828266.90	1805.68	1805.27		Schedule 80 PVC	Stainless Steel	0.010	#2/16			2	10	106.8	106.8	96.8
U4-MW-16S	UMCf	26717217.87	828271.70	1805.59	1805.24	Dual-Nested	Schedule 80 PVC	Stainless Steel	0.010	#2/16	11	131.0	2	10	64.8	64.8	54.8
U4-MW-16DD	UMCf	26717218.04	828271.95	1805.59	1805.32		Schedule 80 PVC	Stainless Steel	0.010	#2/16			2	10	130.8	130.8	120.8

Notes
amsl - above mean sea level
bgs - below ground surface
bTOC - below top of casing
PVC - polyvinyl chloride
UMCf - Upper Muddy Creek formation
1. Ground surface refers to the concrete floor of the Unit 4 basement, which is approximately 8 feet below the surrounding grade.
2. Well names including E indicate an extraction/injection well. Well names including MW indicate a monitoring well.

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Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	E314.0	E300.1	E300.1	E350.1	E351.2	E365.1	Alkalinity by SM2320B	Alkalinity by SM2320B	Alkalinity by SM2320B	Alkalinity by SM2320B	Anions by E300.0/SW9065A
						Perchlorate	Chlorate	Chlorite	Ammonia (as N)	Total Kjeldahl Nitrogen (TKN)	Phosphorus	Alkalinity as CaCO3	Bicarbonate Alkalinity as CaCO3	Carbonate Alkalinity as CaCO3	Hydroxide Alkalinity as CaCO3	Chloride
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
M-247-100	4/20/2022	N	BL02	UMCf	100.5 - 110.5	3,080	12,800	----	----	----	----	----	----	----	----	----
M-249-100	4/20/2022	N	BL02	UMCf	99.6 - 109.6	2,850,000	26,900,000	----	----	----	----	----	----	----	----	----
M-251-100	4/19/2022	N	BL02	UMCf	92.5 - 102.5	3,110,000	21,100,000	<240,000	----	----	----	----	----	----	----	5,360,000
M-251-100	10/13/2022	N	EM02	UMCf	92.5 - 102.5	2,000,000	11,700,000	----	----	----	----	----	----	----	----	----
M-251-100	11/2/2022	N	EM03	UMCf	92.5 - 102.5	1,410,000	679	----	----	----	----	----	----	----	----	----
M-251-100	12/8/2022	N	EM04	UMCf	92.5 - 102.5	1,210,000	7,040,000	----	----	----	----	----	----	----	----	----
M-251-100	1/11/2023	N	EM05	UMCf	92.5 - 102.5	1,600,000	7,360,000	----	----	----	----	----	----	----	----	----
M-251-100	2/13/2023	N	EM06	UMCf	92.5 - 102.5	886,000	4,550,000	----	----	----	----	----	----	----	----	----
M-251-100	3/17/2023	N	EM07	UMCf	92.5 - 102.5	955,000	6,010,000	<24,000	<117	<700	<33.3	109,000	109,000	<8,450	<8,450	1,480,000 J+
M-251-100	4/21/2023	N	EM08	UMCf	92.5 - 102.5	1,340,000	6,790,000	<240,000	<117	<1,400	42.7 J	----	----	----	----	2,250,000
M-251-100	5/9/2023	N	EM09	UMCf	92.5 - 102.5	1,500,000	10,000,000	<240,000	<117	<1,400	64.2 J	----	----	----	----	2,290,000
M-251-100	6/14/2023	N	EM10	UMCf	92.5 - 102.5	1,280,000	7,880,000	<240,000	<117	<1,400	51.7 J	73,000	73,000	<8,450	<8,450	2,120,000
M-251-100	7/14/2023	N	EM11	UMCf	92.5 - 102.5	1,530,000	9,340,000	<240,000	<117	<1,400	<33.3	----	----	----	----	2,390,000
M-251-100	8/10/2023	N	EM12	UMCf	92.5 - 102.5	1,590,000	9,400,000	<24,000	<117	<1,400	84.9 J	----	----	----	----	1,870,000
M-251-100	9/14/2023	N	EM13	UMCf	92.5 - 102.5	1,550,000	9,930,000	<24,000	<117	<1,400	38.4 J	79,000	79,000	<8,450	<8,450	2,410,000
M-251-100	10/19/2023	N	EM14	UMCf	92.5 - 102.5	1,540,000	9,780,000	<24,000	<117	<700	<33.3	----	----	----	----	2,490,000
M-251-100	11/16/2023	N	EM15	UMCf	92.5 - 102.5	1,370,000 J+	8,730,000 J+	<24000 UJ	<117	<1,400	<33.3	----	----	----	----	2,230,000
M-251-100	12/12/2023	N	EM16	UMCf	92.5 - 102.5	1,400,000	7,950,000	<240,000	<117	<2,800	<33.3	285,000	285,000	<8,450	<8,450	2,450,000
M-251-100	1/25/2024	N	EM17	UMCf	92.5 - 102.5	1,520,000	9,610,000	<24,000	<117	<1,400	60.8 J	----	----	----	----	2,490,000
M-251-100	2/13/2024	N	EM18	UMCf	92.5 - 102.5	873,000	6,040,000	134,000	<1,170	7,900	98.8 J	----	----	----	----	1,490,000
M-251-100	3/11/2024	N	EM19	UMCf	92.5 - 102.5	843,000	5,560,000	<24,000	<5,850	11,100	640	1,370,000	1,370,000	<8,450	<8,450	1,470,000
M-251-100	6/17/2024	N	EM20	UMCf	92.5 - 102.5	958,000	5,020,000	158,000	<585	149 J	426 J+	1,240,000	1,240,000	<8,450	<8,450	2,430,000
M-251-100	9/23/2024	N	EM21	UMCf	92.5 - 102.5	966,000	4,780,000	<79,000	<117	<140	247	1,910,000	----	----	----	2,700,000
M-251-60	4/18/2022	N	BL02	UMCf	52.3 - 62.3	27,900	316,000	<2,400	----	----	----	----	----	----	----	234,000
M-251-60	3/15/2023	N	EM07	UMCf	52.3 - 62.3	30,800	326,000	<2,400	<117	<140	<33.3	139,000	<8,450	68,100	70,900	240,000
M-251-60	6/14/2023	N	EM10	UMCf	52.3 - 62.3	29,700	316,000	<2,400	<117	<140	50.4 J	126,000	<8,450	72,000	54,200	246,000
M-251-60	9/14/2023	N	EM13	UMCf	52.3 - 62.3	27,600	378,000	<2,400	<117	<140	<33.3	149,000	<8,450	82,400	66,800	281,000
M-251-60	12/11/2023	N	EM16	UMCf	52.3 - 62.3	27,200	322,000	<2,400	<117	<140	46.3 J	138,000	<8,450	120,000	18,200 J	293,000
M-251-60	3/12/2024	N	EM19	UMCf	52.3 - 62.3	6,140	62,500	<240	<117	704	192	345,000	294,000	50,300	<8,450	339,000
M-251-60	6/19/2024	N	EM20	UMCf	52.3 - 62.3	23.2	<24.0	<24.0	----	805	301	813,000	711,000	101,000	<8,450	324,000
M-251-60	9/20/2024	N	EM21	UMCf	52.3 - 62.3	39.2	81.9	<15.8 UJ	<117	1,350	765	936,000	----	----	----	319,000
M-252	4/21/2022	N	BL02	UMCf	132.3 - 142.3	91,200	381,000	<2,400	----	----	----	----	----	----	----	259,000
M-252	3/15/2023	N	EM07	UMCf	132.3 - 142.3	180,000	835,000	<2,400	<117	<140	<33.3	49,300	49,300	<8,450	<8,450	344,000
M-252	9/19/2023	N	EM13	UMCf	132.3 - 142.3	108,000	644,000	<2,400	<117	<140	<33.3	42,200	42,200	<8,450	<8,450	325,000
M-252	12/18/2023	N	EM16	UMCf	132.3 - 142.3	156,000	821,000	<2,400	<117	<140	<33.3	69,200	69,200	<8,450	<8,450	366,000
M-252	3/12/2024	N	EM19	UMCf	132.3 - 142.3	235,000	1,150,000	<2,400	<117	<140	<33.3	29,100	29,100	<8,450	<8,450	478,000
M-252	6/19/2024	N	EM20	UMCf	132.3 - 142.3	133,000	657,000	<2,400	----	<140	<33.3	124,000	124,000	<8,450	<8,450	382,000
M-252	9/24/2024	N	EM21	UMCf	132.3 - 142.3	78,000	484,000	<790	<117	<140	<33.3	60,300	----	----	----	300,000
M-253-100	4/20/2022	N	BL02	UMCf	100.8 - 110.8	457,000	505,000	----	----	----	----	----	----	----	----	----
M-255-100	4/20/2022	N	BL02	UMCf	100.2 - 110.2	75,100	564,000	----	----	----	----	----	----	----	----	----
U4-E-01D	4/18/2022	N	BL02	UMCf	94.7 - 109.7	2,500,000	19,700,000	<240000 R	----	----	----	----	----	----	----	4,560,000
U4-E-01D	3/14/2023	N	EM07	UMCf	94.7 - 109.7	41.5 J+	1,360	<24.0	<117	346	<33.3	140,000	140,000	<8,450	<8,450	108,000
U4-E-01D	6/20/2024	N	EM20	UMCf	94.7 - 109.7	<15.0	<24,000	3,990,000	----	520,000	113,000 J	5,210,000	5,210,000	<8,450	<8,450	372,000
U4-E-01D	9/25/2024	N	EM21	UMCf	94.7 - 109.7	<16.0	<1,580	<790	624,000 J-	915,000	9,410	10,100,000	----	----	----	308,000
U4-E-01I	4/19/2022	N	BL02	UMCf	74.6 - 89.6	219,000	1,670,000	<24,000	----	----	----	----	----	----	----	542,000
U4-E-01I	4/19/2022	FD	BL02	UMCf	74.6 - 89.6	253,000	2,010,000	<24,000	----	----	----	----	----	----	----	706,000
U4-E-01I	3/14/2023	N	EM07	UMCf	74.6 - 89.6	394,000 J+	3,630,000	<24,000	<117	<560	<33.3	109,000	109,000	<8,450	<8,450	892,000

Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	E314.0	E300.1	E300.1	E350.1	E351.2	E365.1	Alkalinity by SM2320B	Alkalinity by SM2320B	Alkalinity by SM2320B	Alkalinity by SM2320B	Anions by E300.0/SW9065A
						Perchlorate	Chlorate	Chlorite	Ammonia (as N)	Total Kjeldahl Nitrogen (TKN)	Phosphorus	Alkalinity as CaCO3	Bicarbonate Alkalinity as CaCO3	Carbonate Alkalinity as CaCO3	Hydroxide Alkalinity as CaCO3	Chloride
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-E-01I	4/20/2023	N	EM08	UMCf	74.6 - 89.6	262,000	2,310,000	<24,000	----	----	----	----	----	----	----	693,000
U4-E-01I	5/10/2023	N	EM09	UMCf	74.6 - 89.6	262,000	2,590,000	<24,000	----	----	----	----	----	----	----	686,000
U4-E-01I	6/12/2023	N	EM10	UMCf	74.6 - 89.6	466,000	4,230,000	<24000 UJ	----	----	----	----	----	----	----	1,410,000
U4-E-01I	7/11/2023	N	EM11	UMCf	74.6 - 89.6	138,000	912,000	131,000	----	----	----	----	----	----	----	528,000
U4-E-01I	8/10/2023	N	EM12	UMCf	74.6 - 89.6	66,000	457,000	<24,000	----	----	----	----	----	----	----	347,000
U4-E-01I	9/11/2023	N	EM13	UMCf	74.6 - 89.6	24,800	197,000	500,000	----	----	----	----	----	----	----	334,000
U4-E-01I	10/16/2023	N	EM14	UMCf	74.6 - 89.6	54,700	497,000	103,000	----	----	----	----	----	----	----	375,000
U4-E-01I	12/13/2023	N	EM16	UMCf	74.6 - 89.6	24,800	1,100	239,000 J-	----	----	----	----	----	----	----	160,000
U4-E-01I	1/24/2024	N	EM17	UMCf	74.6 - 89.6	1,220	<24,000	324,000	----	----	----	----	----	----	----	177,000
U4-E-01I	2/14/2024	N	EM18	UMCf	74.6 - 89.6	<0.300	54,800	350,000	----	----	----	----	----	----	----	150,000
U4-E-01I	3/12/2024	N	EM19	UMCf	74.6 - 89.6	<30.0	58,200	529,000	----	----	----	----	----	----	----	141,000
U4-E-01I	6/20/2024	N	EM20	UMCf	74.6 - 89.6	1,890	<24,000	2,740,000	----	89,900	40,800	2,640,000	2,640,000	<8,450	<8,450	299,000
U4-E-01I	9/25/2024	N	EM21	UMCf	74.6 - 89.6	<8.00	<1,580	<790	69,000 J-	165,000	21,700	7,100,000	----	----	----	323,000
U4-E-02D	4/20/2022	N	BL02	UMCf	94.4 - 109.4	1,040,000	5,060,000	<24,000	----	----	----	----	----	----	----	1,460,000
U4-E-02D	3/14/2023	N	EM07	UMCf	94.4 - 109.4	618 J+	2,490 J+	<240	<117	351	<33.3	140,000	140,000	<8,450	<8,450	109,000
U4-E-02D	6/19/2024	N	EM20	UMCf	94.4 - 109.4	<3.00	<24,000	3,610,000	----	327,000 J	76,500	4,060,000	4,060,000	<8,450	<8,450	309,000
U4-E-02D	9/27/2024	N	EM21	UMCf	94.4 - 109.4	<8.00	<1,580	<790	850,000 J-	949,000 J-	18,600	7,930,000	----	----	----	225,000
U4-E-02I	4/18/2022	N	BL02	UMCf	74.4 - 89.4	428,000	2,390,000	<24000 R	----	----	----	----	----	----	----	842,000
U4-E-02I	3/14/2023	N	EM07	UMCf	74.4 - 89.4	75,800 J+	393,000	<2,400	<117	<140	116	143,000	143,000	<8,450	<8,450	218,000
U4-E-02I	4/20/2023	N	EM08	UMCf	74.4 - 89.4	274,000	1,140,000	<24,000	----	----	----	----	----	----	----	503,000
U4-E-02I	5/11/2023	N	EM09	UMCf	74.4 - 89.4	309,000	1,190,000	<24,000	----	----	----	----	----	----	----	604,000
U4-E-02I	6/12/2023	N	EM10	UMCf	74.4 - 89.4	194,000	913,000	64,100 J-	----	----	----	----	----	----	----	569,000
U4-E-02I	7/11/2023	N	EM11	UMCf	74.4 - 89.4	193,000	859,000	39,200 J	----	----	----	----	----	----	----	576,000
U4-E-02I	8/10/2023	N	EM12	UMCf	74.4 - 89.4	133,000	572,000	80,300	----	----	----	----	----	----	----	544,000
U4-E-02I	9/11/2023	N	EM13	UMCf	74.4 - 89.4	111,000	508,000	999,000	----	----	----	----	----	----	----	523,000
U4-E-02I	10/16/2023	N	EM14	UMCf	74.4 - 89.4	63,400	237,000	149,000	----	----	----	----	----	----	----	497,000
U4-E-02I	12/14/2023	N	EM16	UMCf	74.4 - 89.4	21,600	89,400	494,000 J-	----	----	----	----	----	----	----	231,000
U4-E-02I	1/22/2024	N	EM17	UMCf	74.4 - 89.4	25,800	61,800	711,000 J-	----	----	----	----	----	----	----	539,000
U4-E-02I	2/13/2024	N	EM18	UMCf	74.4 - 89.4	33,200	94,000	936,000	----	----	----	----	----	----	----	715,000
U4-E-02I	3/13/2024	N	EM19	UMCf	74.4 - 89.4	2,020	55,600	627,000	----	----	----	----	----	----	----	308,000 J+
U4-E-02I	6/19/2024	N	EM20	UMCf	74.4 - 89.4	104,000	75,400	1,700,000	----	12,800 J	5,520 J	2,120,000	2,120,000	<8,450	<8,450	841,000
U4-E-02I	9/24/2024	N	EM21	UMCf	74.4 - 89.4	173,000	145,000	<790	<117 UJ	12,500 J-	981	4,780,000	----	----	----	902,000
U4-E-03D	4/19/2022	N	BL02	UMCf	95.1 - 110.1	2,170,000	16,600,000	<24,000	----	----	----	----	----	----	----	4,310,000
U4-E-03D	10/13/2022	N	EM02	UMCf	95.1 - 110.1	1,320,000	8,100,000	<240,000	----	----	----	----	----	----	----	2,400,000
U4-E-03D	11/3/2022	N	EM03	UMCf	95.1 - 110.1	1,090,000	7,560,000	<240,000	----	----	----	----	----	----	----	1,950,000
U4-E-03D	12/6/2022	N	EM04	UMCf	95.1 - 110.1	1,110,000 J+	6,630,000	<240000 UJ	----	----	----	----	----	----	----	1,740,000
U4-E-03D	1/9/2023	N	EM05	UMCf	95.1 - 110.1	937,000	6,670,000	<240,000	----	----	----	----	----	----	----	1,730,000
U4-E-03D	2/13/2023	N	EM06	UMCf	95.1 - 110.1	948,000	6,890,000	<24,000	----	----	----	----	----	----	----	1,620,000
U4-E-03D	3/13/2023	N	EM07	UMCf	95.1 - 110.1	654,000 J-	6,260,000	<24,000	----	----	----	----	----	----	----	1,690,000
U4-E-03D	3/14/2023	N	EM07	UMCf	95.1 - 110.1	833,000 J+	6,370,000	<24,000	<117	<1,400	<33.3	131,000	131,000	<8,450	<8,450	1,700,000
U4-E-03D	4/19/2023	N	EM08	UMCf	95.1 - 110.1	948,000	6,990,000	<24,000	----	----	----	----	----	----	----	1,750,000
U4-E-03D	5/11/2023	N	EM09	UMCf	95.1 - 110.1	797,000	5,450,000	27,000 J	----	----	----	----	----	----	----	1,530,000
U4-E-03D	6/12/2023	N	EM10	UMCf	95.1 - 110.1	835,000	5,650,000	<240000 UJ	----	----	----	----	----	----	----	1,870,000
U4-E-03D	7/11/2023	N	EM11	UMCf	95.1 - 110.1	963,000	6,280,000	<240,000	----	----	----	----	----	----	----	2,180,000
U4-E-03D	8/10/2023	N	EM12	UMCf	95.1 - 110.1	934,000	6,410,000	<240,000	----	----	----	----	----	----	----	2,360,000
U4-E-03D	9/11/2023	N	EM13	UMCf	95.1 - 110.1	1,030,000	7,790,000	<24,000	----	----	----	----	----	----	----	2,280,000
U4-E-03D	10/16/2023	N	EM14	UMCf	95.1 - 110.1	1,100,000	7,760,000	<24,000	----	----	----	----	----	----	----	2,340,000

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	E314.0	E300.1	E300.1	E350.1	E351.2	E365.1	Alkalinity by SM2320B	Alkalinity by SM2320B	Alkalinity by SM2320B	Alkalinity by SM2320B	Anions by E300.0/SW9065A
						Perchlorate	Chlorate	Chlorite	Ammonia (as N)	Total Kjeldahl Nitrogen (TKN)	Phosphorus	Alkalinity as CaCO3	Bicarbonate Alkalinity as CaCO3	Carbonate Alkalinity as CaCO3	Hydroxide Alkalinity as CaCO3	Chloride
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-E-03D	6/10/2024	N	EM20	UMCf	95.1 - 110.1	1,170 J	<12000 UJ	<7900 R	----	141,000 J-	38,800	3,350,000	3,350,000	<8,450	<8,450	261,000
U4-E-03D	6/10/2024	FD	EM20	UMCf	95.1 - 110.1	962 J	<12000 UJ	<7900 R	----	166,000 J-	38,800	3,380,000	3,380,000	<8,450	<8,450	278,000
U4-E-03D	9/27/2024	N	EM21	UMCf	95.1 - 110.1	<8.00 R	<1,580	<790 UJ	208,000 J-	360,000 J-	15,300	6,260,000	----	----	----	376,000
U4-E-03D	9/27/2024	FD	EM21	UMCf	95.1 - 110.1	<8.00 R	<1,580	<790 UJ	207,000 J-	376,000 J-	15,600	6,370,000	----	----	----	380,000
U4-E-04D	4/19/2022	N	BL02	UMCf	95.0 - 110.0	1,270,000	12,100,000	<24,000	----	----	----	----	----	----	----	2,640,000
U4-E-04D	3/14/2023	N	EM07	UMCf	95.0 - 110.0	29.6 J+	1,200	<24.0	<117	345	35.3 J	142,000	142,000	<8,450	<8,450	106,000
U4-E-04D	6/20/2024	N	EM20	UMCf	95.0 - 110.0	<15.0	<24,000	3,190,000	----	510,000	88,400 J	4,990,000	4,990,000	<8,450	<8,450	319,000
U4-E-04D	9/26/2024	N	EM21	UMCf	95.0 - 110.0	<8.00	<1,580	<790	397,000 J-	300,000	16,700	7,300,000	----	----	----	259,000
U4-E-04I	4/18/2022	N	BL02	UMCf	75.0 - 90.0	47,900	793,000	<2,400	----	----	----	----	----	----	----	321,000
U4-E-04I	3/14/2023	N	EM07	UMCf	75.0 - 90.0	1,020,000 J+	11,600,000	<240,000	<117	<1,400	<33.3	128,000	128,000	<8,450	<8,450	2,810,000
U4-E-04I	6/20/2024	N	EM20	UMCf	75.0 - 90.0	71.4	<24,000	2,550,000	----	290,000	60,000 J	3,100,000	3,100,000	<8,450	<8,450	316,000
U4-E-04I	9/26/2024	N	EM21	UMCf	75.0 - 90.0	<8.00	<1,580	<790	340,000 J-	238,000	6,520	8,010,000	----	----	----	270,000
U4-E-05D	4/19/2022	N	BL02	UMCf	95.0 - 110.0	1,900,000	11,600,000	<240,000	----	----	----	----	----	----	----	2,770,000
U4-E-05D	3/16/2023	N	EM07	UMCf	95.0 - 110.0	269	1,560	<24.0	304	636	49.9 J	151,000	151,000	<8,450	<8,450	110,000
U4-E-05D	6/10/2024	N	EM20	UMCf	95.0 - 110.0	<30.0	<2,400	<1580 R	----	416,000	91,000	1,660,000	1,660,000	<8,450	<8,450	167,000
U4-E-05D	9/27/2024	N	EM21	UMCf	95.0 - 110.0	<8.00	<1,580	<790	1,110,000 J-	1,260,000 J-	30,000	6,230,000	----	----	----	147,000
U4-E-05I	4/19/2022	N	BL02	UMCf	75.0 - 90.0	164,000	993,000	<24,000	----	----	----	----	----	----	----	400,000
U4-E-05I	3/15/2023	N	EM07	UMCf	75.0 - 90.0	181,000	1,030,000	<24,000	<117	<140	92.3 J	142,000	142,000	<8,450	<8,450	368,000
U4-E-05I	6/19/2024	N	EM20	UMCf	75.0 - 90.0	<3.00	<24,000	1,540,000	----	527,000 J	157,000 J	4,000,000	4,000,000	<8,450	<8,450	295,000
U4-E-05I	9/27/2024	N	EM21	UMCf	75.0 - 90.0	<8.00	<1,580	<790	540,000 J-	837,000 J-	24,200	7,300,000	----	----	----	248,000
U4-E-06D	4/11/2022	N	BL02	UMCf	95.1 - 110.1	320,000	4,550,000	<24000 R	<117	<1,400	33.3 R	68,700	68,700	<8,450	<8,450	1,150,000
U4-E-06D	6/20/2024	N	EM20	UMCf	95.1 - 110.1	<3.00	<240 UJ	<24,000	----	505,000	77,200 J	5,120,000	5,120,000	<8,450	<8,450	517,000
U4-E-06D	9/27/2024	N	EM21	UMCf	95.1 - 110.1	<8.00	<1,580	<790	409,000 J-	576,000 J-	23,100	6,300,000	----	----	----	526,000
U4-E-06I	4/11/2022	N	BL02	UMCf	73.2 - 88.2	36,400	660,000	<2,400	<117	<700	33.3 R	96,800	96,800	<8,450	<8,450	355,000
U4-E-06I	4/11/2022	FD	BL02	UMCf	73.2 - 88.2	35,900	553,000	<12,000	<117	<700	33.3 R	96,100	96,100	<8,450	<8,450	345,000
U4-E-06I	10/12/2022	N	EM02	UMCf	73.2 - 88.2	367,000	4,900,000	<240,000	----	----	----	----	----	----	----	1,140,000
U4-E-06I	11/3/2022	N	EM03	UMCf	73.2 - 88.2	243,000	3,180,000	<240,000	----	----	----	----	----	----	----	895,000
U4-E-06I	12/6/2022	N	EM04	UMCf	73.2 - 88.2	133,000 J+	1,860,000	25,700 J	----	----	----	----	----	----	----	572,000
U4-E-06I	1/9/2023	N	EM05	UMCf	73.2 - 88.2	346,000	5,170,000 J-	<240,000	----	----	----	----	----	----	----	1,340,000
U4-E-06I	2/13/2023	N	EM06	UMCf	73.2 - 88.2	313,000	4,250,000	<24,000	----	----	----	----	----	----	----	1,200,000
U4-E-06I	3/13/2023	N	EM07	UMCf	73.2 - 88.2	145,000	1,550,000	63,600	----	----	----	----	----	----	----	753,000
U4-E-06I	4/17/2023	N	EM08	UMCf	73.2 - 88.2	163,000	2,300,000	<24,000	----	----	----	----	----	----	----	905,000
U4-E-06I	5/15/2023	N	EM09	UMCf	73.2 - 88.2	490,000	7,840,000	<24,000	----	----	----	----	----	----	----	1,920,000
U4-E-06I	6/12/2023	N	EM10	UMCf	73.2 - 88.2	431,000	5,570,000	<240000 UJ	----	----	----	----	----	----	----	1,670,000
U4-E-06I	7/11/2023	N	EM11	UMCf	73.2 - 88.2	440,000	6,040,000	<240,000	----	----	----	----	----	----	----	1,680,000
U4-E-06I	8/11/2023	N	EM12	UMCf	73.2 - 88.2	461,000	6,900,000	<24,000	----	----	----	----	----	----	----	1,900,000
U4-E-06I	9/11/2023	N	EM13	UMCf	73.2 - 88.2	171,000	2,810,000	31,700 J	----	----	----	----	----	----	----	949,000
U4-E-06I	10/16/2023	N	EM14	UMCf	73.2 - 88.2	119,000	2,010,000	<24,000	----	----	----	----	----	----	----	766,000
U4-E-06I	12/13/2023	N	EM16	UMCf	73.2 - 88.2	179,000	1,510,000	76,700	----	----	----	----	----	----	----	1,830,000
U4-E-06I	1/22/2024	N	EM17	UMCf	73.2 - 88.2	198,000	895,000	53,200	----	----	----	----	----	----	----	2,070,000
U4-E-06I	2/13/2024	N	EM18	UMCf	73.2 - 88.2	219,000	305,000	<24,000	----	----	----	----	----	----	----	2,570,000
U4-E-06I	3/11/2024	N	EM19	UMCf	73.2 - 88.2	95,400	12,700	<120	----	----	----	----	----	----	----	3,400,000
U4-E-06I	6/11/2024	N	EM20	UMCf	73.2 - 88.2	95,000	163,000	<480	----	6,790	75.5 J	1,900,000	1,900,000	<8,450	<8,450	2,800,000
U4-E-06I	9/27/2024	N	EM21	UMCf	73.2 - 88.2	24,400	191,000	<1,580	4,400	12,000 J-	<333	1,820,000	----	----	----	2,990,000
U4-E-07D	4/12/2022	N	BL02	UMCf	94.6 - 109.6	1,700,000	18,500,000	<240,000	<117	<7,000	<33.3	120,000	----	----	----	3,780,000
U4-E-07D	6/20/2024	N	EM20	UMCf	94.6 - 109.6	97,000	343,000	<24,000	----	62,700	3,950 J	955,000	955,000	<8,450	<8,450	1,520,000
U4-E-07D	9/26/2024	N	EM21	UMCf	94.6 - 109.6	64,900	7,300	<158	38,900	26,800	447 J	1,010,000	----	----	----	1,900,000

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	E314.0	E300.1	E300.1	E350.1	E351.2	E365.1	Alkalinity by SM2320B	Alkalinity by SM2320B	Alkalinity by SM2320B	Alkalinity by SM2320B	Anions by E300.0/SW9065A
						Perchlorate	Chlorate	Chlorite	Ammonia (as N)	Total Kjeldahl Nitrogen (TKN)	Phosphorus	Alkalinity as CaCO3	Bicarbonate Alkalinity as CaCO3	Carbonate Alkalinity as CaCO3	Hydroxide Alkalinity as CaCO3	Chloride
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-E-07I	4/12/2022	N	BL02	UMCf	74.7 - 89.7	301,000	4,470,000	<24,000	<117	<7,000	194 J+	179,000	----	----	----	723,000
U4-E-07I	10/11/2022	N	EM02	UMCf	74.7 - 89.7	948,000	7,420,000	<240,000	----	----	----	----	----	----	----	1,810,000
U4-E-07I	11/3/2022	N	EM03	UMCf	74.7 - 89.7	877,000	6,410,000	<240,000	----	----	----	----	----	----	----	1,580,000
U4-E-07I	12/6/2022	N	EM04	UMCf	74.7 - 89.7	891,000	6,320,000	<240000 UJ	----	----	----	----	----	----	----	1,490,000
U4-E-07I	1/9/2023	N	EM05	UMCf	74.7 - 89.7	855,000	7,100,000	531,000	----	----	----	----	----	----	----	1,720,000
U4-E-07I	2/13/2023	N	EM06	UMCf	74.7 - 89.7	858,000	7,680,000	<24,000	----	----	----	----	----	----	----	1,690,000
U4-E-07I	3/13/2023	N	EM07	UMCf	74.7 - 89.7	768,000 J-	7,090,000	<24,000	----	----	----	----	----	----	----	1,770,000
U4-E-07I	4/19/2023	N	EM08	UMCf	74.7 - 89.7	738,000	6,690,000	<24,000	----	----	----	----	----	----	----	1,630,000
U4-E-07I	5/15/2023	N	EM09	UMCf	74.7 - 89.7	561,000	5,320,000	<24,000	----	----	----	----	----	----	----	1,600,000
U4-E-07I	6/12/2023	N	EM10	UMCf	74.7 - 89.7	618,000	5,540,000	<24000 UJ	----	----	----	----	----	----	----	1,530,000
U4-E-07I	7/11/2023	N	EM11	UMCf	74.7 - 89.7	667,000	6,050,000	<24,000	----	----	----	----	----	----	----	1,750,000
U4-E-07I	8/11/2023	N	EM12	UMCf	74.7 - 89.7	672,000	5,870,000	<24,000	----	----	----	----	----	----	----	1,860,000
U4-E-07I	9/11/2023	N	EM13	UMCf	74.7 - 89.7	689,000	7,300,000	<24,000	----	----	----	----	----	----	----	2,080,000
U4-E-07I	10/16/2023	N	EM14	UMCf	74.7 - 89.7	687,000	7,380,000	<24,000	----	----	----	----	----	----	----	2,020,000
U4-E-07I	12/13/2023	N	EM16	UMCf	74.7 - 89.7	747,000	8,270,000	<24,000	----	----	----	----	----	----	----	1,990,000
U4-E-07I	1/23/2024	N	EM17	UMCf	74.7 - 89.7	920,000	7,010,000	<120,000	----	----	----	----	----	----	----	2,420,000
U4-E-07I	2/13/2024	N	EM18	UMCf	74.7 - 89.7	975,000	7,090,000	<120,000	----	----	----	----	----	----	----	1,970,000
U4-E-07I	3/11/2024	N	EM19	UMCf	74.7 - 89.7	801,000	7,890,000	<24,000	----	----	----	----	----	----	----	1,800,000
U4-E-07I	6/11/2024	N	EM20	UMCf	74.7 - 89.7	819,000	6,490,000	<24,000	----	<1,400	175	559,000	559,000	<8,450	<8,450	1,750,000
U4-E-07I	9/26/2024	N	EM21	UMCf	74.7 - 89.7	735,000	4,980,000	<79,000	717	<1,400	<333	583,000	----	----	----	1,700,000
U4-E-08D	4/12/2022	N	BL02	UMCf	94.6 - 109.6	1,570,000	20,600,000	<240,000	<117	<7,000	<33.3	131,000	----	----	----	4,180,000
U4-E-08D	10/11/2022	N	EM02	UMCf	94.6 - 109.6	1,330,000	12,000,000	<240,000	----	----	----	----	----	----	----	2,780,000
U4-E-08D	11/3/2022	N	EM03	UMCf	94.6 - 109.6	1,200,000	15,000,000	<240,000	----	----	----	----	----	----	----	2,490,000
U4-E-08D	12/6/2022	N	EM04	UMCf	94.6 - 109.6	1,110,000 J+	9,590,000	<240000 UJ	----	----	----	----	----	----	----	2,210,000
U4-E-08D	1/9/2023	N	EM05	UMCf	94.6 - 109.6	1,140,000	10,900,000	<240,000	----	----	----	----	----	----	----	2,400,000
U4-E-08D	2/13/2023	N	EM06	UMCf	94.6 - 109.6	1,070,000	9,600,000	<240,000	----	----	----	----	----	----	----	2,140,000
U4-E-08D	3/13/2023	N	EM07	UMCf	94.6 - 109.6	1,130,000	8,690,000	<240,000	----	----	----	----	----	----	----	2,370,000
U4-E-08D	4/19/2023	N	EM08	UMCf	94.6 - 109.6	930,000	779,000	<24,000	----	----	----	----	----	----	----	2,140,000
U4-E-08D	5/17/2023	N	EM09	UMCf	94.6 - 109.6	910,000	8,830,000	<24,000	----	----	----	----	----	----	----	2,060,000
U4-E-08D	6/12/2023	N	EM10	UMCf	94.6 - 109.6	859,000	7,060,000	<240000 UJ	----	----	----	----	----	----	----	1,930,000
U4-E-08D	7/11/2023	N	EM11	UMCf	94.6 - 109.6	921,000	8,980,000	<24,000	----	----	----	----	----	----	----	2,010,000
U4-E-09D	4/15/2022	N	BL02	UMCf	94.5 - 109.5	464,000	7,850,000	<24,000	<117	<3,500	<33.3	76,100	76,100	<8,450	<8,450	1,710,000
U4-E-09D	6/10/2024	N	EM20	UMCf	94.5 - 109.5	<30.0	<24,000	<15800 R	----	193,000 J-	43,400 J	2,190,000	2,190,000	<8,450	<8,450	267,000
U4-E-09D	9/27/2024	N	EM21	UMCf	94.5 - 109.5	<8.00	<1,580	<790	282,000 J-	506,000 J-	22,600	6,840,000	----	----	----	301,000
U4-E-09I	4/14/2022	N	BL02	UMCf	74.9 - 89.9	130,000	2,210,000	<24,000	<117	<1,400	52.3 J	105,000	105,000	<8,450	<8,450	638,000
U4-E-09I	6/10/2024	N	EM20	UMCf	74.9 - 89.9	<30.0	22,600 J	<7900 R	----	530,000	131,000	2,730,000	2,730,000	<8,450	<8,450	261,000
U4-E-09I	6/10/2024	FD	EM20	UMCf	74.9 - 89.9	<30.0	22,200	<1580 R	----	486,000	125,000	2,670,000	2,670,000	<8,450	<8,450	244,000
U4-E-09I	9/26/2024	N	EM21	UMCf	74.9 - 89.9	<8.00	<1,580	<790	600,000 J-	356,000 J	47,000 J	9,390,000	----	----	----	423,000
U4-E-09I	9/26/2024	FD	EM21	UMCf	74.9 - 89.9	<8.00	<1,580	<790	644,000 J-	852,000 J	25,800 J	9,410,000	----	----	----	277,000
U4-E-10D	4/13/2022	N	BL02	UMCf	94.5 - 109.5	412,000	3,430,000	<24,000	<117	<1,400	33.3 R	59,100	51,600	<8,450	<8,450	895,000
U4-E-10D	6/19/2024	N	EM20	UMCf	94.5 - 109.5	<3.00	<24,000	2,380,000	----	499,000 J	111,000 J	5,890,000	5,890,000	<8,450	<8,450	403,000
U4-E-10D	9/25/2024	N	EM21	UMCf	94.5 - 109.5	196,000	3,330,000	<15,800	191 J	<1,400	226 J+	474,000	----	----	----	858,000
U4-E-10I	4/13/2022	N	BL02	UMCf	74.2 - 89.2	407,000	3,550,000	<24,000	<117	<1,400	33.3 R	114,000	114,000	<8,450	<8,450	911,000
U4-E-10I	6/11/2024	N	EM20	UMCf	74.2 - 89.2	<30.0	25,000	1,750,000	----	1,660,000	126,000	3,260,000	3,260,000	<8,450	<8,450	247,000
U4-E-10I	9/26/2024	N	EM21	UMCf	74.2 - 89.2	<16.0	<1,580	<790	413,000 J-	432,000 J-	11,500	9,150,000	----	----	----	347,000
U4-MW-01D	4/19/2022	N	BL02	UMCf	96.7 - 106.7	708,000	5,180,000	<24,000	----	----	----	----	----	----	----	1,040,000
U4-MW-01D	2/16/2023	N	EM06	UMCf	96.7 - 106.7	647,000	6,010,000	----	----	----	----	----	----	----	----	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	E314.0	E300.1	E300.1	E350.1	E351.2	E365.1	Alkalinity by SM2320B	Alkalinity by SM2320B	Alkalinity by SM2320B	Alkalinity by SM2320B	Anions by E300.0/SW9065A
						Perchlorate	Chlorate	Chlorite	Ammonia (as N)	Total Kjeldahl Nitrogen (TKN)	Phosphorus	Alkalinity as CaCO3	Bicarbonate Alkalinity as CaCO3	Carbonate Alkalinity as CaCO3	Hydroxide Alkalinity as CaCO3	Chloride
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-01D	3/20/2023	N	EM07	UMCf	96.7 - 106.7	1,140,000	4,300,000	<24,000	<117	<560	<33.3	126,000	126,000	<8,450	<8,450	955,000
U4-MW-01D	6/13/2023	N	EM10	UMCf	96.7 - 106.7	469,000	3,100,000	<24000 UJ	<117	<280	40.0 J	78,100	78,100	<8,450	<8,450	723,000
U4-MW-01D	9/14/2023	N	EM13	UMCf	96.7 - 106.7	429,000	3,000,000	<24,000	<117	<280	<33.3	85,200	85,200	<8,450	<8,450	727,000
U4-MW-01D	12/14/2023	N	EM16	UMCf	96.7 - 106.7	372,000	3,030,000	<24,000	<117	<280	1,900	440,000	440,000	<8,450	<8,450	714,000
U4-MW-01D	3/13/2024	N	EM19	UMCf	96.7 - 106.7	374,000	2,890,000	<24,000	<117	<140	<33.3	131,000	131,000	<8,450	<8,450	708,000
U4-MW-01D	6/18/2024	N	EM20	UMCf	96.7 - 106.7	410,000	2,690,000	<24,000	----	<2,800	<33.3	105,000	105,000	<8,450	<8,450	703,000
U4-MW-01D	9/19/2024	N	EM21	UMCf	96.7 - 106.7	404,000	2,990,000	<15,800	<117	<280	48.9 J	103,000	----	----	----	787,000
U4-MW-01DD	4/19/2022	N	BL02	UMCf	119.9 - 129.9	29,800	217,000	<2,400	----	----	----	----	----	----	----	191,000
U4-MW-01DD	4/19/2022	FD	BL02	UMCf	119.9 - 129.9	28,500	202,000	<2,400	----	----	----	----	----	----	----	191,000
U4-MW-01DD	3/15/2023	N	EM07	UMCf	119.9 - 129.9	307,000	2,140,000	<24,000	<117	<140	108	62,600	62,600	<8,450	<8,450	539,000
U4-MW-01DD	6/13/2023	N	EM10	UMCf	119.9 - 129.9	239,000	1,480,000	<24000 UJ	<117	<140	87.1 J	36,300	36,300	<8,450	<8,450	430,000
U4-MW-01DD	9/14/2023	N	EM13	UMCf	119.9 - 129.9	267,000	2,110,000	<24,000	<117	<140	<33.3	46,600	46,600	<8,450	<8,450	437,000
U4-MW-01DD	12/15/2023	N	EM16	UMCf	119.9 - 129.9	118,000 J-	944,000	<24,000	<117	<140	51.0 J	55,200	55,200	<8,450	<8,450	312,000
U4-MW-01DD	3/12/2024	N	EM19	UMCf	119.9 - 129.9	193,000	1,440,000	<12,000	<117	<280	<33.3	55,300	55,300	<8,450	<8,450	355,000
U4-MW-01DD	6/18/2024	N	EM20	UMCf	119.9 - 129.9	131,000	911,000	<12,000	----	<140	63.1 J	57,300	57,300	<8,450	<8,450	298,000
U4-MW-01DD	9/20/2024	N	EM21	UMCf	119.9 - 129.9	195,000	645,000	<7,900	<117	<140	86.3 J	63,500	----	----	----	259,000
U4-MW-01I	4/19/2022	N	BL02	UMCf	76.7 - 86.7	410,000	3,510,000	<24,000	----	----	----	----	----	----	----	920,000
U4-MW-01I	3/20/2023	N	EM07	UMCf	76.7 - 86.7	679,000	5,140,000	<24,000	<117	<280	<33.3	339,000	339,000	<8,450	<8,450	1,420,000
U4-MW-01I	6/12/2023	N	EM10	UMCf	76.7 - 86.7	485,000	3,060,000	<24000 UJ	<117	<560	51.7 J	75,300	75,300	<8,450	<8,450	772,000
U4-MW-01I	9/14/2023	N	EM13	UMCf	76.7 - 86.7	532,000	3,980,000	<24,000	<117	<280	<33.3	81,500	81,500	<8,450	<8,450	850,000
U4-MW-01I	12/15/2023	N	EM16	UMCf	76.7 - 86.7	569,000 J-	5,310,000	<24,000	<117	<280	<33.3	88,400	88,400	<8,450	<8,450	1,160,000
U4-MW-01I	3/13/2024	N	EM19	UMCf	76.7 - 86.7	664,000	5,540,000	<24,000	<1,170	<700	<33.3	130,000	130,000	<8,450	<8,450	1,280,000
U4-MW-01I	6/18/2024	N	EM20	UMCf	76.7 - 86.7	659,000	4,770,000	<24,000	----	<2,800	40.1 J	102,000	102,000	<8,450	<8,450	1,140,000
U4-MW-01I	9/19/2024	N	EM21	UMCf	76.7 - 86.7	625,000	4,350,000	<79,000	<117	<280	81.9 J	108,000	----	----	----	1,180,000
U4-MW-01S	4/18/2022	N	BL02	UMCf	54.7 - 64.7	37,300	312,000	<2,400	----	----	----	----	----	----	----	289,000
U4-MW-01S	3/15/2023	N	EM07	UMCf	54.7 - 64.7	22,600	241,000	3,630 J	<117	<140 UJ	39.4 J	142,000	131,000	10,300 J	<8,450	261,000
U4-MW-01S	6/13/2023	N	EM10	UMCf	54.7 - 64.7	28,100	288,000	<2,400	<117	<140 UJ	37.6 J	129,000	119,000	9,840 J	<8,450	270,000
U4-MW-01S	9/15/2023	N	EM13	UMCf	54.7 - 64.7	21,300	251,000	<2,400	<117	<140 UJ	<33.3	138,000	126,000	12,100 J	<8,450	286,000
U4-MW-01S	12/13/2023	N	EM16	UMCf	54.7 - 64.7	15,600	213,000	<2,400	<117	<140	<33.3	161,000	145,000	15,900 J	<8,450	257,000
U4-MW-01S	3/13/2024	N	EM19	UMCf	54.7 - 64.7	7,580	90,800	<240 UJ	<117	302	<33.3	347,000	347,000	<8,450	<8,450	231,000
U4-MW-01S	6/18/2024	N	EM20	UMCf	54.7 - 64.7	1,740	5,680	<120	----	294	48.8 J	643,000	639,000	<8,450	<8,450	249,000
U4-MW-01S	9/20/2024	N	EM21	UMCf	54.7 - 64.7	14.9	<31.7	<15.8	<117	866 J+	791	869,000	----	----	----	281,000
U4-MW-02D	4/14/2022	N	BL02	UMCf	95.0 - 110.0	2,850,000	24,800,000	<240,000	----	----	----	----	----	----	----	6,150,000
U4-MW-02D	10/11/2022	N	EM02	UMCf	95.0 - 110.0	3,530,000	28,400,000	----	----	----	----	----	----	----	----	----
U4-MW-02D	11/1/2022	N	EM03	UMCf	95.0 - 110.0	3,790,000	27,900,000	----	----	----	----	----	----	----	----	----
U4-MW-02D	12/7/2022	N	EM04	UMCf	95.0 - 110.0	3,590,000	23,500,000	----	----	----	----	----	----	----	----	----
U4-MW-02D	1/10/2023	N	EM05	UMCf	95.0 - 110.0	3,140,000	23,800,000	----	----	----	----	----	----	----	----	----
U4-MW-02D	2/13/2023	N	EM06	UMCf	95.0 - 110.0	3,220,000	21,700,000	----	----	----	----	----	----	----	----	----
U4-MW-02D	3/17/2023	N	EM07	UMCf	95.0 - 110.0	2,190,000	19,700,000	<240,000	<117	<1,400	<33.3	126,000	126,000	<8,450	<8,450	4,810,000
U4-MW-02D	4/19/2023	N	EM08	UMCf	95.0 - 110.0	3,080,000	21,900,000	<240,000	<117	<5,600	64.6 J	----	----	----	----	5,540,000
U4-MW-02D	5/9/2023	N	EM09	UMCf	95.0 - 110.0	2,720,000	25,300,000	<240,000	<117	<2800 R	55.1 J	----	----	----	----	5,200,000
U4-MW-02D	6/13/2023	N	EM10	UMCf	95.0 - 110.0	2,820,000	17,800,000	<240,000	<117	<2,800	98.1 J	129,000	129,000	<8,450	<8,450	4,360,000
U4-MW-02D	7/18/2023	N	EM11	UMCf	95.0 - 110.0	2,780,000	21,200,000	<240,000	<117	<2800 UJ	<33.3	----	----	----	----	5,070,000
U4-MW-02D	8/14/2023	N	EM12	UMCf	95.0 - 110.0	2,620,000	16,900,000	<240,000	<117	<1,400	<33.3	----	----	----	----	4,680,000
U4-MW-02D	9/11/2023	N	EM13	UMCf	95.0 - 110.0	2,210,000	18,500,000	<480,000	<117	<2,800	148	140,000	140,000	<8,450	<8,450	4,350,000
U4-MW-02D	10/19/2023	N	EM14	UMCf	95.0 - 110.0	2,450,000	21,600,000	<240,000	<117	<2,800	<33.3	----	----	----	----	4,900,000
U4-MW-02D	11/15/2023	N	EM15	UMCf	95.0 - 110.0	1,240,000 J-	17,600,000	<240000 UJ	<117	<1,400	<33.3	----	----	----	----	4,410,000

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Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	E314.0	E300.1	E300.1	E350.1	E351.2	E365.1	Alkalinity by SM2320B	Alkalinity by SM2320B	Alkalinity by SM2320B	Alkalinity by SM2320B	Anions by E300.0/SW9065A
						Perchlorate	Chlorate	Chlorite	Ammonia (as N)	Total Kjeldahl Nitrogen (TKN)	Phosphorus	Alkalinity as CaCO3	Bicarbonate Alkalinity as CaCO3	Carbonate Alkalinity as CaCO3	Hydroxide Alkalinity as CaCO3	Chloride
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-02D	12/14/2023	N	EM16	UMCf	95.0 - 110.0	2,170,000	18,300,000	<240,000	<117	<7,000	58.0 J	128,000	128,000	<8,450	<8,450	3,810,000
U4-MW-02D	1/25/2024	N	EM17	UMCf	95.0 - 110.0	2,120,000	16,700,000	<240,000	<117	<1,400	142 J+	----	----	----	----	3,740,000
U4-MW-02D	2/12/2024	N	EM18	UMCf	95.0 - 110.0	2,350,000	16,800,000	<240,000	<117	<1,400	67.5 J	----	----	----	----	3,750,000
U4-MW-02D	3/13/2024	N	EM19	UMCf	95.0 - 110.0	2,310,000	18,500,000	<120,000	<117	<1,400	<33.3	122,000	122,000	<8,450	<8,450	3,720,000
U4-MW-02D	6/17/2024	N	EM20	UMCf	95.0 - 110.0	1,950,000	13,900,000	<240,000	<117	<2,800	44.1 J	135,000	135,000	<8,450	<8,450	3,560,000
U4-MW-02D	9/23/2024	N	EM21	UMCf	95.0 - 110.0	2,130,000	16,500,000	<158,000	<117	<7,000	42.8 J	132,000	----	----	----	4,010,000
U4-MW-02I	4/14/2022	N	BL02	UMCf	75.0 - 90.0	291,000	2,420,000	<24,000	----	----	----	----	----	----	----	808,000
U4-MW-02I	10/11/2022	N	EM02	UMCf	75.0 - 90.0	891,000	5,380,000	----	----	----	----	----	----	----	----	----
U4-MW-02I	11/2/2022	N	EM03	UMCf	75.0 - 90.0	1,190,000	7,270,000	----	----	----	----	----	----	----	----	----
U4-MW-02I	11/2/2022	FD	EM03	UMCf	75.0 - 90.0	1,200,000	6,610,000	----	----	----	----	----	----	----	----	----
U4-MW-02I	12/8/2022	N	EM04	UMCf	75.0 - 90.0	103,000	707,000	----	----	----	----	----	----	----	----	----
U4-MW-02I	12/8/2022	FD	EM04	UMCf	75.0 - 90.0	105,000	737,000	----	----	----	----	----	----	----	----	----
U4-MW-02I	1/13/2023	N	EM05	UMCf	75.0 - 90.0	619,000	4,490,000	----	----	----	----	----	----	----	----	----
U4-MW-02I	1/13/2023	FD	EM05	UMCf	75.0 - 90.0	620,000	4,410,000	----	----	----	----	----	----	----	----	----
U4-MW-02I	2/15/2023	N	EM06	UMCf	75.0 - 90.0	1,490,000 J+	12,600,000	----	----	----	----	----	----	----	----	----
U4-MW-02I	2/15/2023	FD	EM06	UMCf	75.0 - 90.0	1,410,000 J+	12,000,000	----	----	----	----	----	----	----	----	----
U4-MW-02I	3/17/2023	N	EM07	UMCf	75.0 - 90.0	1,300,000	12,000,000	<240,000	<117	<1,400	<33.3	311,000	311,000	<8,450	<8,450	3,130,000
U4-MW-02I	3/17/2023	FD	EM07	UMCf	75.0 - 90.0	133,000 J	12,300,000	<240,000	<117	<1,400	<33.3	306,000	306,000	<8,450	<8,450	3,120,000
U4-MW-02I	4/20/2023	N	EM08	UMCf	75.0 - 90.0	33,000	211,000	<2,400	<117	1,780	34.1 J	----	----	----	----	237,000
U4-MW-02I	4/20/2023	FD	EM08	UMCf	75.0 - 90.0	32,200	212,000	<2,400	<117	1,560	<33.3	----	----	----	----	240,000
U4-MW-02I	5/9/2023	N	EM09	UMCf	75.0 - 90.0	35,000	187,000	37,600	<117	894	38.4 J	----	----	----	----	521,000
U4-MW-02I	5/9/2023	FD	EM09	UMCf	75.0 - 90.0	35,800	190,000	32,800	<117	1,030	43.2 J	----	----	----	----	510,000
U4-MW-02I	6/12/2023	N	EM10	UMCf	75.0 - 90.0	56,200	174,000	8,820 J-	<117	<140	60.1 J	1,130,000	1,130,000	<8,450	<8,450	611,000
U4-MW-02I	6/12/2023	FD	EM10	UMCf	75.0 - 90.0	57,500	170,000	9,030 J-	<117	<140	43.8 J	1,160,000	1,160,000	<8,450	<8,450	611,000
U4-MW-02I	7/18/2023	N	EM11	UMCf	75.0 - 90.0	158	<120	33,900 J-	<117	1,400	<33.3 UJ	----	----	----	----	452,000
U4-MW-02I	7/18/2023	FD	EM11	UMCf	75.0 - 90.0	159	<240	37,300 J-	<117	1,400	35.4 J	----	----	----	----	457,000
U4-MW-02I	8/11/2023	N	EM12	UMCf	75.0 - 90.0	435,000	3,240,000	<24,000	<117	<1,400	56.9 J	----	----	----	----	1,480,000
U4-MW-02I	8/11/2023	FD	EM12	UMCf	75.0 - 90.0	429,000	3,120,000	<24,000	<117	<700	<33.3	----	----	----	----	1,630,000
U4-MW-02I	9/11/2023	N	EM13	UMCf	75.0 - 90.0	239,000	1,430,000	118,000 J+	<117	<140	<33.3	1,490,000	1,490,000	<8,450	<8,450	1,490,000
U4-MW-02I	9/11/2023	FD	EM13	UMCf	75.0 - 90.0	246,000	1,360,000	128,000 J+	<117	<140	34.8 J	1,490,000	1,490,000	<8,450	<8,450	1,490,000
U4-MW-02I	10/19/2023	N	EM14	UMCf	75.0 - 90.0	678,000	5,630,000	<24,000	<117	<700	<33.3	----	----	----	----	2,360,000
U4-MW-02I	10/19/2023	FD	EM14	UMCf	75.0 - 90.0	692,000	5,640,000	<24,000	<117	<700	<33.3	----	----	----	----	2,350,000
U4-MW-02I	11/15/2023	N	EM15	UMCf	75.0 - 90.0	532,000 J-	4,390,000 J+	<24000 UJ	<117	<280	<33.3	----	----	----	----	2,440,000
U4-MW-02I	11/15/2023	FD	EM15	UMCf	75.0 - 90.0	535,000 J-	4,370,000 J+	<24000 UJ	<117	<280	<33.3	----	----	----	----	2,450,000
U4-MW-02I	12/14/2023	N	EM16	UMCf	75.0 - 90.0	614,000	5,460,000	47,100 J	<117	<1,400	<33.3	1,840,000	1,840,000	<8,450	<8,450	2,360,000
U4-MW-02I	12/14/2023	FD	EM16	UMCf	75.0 - 90.0	723,000	5,490,000	35,700 J	<117	<1,400	<33.3	1,860,000	1,860,000	<8,450	<8,450	2,550,000
U4-MW-02I	1/25/2024	N	EM17	UMCf	75.0 - 90.0	1,020,000	8,400,000	47,700 J	<117	<1,400	53.8 J	----	----	----	----	2,760,000
U4-MW-02I	1/25/2024	FD	EM17	UMCf	75.0 - 90.0	1,050,000	8,470,000	47,400 J	<117	<1,400	51.1 J	----	----	----	----	2,720,000
U4-MW-02I	2/12/2024	N	EM18	UMCf	75.0 - 90.0	1,070,000	7,320,000	<120,000	<117	<560	43.1 J	----	----	----	----	2,870,000
U4-MW-02I	2/12/2024	FD	EM18	UMCf	75.0 - 90.0	1,130,000	7,280,000	<120,000	<117	<560	45.2 J	----	----	----	----	2,930,000
U4-MW-02I	3/13/2024	N	EM19	UMCf	75.0 - 90.0	1,050,000	8,150,000	<24,000	<117	<1,400	<33.3	1,410,000	1,410,000	<8,450	<8,450	2,930,000
U4-MW-02I	3/13/2024	FD	EM19	UMCf	75.0 - 90.0	986,000	8,130,000	52,500	<117	<1,400	<33.3	1,430,000	1,430,000	<8,450	<8,450	2,850,000
U4-MW-02I	6/17/2024	N	EM20	UMCf	75.0 - 90.0	388,000	1,900,000	69,700	<117	<140	65.7 J	1,710,000	1,710,000	<8,450	<8,450	2,320,000
U4-MW-02I	6/17/2024	FD	EM20	UMCf	75.0 - 90.0	418,000	1,890,000	80,800	<117	<140	43.4 J	1,670,000	1,670,000	<8,450	<8,450	2,350,000
U4-MW-02I	9/23/2024	N	EM21	UMCf	75.0 - 90.0	586,000	3,410,000	<15,800	<117	<140	44.8 J	1,410,000	----	----	----	2,410,000
U4-MW-02I	9/23/2024	FD	EM21	UMCf	75.0 - 90.0	493,000	2,880,000	<15,800	<117	<140	<33.3	1,470,000	----	----	----	2,180,000
U4-MW-03D	4/20/2022	N	BL02	UMCf	96.6 - 106.6	1,430,000	9,200,000	<240,000	----	----	----	----	----	----	----	2,110,000

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	E314.0	E300.1	E300.1	E350.1	E351.2	E365.1	Alkalinity by SM2320B	Alkalinity by SM2320B	Alkalinity by SM2320B	Alkalinity by SM2320B	Anions by E300.0/SW9065A
						Perchlorate	Chlorate	Chlorite	Ammonia (as N)	Total Kjeldahl Nitrogen (TKN)	Phosphorus	Alkalinity as CaCO3	Bicarbonate Alkalinity as CaCO3	Carbonate Alkalinity as CaCO3	Hydroxide Alkalinity as CaCO3	Chloride
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-03D	2/16/2023	N	EM06	UMCf	96.6 - 106.6	997,000	7,490,000	----	----	----	----	----	----	----	----	----
U4-MW-03D	3/16/2023	N	EM07	UMCf	96.6 - 106.6	1,070,000	6,830,000	<24,000	<117	<1,400	<33.3	62,000	62,000	<8,450	<8,450	1,550,000
U4-MW-03D	3/16/2023	FD	EM07	UMCf	96.6 - 106.6	985,000	7,070,000	<24,000	<117	<1,400	<33.3	62,100	62,100	<8,450	<8,450	1,520,000
U4-MW-03D	6/15/2023	N	EM10	UMCf	96.6 - 106.6	1,050,000	5,910,000	<24,000	<117	<700	<33.3	62,800	62,800	<8,450	<8,450	1,330,000
U4-MW-03D	9/14/2023	N	EM13	UMCf	96.6 - 106.6	1,300,000	7,370,000	<24,000	<117	<700	<33.3	130,000	130,000	<8,450	<8,450	1,690,000
U4-MW-03D	12/13/2023	N	EM16	UMCf	96.6 - 106.6	1,120,000	6,360,000	<24,000	<117	<700	<33.3	493,000	493,000	<8,450	<8,450	2,020,000
U4-MW-03D	3/15/2024	N	EM19	UMCf	96.6 - 106.6	785,000	4,910,000	<24,000	<117	<1,400	181	480,000	480,000	<8,450	<8,450	1,770,000
U4-MW-03D	6/17/2024	N	EM20	UMCf	96.6 - 106.6	969,000	4,140,000	<24,000	----	<140	48.3 J	648,000	648,000	<8,450	<8,450	1,800,000
U4-MW-03D	9/18/2024	N	EM21	UMCf	96.6 - 106.6	1,010,000	4,250,000	<15,800	<117	<280	112	522,000	----	----	----	1,750,000
U4-MW-03DD	4/20/2022	N	BL02	UMCf	119.7 - 129.7	152,000	735,000	<2,400	----	----	----	----	----	----	----	319,000
U4-MW-03DD	3/15/2023	N	EM07	UMCf	119.7 - 129.7	5,060	24,200	<240	<117	<140	128	88,000	88,000	<8,450	<8,450	140,000
U4-MW-03DD	6/15/2023	N	EM10	UMCf	119.7 - 129.7	229	7,040	<120	<117	<140	121	81,800	81,800	<8,450	<8,450	134,000
U4-MW-03DD	9/14/2023	N	EM13	UMCf	119.7 - 129.7	1,720	6,610	<120	<117	<140	95.7 J	87,400	83,800	<8,450	<8,450	140,000 J-
U4-MW-03DD	12/14/2023	N	EM16	UMCf	119.7 - 129.7	1,740 J-	10,000	<120 UJ	<117	<140	135 J+	88,200	88,200	<8,450	<8,450	139,000 J-
U4-MW-03DD	3/14/2024	N	EM19	UMCf	119.7 - 129.7	1,710 J+	8,280 J+	<24.0	<117	<140	49.6 J	88,600	88,300	<8,450	<8,450	140,000 J-
U4-MW-03DD	6/17/2024	N	EM20	UMCf	119.7 - 129.7	1,220	5,850	<120	----	<140	90.9 J	88,300	86,000	<8,450	<8,450	139,000
U4-MW-03DD	9/18/2024	N	EM21	UMCf	119.7 - 129.7	1,090	3,570	<158	<117	146 J	159	88,600	----	----	----	138,000
U4-MW-03I	4/19/2022	N	BL02	UMCf	76.6 - 86.6	207,000	1,200,000	<24,000	----	----	----	----	----	----	----	391,000
U4-MW-03I	3/15/2023	N	EM07	UMCf	76.6 - 86.6	930,000	5,940,000	<24,000	<117	<700	<33.3	96,300	96,300	<8,450	<8,450	1,340,000
U4-MW-03I	6/14/2023	N	EM10	UMCf	76.6 - 86.6	954,000	5,330,000	<24,000	<117	<1,400	46.2 J	73,900	73,900	<8,450	<8,450	1,290,000
U4-MW-03I	6/14/2023	FD	EM10	UMCf	76.6 - 86.6	983,000	5,480,000	<24,000	<117	<1,400	<33.3	73,700	73,700	<8,450	<8,450	1,290,000
U4-MW-03I	9/11/2023	N	EM13	UMCf	76.6 - 86.6	1,270,000	6,400,000	<24,000	<117	<1,400	<33.3	136,000	136,000	<8,450	<8,450	1,600,000
U4-MW-03I	9/11/2023	FD	EM13	UMCf	76.6 - 86.6	1,340,000	6,880,000	<24,000	<117	<1,400	<33.3	142,000	142,000	<8,450	<8,450	1,660,000
U4-MW-03I	12/13/2023	N	EM16	UMCf	76.6 - 86.6	993,000	6,090,000	<24,000	<117	<140	<33.3	495,000	495,000	<8,450	<8,450	1,480,000
U4-MW-03I	12/13/2023	FD	EM16	UMCf	76.6 - 86.6	1,010,000	6,050,000	<24,000	<117	<140	43.3 J	492,000	492,000	<8,450	<8,450	1,600,000
U4-MW-03I	3/14/2024	N	EM19	UMCf	76.6 - 86.6	727,000	4,670,000	<24000 R	<117	<140	<33.3	730,000	730,000	<8,450	<8,450	1,790,000
U4-MW-03I	3/14/2024	FD	EM19	UMCf	76.6 - 86.6	728,000	4,660,000	<24000 R	<117	<140	54.7 J	733,000	733,000	<8,450	<8,450	1,910,000
U4-MW-03I	6/19/2024	N	EM20	UMCf	76.6 - 86.6	461,000	1,260,000	71,300	----	<140	<33.3	1,970,000	1,970,000	<8,450	<8,450	2,060,000
U4-MW-03I	6/19/2024	FD	EM20	UMCf	76.6 - 86.6	488,000	1,250,000	63,300	----	<140 UJ	<33.3	1,940,000	1,940,000	<8,450	<8,450	2,060,000
U4-MW-03I	9/20/2024	N	EM21	UMCf	76.6 - 86.6	34,300	53,900	<316	230 J	1,940	160 J+	2,320,000	----	----	----	1,410,000
U4-MW-03I	9/20/2024	FD	EM21	UMCf	76.6 - 86.6	39.1	73.4	<15.8 UJ	<117	1,660	707	965,000	----	----	----	318,000
U4-MW-03S	4/18/2022	N	BL02	UMCf	54.5 - 64.5	26,500	262,000	<2,400	----	----	----	----	----	----	----	222,000
U4-MW-03S	4/18/2022	FD	BL02	UMCf	54.5 - 64.5	26,200	264,000	<2,400	----	----	----	----	----	----	----	215,000
U4-MW-03S	3/15/2023	N	EM07	UMCf	54.5 - 64.5	54,600	389,000	<2,400	<117	<140	72.7 J	260,000	152,000	109,000	<8,450	241,000
U4-MW-03S	6/15/2023	N	EM10	UMCf	54.5 - 64.5	57,800	431,000	<2,400	<117	<140	71.7 J	226,000	191,000	35,000	<8,450	259,000
U4-MW-03S	9/14/2023	N	EM13	UMCf	54.5 - 64.5	46,400	359,000	<2,400	<117	<140	<33.3	358,000	319,000	38,900	<8,450	313,000
U4-MW-03S	12/13/2023	N	EM16	UMCf	54.5 - 64.5	39,700	254,000	<2,400	<117	<140 UJ	97.4 J	394,000	336,000	57,600	<8,450	308,000
U4-MW-03S	3/14/2024	N	EM19	UMCf	54.5 - 64.5	17,500	132,000	<2,400	<117	<140	85.6 J	750,000	666,000	84,600	<8,450	342,000
U4-MW-03S	6/14/2024	N	EM20	UMCf	54.5 - 64.5	13,000	71,300	<240 UJ	----	289	123 J+	1,070,000	990,000	80,200	<8,450	351,000
U4-MW-03S	9/18/2024	N	EM21	UMCf	54.5 - 64.5	3,770	6,090	<158	<117	955 J+	195	1,060,000	----	----	----	366,000
U4-MW-04D	4/19/2022	N	BL02	UMCf	97.0 - 107.0	3,270,000	26,400,000	<240,000	----	----	----	----	----	----	----	5,690,000
U4-MW-04D	2/16/2023	N	EM06	UMCf	97.0 - 107.0	427,000	3,370,000	----	----	----	----	----	----	----	----	----
U4-MW-04D	3/21/2023	N	EM07	UMCf	97.0 - 107.0	42,200	2,770,000	<24,000	<117	<280	<33.3	169,000	169,000	<8,450	<8,450	680,000 J+
U4-MW-04D	6/14/2023	N	EM10	UMCf	97.0 - 107.0	306,000	1,970,000	<24,000	<117	<560	<33.3	280,000	280,000	<8,450	<8,450	612,000
U4-MW-04D	9/15/2023	N	EM13	UMCf	97.0 - 107.0	527,000	3,430,000	<24,000	<117	<280	<33.3	202,000	202,000	<8,450	<8,450	842,000
U4-MW-04D	12/12/2023	N	EM16	UMCf	97.0 - 107.0	366,000	2,650,000	<24,000	<117	<140	<33.3	514,000	514,000	<8,450	<8,450	955,000
U4-MW-04D	3/12/2024	N	EM19	UMCf	97.0 - 107.0	458,000	3,460,000	<24,000	<117	<280	<33.3	741,000	741,000	<8,450	<8,450	1,250,000

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	E314.0	E300.1	E300.1	E350.1	E351.2	E365.1	Alkalinity by SM2320B	Alkalinity by SM2320B	Alkalinity by SM2320B	Alkalinity by SM2320B	Anions by E300.0/SW9065A
						Perchlorate	Chlorate	Chlorite	Ammonia (as N)	Total Kjeldahl Nitrogen (TKN)	Phosphorus	Alkalinity as CaCO3	Bicarbonate Alkalinity as CaCO3	Carbonate Alkalinity as CaCO3	Hydroxide Alkalinity as CaCO3	Chloride
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-04D	6/19/2024	N	EM20	UMCf	97.0 - 107.0	672,000	4,890,000	<24,000	----	<1,400	<33.3	748,000	748,000	<8,450	<8,450	1,660,000
U4-MW-04D	9/24/2024	N	EM21	UMCf	97.0 - 107.0	979,000	7,490,000	<15,800	144 J	<2,800	106 J+	584,000	----	----	----	1,960,000
U4-MW-04I	4/19/2022	N	BL02	UMCf	76.8 - 86.8	1,100,000	10,700,000	<24,000	----	----	----	----	----	----	----	2,460,000
U4-MW-04I	3/20/2023	N	EM07	UMCf	76.8 - 86.8	1,880,000	7,880,000	<240,000	<117	<1,400	<33.3	111,000	111,000	<8,450	<8,450	2,080,000
U4-MW-04I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	735,000	6,020,000	<24,000	<117	<1,400	37.2 J	307,000	307,000	<8,450	<8,450	1,470,000
U4-MW-04I	9/14/2023	N	EM13	UMCf	76.8 - 86.8	1,540,000	13,500,000	<240,000	<117	<1,400	41.5 J	179,000	179,000	<8,450	<8,450	3,240,000
U4-MW-04I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	1,260,000	12,900,000	<240,000	<117	<14,000	<33.3	267,000	267,000	<8,450	<8,450	3,200,000
U4-MW-04I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	1,470,000	16,800,000	<120,000	<117	<1,400	340	278,000	278,000	<8,450	<8,450	3,350,000
U4-MW-04I	6/18/2024	N	EM20	UMCf	76.8 - 86.8	1,600,000	14,400,000	<240,000	<117	<5,600	68.9 J	275,000	275,000	<8,450	<8,450	3,880,000
U4-MW-04I	9/24/2024	N	EM21	UMCf	76.8 - 86.8	16,500,000	14,600,000	<79,000	<117	<7,000	296 J+	295,000	----	----	----	3,610,000
U4-MW-05D	4/15/2022	N	BL02	UMCf	98.2 - 108.2	2,240,000	13,600,000	<240,000	----	----	----	----	----	----	----	4,020,000
U4-MW-05D	10/13/2022	N	EM02	UMCf	98.2 - 108.2	2,930,000	12,500,000	----	----	----	----	----	----	----	----	----
U4-MW-05D	11/3/2022	N	EM03	UMCf	98.2 - 108.2	1,780,000	8,150,000	----	----	----	----	----	----	----	----	----
U4-MW-05D	12/7/2022	N	EM04	UMCf	98.2 - 108.2	2,000,000 J+	7,730,000	----	----	----	----	----	----	----	----	----
U4-MW-05D	1/11/2023	N	EM05	UMCf	98.2 - 108.2	1,720,000	6,020,000	----	----	----	----	----	----	----	----	----
U4-MW-05D	2/14/2023	N	EM06	UMCf	98.2 - 108.2	1,210,000	5,810,000	----	----	----	----	----	----	----	----	----
U4-MW-05D	3/16/2023	N	EM07	UMCf	98.2 - 108.2	1,070,000	5,680,000	<24,000	<117	<1,400	73.2 J	132,000	132,000	<8,450	<8,450	1,630,000
U4-MW-05D	4/20/2023	N	EM08	UMCf	98.2 - 108.2	757,000	3,130,000	<24,000	<117	<1,400	<33.3	----	----	----	----	1,160,000
U4-MW-05D	5/10/2023	N	EM09	UMCf	98.2 - 108.2	581,000	2,040,000	<24,000	<117	<140	66.8 J	----	----	----	----	1,230,000
U4-MW-05D	6/15/2023	N	EM10	UMCf	98.2 - 108.2	379,000	1,170,000	<24,000	<117	<140	38.7 J	1,130,000	1,130,000	<8,450	<8,450	1,250,000
U4-MW-05D	7/18/2023	N	EM11	UMCf	98.2 - 108.2	683,000	2,170,000	<24,000	<117	<140	<33.3	----	----	----	----	1,750,000
U4-MW-05D	8/14/2023	N	EM12	UMCf	98.2 - 108.2	940,000	3,610,000	<24,000	<117	<560	<33.3	----	----	----	----	1,950,000
U4-MW-05D	9/12/2023	N	EM13	UMCf	98.2 - 108.2	323,000	937,000	<24,000	<117	<140	<33.3	1,590,000	1,590,000	<8,450	<8,450	1,410,000
U4-MW-05D	10/18/2023	N	EM14	UMCf	98.2 - 108.2	654,000	2,740,000	24,500 J	<117	<700	<33.3	----	----	----	----	2,020,000
U4-MW-05D	11/16/2023	N	EM15	UMCf	98.2 - 108.2	677,000 J	2,990,000 J+	<24000 UJ	<117	<280	<33.3	----	----	----	----	1,850,000
U4-MW-05D	12/14/2023	N	EM16	UMCf	98.2 - 108.2	386,000 J-	1,660,000	340,000	<117	4,980	200 J+	2,160,000	2,160,000	<8,450	<8,450	1,010,000
U4-MW-05D	1/26/2024	N	EM17	UMCf	98.2 - 108.2	1,060,000	4,910,000	106,000	<117	<700	60.7 J	----	----	----	----	2,000,000
U4-MW-05D	2/14/2024	N	EM18	UMCf	98.2 - 108.2	1,130,000	4,840,000	69,100	<117	<140	74.2 J	----	----	----	----	2,480,000
U4-MW-05D	3/12/2024	N	EM19	UMCf	98.2 - 108.2	1,020,000	4,400,000	<24,000	<117	<280	35.1 J	1,960,000	1,960,000	<8,450	<8,450	2,090,000
U4-MW-05D	6/18/2024	N	EM20	UMCf	98.2 - 108.2	1,410,000	6,760,000	37,800 J	<117	<1,400	46.7 J	2,600,000	2,600,000	<8,450	<8,450	3,100,000
U4-MW-05D	9/25/2024	N	EM21	UMCf	98.2 - 108.2	1,510,000	7,050,000	<7,900	<117	<1,400	61.1 J	2,410,000	----	----	----	3,380,000
U4-MW-05I	4/15/2022	N	BL02	UMCf	76.6 - 86.6	1,220,000	8,940,000	<24,000	----	----	----	----	----	----	----	2,380,000
U4-MW-05I	10/13/2022	N	EM02	UMCf	76.6 - 86.6	2,760,000	12,200,000	----	----	----	----	----	----	----	----	----
U4-MW-05I	11/3/2022	N	EM03	UMCf	76.6 - 86.6	2,180,000	10,700,000	----	----	----	----	----	----	----	----	----
U4-MW-05I	12/8/2022	N	EM04	UMCf	76.6 - 86.6	1,810,000	8,360,000	----	----	----	----	----	----	----	----	----
U4-MW-05I	1/11/2023	N	EM05	UMCf	76.6 - 86.6	1,590,000	6,270,000	----	----	----	----	----	----	----	----	----
U4-MW-05I	2/14/2023	N	EM06	UMCf	76.6 - 86.6	1,240,000	6,080,000	----	----	----	----	----	----	----	----	----
U4-MW-05I	3/14/2023	N	EM07	UMCf	76.6 - 86.6	1,020,000 J+	4,840,000	<24,000	<117	<1,400	60.9 J	216,000	216,000	<8,450	<8,450	1,500,000
U4-MW-05I	4/21/2023	N	EM08	UMCf	76.6 - 86.6	174,000	434,000	41,400	<117	<140	<33.3	----	----	----	----	631,000
U4-MW-05I	5/10/2023	N	EM09	UMCf	76.6 - 86.6	73,900	104,000	204,000	<117	<140	54.4 J	----	----	----	----	598,000
U4-MW-05I	6/15/2023	N	EM10	UMCf	76.6 - 86.6	4,030	19,700	80,600 J-	<117	2,000	46.2 J	1,820,000	1,820,000	<8,450	<8,450	710,000
U4-MW-05I	7/17/2023	N	EM11	UMCf	76.6 - 86.6	563,000	1,510,000	38,000 J	<117	<140	<33.3	----	----	----	----	1,740,000
U4-MW-05I	8/14/2023	N	EM12	UMCf	76.6 - 86.6	488,000	1,210,000	<24,000	<117	<140	100 J	----	----	----	----	1,850,000
U4-MW-05I	9/13/2023	N	EM13	UMCf	76.6 - 86.6	443,000	6,170,000	<120,000	<117	<140	<33.3	2,010,000	2,010,000	<8,450	<8,450	1,980,000
U4-MW-05I	10/18/2023	N	EM14	UMCf	76.6 - 86.6	431,000	1,020,000	<24,000	<117	<140	2,680	----	----	----	----	2,240,000
U4-MW-05I	11/15/2023	N	EM15	UMCf	76.6 - 86.6	415,000 J-	860,000	<12000 UJ	<117	<140	<33.3	----	----	----	----	2,480,000
U4-MW-05I	12/12/2023	N	EM16	UMCf	76.6 - 86.6	467,000	1,270,000	36,300 J	<117	1,500	<33.3	2,220,000	2,220,000	<8,450	<8,450	1,870,000

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	E314.0	E300.1	E300.1	E350.1	E351.2	E365.1	Alkalinity by SM2320B	Alkalinity by SM2320B	Alkalinity by SM2320B	Alkalinity by SM2320B	Anions by E300.0/SW9065A
						Perchlorate	Chlorate	Chlorite	Ammonia (as N)	Total Kjeldahl Nitrogen (TKN)	Phosphorus	Alkalinity as CaCO3	Bicarbonate Alkalinity as CaCO3	Carbonate Alkalinity as CaCO3	Hydroxide Alkalinity as CaCO3	Chloride
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-05I	1/26/2024	N	EM17	UMCf	76.6 - 86.6	780,000	2,720,000	81,100	<117 UJ	<140	73.1 J	----	----	----	----	2,770,000 J
U4-MW-05I	2/14/2024	N	EM18	UMCf	76.6 - 86.6	765,000	2,830,000	42,900 J	<585	<140 R	40.7 J	----	----	----	----	3,150,000
U4-MW-05I	3/11/2024	N	EM19	UMCf	76.6 - 86.6	1,010,000	4,210,000	<24,000	<1,170	<140	<33.3	2,510,000	2,510,000	<8,450	<8,450	3,080,000
U4-MW-05I	6/18/2024	N	EM20	UMCf	76.6 - 86.6	1,380,000	5,090,000	40,400 J	<117	<560	51.7 J	2,730,000	2,730,000	<8,450	<8,450	4,620,000
U4-MW-05I	9/25/2024	N	EM21	UMCf	76.6 - 86.6	1,400,000	4,880,000	<15,800	<117	<140	613	2,750,000	----	----	----	2,890,000
U4-MW-06D	4/19/2022	N	BL02	UMCf	97.1 - 107.1	4,270,000	17,900,000	<240,000	----	----	----	----	----	----	----	4,670,000
U4-MW-06D	2/15/2023	N	EM06	UMCf	97.1 - 107.1	1,130,000 J+	7,290,000	----	----	----	----	----	----	----	----	----
U4-MW-06D	3/21/2023	N	EM07	UMCf	97.1 - 107.1	405,000	7,000,000	<240,000	<117	<1,400	<33.3	101,000	101,000	<8,450	<8,450	1,890,000
U4-MW-06D	6/16/2023	N	EM10	UMCf	97.1 - 107.1	1,350,000	5,310,000	<240,000	<117	<560	45.7 J	87,100	87,100	<8,450	<8,450	1,830,000
U4-MW-06D	9/13/2023	N	EM13	UMCf	97.1 - 107.1	1,800,000	7,990,000	28,600 J	<117	<1,120	<33.3	870,000	870,000	<8,450	<8,450	2,460,000
U4-MW-06D	12/13/2023	N	EM16	UMCf	97.1 - 107.1	2,280,000	9,350,000	<240,000	<117	<2,800	36.7 J	1,170,000	1,170,000	<8,450	<8,450	3,110,000
U4-MW-06D	3/14/2024	N	EM19	UMCf	97.1 - 107.1	1,760,000	9,300,000	210,000	<117	<1,400	<33.3	1,700,000	1,700,000	<8,450	<8,450	2,810,000
U4-MW-06D	6/12/2024	N	EM20	UMCf	97.1 - 107.1	2,650,000	7,380,000	<120,000	----	----	59.8 J	1,480,000	1,480,000	<8,450	<8,450	3,550,000
U4-MW-06D	9/20/2024	N	EM21	UMCf	97.1 - 107.1	2,240,000	7,230,000	<158,000	<117	<280	64.9 J	1,770,000	----	----	----	4,240,000
U4-MW-06I	4/19/2022	N	BL02	UMCf	76.5 - 86.5	201,000	801,000	<24,000	----	----	----	----	----	----	----	353,000
U4-MW-06I	3/14/2023	N	EM07	UMCf	76.5 - 86.5	1,810,000 J+	7,820,000	<240,000	<117	<1,400	<33.3	138,000	138,000	<8,450	<8,450	2,130,000
U4-MW-06I	6/16/2023	N	EM10	UMCf	76.5 - 86.5	1,380,000	5,070,000	<240,000	<117	<1,400	50.1 J	237,000	237,000	<8,450	<8,450	2,100,000
U4-MW-06I	9/12/2023	N	EM13	UMCf	76.5 - 86.5	1,840,000	8,310,000	<24,000	<117	<1,120	<33.3	702,000	702,000	<8,450	<8,450	2,270,000
U4-MW-06I	12/12/2023	N	EM16	UMCf	76.5 - 86.5	2,600,000	6,420,000	36,200 J	<117	<14,000	<33.3	765,000	765,000	<8,450	<8,450	3,240,000
U4-MW-06I	3/14/2024	N	EM19	UMCf	76.5 - 86.5	1,750,000	9,470,000	111,000	<117	<1,400	<33.3	1,320,000	1,320,000	<8,450	<8,450	3,110,000
U4-MW-06I	6/11/2024	N	EM20	UMCf	76.5 - 86.5	2,420,000	9,770,000	102,000	----	<140	<33.3	1,300,000	1,300,000	<8,450	<8,450	3,450,000
U4-MW-06I	9/20/2024	N	EM21	UMCf	76.5 - 86.5	1,690,000	5,630,000	<15,800	<117	<140	67.1 J	1,340,000	----	----	----	3,360,000
U4-MW-07D	4/15/2022	N	BL02	UMCf	96.8 - 106.5	471,000	5,210,000	<24,000	----	----	----	----	----	----	----	1,260,000
U4-MW-07D	10/12/2022	N	EM02	UMCf	96.8 - 106.5	76,400	413,000	----	----	----	----	----	----	----	----	----
U4-MW-07D	10/12/2022	FD	EM02	UMCf	96.8 - 106.5	61,100	383,000	----	----	----	----	----	----	----	----	----
U4-MW-07D	11/3/2022	N	EM03	UMCf	96.8 - 106.5	53,800	391,000	----	----	----	----	----	----	----	----	----
U4-MW-07D	12/7/2022	N	EM04	UMCf	96.8 - 106.5	53,300	283,000	----	----	----	----	----	----	----	----	----
U4-MW-07D	1/11/2023	N	EM05	UMCf	96.8 - 106.5	66,700	336,000	----	----	----	----	----	----	----	----	----
U4-MW-07D	2/14/2023	N	EM06	UMCf	96.8 - 106.5	43,000	263,000	----	----	----	----	----	----	----	----	----
U4-MW-07D	3/16/2023	N	EM07	UMCf	96.8 - 106.5	400,000	278,000	<2,400	<117	<140	39.5 J	119,000	119,000	<8,450	<8,450	167,000
U4-MW-07D	4/21/2023	N	EM08	UMCf	96.8 - 106.5	120,000	888,000	49,500 J	<117	<140	37.0 J	----	----	----	----	426,000
U4-MW-07D	5/11/2023	N	EM09	UMCf	96.8 - 106.5	41,700	111,000	179,000	<117	1,570	<33.3	----	----	----	----	318,000
U4-MW-07D	6/13/2023	N	EM10	UMCf	96.8 - 106.5	76,400	305,000	74,400 J-	<117	777	38.2 J	1,480,000	1,480,000	<8,450	<8,450	620,000
U4-MW-07D	7/17/2023	N	EM11	UMCf	96.8 - 106.5	656,000	5,770,000	<24,000	<117	<1,400	<33.3	----	----	----	----	1,950,000
U4-MW-07D	8/11/2023	N	EM12	UMCf	96.8 - 106.5	548,000	4,600,000	28,000 J	<117	<1,400	<33.3	----	----	----	----	1,960,000
U4-MW-07D	9/13/2023	N	EM13	UMCf	96.8 - 106.5	500,000	4,320,000	<24,000	<117	<560	<33.3	1,290,000	1,290,000	<8,450	<8,450	1,750,000
U4-MW-07D	10/18/2023	N	EM14	UMCf	96.8 - 106.5	481,000	4,580,000	75,100	<117	<700	<33.3	----	----	----	----	2,060,000
U4-MW-07D	11/16/2023	N	EM15	UMCf	96.8 - 106.5	530,000 J+	5,110,000 J+	58,000 J-	<117	<700	<33.3	----	----	----	----	1,910,000
U4-MW-07D	12/12/2023	N	EM16	UMCf	96.8 - 106.5	624,000	3,270,000	146,000	<117	<140	46.1 J	1,200,000	1,200,000	<8,450	<8,450	1,580,000
U4-MW-07D	1/26/2024	N	EM17	UMCf	96.8 - 106.5	501,000	2,680,000	218,000	<117	5,360	68.0 J	----	----	----	----	1,450,000
U4-MW-07D	2/13/2024	N	EM18	UMCf	96.8 - 106.5	654,000	2,270,000	298,000	<1,170	14,600	237 J+	----	----	----	----	1,370,000
U4-MW-07D	3/11/2024	N	EM19	UMCf	96.8 - 106.5	661,000	4,110,000	<24,000	<585	666	78.7 J	2,310,000	2,310,000	<8,450	<8,450	1,900,000
U4-MW-07D	6/12/2024	N	EM20	UMCf	96.8 - 106.5	715,000	3,900,000	882,000	----	----	143	3,480,000	3,480,000	<8,450	<8,450	1,940,000
U4-MW-07D	9/18/2024	N	EM21	UMCf	96.8 - 106.5	783,000	3,870,000	691,000 J	<117	396	250	3,450,000	----	----	----	2,740,000
U4-MW-07I	4/15/2022	N	BL02	UMCf	76.8 - 86.8	140,000	1,150,000	<24,000	----	----	----	----	----	----	----	463,000
U4-MW-07I	10/12/2022	N	EM02	UMCf	76.8 - 86.8	69,100 J-	426,000	----	----	----	----	----	----	----	----	----
U4-MW-07I	11/3/2022	N	EM03	UMCf	76.8 - 86.8	63,700	445,000	----	----	----	----	----	----	----	----	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	E314.0	E300.1	E300.1	E350.1	E351.2	E365.1	Alkalinity by SM2320B	Alkalinity by SM2320B	Alkalinity by SM2320B	Alkalinity by SM2320B	Anions by E300.0/SW9065A
						Perchlorate	Chlorate	Chlorite	Ammonia (as N)	Total Kjeldahl Nitrogen (TKN)	Phosphorus	Alkalinity as CaCO3	Bicarbonate Alkalinity as CaCO3	Carbonate Alkalinity as CaCO3	Hydroxide Alkalinity as CaCO3	Chloride
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-07I	12/7/2022	N	EM04	UMCf	76.8 - 86.8	66,800	346,000	----	----	----	----	----	----	----	----	----
U4-MW-07I	1/11/2023	N	EM05	UMCf	76.8 - 86.8	86,700	428,000	----	----	----	----	----	----	----	----	----
U4-MW-07I	2/15/2023	N	EM06	UMCf	76.8 - 86.8	51,000 J+	515,000	----	----	----	----	----	----	----	----	----
U4-MW-07I	3/16/2023	N	EM07	UMCf	76.8 - 86.8	325,000	637,000	<2,400	<117	<140	<33.3	130,000	130,000	<8,450	<8,450	249,000
U4-MW-07I	4/21/2023	N	EM08	UMCf	76.8 - 86.8	135,000	746,000	3,190 J	<117	<140	35.3 J	----	----	----	----	662,000
U4-MW-07I	5/11/2023	N	EM09	UMCf	76.8 - 86.8	1,810	1,130	80,000	<117	831	48.0 J	----	----	----	----	591,000
U4-MW-07I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	48.3	2,620	<120	<117	820	118 J+	1,450,000	1,450,000	<8,450	<8,450	788,000
U4-MW-07I	7/17/2023	N	EM11	UMCf	76.8 - 86.8	391,000	2,940,000	<24,000	<117	<140	<33.3	----	----	----	----	1,570,000
U4-MW-07I	8/11/2023	N	EM12	UMCf	76.8 - 86.8	261,000	1,740,000	43,200 J	<117	<140	<33.3	----	----	----	----	1,480,000
U4-MW-07I	9/13/2023	N	EM13	UMCf	76.8 - 86.8	287,000	1,330,000	155,000 J+	<117	<140	<33.3	2,150,000	2,150,000	<8,450	<8,450	1,800,000
U4-MW-07I	10/18/2023	N	EM14	UMCf	76.8 - 86.8	213,000	1,170,000	205,000	<117	<140	<33.3	----	----	----	----	1,560,000
U4-MW-07I	11/16/2023	N	EM15	UMCf	76.8 - 86.8	194,000 J+	1,340,000 J+	57,600 J-	<117	<140	<33.3	----	----	----	----	1,730,000
U4-MW-07I	12/11/2023	N	EM16	UMCf	76.8 - 86.8	458,000	3,330,000	167,000	<117	<140	33.5 J	1,520,000	1,520,000	<8,450	<8,450	1,800,000
U4-MW-07I	1/26/2024	N	EM17	UMCf	76.8 - 86.8	474,000	2,900,000	157,000	<117	<140	64.2 J	----	----	----	----	1,750,000
U4-MW-07I	2/13/2024	N	EM18	UMCf	76.8 - 86.8	577,000	2,870,000	245,000	<1,170	9,790	99.2 J	----	----	----	----	2,800,000
U4-MW-07I	3/11/2024	N	EM19	UMCf	76.8 - 86.8	682,000	5,340,000	<24,000	373	<140	43.8 J	2,010,000	2,010,000	<8,450	<8,450	2,190,000
U4-MW-07I	6/12/2024	N	EM20	UMCf	76.8 - 86.8	556,000	1,740,000	148,000	----	----	<33.3	2,940,000	2,940,000	<8,450	<8,450	2,660,000
U4-MW-07I	9/18/2024	N	EM21	UMCf	76.8 - 86.8	425,000	589,000	184,000	<117	211 J	452	3,070,000	----	----	----	3,220,000
U4-MW-08D	4/13/2022	N	BL02	UMCf	98.6 - 108.6	1,640,000	2,450,000	<24,000	<117	<2,800	68.2 J	184,000	184,000	<8,450	<8,450	4,960,000
U4-MW-08D	12/7/2022	N	EM04	UMCf	98.6 - 108.6	889,000	10,400,000	<240,000	<117	<1,400	63.8 J	219,000	219,000	<8,450	<8,450	2,730,000
U4-MW-08D	3/17/2023	N	EM07	UMCf	98.6 - 108.6	821,000	9,450,000	<240,000	<117	<1,400	<33.3	919,000	919,000	<8,450	<8,450	2,780,000
U4-MW-08D	6/13/2023	N	EM10	UMCf	98.6 - 108.6	1,210,000	11,100,000	<240,000	<117	<2,800	66.6 J	545,000	545,000	<8,450	<8,450	3,330,000
U4-MW-08D	9/13/2023	N	EM13	UMCf	98.6 - 108.6	1,300,000	16,600,000	<240,000	<117	<1,400	<33.3	236,000	236,000	<8,450	<8,450	4,010,000
U4-MW-08D	12/11/2023	N	EM16	UMCf	98.6 - 108.6	1,160,000	16,700,000	<240,000	<117	<2,800	37.9 J	489,000	489,000	<8,450	<8,450	3,840,000
U4-MW-08D	3/12/2024	N	EM19	UMCf	98.6 - 108.6	1,140,000	15,200,000	<120,000	<117	<1,400	39.4 J	868,000	868,000	<8,450	<8,450	3,400,000
U4-MW-08D	6/14/2024	N	EM20	UMCf	98.6 - 108.6	1,600,000	19,100,000	<240,000	----	<2,800	<33.3	475,000	475,000	<8,450	<8,450	4,580,000
U4-MW-08D	9/23/2024	N	EM21	UMCf	98.6 - 108.6	1,700,000	19,700,000	<158,000	<117	<7,000	<33.3	401,000	----	----	----	4,420,000
U4-MW-08DD	4/20/2022	N	BL02	UMCf	119.8 - 129.8	25,700	281,000	<2,400	<117	<140	146 J+	89,800	89,800	<8,450	<8,450	213,000
U4-MW-08DD	4/20/2022	FD	BL02	UMCf	119.8 - 129.8	23,800	294,000	<2,400	<117	<140	133 J	84,300	84,300	<8,450	<8,450	227,000
U4-MW-08DD	12/8/2022	N	EM04	UMCf	119.8 - 129.8	8,820	55,300	<12,000	<117	<140	191 J-	111,000	111,000	<8,450	<8,450	175,000
U4-MW-08DD	3/15/2023	N	EM07	UMCf	119.8 - 129.8	170,000	966,000	<24,000	<117	<140	162	57,900	57,900	<8,450	<8,450	406,000
U4-MW-08DD	6/14/2023	N	EM10	UMCf	119.8 - 129.8	146,000	806,000	<24,000	<117	<140	102 J+	55,200	55,200	<8,450	<8,450	368,000
U4-MW-08DD	9/14/2023	N	EM13	UMCf	119.8 - 129.8	75,000	514,000	<2,400	<117	<140	89.2 J	78,200	78,200	<8,450	<8,450	262,000
U4-MW-08DD	12/14/2023	N	EM16	UMCf	119.8 - 129.8	69,900 J-	472,000	<240 UJ	<117	<140	103 J+	77,000	77,000	<8,450	<8,450	255,000
U4-MW-08DD	3/14/2024	N	EM19	UMCf	119.8 - 129.8	58,400	350,000	<2,400	<117 R	<140	59.1 J	67,500	67,500	<8,450	<8,450	231,000
U4-MW-08DD	6/12/2024	N	EM20	UMCf	119.8 - 129.8	646,000	357,000	<2,400	----	----	99.1 J	70,200	70,200	<8,450	<8,450	228,000
U4-MW-08DD	9/20/2024	N	EM21	UMCf	119.8 - 129.8	62,800	386,000	<1,580	<117	<140	213 J+	78,400	----	----	----	236,000
U4-MW-08I	4/13/2022	N	BL02	UMCf	78.0 - 88.0	152,000	2,550,000	<24,000	<117	<700	55.5 J	175,000	166,000	9,060 J	<8,450	768,000
U4-MW-08I	12/7/2022	N	EM04	UMCf	78.0 - 88.0	609,000	5,800,000	<240,000	<117	<700	46.0 J	164,000	164,000	<8,450	<8,450	1,660,000
U4-MW-08I	12/7/2022	FD	EM04	UMCf	78.0 - 88.0	566,000	4,980,000	<240,000	<117	<700	<33.3 UJ	----	----	----	----	1,530,000
U4-MW-08I	3/17/2023	N	EM07	UMCf	78.0 - 88.0	872,000	9,870,000	<240,000	<117	<1400 R	<33.3	243,000	243,000	<8,450	<8,450	2,290,000
U4-MW-08I	6/13/2023	N	EM10	UMCf	78.0 - 88.0	243,000	2,360,000	<24,000	<117	<140 R	41.4 J	631,000	631,000	<8,450	<8,450	968,000
U4-MW-08I	9/13/2023	N	EM13	UMCf	78.0 - 88.0	578,000	6,670,000	72,300 J+	<117	<560 R	<33.3	526,000	526,000	<8,450	<8,450	1,990,000
U4-MW-08I	12/11/2023	N	EM16	UMCf	78.0 - 88.0	533,000	8,630,000	<24,000	<117	<1400 R	<33.3	1,090,000	1,090,000	<8,450	<8,450	2,760,000
U4-MW-08I	3/12/2024	N	EM19	UMCf	78.0 - 88.0	869,000	9,110,000	<24,000	<117	<700 R	122	1,110,000	1,110,000	<8,450	<8,450	2,840,000
U4-MW-08I	6/14/2024	N	EM20	UMCf	78.0 - 88.0	678,000	7,910,000	<24,000	----	<1,400	58.2 J	892,000	892,000	<8,450	<8,450	2,520,000
U4-MW-08I	9/23/2024	N	EM21	UMCf	78.0 - 88.0	541,000	5,770,000	<79000 R	<117	<7000 UJ	50.7 J	675,000	----	----	----	1,940,000

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	E314.0	E300.1	E300.1	E350.1	E351.2	E365.1	Alkalinity by SM2320B	Alkalinity by SM2320B	Alkalinity by SM2320B	Alkalinity by SM2320B	Anions by E300.0/SW9065A
						Perchlorate	Chlorate	Chlorite	Ammonia (as N)	Total Kjeldahl Nitrogen (TKN)	Phosphorus	Alkalinity as CaCO3	Bicarbonate Alkalinity as CaCO3	Carbonate Alkalinity as CaCO3	Hydroxide Alkalinity as CaCO3	Chloride
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-08S	4/15/2022	N	BL02	UMCf	54.9 - 64.9	11,600	154,000	<2,400	<117	<140	<33.3	57,500	15,500 J	42,000	<8,450	227,000
U4-MW-08S	12/7/2022	N	EM04	UMCf	54.9 - 64.9	5,150	52,300	<480	<117	755 J	77.4 J	417,000 J	417,000 J	<8,450	<8,450	222,000
U4-MW-08S	12/7/2022	FD	EM04	UMCf	54.9 - 64.9	5,740	55,200	<480	<117	226 J	74.1 J	299,000 J	299,000 J	<8,450	<8,450	217,000
U4-MW-08S	3/13/2023	N	EM07	UMCf	54.9 - 64.9	98.0 J	2,860 J	<24.0	<117	639	243	1,150,000	1,150,000	<8,450	<8,450	192,000
U4-MW-08S	3/13/2023	FD	EM07	UMCf	54.9 - 64.9	<0.300 UJ	<240 UJ	<240	<117	723	246	1,370,000	1,370,000	<8,450	<8,450	187,000
U4-MW-08S	6/13/2023	N	EM10	UMCf	54.9 - 64.9	<0.300	<120	<120	<117	1,850 J	105 J+	1,460,000	1,460,000	<8,450	<8,450	189,000
U4-MW-08S	6/13/2023	FD	EM10	UMCf	54.9 - 64.9	<0.300	276	<120	<117	1,200 J	98.0 J	1,460,000	1,460,000	<8,450	<8,450	187,000
U4-MW-08S	9/13/2023	N	EM13	UMCf	54.9 - 64.9	<0.300	1,350	<24.0	<117	1,450	53.0 J	1,680,000	1,680,000	<8,450	<8,450	195,000
U4-MW-08S	9/13/2023	FD	EM13	UMCf	54.9 - 64.9	<0.300	1,370	<24.0	<117	1,600	71.1 J	1,690,000	1,690,000	<8,450	<8,450	196,000
U4-MW-08S	12/14/2023	N	EM16	UMCf	54.9 - 64.9	6,010	1,390	99,700 J-	<1,170	4,420 J-	77.8 J	4,110,000	4,110,000	<8,450	<8,450	182,000
U4-MW-08S	12/14/2023	FD	EM16	UMCf	54.9 - 64.9	4,310	1,310	90,500	<117	3,340	30,200 J	3,880,000	3,880,000	<8,450	<8,450	183,000
U4-MW-08S	3/14/2024	N	EM19	UMCf	54.9 - 64.9	<0.300	1,580	1,810	<23400 UJ	3,270	2,340 J	7,510,000	7,510,000	<8,450	<8,450	201,000
U4-MW-08S	3/14/2024	FD	EM19	UMCf	54.9 - 64.9	<0.300	1,380	1,700	1,010,000 J	2,450	4,400 J	7,390,000	7,390,000	<8,450	<8,450	199,000
U4-MW-08S	3/25/2024	N	EM19	UMCf	54.9 - 64.9	2,030	2,520	45,400	<117	1,420 J+	65.3 J	1,510,000	1,510,000	<8,450	<8,450	251,000
U4-MW-08S	3/25/2024	FD	EM19	UMCf	54.9 - 64.9	2,160	2,280	44,800	<117	1,540 J+	77.7 J	1,450,000	1,450,000	<8,450	<8,450	251,000
U4-MW-08S	6/14/2024	N	EM20	UMCf	54.9 - 64.9	<3.00	<24.0	<24.0	----	1,480	153 J	2,180,000	2,180,000	<8,450	<8,450	207,000
U4-MW-08S	6/14/2024	FD	EM20	UMCf	54.9 - 64.9	<3.00	<24.0	<24.0	----	1,570	161 J	2,170,000	2,170,000	<8,450	<8,450	209,000
U4-MW-08S	9/20/2024	N	EM21	UMCf	54.9 - 64.9	<4.00	76.7	36.4 J	<117	1,900	210 J	2,270,000	----	----	----	194,000
U4-MW-08S	9/20/2024	FD	EM21	UMCf	54.9 - 64.9	<4.00	73.0	33.1 J	<117	2,180	1,280 J	2,280,000	----	----	----	193,000
U4-MW-09D	4/14/2022	N	BL02	UMCf	96.9 - 106.9	1,770,000	14,600,000	<240,000	<117	<1,400	58.0 J	179,000	179,000	<8,450	<8,450	3,270,000
U4-MW-09D	12/6/2022	N	EM04	UMCf	96.9 - 106.9	209,000 J+	1,480,000	<24000 UJ	<117 UJ	<280 UJ	<33.3 UJ	136,000	136,000	<8450 UJ	<8450 UJ	439,000
U4-MW-09D	3/16/2023	N	EM07	UMCf	96.9 - 106.9	189,000	1,240,000	24,900	<117	<140 R	<33.3	905,000	905,000	<8,450	<8,450	909,000
U4-MW-09D	6/14/2023	N	EM10	UMCf	96.9 - 106.9	114,000	698,000	4,790 J	<117	<140	<33.3	955,000	955,000	<8,450	<8,450	865,000
U4-MW-09D	9/12/2023	N	EM13	UMCf	96.9 - 106.9	219,000	1,300,000	<24,000	<117	<140	<33.3	1,160,000	1,160,000	<8,450	<8,450	1,410,000
U4-MW-09D	12/15/2023	N	EM16	UMCf	96.9 - 106.9	287,000 J-	1,350,000	<24,000	<117	<140 R	<33.3	1,810,000	1,810,000	<8,450	<8,450	1,790,000
U4-MW-09D	3/13/2024	N	EM19	UMCf	96.9 - 106.9	216,000	934,000	<2,400	<117	<140	<33.3	2,200,000	2,200,000	<8,450	<8,450	1,720,000
U4-MW-09D	6/13/2024	N	EM20	UMCf	96.9 - 106.9	267,000	876,000	<12,000	----	----	<33.3	2,510,000	2,510,000	<8,450	<8,450	2,230,000
U4-MW-09D	9/19/2024	N	EM21	UMCf	96.9 - 106.9	663,000	1,410,000	<15,800	<117	<140	92.9 J	2,290,000	----	----	----	2,400,000
U4-MW-09DD	4/14/2022	N	BL02	UMCf	119.8 - 129.8	25,200	110,000	<2,400	<117	<140	84.5 J	98,100	91,300	<8,450	<8,450	172,000
U4-MW-09DD	12/6/2022	N	EM04	UMCf	119.8 - 129.8	12,200 J+	48,600	<2400 UJ	<117 UJ	<140 UJ	46.8 J	83,000	83,000	<8450 UJ	<8450 UJ	159,000
U4-MW-09DD	3/21/2023	N	EM07	UMCf	119.8 - 129.8	88,700	387,000	<2,400	<117	<140	37.1 J	61,000	61,000	<8,450	<8,450	257,000
U4-MW-09DD	6/15/2023	N	EM10	UMCf	119.8 - 129.8	89,700	329,000	<2,400	<117	<140	50.2 J	66,300	66,300	<8,450	<8,450	245,000
U4-MW-09DD	9/13/2023	N	EM13	UMCf	119.8 - 129.8	143,000	464,000	3,710 J	<117	<140	<33.3	340,000	340,000	<8,450	<8,450	508,000
U4-MW-09DD	12/13/2023	N	EM16	UMCf	119.8 - 129.8	199,000	669,000	<2,400	<117	<140	53.0 J	230,000	230,000	<8,450	<8,450	500,000
U4-MW-09DD	3/14/2024	N	EM19	UMCf	119.8 - 129.8	150,000	230,000	<2,400	<117	<140	<33.3	455,000	455,000	<8,450	<8,450	673,000
U4-MW-09DD	6/13/2024	N	EM20	UMCf	119.8 - 129.8	71,300	29,200	<120	----	----	509	523,000	523,000	<8,450	<8,450	736,000
U4-MW-09DD	9/20/2024	N	EM21	UMCf	119.8 - 129.8	153	<158	<79.0	1,420	2,410	147 J+	422,000	----	----	----	711,000
U4-MW-09I	4/14/2022	N	BL02	UMCf	76.8 - 86.8	78,700	439,000	<2,400	<117	<140	120 J+	109,000	109,000	<8,450	<8,450	242,000
U4-MW-09I	12/6/2022	N	EM04	UMCf	76.8 - 86.8	448,000 J+	2,560,000	<240000 UJ	<117 UJ	<140 UJ	<33.3 UJ	133,000	133,000	<8450 UJ	<8450 UJ	715,000
U4-MW-09I	3/16/2023	N	EM07	UMCf	76.8 - 86.8	340,000	2,090,000	<24,000	<117	<140	<33.3	723,000	723,000	<8,450	<8,450	946,000
U4-MW-09I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	198,000	519,000	<2,400	<117	<140	<33.3	1,040,000	1,040,000	<8,450	<8,450	1,100,000
U4-MW-09I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	316,000	1,780,000	<24,000	<117	<140	<33.3	1,110,000	1,110,000	<8,450	<8,450	1,430,000
U4-MW-09I	12/15/2023	N	EM16	UMCf	76.8 - 86.8	348,000 J-	1,370,000	<24,000	<117	<140	<33.3	1,750,000	1,750,000	<8,450	<8,450	1,880,000
U4-MW-09I	3/13/2024	N	EM19	UMCf	76.8 - 86.8	354,000	1,070,000	<24,000	<1,170	<140 R	<33.3	----	----	----	----	1,930,000
U4-MW-09I	6/13/2024	N	EM20	UMCf	76.8 - 86.8	454,000	1,420,000	<12,000	----	----	37.6 J	2,010,000	2,010,000	<8,450	<8,450	2,010,000
U4-MW-09I	9/19/2024	N	EM21	UMCf	76.8 - 86.8	605,000	2,030,000	<15,800	301	<140	101 J+	1,770,000	----	----	----	2,150,000
U4-MW-09S	4/14/2022	N	BL02	UMCf	55.3 - 65.3	14,800	91,400	<2,400	<117	<140	76.5 J	141,000	123,000	17,900 J	<8,450	182,000

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	E314.0	E300.1	E300.1	E350.1	E351.2	E365.1	Alkalinity by SM2320B	Alkalinity by SM2320B	Alkalinity by SM2320B	Alkalinity by SM2320B	Anions by E300.0/SW9065A
						Perchlorate	Chlorate	Chlorite	Ammonia (as N)	Total Kjeldahl Nitrogen (TKN)	Phosphorus	Alkalinity as CaCO3	Bicarbonate Alkalinity as CaCO3	Carbonate Alkalinity as CaCO3	Hydroxide Alkalinity as CaCO3	Chloride
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-09S	12/6/2022	N	EM04	UMCf	55.3 - 65.3	91,500	503,000	<24000 UJ	<117 UJ	<140 UJ	<33.3 UJ	258,000	238,000	20,400	<8450 UJ	256,000
U4-MW-09S	3/17/2023	N	EM07	UMCf	55.3 - 65.3	84,500	474,000	<2,400	<117	<140	44.7 J	265,000	249,000	15,300 J	<8,450	373,000
U4-MW-09S	6/15/2023	N	EM10	UMCf	55.3 - 65.3	<0.300	199 J	150,000 J-	<117	1,790	129 J+	2,290,000	2,280,000	<8,450	<8,450	161,000
U4-MW-09S	9/13/2023	N	EM13	UMCf	55.3 - 65.3	<0.300	1,470 J+	<120	181 J	2,320	99.4 J	2,920,000	2,920,000	<8,450	<8,450	163,000
U4-MW-09S	12/12/2023	N	EM16	UMCf	55.3 - 65.3	206,000	986,000	304,000	<117	8,050	246	2,060,000	2,060,000	<8,450	<8,450	948,000
U4-MW-09S	3/13/2024	N	EM19	UMCf	55.3 - 65.3	<300	298 J	6,990	4,680	8,460	1,150	3,040,000	3,040,000	<8,450	<8,450	1,150,000
U4-MW-09S	6/13/2024	N	EM20	UMCf	55.3 - 65.3	16.0 J-	<24.0	447	----	----	77.8 J	3,380,000	3,380,000	<8,450	<8,450	921,000
U4-MW-09S	9/19/2024	N	EM21	UMCf	55.3 - 65.3	<4.00	<31.7	<15.8	2,500	8,190	537 J+	3,610,000	----	----	----	574,000
U4-MW-10D	4/14/2022	N	BL02	UMCf	96.9 - 106.9	118,000	2,180,000	<24,000	<117	<700	<33.3	93,000	93,000	<8,450	<8,450	706,000
U4-MW-10D	12/5/2022	N	EM04	UMCf	96.9 - 106.9	82,300	956,000	<24,000	<117	<140	<33.3 UJ	60,800	60,800	<8,450	<8,450	383,000
U4-MW-10D	3/17/2023	N	EM07	UMCf	96.9 - 106.9	10,600	74,700	101,000	<117 UJ	966 J+	<33.3	1,200,000	1,200,000	<8,450	<8,450	478,000
U4-MW-10D	6/14/2023	N	EM10	UMCf	96.9 - 106.9	789	4,000	<120	<117	776	<33.3	1,010,000	1,010,000	<8,450	<8,450	453,000
U4-MW-10D	9/13/2023	N	EM13	UMCf	96.9 - 106.9	15,900	164,000	<2,400	<117	937	<33.3	725,000	725,000	<8,450	<8,450	760,000
U4-MW-10D	12/14/2023	N	EM16	UMCf	96.9 - 106.9	13,600 J-	186,000	<2400 UJ	<117	913	36.5 J	534,000	534,000	<8,450	<8,450	565,000
U4-MW-10D	3/14/2024	N	EM19	UMCf	96.9 - 106.9	15,100	219,000	<2,400	<117	774	<33.3	567,000	567,000	<8,450	<8,450	519,000
U4-MW-10D	6/11/2024	N	EM20	UMCf	96.9 - 106.9	28,200	310,000	<2,400	----	<140	<33.3	441,000	441,000	<8,450	<8,450	515,000
U4-MW-10D	9/26/2024	N	EM21	UMCf	96.9 - 106.9	26,000	242,000	<1,580	<117	<140	767 J	352,000	----	----	----	565,000
U4-MW-10I	4/14/2022	N	BL02	UMCf	77.1 - 87.1	141,000	2,330,000	<24,000	<117	<1,400	65.7 J	187,000	187,000	<8,450	<8,450	936,000
U4-MW-10I	12/5/2022	N	EM04	UMCf	77.1 - 87.1	8,680	96,300	<2,400	<117	<140	<33.3 UJ	144,000	144,000	<8,450	<8,450	219,000
U4-MW-10I	3/17/2023	N	EM07	UMCf	77.1 - 87.1	14,700 J-	138,000	<2,400	<117	1,220 J+	<33.3	1,010,000	1,010,000	<8,450	<8,450	897,000
U4-MW-10I	6/14/2023	N	EM10	UMCf	77.1 - 87.1	1,440	14,200	<240	<117	1,260	39.0 J	1,410,000	1,410,000	<8,450	<8,450	262,000
U4-MW-10I	9/13/2023	N	EM13	UMCf	77.1 - 87.1	4,990	29,500	<240	314	3,060	<33.3	1,390,000	1,390,000	<8,450	<8,450	686,000
U4-MW-10I	12/14/2023	N	EM16	UMCf	77.1 - 87.1	236,000 J-	5,090,000	<24000 UJ	201 J	<1,400	<33.3	490,000	490,000	<8,450	<8,450	1,210,000
U4-MW-10I	3/13/2024	N	EM19	UMCf	77.1 - 87.1	458,000	8,060,000	<24,000	161 J	<1,400	<33.3	240,000	240,000	<8,450	<8,450	1,620,000
U4-MW-10I	6/11/2024	N	EM20	UMCf	77.1 - 87.1	40,300	825,000	<2,400	----	<140	<33.3	325,000	325,000	<8,450	<8,450	415,000
U4-MW-10I	9/25/2024	N	EM21	UMCf	77.1 - 87.1	28,600	429,000	<1,580	300	<140	<33.3	275,000	----	----	----	287,000
U4-MW-11D	4/15/2022	N	BL02	UMCf	97.4 - 107.4	1,290,000	20,100,000	<240,000	<117	<3,500	71.7 J	201,000	201,000	<8,450	<8,450	4,040,000
U4-MW-11D	9/26/2022	N	EM01	UMCf	97.4 - 107.4	1,350,000	20,700,000	<120,000	<117	<700	118 J-	----	----	----	----	3,720,000
U4-MW-11D	10/11/2022	N	EM02	UMCf	97.4 - 107.4	1,410,000	19,000,000	<240,000	<117	<2,800	42.1 J	----	----	----	----	4,260,000
U4-MW-11D	11/1/2022	N	EM03	UMCf	97.4 - 107.4	1,380,000	18,400,000	<240,000	153 J	<2,800	<33.3	----	----	----	----	3,850,000
U4-MW-11D	12/6/2022	N	EM04	UMCf	97.4 - 107.4	561,000	8,610,000	<240000 UJ	<117 UJ	<2800 UJ	97.7 J	279,000	279,000	<8450 UJ	<8450 UJ	1,750,000
U4-MW-11D	1/12/2023	N	EM05	UMCf	97.4 - 107.4	1,190,000	17,600,000	<240,000	<117	<2,800	<33.3	----	----	----	----	3,940,000
U4-MW-11D	2/14/2023	N	EM06	UMCf	97.4 - 107.4	1,130,000	14,300,000	<240,000	<117	<1400 UJ	<33.3	----	----	----	----	3,660,000
U4-MW-11D	3/16/2023	N	EM07	UMCf	97.4 - 107.4	996,000 J-	13,600,000	<240,000	<117	<1,400	<33.3	406,000	406,000	<8,450	<8,450	3,030,000
U4-MW-11D	4/18/2023	N	EM08	UMCf	97.4 - 107.4	64,300	9,540,000	<240,000	<117	<1400 R	64.3 J	----	----	----	----	2,330,000
U4-MW-11D	5/17/2023	N	EM09	UMCf	97.4 - 107.4	617,000 J	9,600,000	<240,000	<117	<700 R	50.8 J	----	----	----	----	2,610,000
U4-MW-11D	6/16/2023	N	EM10	UMCf	97.4 - 107.4	1,080,000	14,200,000	<240,000	<117	<1,400	46.9 J	286,000	286,000	<8,450	<8,450	3,420,000
U4-MW-11D	7/14/2023	N	EM11	UMCf	97.4 - 107.4	997,000	12,800,000	<240,000	<117	<2800 R	36.9 J	----	----	----	----	2,850,000 J+
U4-MW-11D	8/14/2023	N	EM12	UMCf	97.4 - 107.4	813,000	11,200,000	<240,000	<117	<700 R	<33.3 UJ	----	----	----	----	3,270,000
U4-MW-11D	9/13/2023	N	EM13	UMCf	97.4 - 107.4	825,000 J-	11,500,000	<240,000	<117	<1,120	<33.3	444,000	444,000	<8,450	<8,450	3,240,000
U4-MW-11D	10/18/2023	N	EM14	UMCf	97.4 - 107.4	791,000	11,800,000	<240,000	<117	<1400 R	174 J+	----	----	----	----	3,050,000
U4-MW-11D	11/16/2023	N	EM15	UMCf	97.4 - 107.4	758,000 J+	9,640,000 J+	<240000 R	<117	<1400 R	<33.3	----	----	----	----	3,050,000
U4-MW-11D	12/13/2023	N	EM16	UMCf	97.4 - 107.4	686,000	9,640,000	<240,000	<117	<2,800	44.8 J	925,000	925,000	<8,450	<8,450	3,500,000
U4-MW-11D	1/25/2024	N	EM17	UMCf	97.4 - 107.4	758,000	9,530,000	32,900 J	<117	<1,400	205 J+	----	----	----	----	2,790,000
U4-MW-11D	2/14/2024	N	EM18	UMCf	97.4 - 107.4	898,000	9,900,000	<240,000	<117	<560	201 J	----	----	----	----	3,220,000
U4-MW-11D	3/12/2024	N	EM19	UMCf	97.4 - 107.4	734,000	9,880,000	<24,000	<117	<2,800	41.0 J	881,000	881,000	<8,450	<8,450	3,050,000
U4-MW-11D	6/12/2024	N	EM20	UMCf	97.4 - 107.4	1,040,000	9,870,000	<120,000	<117	<2,800	33.8 J	504,000	504,000	<8,450	<8,450	3,470,000

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	E314.0	E300.1	E300.1	E350.1	E351.2	E365.1	Alkalinity by SM2320B	Alkalinity by SM2320B	Alkalinity by SM2320B	Alkalinity by SM2320B	Anions by E300.0/SW9065A
						Perchlorate	Chlorate	Chlorite	Ammonia (as N)	Total Kjeldahl Nitrogen (TKN)	Phosphorus	Alkalinity as CaCO3	Bicarbonate Alkalinity as CaCO3	Carbonate Alkalinity as CaCO3	Hydroxide Alkalinity as CaCO3	Chloride
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-11D	9/23/2024	N	EM21	UMCf	97.4 - 107.4	945,000	13,900,000	<79,000	<117	<2,800	87.9 J	454,000	----	----	----	3,360,000
U4-MW-11I	4/14/2022	N	BL02	UMCf	77.0 - 87.0	98,700	1,550,000	<24000 R	<117	<1,400	210 J+	96,300	92,500	<8,450	<8,450	512,000
U4-MW-11I	9/26/2022	N	EM01	UMCf	77.0 - 87.0	33,000	266,000	54,400	<117	968	739 J	----	----	----	----	328,000
U4-MW-11I	9/26/2022	FD	EM01	UMCf	77.0 - 87.0	34,400	265,000	53,300	<117	792	35.9 J	----	----	----	----	328,000
U4-MW-11I	10/10/2022	N	EM02	UMCf	77.0 - 87.0	530	<2,400	66,800	<117	970 J	<33.3 UJ	----	----	----	----	363,000
U4-MW-11I	10/10/2022	FD	EM02	UMCf	77.0 - 87.0	476	2,400 J	66,100	<117	1,230 J	102 J	----	----	----	----	362,000
U4-MW-11I	10/31/2022	N	EM03	UMCf	77.0 - 87.0	2,900 J	7,470 J	66,500	<117	1,100 J	<33.3	----	----	----	----	321,000
U4-MW-11I	10/31/2022	FD	EM03	UMCf	77.0 - 87.0	1,800 J	3,470 J	84,800	<117	1,560 J	<33.3	----	----	----	----	316,000
U4-MW-11I	12/6/2022	N	EM04	UMCf	77.0 - 87.0	<0.300 UJ	<2400 UJ	<2400 UJ	191 J	1,030 J	59.1 J	1,320,000	1,320,000	<8450 UJ	<8450 UJ	386,000
U4-MW-11I	12/6/2022	FD	EM04	UMCf	77.0 - 87.0	198 J	<2400 UJ	<2400 UJ	178 J	1,340 J	41.8 J	1,320,000	1,320,000	<8450 UJ	<8450 UJ	371,000
U4-MW-11I	1/12/2023	N	EM05	UMCf	77.0 - 87.0	381	2,380	81.2 J+	124 J	1,160	<33.3	----	----	----	----	346,000
U4-MW-11I	1/12/2023	FD	EM05	UMCf	77.0 - 87.0	389	2,220	<24.0	120 J	1,050	<33.3	----	----	----	----	338,000
U4-MW-11I	2/14/2023	N	EM06	UMCf	77.0 - 87.0	213,000	3,030,000	<24,000	572	<140	<33.3	----	----	----	----	1,000,000
U4-MW-11I	2/14/2023	FD	EM06	UMCf	77.0 - 87.0	264,000	3,530,000	<24,000	535	<140	33.4 J	----	----	----	----	1,090,000
U4-MW-11I	3/16/2023	N	EM07	UMCf	77.0 - 87.0	70.0	<2,400	<2,400	<117 UJ	1,170	50.0 J	1,720,000	1,720,000	<8,450	<8,450	298,000
U4-MW-11I	3/16/2023	FD	EM07	UMCf	77.0 - 87.0	87.0	<2,400	<2,400	<117 UJ	1,270	63.6 J	1,750,000	1,750,000	<8,450	<8,450	292,000
U4-MW-11I	4/18/2023	N	EM08	UMCf	77.0 - 87.0	1,390	10,400 J	<120	<117	1,850 J	43.3 J	----	----	----	----	267,000
U4-MW-11I	4/18/2023	FD	EM08	UMCf	77.0 - 87.0	1,590	17,100 J	<120	<117	1,130 J	36.6 J	----	----	----	----	282,000
U4-MW-11I	5/19/2023	N	EM09	UMCf	77.0 - 87.0	423	4,830 J	<240 UJ	<117	1,120	44.9 J	----	----	----	----	262,000
U4-MW-11I	5/19/2023	FD	EM09	UMCf	77.0 - 87.0	478	3,070 J	<24.0	<117	1,150	<33.3	----	----	----	----	263,000
U4-MW-11I	6/15/2023	N	EM10	UMCf	77.0 - 87.0	23.4	<120	<120	<117	1,050 J	83.8 J	1,280,000	1,280,000	<8,450	<8,450	190,000
U4-MW-11I	6/15/2023	FD	EM10	UMCf	77.0 - 87.0	28.6	<120	<120	<117	1,460 J	118	1,290,000	1,290,000	<8,450	<8,450	190,000
U4-MW-11I	7/13/2023	N	EM11	UMCf	77.0 - 87.0	1,340	9,920	<240	<117	1,530	96.7 J	----	----	----	----	227,000
U4-MW-11I	7/13/2023	FD	EM11	UMCf	77.0 - 87.0	1,310	10,700	<240	<117	1,520	133	----	----	----	----	225,000
U4-MW-11I	8/14/2023	N	EM12	UMCf	77.0 - 87.0	343,000	3,460,000	<24,000	<117	<140	46.4 J	----	----	----	----	2,000,000
U4-MW-11I	8/14/2023	FD	EM12	UMCf	77.0 - 87.0	342,000	3,390,000	<24,000	<117	<140	<33.3	----	----	----	----	1,970,000
U4-MW-11I	9/13/2023	N	EM13	UMCf	77.0 - 87.0	396,000	5,100,000	<24,000	243 J	<560	<33.3	666,000	666,000	<8,450	<8,450	2,030,000
U4-MW-11I	9/13/2023	FD	EM13	UMCf	77.0 - 87.0	391,000	4,920,000	<24,000	223 J	<560	<33.3	672,000	672,000	<8,450	<8,450	2,110,000
U4-MW-11I	10/19/2023	N	EM14	UMCf	77.0 - 87.0	597,000	9,720,000	<24,000	<117	<280	<33.3	----	----	----	----	2,600,000
U4-MW-11I	10/19/2023	FD	EM14	UMCf	77.0 - 87.0	616,000	9,710,000	<24,000	<117	<560	<33.3	----	----	----	----	2,600,000
U4-MW-11I	11/16/2023	N	EM15	UMCf	77.0 - 87.0	525,000 J+	7,530,000 J+	<24000 UJ	<117	<140	<33.3	----	----	----	----	2,200,000 J
U4-MW-11I	11/16/2023	FD	EM15	UMCf	77.0 - 87.0	519,000 J+	7,980,000 J+	<480 UJ	<117	<140	<33.3	----	----	----	----	21,300 J
U4-MW-11I	12/13/2023	N	EM16	UMCf	77.0 - 87.0	489,000	7,310,000	<24,000	<117	<140	113	916,000	916,000	<8,450	<8,450	1,880,000
U4-MW-11I	12/13/2023	FD	EM16	UMCf	77.0 - 87.0	500,000	7,350,000	<24,000	<117	<140	91.8 J	907,000	907,000	<8,450	<8,450	2,030,000
U4-MW-11I	1/25/2024	N	EM17	UMCf	77.0 - 87.0	541,000	7,780,000	<24,000	<117	<700	101 J+	----	----	----	----	1,960,000
U4-MW-11I	1/25/2024	FD	EM17	UMCf	77.0 - 87.0	541,000	7,700,000	<24,000	<117	<700	103 J+	----	----	----	----	2,300,000
U4-MW-11I	2/14/2024	N	EM18	UMCf	77.0 - 87.0	618,000	6,970,000	<120,000	<117	<140	84.8 J	----	----	----	----	2,280,000
U4-MW-11I	2/14/2024	FD	EM18	UMCf	77.0 - 87.0	601,000	7,020,000	<120,000	<117	<140	78.4 J	----	----	----	----	2,370,000
U4-MW-11I	3/13/2024	N	EM19	UMCf	77.0 - 87.0	558,000	8,540,000	<24,000	140 J	<280	<33.3	797,000	797,000	<8,450	<8,450	2,400,000
U4-MW-11I	3/13/2024	FD	EM19	UMCf	77.0 - 87.0	580,000	8,560,000	<24,000	133 J	<280	<33.3	798,000	798,000	<8,450	<8,450	2,450,000
U4-MW-11I	6/12/2024	N	EM20	UMCf	77.0 - 87.0	619,000	8,730,000	<24,000	266	<1,400	<33.3	648,000	648,000	<8,450	<8,450	2,310,000
U4-MW-11I	6/12/2024	FD	EM20	UMCf	77.0 - 87.0	692,000	8,620,000	<24,000	278	<1,400	<33.3	653,000	653,000	<8,450	<8,450	2,300,000
U4-MW-11I	9/23/2024	N	EM21	UMCf	77.0 - 87.0	566,000	6,970,000	<79,000	488	<2,800	41.6 J	645,000	----	----	----	2,090,000
U4-MW-11I	9/23/2024	FD	EM21	UMCf	77.0 - 87.0	550,000	6,860,000	<79,000	493	<2,800	87.8 J	634,000	----	----	----	2,110,000
U4-MW-12D	4/15/2022	N	BL02	UMCf	97.1 - 107.1	1,280,000	14,400,000	<24,000	<117	<3,500	67.4 J	138,000	138,000	<8,450	<8,450	3,380,000
U4-MW-12D	9/27/2022	N	EM01	UMCf	97.1 - 107.1	793,000	8,490,000	<120,000	<117	<1,400	161 J-	----	----	----	----	2,080,000
U4-MW-12D	10/12/2022	N	EM02	UMCf	97.1 - 107.1	1,070,000	9,510,000	<240,000	<117	<700	48.9 J	----	----	----	----	2,150,000

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	E314.0	E300.1	E300.1	E350.1	E351.2	E365.1	Alkalinity by SM2320B	Alkalinity by SM2320B	Alkalinity by SM2320B	Alkalinity by SM2320B	Anions by E300.0/SW9065A
						Perchlorate	Chlorate	Chlorite	Ammonia (as N)	Total Kjeldahl Nitrogen (TKN)	Phosphorus	Alkalinity as CaCO3	Bicarbonate Alkalinity as CaCO3	Carbonate Alkalinity as CaCO3	Hydroxide Alkalinity as CaCO3	Chloride
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-12D	11/2/2022	N	EM03	UMCf	97.1 - 107.1	1,030,000	9,430,000	<240,000	<117	<7,000	<33.3	----	----	----	----	2,060,000
U4-MW-12D	12/7/2022	N	EM04	UMCf	97.1 - 107.1	1,060,000	6,990,000	<240,000	<117	<700	45.3 J	218,000	218,000	<8,450	<8,450	2,010,000
U4-MW-12D	1/12/2023	N	EM05	UMCf	97.1 - 107.1	918,000	8,540,000	<240,000	<117	<2,800	<33.3	----	----	----	----	1,900,000
U4-MW-12D	2/15/2023	N	EM06	UMCf	97.1 - 107.1	617,000 J+	8,230,000	<24,000	<117	<1,400	<33.3	----	----	----	----	1,840,000
U4-MW-12D	3/14/2023	N	EM07	UMCf	97.1 - 107.1	567,000 J+	6,130,000	<24,000	<117	<700	<33.3	302,000	302,000	<8,450	<8,450	1,610,000
U4-MW-12D	4/17/2023	N	EM08	UMCf	97.1 - 107.1	1,080,000	8,070,000	<240,000	<117	<1,400	<33.3	----	----	----	----	1,970,000
U4-MW-12D	5/17/2023	N	EM09	UMCf	97.1 - 107.1	1,070,000	8,420,000	<240,000	118 J	<700	<33.3	----	----	----	----	2,110,000
U4-MW-12D	6/16/2023	N	EM10	UMCf	97.1 - 107.1	814,000	6,910,000	<240,000	<117	<700	62.1 J	148,000	148,000	<8,450	<8,450	1,840,000
U4-MW-12D	7/13/2023	N	EM11	UMCf	97.1 - 107.1	366,000	4,230,000	<24,000	<117	<560	36.7 J	----	----	----	----	1,170,000
U4-MW-12D	8/14/2023	N	EM12	UMCf	97.1 - 107.1	357,000	4,010,000	<24,000	<117	<280	<33.3	----	----	----	----	1,220,000
U4-MW-12D	9/12/2023	N	EM13	UMCf	97.1 - 107.1	256,000	3,370,000	<24,000	<117	<280	<33.3	369,000	369,000	<8,450	<8,450	1,180,000
U4-MW-12D	10/17/2023	N	EM14	UMCf	97.1 - 107.1	218,000	2,520,000	<24,000	<117	<140	<33.3 UJ	----	----	----	----	1,320,000
U4-MW-12D	11/15/2023	N	EM15	UMCf	97.1 - 107.1	213,000	2,360,000	<24000 UJ	<117	<140 R	<33.3	----	----	----	----	1,370,000
U4-MW-12D	12/12/2023	N	EM16	UMCf	97.1 - 107.1	222,000	2,120,000	29,600 J	<117	<140	<33.3	1,080,000	1,080,000	<8,450	<8,450	1,300,000
U4-MW-12D	1/24/2024	N	EM17	UMCf	97.1 - 107.1	209,000	2,220,000	72,300	<117	<140	47.1 J	----	----	----	----	1,460,000
U4-MW-12D	2/13/2024	N	EM18	UMCf	97.1 - 107.1	192,000	2,020,000	110,000	<117	<140	61.3 J	----	----	----	----	1,390,000
U4-MW-12D	3/12/2024	N	EM19	UMCf	97.1 - 107.1	209,000	2,290,000	<24,000	<117	<140	45.9 J	1,290,000	1,290,000	<8,450	<8,450	1,560,000
U4-MW-12D	6/12/2024	N	EM20	UMCf	97.1 - 107.1	450,000	5,100,000	<24,000	<117	<1,400	<33.3	851,000	851,000	<8,450	<8,450	2,090,000
U4-MW-12D	9/24/2024	N	EM21	UMCf	97.1 - 107.1	439,000	5,770,000	<15,800	<117	<560	36.4 J	588,000	----	----	----	1,950,000
U4-MW-12I	4/14/2022	N	BL02	UMCf	76.8 - 86.8	424,000	4,000,000	<24,000	<117	<1,400	68.0 J	147,000	147,000	<8,450	<8,450	967,000
U4-MW-12I	4/14/2022	FD	BL02	UMCf	76.8 - 86.8	420,000	3,920,000	<24,000	<117	<1,400	104 J+	139,000	139,000	<8,450	<8,450	968,000
U4-MW-12I	9/27/2022	N	EM01	UMCf	76.8 - 86.8	51,500	535,000	<2,400	<117	<140	271 J-	----	----	----	----	278,000
U4-MW-12I	10/12/2022	N	EM02	UMCf	76.8 - 86.8	35,100	475,000 J	<240000 R	<117 UJ	<140 UJ	42.6 J	----	----	----	----	280,000
U4-MW-12I	11/2/2022	N	EM03	UMCf	76.8 - 86.8	28,800	170,000	<2400 UJ	<117	<140 UJ	<33.3	----	----	----	----	283,000
U4-MW-12I	12/7/2022	N	EM04	UMCf	76.8 - 86.8	6,800	26,800	<12,000	<117	629 J+	<33.3	592,000	592,000	<8,450	<8,450	----
U4-MW-12I	12/7/2022	FD	EM04	UMCf	76.8 - 86.8	6,630	28,700	<12,000	<117	739 J+	<33.3	----	----	----	----	----
U4-MW-12I	1/13/2023	N	EM05	UMCf	76.8 - 86.8	2,450	24,100	<2,400	<117	579	<33.3	----	----	----	----	197,000
U4-MW-12I	2/15/2023	N	EM06	UMCf	76.8 - 86.8	1,720 J+	16,900	46,000	<117	878	<33.3	----	----	----	----	169,000
U4-MW-12I	3/13/2023	N	EM07	UMCf	76.8 - 86.8	269	1,800	31,200	<117	1,220	<33.3	1,560,000	1,560,000	<8,450	<8,450	151,000
U4-MW-12I	4/17/2023	N	EM08	UMCf	76.8 - 86.8	2.13 J	<24.0	<24.0	<117	1,270	53.9 J	----	----	----	----	152,000
U4-MW-12I	5/17/2023	N	EM09	UMCf	76.8 - 86.8	36,700	<240	<240 UJ	<117	1,050	98.7 J	----	----	----	----	143,000
U4-MW-12I	6/16/2023	N	EM10	UMCf	76.8 - 86.8	9.08 J-	202 J	<120	<117	1,610	86.9 J	1,810,000	1,810,000	<8,450	<8,450	144,000 J-
U4-MW-12I	7/11/2023	N	EM11	UMCf	76.8 - 86.8	469	3,660	<240	<117	1,470 J-	50.4 J	----	----	----	----	157,000
U4-MW-12I	8/14/2023	N	EM12	UMCf	76.8 - 86.8	238,000	2,110,000	<24,000	<117	<140	<33.3	----	----	----	----	1,170,000
U4-MW-12I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	31,900	109,000	<2,400	<117	679	209 J-	1,150,000	1,150,000	<8,450	<8,450	610,000
U4-MW-12I	10/17/2023	N	EM14	UMCf	76.8 - 86.8	321	1,700	<240	195 J	1,530	<33.3 UJ	----	----	----	----	234,000
U4-MW-12I	11/16/2023	N	EM15	UMCf	76.8 - 86.8	130,000 J+	1,020,000 J+	<12000 UJ	595	<140 R	<33.3	----	----	----	----	1,020,000
U4-MW-12I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	158,000	1,150,000	<24,000	<117	<140 R	45.4 J	1,080,000	1,080,000	<8,450	<8,450	1,420,000
U4-MW-12I	1/24/2024	N	EM17	UMCf	76.8 - 86.8	210,000	1,050,000	<24,000	<117	<140 R	40.4 J	----	----	----	----	1,560,000
U4-MW-12I	2/13/2024	N	EM18	UMCf	76.8 - 86.8	301,000	1,210,000	<24000 R	<117	<140 R	64.3 J	----	----	----	----	1,350,000
U4-MW-12I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	277,000	1,710,000	<24000 R	224 J	<140 R	356 J-	1,120,000	1,120,000	<8,450	<8,450	1,630,000
U4-MW-12I	6/13/2024	N	EM20	UMCf	76.8 - 86.8	535,000	4,610,000	<24,000	381	<560 R	33.9 J	597,000	597,000	<8,450	<8,450	1,500,000
U4-MW-12I	9/23/2024	N	EM21	UMCf	76.8 - 86.8	619,000	5,710,000	<79000 R	520	<2,800	271	490,000	----	----	----	1,660,000
U4-MW-13D	4/14/2022	N	BL02	UMCf	98.2 - 108.2	1,330,000	14,700,000	<240,000	<117	<1,400	115 J+	128,000	128,000	<8,450	<8,450	3,130,000
U4-MW-13D	9/28/2022	N	EM01	UMCf	98.2 - 108.2	401,000	5,370,000	<24,000	<117	<280	<33.3 UJ	----	----	----	----	1,330,000
U4-MW-13D	10/11/2022	N	EM02	UMCf	98.2 - 108.2	413,000	4,100,000	<120,000	<117	<560	<33.3	----	----	----	----	1,400,000
U4-MW-13D	11/3/2022	N	EM03	UMCf	98.2 - 108.2	433,000	4,080,000	<240,000	<117	<280	<33.3	----	----	----	----	1,300,000

Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	E314.0	E300.1	E300.1	E350.1	E351.2	E365.1	Alkalinity by SM2320B	Alkalinity by SM2320B	Alkalinity by SM2320B	Alkalinity by SM2320B	Anions by E300.0/SW9065A
						Perchlorate	Chlorate	Chlorite	Ammonia (as N)	Total Kjeldahl Nitrogen (TKN)	Phosphorus	Alkalinity as CaCO3	Bicarbonate Alkalinity as CaCO3	Carbonate Alkalinity as CaCO3	Hydroxide Alkalinity as CaCO3	Chloride
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-13D	12/7/2022	N	EM04	UMCf	98.2 - 108.2	411,000	3,380,000	<240,000	257	<700	<33.3	190,000	190,000	<8,450	<8,450	1,190,000
U4-MW-13D	1/12/2023	N	EM05	UMCf	98.2 - 108.2	383,000	3,950,000	<240,000	<117	<280	<33.3	----	----	----	----	984,000
U4-MW-13D	2/15/2023	N	EM06	UMCf	98.2 - 108.2	374,000 J+	3,490,000	<24,000	<117	<560	<33.3	----	----	----	----	820,000
U4-MW-13D	3/17/2023	N	EM07	UMCf	98.2 - 108.2	337,000	3,160,000	<24,000	<117	<280	193	107,000	107,000	<8,450	<8,450	699,000 J+
U4-MW-13D	4/18/2023	N	EM08	UMCf	98.2 - 108.2	224,000	1,910,000	<24,000	<117	<140	<33.3	----	----	----	----	567,000
U4-MW-13D	5/17/2023	N	EM09	UMCf	98.2 - 108.2	207,000	1,660,000	<24,000	<117	<140	<33.3	----	----	----	----	595,000
U4-MW-13D	6/15/2023	N	EM10	UMCf	98.2 - 108.2	241,000	1,840,000	<24,000	<117	<140	33.7 J	202,000	202,000	<8,450	<8,450	747,000
U4-MW-13D	7/12/2023	N	EM11	UMCf	98.2 - 108.2	224,000	1,770,000	<24,000	<117	<140	<33.3	----	----	----	----	855,000
U4-MW-13D	8/11/2023	N	EM12	UMCf	98.2 - 108.2	277,000	2,460,000	<24,000	<117	<560	42.6 J	----	----	----	----	876,000
U4-MW-13D	9/11/2023	N	EM13	UMCf	98.2 - 108.2	288,000	3,190,000	<24,000	<117	<560	<33.3	189,000	189,000	<8,450	<8,450	1,030,000
U4-MW-13D	10/18/2023	N	EM14	UMCf	98.2 - 108.2	314,000	3,130,000	<24,000	<117	<700	<33.3	----	----	----	----	1,070,000
U4-MW-13D	11/15/2023	N	EM15	UMCf	98.2 - 108.2	281,000 J-	3,340,000	<24000 UJ	<117	<280	<33.3	----	----	----	----	1,070,000
U4-MW-13D	12/11/2023	N	EM16	UMCf	98.2 - 108.2	302,000	3,410,000	<24,000	<117	<700	<33.3	190,000	190,000	<8,450	<8,450	1,090,000
U4-MW-13D	1/23/2024	N	EM17	UMCf	98.2 - 108.2	365,000	3,270,000	<120,000	<117	<560	<33.3	----	----	----	----	1,210,000
U4-MW-13D	2/12/2024	N	EM18	UMCf	98.2 - 108.2	382,000	3,510,000	<24000 R	<117	<560	36.7 J	----	----	----	----	1,220,000
U4-MW-13D	3/11/2024	N	EM19	UMCf	98.2 - 108.2	344,000	3,790,000	<24,000	<117	<1,400	<33.3	198,000	198,000	<8,450	<8,450	1,160,000
U4-MW-13D	6/13/2024	N	EM20	UMCf	98.2 - 108.2	559,000	6,130,000	<24,000	<117	<700	<33.3	123,000	123,000	<8,450	<8,450	1,430,000
U4-MW-13D	9/20/2024	N	EM21	UMCf	98.2 - 108.2	613,000	6,280,000	<79,000	<117	<2,800	79.7 J	114,000	----	----	----	1,630,000
U4-MW-13I	4/14/2022	N	BL02	UMCf	77.1 - 87.1	418,000	4,180,000	<24,000	<117	<1,400	109 J+	116,000	116,000	<8,450	<8,450	943,000
U4-MW-13I	9/28/2022	N	EM01	UMCf	77.1 - 87.1	233,000	1,720,000	<12,000	<117	<280	79.5 J	----	----	----	----	487,000
U4-MW-13I	10/10/2022	N	EM02	UMCf	77.1 - 87.1	212,000	1,410,000	<24,000	<117	<140	50.5 J	----	----	----	----	441,000
U4-MW-13I	11/3/2022	N	EM03	UMCf	77.1 - 87.1	149,000	830,000	<24,000	<117	<140	<33.3	----	----	----	----	402,000
U4-MW-13I	12/6/2022	N	EM04	UMCf	77.1 - 87.1	69,200	337,000	<24000 UJ	122 J	<140 UJ	<33.3 UJ	599,000	599,000	<8450 UJ	<8450 UJ	467,000
U4-MW-13I	1/12/2023	N	EM05	UMCf	77.1 - 87.1	59,400	261,000	<24,000	<117	<140	75.6 J	----	----	----	----	447,000
U4-MW-13I	2/14/2023	N	EM06	UMCf	77.1 - 87.1	117,000	790,000	<24,000	183 J	<140	<33.3	----	----	----	----	521,000
U4-MW-13I	3/16/2023	N	EM07	UMCf	77.1 - 87.1	2,680 J+	12,500	<240	<117	959 J	66.8 J	1,100,000	1,100,000	<8,450	<8,450	341,000
U4-MW-13I	4/19/2023	N	EM08	UMCf	77.1 - 87.1	1,350	4,660	<240	<117	848	54.7 J	----	----	----	----	287,000
U4-MW-13I	5/17/2023	N	EM09	UMCf	77.1 - 87.1	5,630	52,900	<240	582	1,360	122 J+	----	----	----	----	234,000
U4-MW-13I	6/15/2023	N	EM10	UMCf	77.1 - 87.1	9,360 J-	53,200	<2400 UJ	138 J	859	47.6 J	1,160,000	1,160,000	<8,450	<8,450	225,000
U4-MW-13I	7/12/2023	N	EM11	UMCf	77.1 - 87.1	13,600	94,400	<240	122 J	1,090	50.5 J	----	----	----	----	229,000
U4-MW-13I	8/11/2023	N	EM12	UMCf	77.1 - 87.1	353,000	2,600,000	<24,000	284	<560	41.8 J	----	----	----	----	890,000
U4-MW-13I	9/11/2023	N	EM13	UMCf	77.1 - 87.1	327,000	3,300,000	<24,000	130 J	<560	38.5 J	222,000	222,000	<8,450	<8,450	1,020,000
U4-MW-13I	10/17/2023	N	EM14	UMCf	77.1 - 87.1	355,000	3,620,000	<24,000	<117	<280	<33.3 UJ	----	----	----	----	1,090,000
U4-MW-13I	11/15/2023	N	EM15	UMCf	77.1 - 87.1	441,000 J-	3,990,000	<24000 UJ	<117	<280	<33.3	----	----	----	----	1,150,000
U4-MW-13I	12/11/2023	N	EM16	UMCf	77.1 - 87.1	520,000	4,360,000	<24,000	<117	<700	65.0 J	307,000	307,000	<8,450	<8,450	1,190,000
U4-MW-13I	1/23/2024	N	EM17	UMCf	77.1 - 87.1	712,000	5,050,000	<24,000	<585	<140	<33.3	----	----	----	----	1,390,000
U4-MW-13I	2/12/2024	N	EM18	UMCf	77.1 - 87.1	667,000	5,160,000	<24,000	<1,170	<560	51.3 J	----	----	----	----	1,370,000
U4-MW-13I	3/11/2024	N	EM19	UMCf	77.1 - 87.1	660,000	5,540,000	<24,000	<1,170	<1,400	<33.3	365,000	365,000	<8,450	<8,450	1,380,000
U4-MW-13I	6/13/2024	N	EM20	UMCf	77.1 - 87.1	767,000	5,750,000	<24,000	<117	<700	40.5 J	208,000	208,000	<8,450	<8,450	1,410,000
U4-MW-13I	9/20/2024	N	EM21	UMCf	77.1 - 87.1	838,000	5,820,000	<79,000	129 J	<2,800	72.1 J	180,000	----	----	----	1,570,000
U4-MW-14D	4/13/2022	N	BL02	UMCf	97.3 - 107.3	140,000	462,000	<12,000	<117	<140	33.3 R	101,000	101,000	<8,450	<8,450	349,000
U4-MW-14D	12/6/2022	N	EM04	UMCf	97.3 - 107.3	207,000 J+	1,300,000	<24000 UJ	<117 UJ	<140 UJ	<33.3 UJ	71,300	71,300	<8450 UJ	<8450 UJ	432,000
U4-MW-14D	3/16/2023	N	EM07	UMCf	97.3 - 107.3	159,000	1,260,000	<24,000	<117	<140	38.2 J	85,900	85,900	<8,450	<8,450	316,000
U4-MW-14D	6/15/2023	N	EM10	UMCf	97.3 - 107.3	119,000	57,700	<24,000	<117	<140	<33.3	175,000	175,000	<8,450	<8,450	379,000
U4-MW-14D	9/14/2023	N	EM13	UMCf	97.3 - 107.3	75,100	627,000	<2,400	<117	<140	<33.3	569,000	569,000	<8,450	<8,450	656,000
U4-MW-14D	12/15/2023	N	EM16	UMCf	97.3 - 107.3	98,900 J-	733,000	<24,000	<117	<140	<33.3	477,000	477,000	<8,450	<8,450	592,000
U4-MW-14D	3/13/2024	N	EM19	UMCf	97.3 - 107.3	106,000	879,000	<2,400	<117	<140	<33.3	395,000	395,000	<8,450	<8,450	616,000

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	E314.0	E300.1	E300.1	E350.1	E351.2	E365.1	Alkalinity by SM2320B	Alkalinity by SM2320B	Alkalinity by SM2320B	Alkalinity by SM2320B	Anions by E300.0/SW9065A
						Perchlorate	Chlorate	Chlorite	Ammonia (as N)	Total Kjeldahl Nitrogen (TKN)	Phosphorus	Alkalinity as CaCO3	Bicarbonate Alkalinity as CaCO3	Carbonate Alkalinity as CaCO3	Hydroxide Alkalinity as CaCO3	Chloride
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-14D	6/13/2024	N	EM20	UMCf	97.3 - 107.3	119,000	735,000	<12000 R	----	----	<33.3	306,000	306,000	<8,450	<8,450	494,000
U4-MW-14D	9/19/2024	N	EM21	UMCf	97.3 - 107.3	114,000	817,000	<15,800	<117	<140	53.4 J	199,000	----	----	----	413,000
U4-MW-14I	4/14/2022	N	BL02	UMCf	77.3 - 87.3	181,000	506,000	<2,400	<117	<140	173 J+	77,600	70,500	<8,450	<8,450	274,000
U4-MW-14I	12/6/2022	N	EM04	UMCf	77.3 - 87.3	249,000	1,060,000	<24000 UJ	<117 UJ	<140 UJ	<33.3 UJ	87,400	87,400	<8450 UJ	<8450 UJ	401,000
U4-MW-14I	3/16/2023	N	EM07	UMCf	77.3 - 87.3	427,000	1,200,000	<24,000	<117	<140	56.8 J	87,300	87,300	<8,450	<8,450	346,000
U4-MW-14I	6/15/2023	N	EM10	UMCf	77.3 - 87.3	243,000	752,000	<24,000	<117	<140	69.3 J	258,000	258,000	<8,450	<8,450	404,000
U4-MW-14I	9/14/2023	N	EM13	UMCf	77.3 - 87.3	133,000	683,000	<2400 UJ	<117	<140	45.3 J	521,000	521,000	<8,450	<8,450	623,000
U4-MW-14I	12/14/2023	N	EM16	UMCf	77.3 - 87.3	178,000 J-	942,000	<24,000	<117	<140	77.4 J	588,000	588,000	<8,450	<8,450	668,000
U4-MW-14I	3/13/2024	N	EM19	UMCf	77.3 - 87.3	156,000	791,000	<2,400	<117	<140	64.0 J	700,000	700,000	<8,450	<8,450	777,000
U4-MW-14I	6/14/2024	N	EM20	UMCf	77.3 - 87.3	350,000	1,120,000	<24,000	----	<280	55.2 J	410,000	410,000	<8,450	<8,450	703,000
U4-MW-14I	9/19/2024	N	EM21	UMCf	77.3 - 87.3	479,000	1,410,000	<15,800	<117	<140	76.1 J	260,000	----	----	----	643,000
U4-MW-15D	4/13/2022	N	BL02	UMCf	96.0 - 106.0	141,000	2,400,000	<24,000	<117	<700	63.7 J	112,000	112,000	<8,450	<8,450	749,000
U4-MW-15D	12/5/2022	N	EM04	UMCf	96.0 - 106.0	75,300	1,220,000	<24,000	<117	<140	<33.3 UJ	108,000	108,000	<8,450	<8,450	458,000
U4-MW-15D	3/20/2023	N	EM07	UMCf	96.0 - 106.0	61,600	1,070,000	<24,000	<117	<140	68.9 J	77,100	77,100	<8,450	<8,450	403,000
U4-MW-15D	6/14/2023	N	EM10	UMCf	96.0 - 106.0	80,000	1,500,000	<24,000	<117	<140	37.7 J	95,600	95,600	<8,450	<8,450	489,000
U4-MW-15D	9/13/2023	N	EM13	UMCf	96.0 - 106.0	68,000	1,100,000	<24,000	<117	<140	<33.3	75,600	75,600	<8,450	<8,450	419,000
U4-MW-15D	12/12/2023	N	EM16	UMCf	96.0 - 106.0	64,100	1,010,000	<24,000	<117	<140	<33.3	259,000	259,000	<8,450	<8,450	409,000
U4-MW-15D	3/12/2024	N	EM19	UMCf	96.0 - 106.0	68,600	1,180,000	<12,000	<117	<280	1,050	543,000	543,000	<8,450	<8,450	407,000
U4-MW-15D	6/14/2024	N	EM20	UMCf	96.0 - 106.0	56,400	952,000	<12,000	----	<140	<33.3	330,000	330,000	<8,450	<8,450	377,000
U4-MW-15D	9/24/2024	N	EM21	UMCf	96.0 - 106.0	47,900	966,000	<1,580	<117	<140	118 J+	197,000	----	----	----	340,000
U4-MW-15DD	4/13/2022	N	BL02	UMCf	120.3 - 130.3	1,380	19,700	<2,400	<117	<140	<33.3	108,000	100,000	<8,450	<8,450	152,000
U4-MW-15DD	12/5/2022	N	EM04	UMCf	120.3 - 130.3	20.1	1,580	<240	142 J	<140	36.9 J	82,600	77,800	<8,450	<8,450	144,000
U4-MW-15DD	3/15/2023	N	EM07	UMCf	120.3 - 130.3	14.5	<240	<240	<117	<140	52.3 J	81,600	79,300	<8,450	<8,450	141,000
U4-MW-15DD	6/13/2023	N	EM10	UMCf	120.3 - 130.3	22.0	<120	<120	<117	<140	45.5 J	85,500	85,500	<8,450	<8,450	138,000
U4-MW-15DD	9/14/2023	N	EM13	UMCf	120.3 - 130.3	21.2	126 J	<120	<117	<140	<33.3	82,200	82,200	<8,450	<8,450	143,000
U4-MW-15DD	12/13/2023	N	EM16	UMCf	120.3 - 130.3	19.5	2,070	<24.0	<117	<140	81.6 J	82,700	78,900	<8,450	<8,450	143,000
U4-MW-15DD	3/12/2024	N	EM19	UMCf	120.3 - 130.3	21.4	844 J+	<120	<117	484 J	497	78,100	78,100	<8,450	<8,450	143,000
U4-MW-15DD	6/14/2024	N	EM20	UMCf	120.3 - 130.3	14.0	<120	<120	----	<140	<33.3	92,900	92,900	<8,450	<8,450	140,000
U4-MW-15DD	9/24/2024	N	EM21	UMCf	120.3 - 130.3	13.3	166	<15.8	<117	<140	<33.3	89,400	----	----	----	134,000
U4-MW-15I	4/12/2022	N	BL02	UMCf	76.8 - 86.8	86,400	1,190,000	<24,000	<117	<140	85.9 J	233,000	----	----	----	420,000
U4-MW-15I	12/5/2022	N	EM04	UMCf	76.8 - 86.8	84,200	862,000	<24,000	<117	<140	45.5 J	486,000	486,000	<8,450	<8,450	500,000
U4-MW-15I	3/17/2023	N	EM07	UMCf	76.8 - 86.8	376 J	<240	179,000	<117	2,510 J+	45.7 J	1,440,000	1,440,000	<8,450	<8,450	189,000
U4-MW-15I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	13.4	<120	<120	131 J	2,050	81.8 J	1,460,000	1,460,000	<8,450	<8,450	226,000
U4-MW-15I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	93,500	1,400,000	<24,000	213 J	<140	<33.3	734,000	734,000	<8,450	<8,450	938,000
U4-MW-15I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	108,000	1,590,000	<24,000	<117	----	56.6 J	657,000	657,000	<8,450	<8,450	873,000
U4-MW-15I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	207,000	3,600,000	<24,000	201 J	<280	842	499,000	499,000	<8,450	<8,450	1,150,000
U4-MW-15I	6/17/2024	N	EM20	UMCf	76.8 - 86.8	249,000	3,980,000	<24,000	----	<560	61.0 J	506,000	506,000	<8,450	<8,450	1,290,000
U4-MW-15I	9/25/2024	N	EM21	UMCf	76.8 - 86.8	<8.00	<1,580	<790	512,000 J-	776,000	11,900	8,840,000	----	----	----	300,000
U4-MW-15S	4/13/2022	N	BL02	UMCf	54.8 - 64.8	3,800	36,100	<24.0	<117	<140	74.6 J	100,000	100,000	<8,450	<8,450	178,000
U4-MW-15S	12/5/2022	N	EM04	UMCf	54.8 - 64.8	663	<24,000	70,700	<117	2,030	143 J-	650,000	650,000	<8,450	<8,450	137,000
U4-MW-15S	3/13/2023	N	EM07	UMCf	54.8 - 64.8	21.6 J-	<240	<2,400	<117	810	185	1,500,000	1,500,000	<8,450	<8,450	155,000
U4-MW-15S	6/13/2023	N	EM10	UMCf	54.8 - 64.8	<0.300	<120	<120	<117	7,440	257 J+	2,360,000	2,360,000	<8,450	<8,450	121,000
U4-MW-15S	9/14/2023	N	EM13	UMCf	54.8 - 64.8	<0.300	253 J	<240	257 J-	15,700 J-	232	4,130,000	4,130,000	<8,450	<8,450	136,000
U4-MW-15S	12/11/2023	N	EM16	UMCf	54.8 - 64.8	<0.300	<120	<24.0 UJ	<11700 UJ	2,160 J-	11,800	6,570,000	6,570,000	<8,450	<8,450	126,000
U4-MW-15S	3/12/2024	N	EM19	UMCf	54.8 - 64.8	<0.300	426 J	<240	<23400 UJ	2,290	30,100 J-	1,900,000	1,900,000	<8,450	<8,450	125,000
U4-MW-15S	3/26/2024	N	EM19	UMCf	54.8 - 64.8	9.17	1,910	<24.0	298	1,850	159	1,370,000	1,370,000	<8,450	<8,450	140,000
U4-MW-15S	6/14/2024	N	EM20	UMCf	54.8 - 64.8	<3.00	<120	<120	----	693	103	844,000	844,000	<8,450	<8,450	169,000

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	E314.0	E300.1	E300.1	E350.1	E351.2	E365.1	Alkalinity by SM2320B	Alkalinity by SM2320B	Alkalinity by SM2320B	Alkalinity by SM2320B	Anions by E300.0/SW9065A
						Perchlorate	Chlorate	Chlorite	Ammonia (as N)	Total Kjeldahl Nitrogen (TKN)	Phosphorus	Alkalinity as CaCO3	Bicarbonate Alkalinity as CaCO3	Carbonate Alkalinity as CaCO3	Hydroxide Alkalinity as CaCO3	Chloride
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-15S	9/20/2024	N	EM21	UMCf	54.8 - 64.8	<8.00	<317	<158	305	1,110	920	501,000	----	----	----	184,000
U4-MW-16D	4/11/2022	N	BL02	UMCf	96.8 - 106.8	1,670,000	15,000,000	<240,000	<117	<2,800	33.3 R	119,000	119,000	<8,450	<8,450	3,030,000
U4-MW-16D	12/5/2022	N	EM04	UMCf	96.8 - 106.8	974,000	5,970,000	<240,000	<117 UJ	<700	<33.3 UJ	259,000	259,000	<8,450	<8,450	1,740,000
U4-MW-16D	3/14/2023	N	EM07	UMCf	96.8 - 106.8	476,000 J+	4,140,000	<24,000	<117	<700	37.5 J	657,000	657,000	<8,450	<8,450	1,490,000
U4-MW-16D	6/13/2023	N	EM10	UMCf	96.8 - 106.8	1,170,000	8,530,000	<240,000	208 J	<1,400	88.1 J	554,000	554,000	<8,450	<8,450	2,180,000
U4-MW-16D	9/15/2023	N	EM13	UMCf	96.8 - 106.8	629,000	5,870,000	<24,000	208 J	<700	<33.3	483,000	483,000	<8,450	<8,450	1,460,000
U4-MW-16D	12/14/2023	N	EM16	UMCf	96.8 - 106.8	552,000	6,850,000	<24,000	<117	<1,400	136	90,500	90,500	<8,450	<8,450	1,410,000
U4-MW-16D	3/14/2024	N	EM19	UMCf	96.8 - 106.8	515,000	5,750,000	<24,000	<117	<1,400	<33.3	181,000	181,000	<8,450	<8,450	1,310,000
U4-MW-16D	6/17/2024	N	EM20	UMCf	96.8 - 106.8	716,000	7,780,000	<24,000	----	<2,800	59.6 J	68,900	68,900	<8,450	<8,450	1,680,000
U4-MW-16D	9/20/2024	N	EM21	UMCf	96.8 - 106.8	849,000	7,240,000	<79,000	<117	<2,800	80.6 J	90,500	----	----	----	1,690,000
U4-MW-16DD	4/12/2022	N	BL02	UMCf	120.8 - 130.8	77,900	396,000	<240	<117	<140	87.1 J	94,500	----	----	----	229,000
U4-MW-16DD	12/5/2022	N	EM04	UMCf	120.8 - 130.8	49,600	146,000	<24,000	<117	<140	<33.3 UJ	99,100	99,100	<8,450	<8,450	188,000
U4-MW-16DD	3/15/2023	N	EM07	UMCf	120.8 - 130.8	35,700	163,000	<2,400	<117	<140	<33.3	98,200	98,200	<8,450	<8,450	171,000
U4-MW-16DD	6/13/2023	N	EM10	UMCf	120.8 - 130.8	28,800	110,000	<2,400	<117	<140 UJ	<33.3	93,500	93,500	<8,450	<8,450	162,000
U4-MW-16DD	9/14/2023	N	EM13	UMCf	120.8 - 130.8	24,200	105,000	<480	<117	<140	<33.3	97,900	97,900	<8,450	<8,450	166,000
U4-MW-16DD	12/13/2023	N	EM16	UMCf	120.8 - 130.8	21,800	78,200	<2,400	<117	<140	<33.3	99,600	99,600	<8,450	<8,450	162,000
U4-MW-16DD	3/14/2024	N	EM19	UMCf	120.8 - 130.8	20,900	78,800	<480	<117	<140 UJ	<33.3	129,000	129,000	<8,450	<8,450	164,000
U4-MW-16DD	6/17/2024	N	EM20	UMCf	120.8 - 130.8	17,800	66,600	<240	----	<140 UJ	<33.3	103,000	103,000	<8,450	<8,450	162,000
U4-MW-16DD	9/19/2024	N	EM21	UMCf	120.8 - 130.8	15,800	48,200	<316	<117	301 J+	47.7 J	106,000	----	----	----	160,000
U4-MW-16I	4/11/2022	N	BL02	UMCf	77.0 - 87.0	366,000	1,820,000	<24,000	<117	<700	33.3 R	60,000	42,800	17,200 J	<8,450	546,000
U4-MW-16I	12/5/2022	N	EM04	UMCf	77.0 - 87.0	205	<2,400	<24,000	<117	943	<33.3 UJ	1,030,000	1,030,000	<8,450	<8,450	147,000
U4-MW-16I	12/5/2022	FD	EM04	UMCf	77.0 - 87.0	263	<24,000	82,400	<117 UJ	956	<33.3 UJ	1,060,000	1,060,000	<8,450	<8,450	144,000
U4-MW-16I	3/13/2023	N	EM07	UMCf	77.0 - 87.0	<0.300	<24.0	109,000	<117	1,760 J-	35.3 J	1,770,000	1,770,000	<8,450	<8,450	120,000
U4-MW-16I	3/13/2023	FD	EM07	UMCf	77.0 - 87.0	<0.300	<24.0	107,000	<117 UJ	1,910 J-	37.5 J	1,770,000	1,770,000	<8,450	<8,450	120,000
U4-MW-16I	6/12/2023	N	EM10	UMCf	77.0 - 87.0	<0.300	<120	<120 UJ	<117	1,530	48.2 J	1,670,000	1,670,000	<8,450	<8,450	133,000
U4-MW-16I	6/12/2023	FD	EM10	UMCf	77.0 - 87.0	<0.300	<120	<120 UJ	<117	1,470	47.4 J	1,640,000	1,640,000	<8,450	<8,450	132,000
U4-MW-16I	9/11/2023	N	EM13	UMCf	77.0 - 87.0	1,080,000	6,830,000	<24,000	174 J	<1,400	49.2 J	401,000	401,000	<8,450	<8,450	1,660,000
U4-MW-16I	9/11/2023	FD	EM13	UMCf	77.0 - 87.0	926,000	6,880,000	<24,000	172 J	<1,400	<33.3	396,000	396,000	<8,450	<8,450	1,690,000
U4-MW-16I	12/11/2023	N	EM16	UMCf	77.0 - 87.0	978,000	<240	<240	160 J	<1,400	33.9 J	240,000	240,000	<8,450	<8,450	188,000
U4-MW-16I	12/11/2023	FD	EM16	UMCf	77.0 - 87.0	1,060,000	<240	<240	157 J	<1,400	<33.3	243,000	243,000	<8,450	<8,450	184,000
U4-MW-16I	3/11/2024	N	EM19	UMCf	77.0 - 87.0	1,280,000	9,860,000	<24,000	137 J	<2,800	46.7 J	176,000	176,000	<8,450	<8,450	1,500,000
U4-MW-16I	3/11/2024	FD	EM19	UMCf	77.0 - 87.0	1,240,000	9,920,000	<24,000	138 J	<2,800	<33.3	174,000	174,000	<8,450	<8,450	1,470,000
U4-MW-16I	6/18/2024	N	EM20	UMCf	77.0 - 87.0	1,040,000	7,960,000	<24,000	----	<2,800	33.8 J	183,000	183,000	<8,450	<8,450	1,690,000
U4-MW-16I	6/18/2024	FD	EM20	UMCf	77.0 - 87.0	1,070,000	7,930,000	<24,000	----	<2,800	52.6 J	183,000	183,000	<8,450	<8,450	1,710,000
U4-MW-16I	9/19/2024	N	EM21	UMCf	77.0 - 87.0	1,050,000	7,670,000	<79,000	276	<2,800	92.7 J	197,000	----	----	----	1,730,000
U4-MW-16I	9/19/2024	FD	EM21	UMCf	77.0 - 87.0	1,030,000	7,010,000	<79,000	271	<2,800	89.3 J	202,000	----	----	----	1,730,000
U4-MW-16S	4/12/2022	N	BL02	UMCf	54.8 - 64.8	9,400	64,100	<240	<117	<140	<33.3	64,800	----	----	----	173,000
U4-MW-16S	4/12/2022	FD	BL02	UMCf	54.8 - 64.8	9,860	64,100	<240	<117	<140	33.3 R	64,400	----	----	----	171,000
U4-MW-16S	12/6/2022	N	EM04	UMCf	54.8 - 64.8	1,030 J+	<2400 UJ	<2400 R	<117 UJ	522	68.4 J	174,000	174,000	<8450 UJ	<8450 UJ	173,000
U4-MW-16S	3/15/2023	N	EM07	UMCf	54.8 - 64.8	<0.300	<24,000	84,200	<117	944	253	1,770,000	1,770,000	<8,450	<8,450	107,000
U4-MW-16S	6/13/2023	N	EM10	UMCf	54.8 - 64.8	<0.300	<240	<240 UJ	<117	1,790	260 J+	1,860,000	1,860,000	<8,450	<8,450	113,000
U4-MW-16S	9/11/2023	N	EM13	UMCf	54.8 - 64.8	<0.300	1,680 J	254,000	<117	1,270	322	1,220,000	1,220,000	<8,450	<8,450	129,000
U4-MW-16S	12/11/2023	N	EM16	UMCf	54.8 - 64.8	<0.300	293 J	355 J	<117	1,730 J+	343	1,510,000	1,510,000	<8,450	<8,450	127,000
U4-MW-16S	3/11/2024	N	EM19	UMCf	54.8 - 64.8	20.8	501	44,900	<117	1,400	273	1,650,000	1,650,000	<8,450	<8,450	139,000
U4-MW-16S	6/17/2024	N	EM20	UMCf	54.8 - 64.8	<1.50	<24.0	<24.0	----	556	251 J+	1,340,000	1,340,000	<8,450	<8,450	137,000
U4-MW-16S	9/20/2024	N	EM21	UMCf	54.8 - 64.8	<4.00	<158	<79.0	<117	770	288 J+	780,000	----	----	----	144,000
U4-SLMW	11/10/2022	N	EM03	-	-	<0.300	4,220 J-	<240	<117	325	46.9 J	----	----	----	----	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	E314.0	E300.1	E300.1	E350.1	E351.2	E365.1	Alkalinity by SM2320B	Alkalinity by SM2320B	Alkalinity by SM2320B	Alkalinity by SM2320B	Anions by E300.0/SW9065A
						Perchlorate	Chlorate	Chlorite	Ammonia (as N)	Total Kjeldahl Nitrogen (TKN)	Phosphorus	Alkalinity as CaCO3	Bicarbonate Alkalinity as CaCO3	Carbonate Alkalinity as CaCO3	Hydroxide Alkalinity as CaCO3	Chloride
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-T3	10/13/2022	N	EM02	-	-	928,000	7,380,000	<240,000	----	----	----	----	----	----	----	1,890,000
U4-T3	11/3/2022	N	EM03	-	-	887,000	7,450,000	<240,000	----	----	----	----	----	----	----	1,780,000
U4-T3	12/6/2022	N	EM04	-	-	766,000	5,280,000	<240000 UJ	----	----	----	----	----	----	----	1,250,000
U4-T3	1/9/2023	N	EM05	-	-	886,000	7,910,000	<240,000	----	----	----	----	----	----	----	1,850,000
U4-T3	2/13/2023	N	EM06	-	-	877,000	7,800,000	<24,000	----	----	----	----	----	----	----	1,770,000
U4-T3	3/13/2023	N	EM07	-	-	815,000	7,400,000	<24,000	----	----	----	----	----	----	----	1,810,000
U4-T3	4/19/2023	N	EM08	-	-	406,000	2,880,000	<24,000	----	----	----	----	----	----	----	885,000
U4-T3	5/18/2023	N	EM09	-	-	498,000	4,200,000	<24,000	----	----	----	----	----	----	----	1,230,000
U4-T3	6/12/2023	N	EM10	-	-	488,000	3,720,000	<240000 UJ	----	----	----	----	----	----	----	1,240,000
U4-T3	7/11/2023	N	EM11	-	-	451,000	3,990,000	<24,000	----	----	----	----	----	----	----	1,260,000
U4-T3	8/10/2023	N	EM12	-	-	252,000	2,110,000	30,400 J	----	----	----	----	----	----	----	879,000
U4-T3	9/11/2023	N	EM13	-	-	217,000	1,990,000	54,900 J+	----	----	----	----	----	----	----	836,000
U4-T3	10/16/2023	N	EM14	-	-	149,000	1,090,000	29,300 J	----	----	----	----	----	----	----	597,000

Notes:
FD - Field duplicate
E - Field instrument error.
J - The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J- - The result is an estimated quantity, but the result may be biased low.
J+ - The result is an estimated quantity, but the result may be biased high.
N/A - Not Applicable
mg/L - milligrams per liter
µg/L - micrograms per liter
N - Normal field sample

R - The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

UMCf- Upper Muddy Creek Formation
< - The analyte was analyzed for, but was not detected above the level of the reported
-- Not tested.
U4-E-08D has been abandoned.
M-252 damaged/obstructed when checked on June 14, 2023 and September 14, 2023.
U4-MW-08S and U4-MW-15S were purged and resampled for EM19 on March 25-26, 2024; Original EM19 samples were collected via bailer due to well condition.
Lab was unable to analyze and report TDS for samples L1782240-20 (U4-E-09I-EM21) and -21 (U4-E-09I-EM21-FD) due to the thickness of the sample matrix.

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020
						Nitrate (as N)	Sulfate	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
M-247-100	4/20/2022	N	BL02	UMCf	100.5 - 110.5	----	----	----	----	----	----	----	----	----	----	----
M-249-100	4/20/2022	N	BL02	UMCf	99.6 - 109.6	----	----	----	----	----	----	----	----	----	----	----
M-251-100	4/19/2022	N	BL02	UMCf	92.5 - 102.5	52,900	1,480,000	----	----	----	----	----	----	----	----	----
M-251-100	10/13/2022	N	EM02	UMCf	92.5 - 102.5	29,700	----	----	----	----	----	----	----	----	----	----
M-251-100	11/2/2022	N	EM03	UMCf	92.5 - 102.5	21,500	----	----	----	----	----	----	----	----	----	----
M-251-100	12/8/2022	N	EM04	UMCf	92.5 - 102.5	22,300	----	----	----	----	----	----	----	----	----	----
M-251-100	1/11/2023	N	EM05	UMCf	92.5 - 102.5	31,100 J+	----	----	----	----	----	----	----	----	----	----
M-251-100	2/13/2023	N	EM06	UMCf	92.5 - 102.5	15,000	----	----	----	----	----	----	----	----	----	----
M-251-100	3/17/2023	N	EM07	UMCf	92.5 - 102.5	15,000 J-	388,000 J	<56.1	<5.15	12.4	75.8	<0.330	<0.750	500,000	20,700	<0.840
M-251-100	4/21/2023	N	EM08	UMCf	92.5 - 102.5	23,000	503,000	----	----	----	----	----	----	----	----	----
M-251-100	5/9/2023	N	EM09	UMCf	92.5 - 102.5	23,200	513,000	----	----	----	----	----	----	----	----	----
M-251-100	6/14/2023	N	EM10	UMCf	92.5 - 102.5	24,500 J-	469,000 J	143 J	<5.15	9.84 J	117	<0.330	<0.750	775,000	35,400	<0.840
M-251-100	7/14/2023	N	EM11	UMCf	92.5 - 102.5	23,800	519,000	----	----	----	----	----	----	----	----	----
M-251-100	8/10/2023	N	EM12	UMCf	92.5 - 102.5	16,200 J+	361,000 J	----	----	----	----	----	----	----	----	----
M-251-100	9/14/2023	N	EM13	UMCf	92.5 - 102.5	26,800 J+	454,000 J	<56.1	<5.15	6.38 J	119	<0.330	<0.750	856,000	28,200	<0.840
M-251-100	10/19/2023	N	EM14	UMCf	92.5 - 102.5	3,340	465,000	----	----	----	----	----	----	----	----	----
M-251-100	11/16/2023	N	EM15	UMCf	92.5 - 102.5	20,800	390,000 J	----	----	----	----	----	----	----	----	----
M-251-100	12/12/2023	N	EM16	UMCf	92.5 - 102.5	20,100 J+	465,000 J	85.4 J	<10.3	7.09 J	155	<0.330	<1.50	914,000	30,400	<0.840
M-251-100	1/25/2024	N	EM17	UMCf	92.5 - 102.5	23,500	465,000 J	----	----	----	----	----	----	----	----	----
M-251-100	2/13/2024	N	EM18	UMCf	92.5 - 102.5	<4,800	365,000 J	----	----	----	----	----	----	----	----	----
M-251-100	3/11/2024	N	EM19	UMCf	92.5 - 102.5	<4800 UJ	365,000 J	3,070	<5.15	16.0	273	0.414 J	<0.750	1,130,000	16,900	6.89 J
M-251-100	6/17/2024	N	EM20	UMCf	92.5 - 102.5	<4,800	514,000	1,840	<10.3	16.7 J	362	0.477 J	<1.50	831,000	20,300	12.6 J+
M-251-100	9/23/2024	N	EM21	UMCf	92.5 - 102.5	<8,840	555,000	870	<5.15	20.4	418	<0.950	<0.750	729,000	13,000	8.64 J
M-251-60	4/18/2022	N	BL02	UMCf	52.3 - 62.3	2,360	1,220,000	----	----	----	----	----	----	----	----	----
M-251-60	3/15/2023	N	EM07	UMCf	52.3 - 62.3	4,430	1,130,000	138 J	2.99 J	49.8	28.8	<0.330	<0.150	30,600	1,520	<0.840
M-251-60	6/14/2023	N	EM10	UMCf	52.3 - 62.3	3,720 J	1,150,000	105 J	1.82 J	60.3	7.04	<0.330	<0.150	22,200	1,760	1.83 J
M-251-60	9/14/2023	N	EM13	UMCf	52.3 - 62.3	6,040	1,150,000	60.6 J	2.01 J	47.6	20.1	<0.330	<0.150	25,400	1,640	<0.840
M-251-60	12/11/2023	N	EM16	UMCf	52.3 - 62.3	3,180 J	1,020,000	172 J	1.91 J	49.1	15.2	<0.330	<0.150	36,200	1,600	2.45 J
M-251-60	3/12/2024	N	EM19	UMCf	52.3 - 62.3	<48.0	589,000	<56.1	2.11 J	93.8	10.8	<0.330	<0.150	14,800	406	<0.840
M-251-60	6/19/2024	N	EM20	UMCf	52.3 - 62.3	630 J	122,000	151 J	1.87 J	64.6	3.85 J	<0.330	<0.150	10,900	20.6	0.962 J
M-251-60	9/20/2024	N	EM21	UMCf	52.3 - 62.3	<88.4	2,820 J	172 J	1.37 J	75.5	6.58	<0.190	<0.150	10,100	12.7	0.246 J
M-252	4/21/2022	N	BL02	UMCf	132.3 - 142.3	2,440	180,000	----	----	----	----	----	----	----	----	----
M-252	3/15/2023	N	EM07	UMCf	132.3 - 142.3	1,230	153,000	<56.1	<1.03	4.03	661	<0.330	<0.150	382,000	91.0	<0.840
M-252	9/19/2023	N	EM13	UMCf	132.3 - 142.3	1,720	165,000	56.6 J	<1.03	7.37	338	<0.330	<0.150	225,000	26.2	<0.840
M-252	12/18/2023	N	EM16	UMCf	132.3 - 142.3	1,390	168,000	<56.1	<1.03	4.88	376	<0.330	<0.150	281,000	10.9	<0.840
M-252	3/12/2024	N	EM19	UMCf	132.3 - 142.3	4,640	158,000	<56.1	<1.03	4.69	630	<0.330	<0.150	426,000	13.3	0.942 J
M-252	6/19/2024	N	EM20	UMCf	132.3 - 142.3	<48.0	165,000	<56.1	<1.03	10.5	498	<0.330	<0.150	289,000	3.67 J	3.04 J
M-252	9/24/2024	N	EM21	UMCf	132.3 - 142.3	1,450	151,000	<56.1	<1.03	12.7	304	<0.190	<0.150	215,000	16.7	<0.0596
M-253-100	4/20/2022	N	BL02	UMCf	100.8 - 110.8	----	----	----	----	----	----	----	----	----	----	----
M-255-100	4/20/2022	N	BL02	UMCf	100.2 - 110.2	----	----	----	----	----	----	----	----	----	----	----
U4-E-01D	4/18/2022	N	BL02	UMCf	94.7 - 109.7	45,200	1,020,000	----	----	----	----	----	----	----	----	----
U4-E-01D	3/14/2023	N	EM07	UMCf	94.7 - 109.7	357	229,000	<56.1	<1.03	1.52 J	133	<0.330	<0.150	84,300	3.28 J	<0.840
U4-E-01D	6/20/2024	N	EM20	UMCf	94.7 - 109.7	<480	214,000	<505	<9.27	44.7	113	<2.97	<1.35	1,610,000	235	34.6 J
U4-E-01D	9/25/2024	N	EM21	UMCf	94.7 - 109.7	3,320	16,000 J	84.5 J	2.44 J	178 J-	216 J-	<0.190 UJ	<0.150 UJ	975,000 J-	137 J-	31.2 J-
U4-E-01I	4/19/2022	N	BL02	UMCf	74.6 - 89.6	4,170	1,050,000	----	----	----	----	----	----	----	----	----
U4-E-01I	4/19/2022	FD	BL02	UMCf	74.6 - 89.6	6,420	1,030,000	----	----	----	----	----	----	----	----	----
U4-E-01I	3/14/2023	N	EM07	UMCf	74.6 - 89.6	8,200	389,000	<56.1	<1.03	15.1	49.5	<0.330	<0.150	370,000	16,400	<0.840

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020
						Nitrate (as N)	Sulfate	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-E-01I	4/20/2023	N	EM08	UMCf	74.6 - 89.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-01I	5/10/2023	N	EM09	UMCf	74.6 - 89.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-01I	6/12/2023	N	EM10	UMCf	74.6 - 89.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-01I	7/11/2023	N	EM11	UMCf	74.6 - 89.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-01I	8/10/2023	N	EM12	UMCf	74.6 - 89.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-01I	9/11/2023	N	EM13	UMCf	74.6 - 89.6	----	250,000 J	----	----	----	----	----	----	----	----	----
U4-E-01I	10/16/2023	N	EM14	UMCf	74.6 - 89.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-01I	12/13/2023	N	EM16	UMCf	74.6 - 89.6	<4,800	136,000 J	----	----	----	----	----	----	----	----	----
U4-E-01I	1/24/2024	N	EM17	UMCf	74.6 - 89.6	7,590 J	111,000 J	----	----	----	----	----	----	----	----	----
U4-E-01I	2/14/2024	N	EM18	UMCf	74.6 - 89.6	<480	185,000	----	----	----	----	----	----	----	----	----
U4-E-01I	3/12/2024	N	EM19	UMCf	74.6 - 89.6	3,320	244,000	----	----	----	----	----	----	----	----	----
U4-E-01I	6/20/2024	N	EM20	UMCf	74.6 - 89.6	<480	199,000	613	<9.27	18.2	18.8	<0.330	<1.35	792,000	1,760	13.1
U4-E-01I	9/25/2024	N	EM21	UMCf	74.6 - 89.6	2,910	10,200 J	<56.1 UJ	1.32 J	132 J-	101 J-	<0.190 UJ	<0.150 UJ	749,000 J-	1,250 J-	4.53 J-
U4-E-02D	4/20/2022	N	BL02	UMCf	94.4 - 109.4	12,200	1,120,000	----	----	----	----	----	----	----	----	----
U4-E-02D	3/14/2023	N	EM07	UMCf	94.4 - 109.4	311	234,000	<56.1	<1.03	1.39 J	138	<0.330	<0.150	82,600	9.61 J	<0.840
U4-E-02D	6/19/2024	N	EM20	UMCf	94.4 - 109.4	<480	260,000	485	<5.15	32.2	46.0	<0.330	<0.750	1,220,000	189	17.8
U4-E-02D	9/27/2024	N	EM21	UMCf	94.4 - 109.4	1,190	19,000 J	<505	<9.27 UJ	96.2 J-	68.0 J-	<1.71 UJ	<1.35 UJ	259,000	115 J-	20.8 J-
U4-E-02I	4/18/2022	N	BL02	UMCf	74.4 - 89.4	7,430	1,020,000	----	----	----	----	----	----	----	----	----
U4-E-02I	3/14/2023	N	EM07	UMCf	74.4 - 89.4	374	253,000	<56.1	<1.03	18.2	58.1	<0.330	<0.150	87,500	2,140	<0.840
U4-E-02I	4/20/2023	N	EM08	UMCf	74.4 - 89.4	----	----	----	----	----	----	----	----	----	----	----
U4-E-02I	5/11/2023	N	EM09	UMCf	74.4 - 89.4	----	----	----	----	----	----	----	----	----	----	----
U4-E-02I	6/12/2023	N	EM10	UMCf	74.4 - 89.4	----	----	----	----	----	----	----	----	----	----	----
U4-E-02I	7/11/2023	N	EM11	UMCf	74.4 - 89.4	----	----	----	----	----	----	----	----	----	----	----
U4-E-02I	8/10/2023	N	EM12	UMCf	74.4 - 89.4	----	----	----	----	----	----	----	----	----	----	----
U4-E-02I	9/11/2023	N	EM13	UMCf	74.4 - 89.4	----	111,000	----	----	----	----	----	----	----	----	----
U4-E-02I	10/16/2023	N	EM14	UMCf	74.4 - 89.4	----	----	----	----	----	----	----	----	----	----	----
U4-E-02I	12/14/2023	N	EM16	UMCf	74.4 - 89.4	<4,800	177,000 J	----	----	----	----	----	----	----	----	----
U4-E-02I	1/22/2024	N	EM17	UMCf	74.4 - 89.4	6,670 J	369,000 J	----	----	----	----	----	----	----	----	----
U4-E-02I	2/13/2024	N	EM18	UMCf	74.4 - 89.4	<4,800	450,000 J	----	----	----	----	----	----	----	----	----
U4-E-02I	3/13/2024	N	EM19	UMCf	74.4 - 89.4	<4,800	357,000 J	----	----	----	----	----	----	----	----	----
U4-E-02I	6/19/2024	N	EM20	UMCf	74.4 - 89.4	1,210	503,000	16,700	6.87 J	132	2,690	3.04 J	<0.750	1,490,000	141,000	14.2 J
U4-E-02I	9/24/2024	N	EM21	UMCf	74.4 - 89.4	<8,840	293,000 J	2,100	<5.15	119	1,970	2.05 J	<0.750	1,440,000	94,700	4.96 J
U4-E-03D	4/19/2022	N	BL02	UMCf	95.1 - 110.1	48,700	1,420,000	----	----	----	----	----	----	----	----	----
U4-E-03D	10/13/2022	N	EM02	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	----
U4-E-03D	11/3/2022	N	EM03	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	----
U4-E-03D	12/6/2022	N	EM04	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	----
U4-E-03D	1/9/2023	N	EM05	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	----
U4-E-03D	2/13/2023	N	EM06	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	----
U4-E-03D	3/13/2023	N	EM07	UMCf	95.1 - 110.1	16,100	----	----	----	----	----	----	----	----	----	----
U4-E-03D	3/14/2023	N	EM07	UMCf	95.1 - 110.1	12,100	591,000	<56.1	<5.15	21.2	65.5	<0.330	<0.750	383,000	34,800	<0.840
U4-E-03D	4/19/2023	N	EM08	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	----
U4-E-03D	5/11/2023	N	EM09	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	----
U4-E-03D	6/12/2023	N	EM10	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	----
U4-E-03D	7/11/2023	N	EM11	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	----
U4-E-03D	8/10/2023	N	EM12	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	----
U4-E-03D	9/11/2023	N	EM13	UMCf	95.1 - 110.1	----	537,000	----	----	----	----	----	----	----	----	----
U4-E-03D	10/16/2023	N	EM14	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020
						Nitrate (as N)	Sulfate	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-E-03D	6/10/2024	N	EM20	UMCf	95.1 - 110.1	<480 R	52,300 J-	373	1.82 J	60.1	55.4	0.397 J	<0.150	1,020,000	108	19.1
U4-E-03D	6/10/2024	FD	EM20	UMCf	95.1 - 110.1	<480 R	55,300 J-	374	2.48 J	59.1	50.4	0.425 J	<0.150	1,000,000	109	18.3
U4-E-03D	9/27/2024	N	EM21	UMCf	95.1 - 110.1	1,110 J-	22,800 J	<505	<9.27 UJ	207 J	149 J	<1.71 UJ	<1.35 UJ	438,000	69.6 J	8.00 J
U4-E-03D	9/27/2024	FD	EM21	UMCf	95.1 - 110.1	1,120 J-	18,900 J	<505	<9.27 UJ	129 J	80.8 J	<1.71 UJ	<1.35 UJ	477,000	40.6 J	4.63 J
U4-E-04D	4/19/2022	N	BL02	UMCf	95.0 - 110.0	27,800	508,000	----	----	----	----	----	----	----	----	----
U4-E-04D	3/14/2023	N	EM07	UMCf	95.0 - 110.0	328	235,000	<56.1	<1.03	1.61 J	138	<0.330	<0.150	82,200	<1.40	<0.840
U4-E-04D	6/20/2024	N	EM20	UMCf	95.0 - 110.0	<480	232,000	<505	11.0 J	46.4	56.3	<2.97	<1.35	1,560,000	205	19.1 J
U4-E-04D	9/26/2024	N	EM21	UMCf	95.0 - 110.0	<884	23,400 J	<505 UJ	<9.27 UJ	91.0 J-	77.9 J-	<1.71 UJ	<1.35 UJ	164,000 J-	125 J-	15.7 J
U4-E-04I	4/18/2022	N	BL02	UMCf	75.0 - 90.0	3,940	1,090,000	----	----	----	----	----	----	----	----	----
U4-E-04I	3/14/2023	N	EM07	UMCf	75.0 - 90.0	<480	709,000	<56.1	<5.15	18.6	82.7	<0.330	<0.750	872,000	58,500	<0.840
U4-E-04I	6/20/2024	N	EM20	UMCf	75.0 - 90.0	<480	190,000	<56.1	1.99 J	40.5	84.8	<0.330	<0.150	739,000	92.8	24.7 J
U4-E-04I	9/26/2024	N	EM21	UMCf	75.0 - 90.0	<884	22,000 J	<505 UJ	<9.27 UJ	50.6 J-	90.2 J-	<1.71 UJ	<1.35 UJ	295,000 J-	59.1 J-	10.0 J
U4-E-05D	4/19/2022	N	BL02	UMCf	95.0 - 110.0	4,770	758,000	----	----	----	----	----	----	----	----	----
U4-E-05D	3/16/2023	N	EM07	UMCf	95.0 - 110.0	<48.0	237,000	<56.1	<1.03	4.08	156	<0.330	<0.150	80,300	1.57 J	0.903 J
U4-E-05D	6/10/2024	N	EM20	UMCf	95.0 - 110.0	3,190	28,600 J	166 J	1.96 J	18.7	27.0	<0.330	<0.150	329,000	100	29.0
U4-E-05D	9/27/2024	N	EM21	UMCf	95.0 - 110.0	<884	14,800 J	<505	<9.27 UJ	92.8 J-	37.6 J-	<1.71 UJ	<1.35 UJ	301,000	122 J-	40.8 J-
U4-E-05I	4/19/2022	N	BL02	UMCf	75.0 - 90.0	3,290	1,100,000	----	----	----	----	----	----	----	----	----
U4-E-05I	3/15/2023	N	EM07	UMCf	75.0 - 90.0	4,630	363,000	<56.1	<1.03	32.9	30.3	<0.330	<0.150	59,400	7,780	<0.840
U4-E-05I	6/19/2024	N	EM20	UMCf	75.0 - 90.0	<480	159,000	<505	<9.27	54.6	18.9 J	<2.97	<1.35	725,000	265	40.1 J
U4-E-05I	9/27/2024	N	EM21	UMCf	75.0 - 90.0	1,130	17,600 J	<505	<9.27 UJ	105 J-	48.7 J-	<1.71 UJ	<1.35 UJ	458,000	105 J-	30.3 J-
U4-E-06D	4/11/2022	N	BL02	UMCf	95.1 - 110.1	12,200	214,000	81.0 J	<1.03	5.21	187 J	<0.330	<0.150	515,000 J	11,900 J	<0.840
U4-E-06D	6/20/2024	N	EM20	UMCf	95.1 - 110.1	<480	12,500 J	1,690	<9.27	129	171	<0.330	<1.35	274,000	321	23.6
U4-E-06D	9/27/2024	N	EM21	UMCf	95.1 - 110.1	1,040	24,600 J	<505	<9.27 UJ	126 J-	91.0 J-	<1.71 UJ	<1.35 UJ	350,000	45.3 J-	15.4 J
U4-E-06I	4/11/2022	N	BL02	UMCf	73.2 - 88.2	3,550	1,220,000	87.1 J	<1.03	32.9	34.2	<0.330	<0.150	223,000	2,270	<0.840
U4-E-06I	4/11/2022	FD	BL02	UMCf	73.2 - 88.2	3,660	1,300,000	68.8 J	<1.03	32.6	33.8	<0.330	<0.150	222,000	2,260	<0.840
U4-E-06I	10/12/2022	N	EM02	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	----
U4-E-06I	11/3/2022	N	EM03	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	----
U4-E-06I	12/6/2022	N	EM04	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	----
U4-E-06I	1/9/2023	N	EM05	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	----
U4-E-06I	2/13/2023	N	EM06	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	----
U4-E-06I	3/13/2023	N	EM07	UMCf	73.2 - 88.2	<960 R	----	----	----	----	----	----	----	----	----	----
U4-E-06I	4/17/2023	N	EM08	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	----
U4-E-06I	5/15/2023	N	EM09	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	----
U4-E-06I	6/12/2023	N	EM10	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	----
U4-E-06I	7/11/2023	N	EM11	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	----
U4-E-06I	8/11/2023	N	EM12	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	----
U4-E-06I	9/11/2023	N	EM13	UMCf	73.2 - 88.2	----	379,000	----	----	----	----	----	----	----	----	----
U4-E-06I	10/16/2023	N	EM14	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	----
U4-E-06I	12/13/2023	N	EM16	UMCf	73.2 - 88.2	6,080 J	550,000 J+	----	----	----	----	----	----	----	----	----
U4-E-06I	1/22/2024	N	EM17	UMCf	73.2 - 88.2	775 J	436,000	----	----	----	----	----	----	----	----	----
U4-E-06I	2/13/2024	N	EM18	UMCf	73.2 - 88.2	40,500 J	559,000 J	----	----	----	----	----	----	----	----	----
U4-E-06I	3/11/2024	N	EM19	UMCf	73.2 - 88.2	<48.0 UJ	358,000	----	----	----	----	----	----	----	----	----
U4-E-06I	6/11/2024	N	EM20	UMCf	73.2 - 88.2	<4,800	554,000	<56.1	<5.15	92.0	244	<0.330	<0.750	377,000	1,390	1.40 J
U4-E-06I	9/27/2024	N	EM21	UMCf	73.2 - 88.2	2,170	502,000	<56.1	<1.03	29.2	225	<0.190	<0.150	362,000	928	0.996 J
U4-E-07D	4/12/2022	N	BL02	UMCf	94.6 - 109.6	56,100	965,000	<280	<10.3	12.2 J	135	<1.65	<1.50	1,450,000	79,000	<4.20
U4-E-07D	6/20/2024	N	EM20	UMCf	94.6 - 109.6	<480	910,000	<56.1	4.73	19.1	229	<0.330	<0.150	535,000	13.4 J+	18.1
U4-E-07D	9/26/2024	N	EM21	UMCf	94.6 - 109.6	<88.4	1,110,000	<56.1	3.42 J	17.0	219	<0.190	<0.150	521,000	12.4	14.3

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020
						Nitrate (as N)	Sulfate	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-E-07I	4/12/2022	N	BL02	UMCf	74.7 - 89.7	10,200	1,120,000	117 J	1.17 J	72.5	29.6 J+	<0.330	<0.150	157,000	15,100	<0.840
U4-E-07I	10/11/2022	N	EM02	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	----
U4-E-07I	11/3/2022	N	EM03	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	----
U4-E-07I	12/6/2022	N	EM04	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	----
U4-E-07I	1/9/2023	N	EM05	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	----
U4-E-07I	2/13/2023	N	EM06	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	----
U4-E-07I	3/13/2023	N	EM07	UMCf	74.7 - 89.7	14,200	----	----	----	----	----	----	----	----	----	----
U4-E-07I	4/19/2023	N	EM08	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	----
U4-E-07I	5/15/2023	N	EM09	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	----
U4-E-07I	6/12/2023	N	EM10	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	----
U4-E-07I	7/11/2023	N	EM11	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	----
U4-E-07I	8/11/2023	N	EM12	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	----
U4-E-07I	9/11/2023	N	EM13	UMCf	74.7 - 89.7	----	685,000	----	----	----	----	----	----	----	----	----
U4-E-07I	10/16/2023	N	EM14	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	----
U4-E-07I	12/13/2023	N	EM16	UMCf	74.7 - 89.7	14,500	555,000 J+	----	----	----	----	----	----	----	----	----
U4-E-07I	1/23/2024	N	EM17	UMCf	74.7 - 89.7	10,300	670,000	----	----	----	----	----	----	----	----	----
U4-E-07I	2/13/2024	N	EM18	UMCf	74.7 - 89.7	11,200	533,000	----	----	----	----	----	----	----	----	----
U4-E-07I	3/11/2024	N	EM19	UMCf	74.7 - 89.7	10,900 J-	494,000 J	----	----	----	----	----	----	----	----	----
U4-E-07I	6/11/2024	N	EM20	UMCf	74.7 - 89.7	10,500	665,000	<56.1	<5.15	40.7	82.0	<0.330	<0.750	261,000	31,100	4.34 J
U4-E-07I	9/26/2024	N	EM21	UMCf	74.7 - 89.7	2,600	683,000	<56.1	<5.15	49.7	63.7	<0.950	<0.750	219,000	29,000	0.606 J
U4-E-08D	4/12/2022	N	BL02	UMCf	94.6 - 109.6	63,500	948,000	<280	<10.3	5.36 J	143	<1.65	<1.50	1,670,000	92,600	<4.20
U4-E-08D	10/11/2022	N	EM02	UMCf	94.6 - 109.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-08D	11/3/2022	N	EM03	UMCf	94.6 - 109.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-08D	12/6/2022	N	EM04	UMCf	94.6 - 109.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-08D	1/9/2023	N	EM05	UMCf	94.6 - 109.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-08D	2/13/2023	N	EM06	UMCf	94.6 - 109.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-08D	3/13/2023	N	EM07	UMCf	94.6 - 109.6	14,600	----	----	----	----	----	----	----	----	----	----
U4-E-08D	4/19/2023	N	EM08	UMCf	94.6 - 109.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-08D	5/17/2023	N	EM09	UMCf	94.6 - 109.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-08D	6/12/2023	N	EM10	UMCf	94.6 - 109.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-08D	7/11/2023	N	EM11	UMCf	94.6 - 109.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-09D	4/15/2022	N	BL02	UMCf	94.5 - 109.5	19,200	475,000	106 J	<10.3	9.35 J	106	<0.330	<1.50	832,000	27,200	<0.840
U4-E-09D	6/10/2024	N	EM20	UMCf	94.5 - 109.5	2,050	69,100	688	<5.15	19.9	58.8	<0.330	<0.750	613,000	293	16.1
U4-E-09D	9/27/2024	N	EM21	UMCf	94.5 - 109.5	1,360	18,200 J	<56.1	<9.27 UJ	50.8 J-	80.6 J-	<1.71 UJ	<1.35 UJ	41,000	120 J-	9.68 J
U4-E-09I	4/14/2022	N	BL02	UMCf	74.9 - 89.9	9,440	1,100,000	<56.1	1.07 J	30.8	27.1	<0.330	<0.150	215,000	9,660	<0.840
U4-E-09I	6/10/2024	N	EM20	UMCf	74.9 - 89.9	2,840	99,000	94.0 J	<5.15	37.7	4.76 J	<0.330	<0.750	538,000	235	31.0
U4-E-09I	6/10/2024	FD	EM20	UMCf	74.9 - 89.9	<480 R	100,000	82.9 J	<5.15	42.7	4.24 J	<0.330	<0.750	531,000	227	31.5
U4-E-09I	9/26/2024	N	EM21	UMCf	74.9 - 89.9	<8,840	<63,700	----	----	----	----	----	----	----	----	----
U4-E-09I	9/26/2024	FD	EM21	UMCf	74.9 - 89.9	<8,840	<63,700	----	----	----	----	----	----	----	----	----
U4-E-10D	4/13/2022	N	BL02	UMCf	94.5 - 109.5	11,200	550,000	102 J	<1.03	6.71	112	<0.330	<0.150	436,000	9,680	<0.840
U4-E-10D	6/19/2024	N	EM20	UMCf	94.5 - 109.5	<480	254,000	400	<5.15	78.0	341	<0.330	<0.750	1,500,000	594	36.4
U4-E-10D	9/25/2024	N	EM21	UMCf	94.5 - 109.5	4,760	337,000	<56.1	<1.03	21.7	223	<0.190	0.158 J	172,000	4,460	0.702 J
U4-E-10I	4/13/2022	N	BL02	UMCf	74.2 - 89.2	10,400	711,000	115 J	<1.03	19.6	34.7	<0.330	<0.150	307,000	16,100	<0.840
U4-E-10I	6/11/2024	N	EM20	UMCf	74.2 - 89.2	<4,800	297,000 J	248	<1.03	33.2	96.9	<0.330	<0.150	718,000	160	20.6
U4-E-10I	9/26/2024	N	EM21	UMCf	74.2 - 89.2	<884	9,180 J	----	----	----	----	----	----	----	----	----
U4-MW-01D	4/19/2022	N	BL02	UMCf	96.7 - 106.7	5,360	437,000	----	----	----	----	----	----	----	----	----
U4-MW-01D	2/16/2023	N	EM06	UMCf	96.7 - 106.7	----	----	----	----	----	----	----	----	----	----	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020
						Nitrate (as N)	Sulfate	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-01D	3/20/2023	N	EM07	UMCf	96.7 - 106.7	8,720	429,000	<56.1	<1.03	7.27	40.6	<0.330	<0.150	110,000	4,860	<0.840
U4-MW-01D	6/13/2023	N	EM10	UMCf	96.7 - 106.7	2,400	385,000	<56.1	<10.3	7.99 J	158	0.722 J	<1.50	421,000	19,800	<0.840
U4-MW-01D	9/14/2023	N	EM13	UMCf	96.7 - 106.7	6,890	356,000	<56.1	<5.15	7.50 J	132	<0.330	<0.750	423,000	17,500	<0.840
U4-MW-01D	12/14/2023	N	EM16	UMCf	96.7 - 106.7	5,860	358,000	<56.1	<5.15	7.29 J	143	<0.330	<0.750	405,000	16,000	<0.840
U4-MW-01D	3/13/2024	N	EM19	UMCf	96.7 - 106.7	4,660	310,000	<56.1	<5.15	5.74 J	121	<0.330	<0.750	473,000	14,900	1.04 J
U4-MW-01D	6/18/2024	N	EM20	UMCf	96.7 - 106.7	4,600	297,000	<56.1	<1.03	7.78	116	<0.330	<0.150	415,000	14,300	5.06 J
U4-MW-01D	9/19/2024	N	EM21	UMCf	96.7 - 106.7	<88.4	396,000	<56.1	<5.15	7.57 J	131	<0.950	<0.750	431,000	15,100	<0.298
U4-MW-01DD	4/19/2022	N	BL02	UMCf	119.9 - 129.9	230	214,000	----	----	----	----	----	----	----	----	----
U4-MW-01DD	4/19/2022	FD	BL02	UMCf	119.9 - 129.9	259	214,000	----	----	----	----	----	----	----	----	----
U4-MW-01DD	3/15/2023	N	EM07	UMCf	119.9 - 129.9	4,730	249,000	<56.1	<1.03	9.69	117	<0.330	<0.150	276,000	8,120	<0.840
U4-MW-01DD	6/13/2023	N	EM10	UMCf	119.9 - 129.9	3,700	279,000	<56.1	<10.3	4.73 J	109	<0.330	<1.50	246,000	9,010	<0.840
U4-MW-01DD	9/14/2023	N	EM13	UMCf	119.9 - 129.9	4,470 J+	242,000	<56.1	<1.03	5.37	119	<0.330	<0.150	290,000	9,630	<0.840
U4-MW-01DD	12/15/2023	N	EM16	UMCf	119.9 - 129.9	<48.0 R	200,000	<56.1	<1.03	9.11	67.7	<0.330	<0.150	162,000	4,960	<0.840
U4-MW-01DD	3/12/2024	N	EM19	UMCf	119.9 - 129.9	3,840	197,000	<56.1	<1.03	9.44	68.7	<0.330	<0.150	157,000	5,010	<0.840
U4-MW-01DD	6/18/2024	N	EM20	UMCf	119.9 - 129.9	2,520	177,000	<56.1	<1.03	8.16	62.9	<0.330	<0.150	142,000	4,450	1.57 J
U4-MW-01DD	9/20/2024	N	EM21	UMCf	119.9 - 129.9	691	178,000	<56.1	<1.03	7.53	59.2	<0.190	<0.150	110,000	3,160	<0.0596
U4-MW-01I	4/19/2022	N	BL02	UMCf	76.7 - 86.7	5,610	590,000	----	----	----	----	----	----	----	----	----
U4-MW-01I	3/20/2023	N	EM07	UMCf	76.7 - 86.7	13,400	458,000 J	61.0 J	1.22 J	8.10	48.9	<0.330	<0.150	156,000	5,440	<0.840
U4-MW-01I	6/12/2023	N	EM10	UMCf	76.7 - 86.7	6,470	383,000	270 J+	<1.03	6.24	124	<0.330	<0.150	444,000	19,200	<0.840
U4-MW-01I	9/14/2023	N	EM13	UMCf	76.7 - 86.7	7,850	348,000	67.7 J	<5.15	6.96 J	131	<0.330	<0.750	548,000	18,700	2.50 J
U4-MW-01I	12/15/2023	N	EM16	UMCf	76.7 - 86.7	<48.0	341,000	8,760	<1.03	17.5	216	0.749 J	<1.50	756,000	19,500	3.22 J
U4-MW-01I	3/13/2024	N	EM19	UMCf	76.7 - 86.7	8,190	313,000	<56.1	<5.15	6.11 J	196	<0.330	<0.750	874,000	19,500	1.31 J
U4-MW-01I	6/18/2024	N	EM20	UMCf	76.7 - 86.7	6,940	325,000	<56.1	<1.03	6.72	169	<0.330	<0.150	689,000	17,900	6.63 J
U4-MW-01I	9/19/2024	N	EM21	UMCf	76.7 - 86.7	<88.4	438,000	<280	<5.15	6.43 J	183	<0.950	<0.750	687,000	18,600	<0.298
U4-MW-01S	4/18/2022	N	BL02	UMCf	54.7 - 64.7	2,730	1,290,000	----	----	----	----	----	----	----	----	----
U4-MW-01S	3/15/2023	N	EM07	UMCf	54.7 - 64.7	5,680	1,190,000	56.8 J	<1.03	57.0	12.1	<0.330	<0.150	15,200	1,290	<0.840
U4-MW-01S	6/13/2023	N	EM10	UMCf	54.7 - 64.7	1,190 J-	1,170,000	<56.1	<1.03	52.7	13.3 J+	<0.330	<0.150	17,100	1,530	<0.840
U4-MW-01S	9/15/2023	N	EM13	UMCf	54.7 - 64.7	2,760 J-	1,200,000	63.4 J	<1.03	50.6	11.9	<0.330	<0.150	17,000	1,510	<0.840
U4-MW-01S	12/13/2023	N	EM16	UMCf	54.7 - 64.7	2,200	1,060,000	<56.1	<1.03	60.8	9.92	<0.330	<0.150	14,100	1,150	1.33 J
U4-MW-01S	3/13/2024	N	EM19	UMCf	54.7 - 64.7	988	705,000	<56.1	<1.03	66.7	16.0	<0.330	<0.150	25,200	774	<0.840
U4-MW-01S	6/18/2024	N	EM20	UMCf	54.7 - 64.7	<480	480,000	<56.1	<1.03	76.4	12.2	<0.330	<0.150	9,980	311	<0.840
U4-MW-01S	9/20/2024	N	EM21	UMCf	54.7 - 64.7	<88.4	309,000	<56.1	<1.03	96.9	21.9	<0.190	<0.150	15,700	11.9	0.193 J
U4-MW-02D	4/14/2022	N	BL02	UMCf	95.0 - 110.0	72,300	993,000	----	----	----	----	----	----	----	----	----
U4-MW-02D	10/11/2022	N	EM02	UMCf	95.0 - 110.0	84,600	----	----	----	----	----	----	----	----	----	----
U4-MW-02D	11/1/2022	N	EM03	UMCf	95.0 - 110.0	81,900	----	----	----	----	----	----	----	----	----	----
U4-MW-02D	12/7/2022	N	EM04	UMCf	95.0 - 110.0	73,900	----	----	----	----	----	----	----	----	----	----
U4-MW-02D	1/10/2023	N	EM05	UMCf	95.0 - 110.0	63,000	----	----	----	----	----	----	----	----	----	----
U4-MW-02D	2/13/2023	N	EM06	UMCf	95.0 - 110.0	70,200	----	----	----	----	----	----	----	----	----	----
U4-MW-02D	3/17/2023	N	EM07	UMCf	95.0 - 110.0	53,100 J-	943,000	<56.1	<10.3	6.71 J	142	<0.330	<1.50	1,230,000	94,700	<0.840
U4-MW-02D	4/19/2023	N	EM08	UMCf	95.0 - 110.0	68,100	1,210,000	----	----	----	----	----	----	----	----	----
U4-MW-02D	5/9/2023	N	EM09	UMCf	95.0 - 110.0	64,000	1,140,000	----	----	----	----	----	----	----	----	----
U4-MW-02D	6/13/2023	N	EM10	UMCf	95.0 - 110.0	55,000	906,000	<280	<10.3	8.58 J	115	<1.65	<1.50	1,130,000	96,900	<4.20
U4-MW-02D	7/18/2023	N	EM11	UMCf	95.0 - 110.0	<480	1,140,000	----	----	----	----	----	----	----	----	----
U4-MW-02D	8/14/2023	N	EM12	UMCf	95.0 - 110.0	72,000	1,140,000	----	----	----	----	----	----	----	----	----
U4-MW-02D	9/11/2023	N	EM13	UMCf	95.0 - 110.0	54,700	1,010,000	84.2 J	<20.6	8.17 J	102	<0.330	<3.00	1,080,000	107,000	24.4 J
U4-MW-02D	10/19/2023	N	EM14	UMCf	95.0 - 110.0	57,900	1,150,000	----	----	----	----	----	----	----	----	----
U4-MW-02D	11/15/2023	N	EM15	UMCf	95.0 - 110.0	38,400	1,030,000	----	----	----	----	----	----	----	----	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020
						Nitrate (as N)	Sulfate	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-02D	12/14/2023	N	EM16	UMCf	95.0 - 110.0	40,300	676,000	<56.1	<20.6	6.58 J	118	<0.330	<3.00	1,240,000	85,600	<0.840
U4-MW-02D	1/25/2024	N	EM17	UMCf	95.0 - 110.0	44,100	708,000	----	----	----	----	----	----	----	----	----
U4-MW-02D	2/12/2024	N	EM18	UMCf	95.0 - 110.0	46,900	764,000	----	----	----	----	----	----	----	----	----
U4-MW-02D	3/13/2024	N	EM19	UMCf	95.0 - 110.0	41,400	699,000 J+	56.5 J	<10.3	5.40 J	108	<0.330	<1.50	1,270,000	85,400	<8.40
U4-MW-02D	6/17/2024	N	EM20	UMCf	95.0 - 110.0	<480	695,000	<56.1	17.4 J	7.51 J	146	<0.330	<1.50	932,000	63,100	<0.840
U4-MW-02D	9/23/2024	N	EM21	UMCf	95.0 - 110.0	12,100	166,000	<56.1	<10.3	7.71 J	126	<1.90	<1.50	1,110,000	72,800	<0.596
U4-MW-02I	4/14/2022	N	BL02	UMCf	75.0 - 90.0	9,670	1,200,000	----	----	----	----	----	----	----	----	----
U4-MW-02I	10/11/2022	N	EM02	UMCf	75.0 - 90.0	15,300	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	11/2/2022	N	EM03	UMCf	75.0 - 90.0	23,800	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	11/2/2022	FD	EM03	UMCf	75.0 - 90.0	20,600	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	12/8/2022	N	EM04	UMCf	75.0 - 90.0	<4800 R	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	12/8/2022	FD	EM04	UMCf	75.0 - 90.0	<4800 R	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	1/13/2023	N	EM05	UMCf	75.0 - 90.0	13,300	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	1/13/2023	FD	EM05	UMCf	75.0 - 90.0	13,100	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	2/15/2023	N	EM06	UMCf	75.0 - 90.0	35,000	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	2/15/2023	FD	EM06	UMCf	75.0 - 90.0	37,500	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	3/17/2023	N	EM07	UMCf	75.0 - 90.0	33,700 J-	981,000	<56.1	<5.15	23.8	96.6	<0.330	<0.750	581,000	61,100	<0.840
U4-MW-02I	3/17/2023	FD	EM07	UMCf	75.0 - 90.0	32,300 J-	935,000	<56.1	<5.15	23.3	97.1	<0.330	<0.750	555,000	61,000	<0.840
U4-MW-02I	4/20/2023	N	EM08	UMCf	75.0 - 90.0	208 J+	74,700	----	----	----	----	----	----	----	----	----
U4-MW-02I	4/20/2023	FD	EM08	UMCf	75.0 - 90.0	222 J+	74,900	----	----	----	----	----	----	----	----	----
U4-MW-02I	5/9/2023	N	EM09	UMCf	75.0 - 90.0	<48.0	374,000	----	----	----	----	----	----	----	----	----
U4-MW-02I	5/9/2023	FD	EM09	UMCf	75.0 - 90.0	<48.0	372,000	----	----	----	----	----	----	----	----	----
U4-MW-02I	6/12/2023	N	EM10	UMCf	75.0 - 90.0	1,790	267,000	<56.1	<1.03	60.7	72.6	<0.330	<0.150	129,000	515	2.84 J
U4-MW-02I	6/12/2023	FD	EM10	UMCf	75.0 - 90.0	1,340	265,000	<56.1	<1.03	60.1	69.8	<0.330	<0.150	124,000	491	2.71 J
U4-MW-02I	7/18/2023	N	EM11	UMCf	75.0 - 90.0	56.3 J	736 J	----	----	----	----	----	----	----	----	----
U4-MW-02I	7/18/2023	FD	EM11	UMCf	75.0 - 90.0	56.0 J	761 J	----	----	----	----	----	----	----	----	----
U4-MW-02I	8/11/2023	N	EM12	UMCf	75.0 - 90.0	5,410	377,000	----	----	----	----	----	----	----	----	----
U4-MW-02I	8/11/2023	FD	EM12	UMCf	75.0 - 90.0	5,230	406,000	----	----	----	----	----	----	----	----	----
U4-MW-02I	9/11/2023	N	EM13	UMCf	75.0 - 90.0	779 J	299,000	<56.1	<5.15	66.5	421	<0.330	<0.750	254,000	2,410	6.69 J
U4-MW-02I	9/11/2023	FD	EM13	UMCf	75.0 - 90.0	<48.0	298,000	<56.1	<5.15	65.9	416	<0.330	<0.750	250,000	2,190	5.73 J
U4-MW-02I	10/19/2023	N	EM14	UMCf	75.0 - 90.0	4,260	672,000	----	----	----	----	----	----	----	----	----
U4-MW-02I	10/19/2023	FD	EM14	UMCf	75.0 - 90.0	4,960	673,000	----	----	----	----	----	----	----	----	----
U4-MW-02I	11/15/2023	N	EM15	UMCf	75.0 - 90.0	8,540 J	583,000	----	----	----	----	----	----	----	----	----
U4-MW-02I	11/15/2023	FD	EM15	UMCf	75.0 - 90.0	8,600 J	580,000	----	----	----	----	----	----	----	----	----
U4-MW-02I	12/14/2023	N	EM16	UMCf	75.0 - 90.0	14,300	552,000 J+	<56.1	<10.3	74.8	220	<0.330	<1.50	255,000	23,400	1.88 J
U4-MW-02I	12/14/2023	FD	EM16	UMCf	75.0 - 90.0	14,300	580,000 J+	<56.1	<5.15	72.9	219	<0.330	<0.750	255,000	23,400	<0.840
U4-MW-02I	1/25/2024	N	EM17	UMCf	75.0 - 90.0	21,500	599,000	----	----	----	----	----	----	----	----	----
U4-MW-02I	1/25/2024	FD	EM17	UMCf	75.0 - 90.0	21,200	591,000	----	----	----	----	----	----	----	----	----
U4-MW-02I	2/12/2024	N	EM18	UMCf	75.0 - 90.0	18,100	717,000	----	----	----	----	----	----	----	----	----
U4-MW-02I	2/12/2024	FD	EM18	UMCf	75.0 - 90.0	19,100	739,000	----	----	----	----	----	----	----	----	----
U4-MW-02I	3/13/2024	N	EM19	UMCf	75.0 - 90.0	19,600	617,000 J+	58.2 J	<10.3	56.3	193	<0.330	<1.50	438,000	34,300	6.11 J
U4-MW-02I	3/13/2024	FD	EM19	UMCf	75.0 - 90.0	19,100	614,000 J+	68.5 J	<10.3	52.4	194	<0.330	<1.50	440,000	34,300	6.48 J
U4-MW-02I	6/17/2024	N	EM20	UMCf	75.0 - 90.0	<480	494,000	<56.1	9.72 J	44.9	81.2	<0.330	<0.750	189,000	2,770	4.72 J
U4-MW-02I	6/17/2024	FD	EM20	UMCf	75.0 - 90.0	<480	493,000	<56.1	7.42 J	44.4	79.4	<0.330	<0.750	198,000	2,720	2.91 J
U4-MW-02I	9/23/2024	N	EM21	UMCf	75.0 - 90.0	<8,840	750,000	<56.1	<5.15	41.5	91.9	<0.950	<0.750	218,000	6,850	1.72 J
U4-MW-02I	9/23/2024	FD	EM21	UMCf	75.0 - 90.0	<8,840	736,000	<56.1	<5.15	41.9	93.4	<0.950	<0.750	207,000	6,180	1.70 J
U4-MW-03D	4/20/2022	N	BL02	UMCf	96.6 - 106.6	22,400	534,000	----	----	----	----	----	----	----	----	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020
						Nitrate (as N)	Sulfate	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-03D	2/16/2023	N	EM06	UMCf	96.6 - 106.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-03D	3/16/2023	N	EM07	UMCf	96.6 - 106.6	16,100	363,000	76.8 J	<5.15	7.03 J	138	<0.330	<0.750	692,000	28,100	<0.840
U4-MW-03D	3/16/2023	FD	EM07	UMCf	96.6 - 106.6	15,800	358,000	76.7 J	<5.15	7.05 J	137	<0.330	<0.750	684,000	28,200	<0.840
U4-MW-03D	6/15/2023	N	EM10	UMCf	96.6 - 106.6	11,000	337,000 J	<56.1	<5.15	7.58 J	118	<0.330	<0.750	634,000	28,300	<0.840
U4-MW-03D	9/14/2023	N	EM13	UMCf	96.6 - 106.6	21,700 J+	437,000 J	<56.1	<5.15	6.25 J	130	<0.330	<0.750	681,000	31,400	<0.840
U4-MW-03D	12/13/2023	N	EM16	UMCf	96.6 - 106.6	12,600 J-	364,000 J	81.0 J	<5.15	8.33 J	131	<0.330	<0.750	640,000	24,500	<0.840
U4-MW-03D	3/15/2024	N	EM19	UMCf	96.6 - 106.6	5,220 J-	302,000	<56.1	<1.03	<0.180	128	<0.330	<0.150	560,000	16,200	<0.840
U4-MW-03D	6/17/2024	N	EM20	UMCf	96.6 - 106.6	852 J	267,000	<56.1	<1.03	18.9	151	<0.330	<0.150	588,000	6,520	<0.840
U4-MW-03D	9/18/2024	N	EM21	UMCf	96.6 - 106.6	1,870	174,000	<56.1	<1.03	11.3	169	<0.190	<0.150	581,000	9,990	0.288 J
U4-MW-03DD	4/20/2022	N	BL02	UMCf	119.7 - 129.7	1,180	255,000	----	----	----	----	----	----	----	----	----
U4-MW-03DD	3/15/2023	N	EM07	UMCf	119.7 - 129.7	1,290	159,000	<56.1	<1.03	12.6	24.1	<0.330	<0.150	30,700	64.2	<0.840
U4-MW-03DD	6/15/2023	N	EM10	UMCf	119.7 - 129.7	447	163,000	<56.1	<1.03	12.7	25.8	<0.330	<0.150	30,700	48.5	<0.840
U4-MW-03DD	9/14/2023	N	EM13	UMCf	119.7 - 129.7	1,300	170,000	<56.1	<1.03	11.0	24.1	<0.330	<0.150	30,800	27.6	<0.840
U4-MW-03DD	12/14/2023	N	EM16	UMCf	119.7 - 129.7	1,050	178,000	<56.1	<1.03	11.3	24.1	<0.330	<0.150	32,200	21.4	0.884 J
U4-MW-03DD	3/14/2024	N	EM19	UMCf	119.7 - 129.7	998 J-	164,000	57.7 J	<1.03	12.2	23.7	<0.330	<0.150	31,400	44.4	1.04 J
U4-MW-03DD	6/17/2024	N	EM20	UMCf	119.7 - 129.7	1,400	171,000	<56.1	<1.03	10.2	23.3	<0.330	<0.150	30,800	27.4	0.867 J
U4-MW-03DD	9/18/2024	N	EM21	UMCf	119.7 - 129.7	525	195,000	<56.1	<1.03	10.4	24.0	<0.190	<0.150	30,500	25.2	<0.0596
U4-MW-03I	4/19/2022	N	BL02	UMCf	76.6 - 86.6	3,990 J	1,080,000	----	----	----	----	----	----	----	----	----
U4-MW-03I	3/15/2023	N	EM07	UMCf	76.6 - 86.6	9,430	335,000	<56.1	<1.03	7.08	121	<0.330	<0.150	600,000	25,400	<0.840
U4-MW-03I	6/14/2023	N	EM10	UMCf	76.6 - 86.6	13,400	373,000	144 J	<5.15	10.3	93.6	<0.330	<0.750	514,000	23,500	<0.840
U4-MW-03I	6/14/2023	FD	EM10	UMCf	76.6 - 86.6	13,300	373,000	125 J	<5.15	11.3	95.9	<0.330	<0.750	529,000	24,400	<0.840
U4-MW-03I	9/11/2023	N	EM13	UMCf	76.6 - 86.6	17,900 J	402,000 J	19,800	<5.15	19.9	170	1.45 J	<0.750	717,000	27,800	7.31 J
U4-MW-03I	9/11/2023	FD	EM13	UMCf	76.6 - 86.6	37,500 J	499,000 J	14,900	<5.15	18.2	157	1.05 J	<0.750	698,000	27,900	6.45 J
U4-MW-03I	12/13/2023	N	EM16	UMCf	76.6 - 86.6	<4,800	276,000 J	72.5 J	<5.15	8.78 J	133	<0.330	<0.750	638,000	22,600	<0.840
U4-MW-03I	12/13/2023	FD	EM16	UMCf	76.6 - 86.6	5,080 J	305,000 J	83.4 J	<5.15	9.60 J	133	<0.330	<0.750	640,000	22,700	<0.840
U4-MW-03I	3/14/2024	N	EM19	UMCf	76.6 - 86.6	<48.0 UJ	284,000	58.1 J	<5.15	11.8	136	<0.330	<0.750	569,000	14,400	<0.840
U4-MW-03I	3/14/2024	FD	EM19	UMCf	76.6 - 86.6	<48.0 UJ	304,000	<56.1	<5.15	12.1	137	<0.330	<0.750	572,000	14,500	0.876 J
U4-MW-03I	6/19/2024	N	EM20	UMCf	76.6 - 86.6	532 J	349,000	<56.1	1.40 J	20.6	132	<0.330	0.239 J	434,000	1,310	3.36 J
U4-MW-03I	6/19/2024	FD	EM20	UMCf	76.6 - 86.6	487 J	343,000	<56.1	1.49 J	19.8	134	<0.330	0.236 J	440,000	1,370	3.22 J
U4-MW-03I	9/20/2024	N	EM21	UMCf	76.6 - 86.6	<88.4 UJ	136,000 J-	<56.1	1.05 J	72.7	567	<0.190	<0.150	208,000	172	1.00 J
U4-MW-03I	9/20/2024	FD	EM21	UMCf	76.6 - 86.6	<88.4	1,930 J	170 J	1.73 J	77.6	6.16	<0.190	<0.150	9,270	12.4	0.232 J
U4-MW-03S	4/18/2022	N	BL02	UMCf	54.5 - 64.5	1,750	1,160,000	----	----	----	----	----	----	----	----	----
U4-MW-03S	4/18/2022	FD	BL02	UMCf	54.5 - 64.5	1,680	1,180,000	----	----	----	----	----	----	----	----	----
U4-MW-03S	3/15/2023	N	EM07	UMCf	54.5 - 64.5	4,110	1,040,000	<56.1	<1.03	122	10.8	<0.330	<0.150	4,160	2,290	<0.840
U4-MW-03S	6/15/2023	N	EM10	UMCf	54.5 - 64.5	3,030	1,010,000	<56.1	<1.03	99.2	13.6	<0.330	<0.150	7,570	2,620	<0.840
U4-MW-03S	9/14/2023	N	EM13	UMCf	54.5 - 64.5	4,650	989,000	<56.1	<1.03	116	11.5	<0.330	<0.150	5,300	1,860	<0.840
U4-MW-03S	12/13/2023	N	EM16	UMCf	54.5 - 64.5	1,030	857,000	74.6 J	<1.03	160	11.3	<0.330	<0.150	4,900	1,210	1.50 J
U4-MW-03S	3/14/2024	N	EM19	UMCf	54.5 - 64.5	<48.0 UJ	690,000	83.2 J	<1.03	133	12.0	<0.330	<0.150	3,980	709	1.32 J
U4-MW-03S	6/14/2024	N	EM20	UMCf	54.5 - 64.5	<48.0	487,000	<56.1	<1.03	202	14.6	<0.330	<0.150	3,570	374	<0.840
U4-MW-03S	9/18/2024	N	EM21	UMCf	54.5 - 64.5	<88.4	562,000	<56.1	<1.03	209	17.4	<0.190	<0.150	2,840	147	0.260 J
U4-MW-04D	4/19/2022	N	BL02	UMCf	97.0 - 107.0	53,500	1,160,000	----	----	----	----	----	----	----	----	----
U4-MW-04D	2/16/2023	N	EM06	UMCf	97.0 - 107.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-04D	3/21/2023	N	EM07	UMCf	97.0 - 107.0	10,400	326,000 J	<56.1	<1.03	23.4	10.5	<0.330	<0.150	43,100	2,740	<0.840
U4-MW-04D	6/14/2023	N	EM10	UMCf	97.0 - 107.0	3,710 J	291,000	<56.1	<5.15	23.9	50.3	<0.330	<0.750	166,000	11,100	2.01 J
U4-MW-04D	9/15/2023	N	EM13	UMCf	97.0 - 107.0	6,060	266,000	<56.1	<5.15	10.8	93.1	<0.330	<0.750	314,000	17,200	<0.840
U4-MW-04D	12/12/2023	N	EM16	UMCf	97.0 - 107.0	10,400 J+	229,000 J	<56.1	<5.15	46.0	127	<0.330	<0.750	244,000	11,800	1.59 J
U4-MW-04D	3/12/2024	N	EM19	UMCf	97.0 - 107.0	6,540	258,000	<56.1	<5.15	24.6	190	<0.330	<0.750	352,000	16,500	2.59 J

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020
						Nitrate (as N)	Sulfate	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-04D	6/19/2024	N	EM20	UMCf	97.0 - 107.0	2,750	340,000	<56.1	<5.15	15.7	237	<0.330	<0.750	445,000	19,900	1.06 J
U4-MW-04D	9/24/2024	N	EM21	UMCf	97.0 - 107.0	5,640	357,000	<56.1	<5.15	13.9	222	<0.950	<0.750	596,000	29,100	0.549 J
U4-MW-04I	4/19/2022	N	BL02	UMCf	76.8 - 86.8	23,300	1,150,000	----	----	----	----	----	----	----	----	----
U4-MW-04I	3/20/2023	N	EM07	UMCf	76.8 - 86.8	25,300	591,000	<56.1	<5.15	15.1	17.4	<0.330	<0.750	141,000	7,070	<0.840
U4-MW-04I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	15,000 J-	411,000 J	<56.1	<5.15	18.1	84.5	<0.330	<0.750	483,000	28,200	<0.840
U4-MW-04I	9/14/2023	N	EM13	UMCf	76.8 - 86.8	40,000 J+	729,000	<56.1	<10.3	12.5 J	132	<0.330	<1.50	1,240,000	58,800	<0.840
U4-MW-04I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	40,000 J+	709,000 J+	67.8 J	<20.6	15.8 J	115	<0.330	<3.00	1,170,000	61,600	<0.840
U4-MW-04I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	38,400	768,000	<56.1	<10.3	16.2 J	118	<0.330	<1.50	1,170,000	68,800	7.45 J
U4-MW-04I	6/18/2024	N	EM20	UMCf	76.8 - 86.8	39,300	844,000	<56.1	<10.3	13.1 J	129	<0.330	<1.50	1,320,000	67,600	22.8 J
U4-MW-04I	9/24/2024	N	EM21	UMCf	76.8 - 86.8	27,500	722,000	<56.1	<10.3	16.0 J	125	<1.90	<1.50	1,360,000	68,600	<0.596
U4-MW-05D	4/15/2022	N	BL02	UMCf	98.2 - 108.2	46,500	1,400,000	----	----	----	----	----	----	----	----	----
U4-MW-05D	10/13/2022	N	EM02	UMCf	98.2 - 108.2	42,000	----	----	----	----	----	----	----	----	----	----
U4-MW-05D	11/3/2022	N	EM03	UMCf	98.2 - 108.2	24,900	----	----	----	----	----	----	----	----	----	----
U4-MW-05D	12/7/2022	N	EM04	UMCf	98.2 - 108.2	27,600	----	----	----	----	----	----	----	----	----	----
U4-MW-05D	1/11/2023	N	EM05	UMCf	98.2 - 108.2	27,200 J+	----	----	----	----	----	----	----	----	----	----
U4-MW-05D	2/14/2023	N	EM06	UMCf	98.2 - 108.2	22,100	----	----	----	----	----	----	----	----	----	----
U4-MW-05D	3/16/2023	N	EM07	UMCf	98.2 - 108.2	17,200	558,000	<56.1	<5.15	34.2	60.8	<0.330	<0.750	258,000	28,700	<0.840
U4-MW-05D	4/20/2023	N	EM08	UMCf	98.2 - 108.2	14,200 J+	441,000 J	----	----	----	----	----	----	----	----	----
U4-MW-05D	5/10/2023	N	EM09	UMCf	98.2 - 108.2	2,620	439,000	----	----	----	----	----	----	----	----	----
U4-MW-05D	6/15/2023	N	EM10	UMCf	98.2 - 108.2	<240	305,000	<56.1	7.74 J	78.5	110	<0.330	<0.750	156,000	6,510	<0.840
U4-MW-05D	7/18/2023	N	EM11	UMCf	98.2 - 108.2	3,090	388,000	----	----	----	----	----	----	----	----	----
U4-MW-05D	8/14/2023	N	EM12	UMCf	98.2 - 108.2	9,660	485,000	----	----	----	----	----	----	----	----	----
U4-MW-05D	9/12/2023	N	EM13	UMCf	98.2 - 108.2	752 J	217,000	<56.1	8.82	82.1	129	<0.330	<0.150	154,000	3,000	1.88 J
U4-MW-05D	10/18/2023	N	EM14	UMCf	98.2 - 108.2	6,150	282,000	----	----	----	----	----	----	----	----	----
U4-MW-05D	11/16/2023	N	EM15	UMCf	98.2 - 108.2	11,300	258,000 J	----	----	----	----	----	----	----	----	----
U4-MW-05D	12/14/2023	N	EM16	UMCf	98.2 - 108.2	<48.0	316,000	3,530	5.28 J	83.0	254	<0.330	<0.750	318,000	10,200	17.3
U4-MW-05D	1/26/2024	N	EM17	UMCf	98.2 - 108.2	2,860 J+	411,000	----	----	----	----	----	----	----	----	----
U4-MW-05D	2/14/2024	N	EM18	UMCf	98.2 - 108.2	5,210	452,000	----	----	----	----	----	----	----	----	----
U4-MW-05D	3/12/2024	N	EM19	UMCf	98.2 - 108.2	4,390	383,000	<56.1	18.6 J	59.4	330	<0.330	<0.750	498,000	8,330	7.24 J
U4-MW-05D	6/18/2024	N	EM20	UMCf	98.2 - 108.2	9,790 J	533,000	<56.1	<10.3	57.4	492	<0.330	<1.50	389,000	3,940	9.10 J
U4-MW-05D	9/25/2024	N	EM21	UMCf	98.2 - 108.2	4,310	645,000	<56.1	<10.3	51.7	335	<1.90	<1.50	331,000	8,630	5.17 J
U4-MW-05I	4/15/2022	N	BL02	UMCf	76.6 - 86.6	26,000	1,300,000	----	----	----	----	----	----	----	----	----
U4-MW-05I	10/13/2022	N	EM02	UMCf	76.6 - 86.6	40,500	----	----	----	----	----	----	----	----	----	----
U4-MW-05I	11/3/2022	N	EM03	UMCf	76.6 - 86.6	37,200 J-	----	----	----	----	----	----	----	----	----	----
U4-MW-05I	12/8/2022	N	EM04	UMCf	76.6 - 86.6	33,100	----	----	----	----	----	----	----	----	----	----
U4-MW-05I	1/11/2023	N	EM05	UMCf	76.6 - 86.6	25,600 J+	----	----	----	----	----	----	----	----	----	----
U4-MW-05I	2/14/2023	N	EM06	UMCf	76.6 - 86.6	21,000	----	----	----	----	----	----	----	----	----	----
U4-MW-05I	3/14/2023	N	EM07	UMCf	76.6 - 86.6	11,600	641,000	107 J	<5.15	41.1	57.4	<0.330	<0.750	234,000	30,300	<0.840
U4-MW-05I	4/21/2023	N	EM08	UMCf	76.6 - 86.6	<480	386,000	----	----	----	----	----	----	----	----	----
U4-MW-05I	5/10/2023	N	EM09	UMCf	76.6 - 86.6	<480	283,000	----	----	----	----	----	----	----	----	----
U4-MW-05I	6/15/2023	N	EM10	UMCf	76.6 - 86.6	<48.0	83,700	<56.1	12.9	200	367	<0.330	<0.150	116,000	468	<0.840
U4-MW-05I	7/17/2023	N	EM11	UMCf	76.6 - 86.6	2,320	420,000	----	----	----	----	----	----	----	----	----
U4-MW-05I	8/14/2023	N	EM12	UMCf	76.6 - 86.6	1,070	410,000	----	----	----	----	----	----	----	----	----
U4-MW-05I	9/13/2023	N	EM13	UMCf	76.6 - 86.6	<480	366,000	<56.1	<5.15	132	171	1.32 J	<0.750	162,000	991	4.93 J
U4-MW-05I	10/18/2023	N	EM14	UMCf	76.6 - 86.6	840 J	358,000	----	----	----	----	----	----	----	----	----
U4-MW-05I	11/15/2023	N	EM15	UMCf	76.6 - 86.6	<480	367,000	----	----	----	----	----	----	----	----	----
U4-MW-05I	12/12/2023	N	EM16	UMCf	76.6 - 86.6	1,920 J+	400,000	<56.1	<10.3	106	175	<0.330	<1.50	181,000	3,930	3.49 J

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020
						Nitrate (as N)	Sulfate	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-05I	1/26/2024	N	EM17	UMCf	76.6 - 86.6	1,820 J	411,000	----	----	----	----	----	----	----	----	----
U4-MW-05I	2/14/2024	N	EM18	UMCf	76.6 - 86.6	1,210	482,000	----	----	----	----	----	----	----	----	----
U4-MW-05I	3/11/2024	N	EM19	UMCf	76.6 - 86.6	<480 UJ	505,000	<56.1	6.73 J	89.9	272	<0.330	<0.750	314,000	2,610	1.44 J
U4-MW-05I	6/18/2024	N	EM20	UMCf	76.6 - 86.6	10,900	645,000	<56.1	<10.3	65.1	234	<0.330	<1.50	429,000	8,030	7.15 J
U4-MW-05I	9/25/2024	N	EM21	UMCf	76.6 - 86.6	4,350	542,000	<56.1	<10.3	67.1	184	<1.90	<1.50	374,000	2,090	1.87 J
U4-MW-06D	4/19/2022	N	BL02	UMCf	97.1 - 107.1	48,100	1,160,000	----	----	----	----	----	----	----	----	----
U4-MW-06D	2/15/2023	N	EM06	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-06D	3/21/2023	N	EM07	UMCf	97.1 - 107.1	20,800	501,000	<56.1	<1.03	9.68	19.8	<0.330	<0.150	121,000	7,300	<0.840
U4-MW-06D	6/16/2023	N	EM10	UMCf	97.1 - 107.1	16,600 J-	467,000 J	89.9 J	<5.15	9.97 J	97.1	<0.330	<0.750	686,000	38,400	<0.840
U4-MW-06D	9/13/2023	N	EM13	UMCf	97.1 - 107.1	15,000	455,000	<56.1	<5.15	20.4	227	3.85	<0.750	748,000	30,100	3.39 J
U4-MW-06D	12/13/2023	N	EM16	UMCf	97.1 - 107.1	21,000	487,000 J	75.5 J	<20.6	24.2 J	214	<0.330	<3.00	926,000	38,400	<0.840
U4-MW-06D	3/14/2024	N	EM19	UMCf	97.1 - 107.1	<480 UJ	410,000	<56.1	<5.15	20.9	353	<0.330	<0.750	979,000	30,500	<0.840
U4-MW-06D	6/12/2024	N	EM20	UMCf	97.1 - 107.1	39,600	935,000	<56.1	<10.3	30.5	246	<0.330	<1.50	919,000	28,700	4.15 J
U4-MW-06D	9/20/2024	N	EM21	UMCf	97.1 - 107.1	<884	596,000	<56.1	<5.15	42.9	208	<0.950	<0.750	741,000	10,300	2.12 J
U4-MW-06I	4/19/2022	N	BL02	UMCf	76.5 - 86.5	146 J+	967,000	----	----	----	----	----	----	----	----	----
U4-MW-06I	3/14/2023	N	EM07	UMCf	76.5 - 86.5	15,200	655,000	<56.1	<5.15	17.0	78.4	<0.330	<0.750	642,000	40,000	<0.840
U4-MW-06I	6/16/2023	N	EM10	UMCf	76.5 - 86.5	14,800 J-	556,000	<56.1	<5.15	28.4	94.6	<0.330	<0.750	612,000	40,100	<0.840
U4-MW-06I	9/12/2023	N	EM13	UMCf	76.5 - 86.5	14,700	456,000 J	94.4 J	<5.15	33.4	123	<0.330	<0.750	687,000	33,500	<0.840
U4-MW-06I	12/12/2023	N	EM16	UMCf	76.5 - 86.5	17,900 J+	548,000 J+	91.9 J	<20.6	25.6 J	161	<0.330	<3.00	815,000	38,300	<0.840
U4-MW-06I	3/14/2024	N	EM19	UMCf	76.5 - 86.5	<480 UJ	532,000	64.5 J	<5.15	31.5	230	<0.330	<0.750	850,000	30,500	<0.840
U4-MW-06I	6/11/2024	N	EM20	UMCf	76.5 - 86.5	<4,800	629,000	<56.1	<10.3	45.2	136	<0.330	<1.50	751,000	6,430	1.40 J
U4-MW-06I	9/20/2024	N	EM21	UMCf	76.5 - 86.5	<884	619,000	<56.1	<5.15	41.3	96.9	<0.950	<0.750	495,000	1,390	1.13 J
U4-MW-07D	4/15/2022	N	BL02	UMCf	96.8 - 106.5	13,500	568,000	----	----	----	----	----	----	----	----	----
U4-MW-07D	10/12/2022	N	EM02	UMCf	96.8 - 106.5	1,240	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	10/12/2022	FD	EM02	UMCf	96.8 - 106.5	1,230	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	11/3/2022	N	EM03	UMCf	96.8 - 106.5	1,220	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	12/7/2022	N	EM04	UMCf	96.8 - 106.5	1,050	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	1/11/2023	N	EM05	UMCf	96.8 - 106.5	1,140 J+	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	2/14/2023	N	EM06	UMCf	96.8 - 106.5	1,030	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	3/16/2023	N	EM07	UMCf	96.8 - 106.5	756	230,000	<56.1	<1.03	6.14	26.5	<0.330	<0.150	84,500	931	<0.840
U4-MW-07D	4/21/2023	N	EM08	UMCf	96.8 - 106.5	1,300	237,000	----	----	----	----	----	----	----	----	----
U4-MW-07D	5/11/2023	N	EM09	UMCf	96.8 - 106.5	<48.0	67,300	----	----	----	----	----	----	----	----	----
U4-MW-07D	6/13/2023	N	EM10	UMCf	96.8 - 106.5	500	71,600	<56.1	<1.03	26.3	529	<0.330	<0.150	342,000	1,700	5.04 J
U4-MW-07D	7/17/2023	N	EM11	UMCf	96.8 - 106.5	8,830	596,000	----	----	----	----	----	----	----	----	----
U4-MW-07D	8/11/2023	N	EM12	UMCf	96.8 - 106.5	11,800 J+	543,000	----	----	----	----	----	----	----	----	----
U4-MW-07D	9/13/2023	N	EM13	UMCf	96.8 - 106.5	<240	367,000	<56.1	<5.15	32.9	140	2.31	<0.750	360,000	16,100	5.81 J
U4-MW-07D	10/18/2023	N	EM14	UMCf	96.8 - 106.5	5,160 J+	468,000	----	----	----	----	----	----	----	----	----
U4-MW-07D	11/16/2023	N	EM15	UMCf	96.8 - 106.5	11,300	407,000 J	----	----	----	----	----	----	----	----	----
U4-MW-07D	12/12/2023	N	EM16	UMCf	96.8 - 106.5	<48.0	330,000	130 J	<5.15	33.2	298	<0.330	<0.750	575,000	11,100	15.8
U4-MW-07D	1/26/2024	N	EM17	UMCf	96.8 - 106.5	2,100 J+	354,000	----	----	----	----	----	----	----	----	----
U4-MW-07D	2/13/2024	N	EM18	UMCf	96.8 - 106.5	<4,800	344,000 J	----	----	----	----	----	----	----	----	----
U4-MW-07D	3/11/2024	N	EM19	UMCf	96.8 - 106.5	<480 UJ	399,000	469	<5.15	44.8	593	<0.330	<0.750	1,050,000	13,900	39.5
U4-MW-07D	6/12/2024	N	EM20	UMCf	96.8 - 106.5	<480	668,000	139 J	<5.15	30.7	949	<0.330	<0.750	1,270,000	5,310	35.5 J+
U4-MW-07D	9/18/2024	N	EM21	UMCf	96.8 - 106.5	470 J	463,000	135 J	<5.15	30.2	885	<0.950	<0.750	1,290,000	4,270	28.7
U4-MW-07I	4/15/2022	N	BL02	UMCf	76.8 - 86.8	4,200	1,190,000	----	----	----	----	----	----	----	----	----
U4-MW-07I	10/12/2022	N	EM02	UMCf	76.8 - 86.8	1,290	----	----	----	----	----	----	----	----	----	----
U4-MW-07I	11/3/2022	N	EM03	UMCf	76.8 - 86.8	1,280	----	----	----	----	----	----	----	----	----	----

Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020
						Nitrate (as N)	Sulfate	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-07I	12/7/2022	N	EM04	UMCf	76.8 - 86.8	1,180	----	----	----	----	----	----	----	----	----	----
U4-MW-07I	1/11/2023	N	EM05	UMCf	76.8 - 86.8	1,140 J+	----	----	----	----	----	----	----	----	----	----
U4-MW-07I	2/15/2023	N	EM06	UMCf	76.8 - 86.8	1,440	----	----	----	----	----	----	----	----	----	----
U4-MW-07I	3/16/2023	N	EM07	UMCf	76.8 - 86.8	2,010	253,000	<56.1	<1.03	7.70	32.6	<0.330	<0.150	93,500	2,670	<0.840
U4-MW-07I	4/21/2023	N	EM08	UMCf	76.8 - 86.8	<480	379,000	----	----	----	----	----	----	----	----	----
U4-MW-07I	5/11/2023	N	EM09	UMCf	76.8 - 86.8	74.4 J	302,000	----	----	----	----	----	----	----	----	----
U4-MW-07I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<48.0 UJ	212,000	<56.1	<1.03	76.2	256	<0.330	<0.150	159,000	161	3.08 J
U4-MW-07I	7/17/2023	N	EM11	UMCf	76.8 - 86.8	<240	537,000	----	----	----	----	----	----	----	----	----
U4-MW-07I	8/11/2023	N	EM12	UMCf	76.8 - 86.8	412 J	392,000	----	----	----	----	----	----	----	----	----
U4-MW-07I	9/13/2023	N	EM13	UMCf	76.8 - 86.8	<240	366,000	<56.1	<5.15	91.6	167	1.39 J	<0.750	188,000	4,220	6.58 J
U4-MW-07I	10/18/2023	N	EM14	UMCf	76.8 - 86.8	1,070 J+	293,000	----	----	----	----	----	----	----	----	----
U4-MW-07I	11/16/2023	N	EM15	UMCf	76.8 - 86.8	1,430	273,000	----	----	----	----	----	----	----	----	----
U4-MW-07I	12/11/2023	N	EM16	UMCf	76.8 - 86.8	<48.0 UJ	344,000	<56.1	<5.15	52.8	352	<0.330	<0.750	449,000	6,720	7.75 J
U4-MW-07I	1/26/2024	N	EM17	UMCf	76.8 - 86.8	2,000 J+	417,000	----	----	----	----	----	----	----	----	----
U4-MW-07I	2/13/2024	N	EM18	UMCf	76.8 - 86.8	<4,800	661,000	----	----	----	----	----	----	----	----	----
U4-MW-07I	3/11/2024	N	EM19	UMCf	76.8 - 86.8	<480 UJ	518,000	61.1 J	<5.15	49.7	501	<0.330	1.11 J	640,000	11,000	8.21 J
U4-MW-07I	6/12/2024	N	EM20	UMCf	76.8 - 86.8	<480	447,000	<56.1	<5.15	57.6	357	<0.330	<0.750	483,000	2,170	7.42 J
U4-MW-07I	9/18/2024	N	EM21	UMCf	76.8 - 86.8	461 J	447,000	<56.1	<5.15	59.1	372	<0.950	0.806 J	561,000	2,620	6.28 J
U4-MW-08D	4/13/2022	N	BL02	UMCf	98.6 - 108.6	71,400	1,130,000	<280	<10.3	10.8 J	144	<1.65	<1.50	1,610,000	112,000	<4.20
U4-MW-08D	12/7/2022	N	EM04	UMCf	98.6 - 108.6	26,500	603,000	<92.5	<5.15	8.66 J	81.9 J+	<0.950	<0.750	665,000	49,000	<0.298
U4-MW-08D	3/17/2023	N	EM07	UMCf	98.6 - 108.6	27,700 J-	421,000 J	<56.1	<5.15	17.0	131	<0.330	<0.750	532,000	40,100	<0.840
U4-MW-08D	6/13/2023	N	EM10	UMCf	98.6 - 108.6	21,700	486,000 J	102 J	<10.3	15.1 J	147	<0.330	<1.50	719,000	56,200	<0.840
U4-MW-08D	9/13/2023	N	EM13	UMCf	98.6 - 108.6	53,800	860,000	<56.1	<10.3	10.1 J	122	5.16	<1.50	1,100,000	90,000	9.79 J
U4-MW-08D	12/11/2023	N	EM16	UMCf	98.6 - 108.6	46,100 J	679,000	<56.1	<10.3	12.2 J	110	<0.330	<1.50	1,070,000	73,600	<8.40
U4-MW-08D	3/12/2024	N	EM19	UMCf	98.6 - 108.6	28,300	584,000	<56.1	<10.3	17.1 J	116	<0.330	<1.50	774,000	54,400	5.62 J
U4-MW-08D	6/14/2024	N	EM20	UMCf	98.6 - 108.6	59,400	850,000	<280	<1.03	<0.180	129	<1.65	<0.150	984,000	63,800	5.22 J
U4-MW-08D	9/23/2024	N	EM21	UMCf	98.6 - 108.6	32,900	517,000	<56.1	<10.3	16.7 J	148	<1.90	<1.50	1,170,000	86,300	<0.596
U4-MW-08DD	4/20/2022	N	BL02	UMCf	119.8 - 129.8	1,520	210,000	<56.1	<1.03	10.9	19.0	<0.330	<0.150	58,200	764	<0.840
U4-MW-08DD	4/20/2022	FD	BL02	UMCf	119.8 - 129.8	1,610	230,000	<56.1	<1.03	11.1	19.2	<0.330	<0.150	58,000	780	<0.840
U4-MW-08DD	12/8/2022	N	EM04	UMCf	119.8 - 129.8	282	179,000	<18.5	1.33 J	10.8	21.3	<0.190	<0.150	45,600	56.7	0.145 J
U4-MW-08DD	3/15/2023	N	EM07	UMCf	119.8 - 129.8	1,360	163,000	<56.1	<1.03	6.32	90.8	<0.330	<0.150	167,000	1,300	<0.840
U4-MW-08DD	6/14/2023	N	EM10	UMCf	119.8 - 129.8	691 J-	163,000	<56.1	<1.03	6.79	78.6	1.14 J	<0.150	139,000	1,220	1.76 J
U4-MW-08DD	9/14/2023	N	EM13	UMCf	119.8 - 129.8	1,390	160,000	<56.1	<1.03	6.97	43.8	<0.330	<0.150	82,400	504	<0.840
U4-MW-08DD	12/14/2023	N	EM16	UMCf	119.8 - 129.8	1,540	167,000	<56.1	<1.03	7.43	46.1	<0.330	<0.150	87,900	543	0.850 J
U4-MW-08DD	3/14/2024	N	EM19	UMCf	119.8 - 129.8	1,640 J-	167,000	<56.1	<1.03	7.49	37.8	<0.330	<0.150	77,000	458	<0.840
U4-MW-08DD	6/12/2024	N	EM20	UMCf	119.8 - 129.8	1,230	162,000	<56.1	<1.03	7.24	34.5	<0.330	<0.150	71,600	363	<0.840
U4-MW-08DD	9/20/2024	N	EM21	UMCf	119.8 - 129.8	214	161,000	<56.1	1.07 J	7.85	36.6	<0.190	<0.150	67,700	296	<0.0596
U4-MW-08I	4/13/2022	N	BL02	UMCf	78.0 - 88.0	7,610	1,160,000	92.7 J	<1.03	43.1	20.6	<0.330	<0.150	107,000	8,950	<0.840
U4-MW-08I	12/7/2022	N	EM04	UMCf	78.0 - 88.0	19,200	941,000	<92.5	<5.15	37.2	51.8 J+	<0.950	<0.750	355,000	31,400	1.54 J
U4-MW-08I	12/7/2022	FD	EM04	UMCf	78.0 - 88.0	17,000	948,000	<92.5	<5.15	37.3	49.4 J+	<0.950	<0.750	349,000	31,000	1.41 J
U4-MW-08I	3/17/2023	N	EM07	UMCf	78.0 - 88.0	26,700 J-	796,000	<56.1	<5.15	28.5	87.0	<0.330	<0.750	538,000	48,700	<0.840
U4-MW-08I	6/13/2023	N	EM10	UMCf	78.0 - 88.0	946 J	702,000	<56.1	<10.3	39.7	26.7	<0.330	<1.50	129,000	11,200	<0.840
U4-MW-08I	9/13/2023	N	EM13	UMCf	78.0 - 88.0	13,300 J-	710,000	68.2 J	<5.15	45.6	62.2	2.30	<0.750	307,000	30,500	3.48 J
U4-MW-08I	12/11/2023	N	EM16	UMCf	78.0 - 88.0	20,300 J	561,000	128 J	<10.3	63.3	93.0	<0.330	<1.50	406,000	30,800	<0.840
U4-MW-08I	3/12/2024	N	EM19	UMCf	78.0 - 88.0	16,800	654,000	<56.1	<10.3	59.4	106	<0.330	<1.50	401,000	32,900	4.06 J
U4-MW-08I	6/14/2024	N	EM20	UMCf	78.0 - 88.0	<48.0 R	639,000	<56.1	<10.3	52.7 J+	85.6	<0.330	<1.50	332,000	29,000	<0.840
U4-MW-08I	9/23/2024	N	EM21	UMCf	78.0 - 88.0	<884 R	663,000	<56.1	<10.3	53.2 J	56.3 J	<1.90	<1.50	224,000	25,200	<0.596

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020
						Nitrate (as N)	Sulfate	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-08S	4/15/2022	N	BL02	UMCf	54.9 - 64.9	3,430	1,280,000	<56.1	<1.03	14.5	25.0	<0.330	<0.150	165,000	519	<0.840
U4-MW-08S	12/7/2022	N	EM04	UMCf	54.9 - 64.9	1,410	1,050,000	<18.5	<1.03	77.3	20.0	<0.190	<0.150	68,400	284	0.0886 J
U4-MW-08S	12/7/2022	FD	EM04	UMCf	54.9 - 64.9	1,460	1,070,000	<18.5	<1.03	76.3	19.4	<0.190	<0.150	67,600	275	0.0711 J
U4-MW-08S	3/13/2023	N	EM07	UMCf	54.9 - 64.9	<48.0	297,000	63.0 J	<1.03	43.0	184	<0.330	<0.150	73,900	10.3	<0.840
U4-MW-08S	3/13/2023	FD	EM07	UMCf	54.9 - 64.9	<48.0	250,000	<56.1	<1.03	42.3	174	<0.330	<0.150	68,900	8.64 J	<0.840
U4-MW-08S	6/13/2023	N	EM10	UMCf	54.9 - 64.9	<480	18,800 J	<56.1	<1.03	68.1 J	324	<0.330	<0.150	91,400	10.0 J	<0.840
U4-MW-08S	6/13/2023	FD	EM10	UMCf	54.9 - 64.9	<480	2,640 J	<56.1	<1.03	35.7 J	323	<0.330	<0.150	91,700	9.09 J	<0.840
U4-MW-08S	9/13/2023	N	EM13	UMCf	54.9 - 64.9	57.9 J	1,540 J	<56.1	<1.03	31.4	335	0.836 J	<0.150	118,000	25.4 J	2.00 J
U4-MW-08S	9/13/2023	FD	EM13	UMCf	54.9 - 64.9	50.7 J	1,780 J	<56.1	<10.3	41.3	335	0.893 J	<1.50	117,000	15.2 J	1.94 J
U4-MW-08S	12/14/2023	N	EM16	UMCf	54.9 - 64.9	667 J	11,900 J	<56.1	<1.03	70.8	787	<0.330	<0.150	261,000	61.9	2.04 J
U4-MW-08S	12/14/2023	FD	EM16	UMCf	54.9 - 64.9	<480	8,860 J	<56.1	<1.03	70.8	793	<0.330	<0.150	265,000	63.2	1.97 J
U4-MW-08S	3/14/2024	N	EM19	UMCf	54.9 - 64.9	<480 UJ	<5,940	<56.1	1.05 J	67.0	655	<0.330	<0.150	157,000	12.6	1.75 J
U4-MW-08S	3/14/2024	FD	EM19	UMCf	54.9 - 64.9	<480 UJ	<5,940	<56.1	<1.03	59.9	631	<0.330	<0.150	156,000	12.1	2.02 J
U4-MW-08S	3/25/2024	N	EM19	UMCf	54.9 - 64.9	<48.0	90,700	<56.1	<1.03	71.6	532	<0.330	<0.150	119,000	13.0	<0.840
U4-MW-08S	3/25/2024	FD	EM19	UMCf	54.9 - 64.9	<48.0	91,100	<56.1	<1.03	72.4	520	<0.330	<0.150	114,000	12.4	<0.840
U4-MW-08S	6/14/2024	N	EM20	UMCf	54.9 - 64.9	<48.0	<594 UJ	<56.1	<1.03	28.3 J+	536	<0.330	<0.150	108,000	15.5	<0.840
U4-MW-08S	6/14/2024	FD	EM20	UMCf	54.9 - 64.9	<48.0	10,000 J	<56.1	<1.03	28.4 J+	556	<0.330	<0.150	111,000	14.6	<0.840
U4-MW-08S	9/20/2024	N	EM21	UMCf	54.9 - 64.9	<88.4	2,700 J	<56.1	<1.03	41.2	458	<0.190	<0.150	89,200	10.4	0.0894 J
U4-MW-08S	9/20/2024	FD	EM21	UMCf	54.9 - 64.9	<88.4	3,130 J	<56.1	<1.03	43.4	449	<0.190	<0.150	88,900	10.1	0.0713 J
U4-MW-09D	4/14/2022	N	BL02	UMCf	96.9 - 106.9	43,200	877,000	<56.1	<10.3	7.44 J	14.2	<0.330	<1.50	123,000	5,930	<0.840
U4-MW-09D	12/6/2022	N	EM04	UMCf	96.9 - 106.9	<4800 UJ	274,000 J	<18.5 UJ	<1.03 UJ	33.5	50.7	<0.190 UJ	<0.150 UJ	145,000	7,460	0.202 J
U4-MW-09D	3/16/2023	N	EM07	UMCf	96.9 - 106.9	756 J	200,000	59.0 J	<1.03	25.6	152	<0.330	<0.150	235,000	3,650	<0.840
U4-MW-09D	6/14/2023	N	EM10	UMCf	96.9 - 106.9	2,090 J-	123,000	<56.1	<1.03	69.6	151	<0.330	<0.150	204,000	1,830	4.15 J
U4-MW-09D	9/12/2023	N	EM13	UMCf	96.9 - 106.9	1,540	129,000	<56.1	8.48	28.8	457	<0.330	<0.150	318,000	2,950	1.21 J
U4-MW-09D	12/15/2023	N	EM16	UMCf	96.9 - 106.9	<48.0	187,000	<56.1	1.11 J	21.1	577	<0.330	<0.150	395,000	2,510	3.69 J
U4-MW-09D	3/13/2024	N	EM19	UMCf	96.9 - 106.9	<480	138,000	66.9 J	<5.15	30.2	505	<0.330	<0.750	483,000	1,620	2.79 J
U4-MW-09D	6/13/2024	N	EM20	UMCf	96.9 - 106.9	835 J	157,000 J+	<56.1	19.7	22.5	606	<0.330	<0.150	416,000	628	4.34 J
U4-MW-09D	9/19/2024	N	EM21	UMCf	96.9 - 106.9	<884	175,000	<56.1	9.08 J	19.7	576	<0.950	<0.750	403,000	1,250	3.28 J
U4-MW-09DD	4/14/2022	N	BL02	UMCf	119.8 - 129.8	1,060	178,000	<56.1	<1.03	10.2	27.6	<0.330	<0.150	41,300	154	<0.840
U4-MW-09DD	12/6/2022	N	EM04	UMCf	119.8 - 129.8	963	179,000	<18.5 UJ	<1.03 UJ	11.7	28.5	<0.190 UJ	<0.150 UJ	39,300	137	<0.0596 UJ
U4-MW-09DD	3/21/2023	N	EM07	UMCf	119.8 - 129.8	1,770	151,000	<56.1	<1.03	9.50	65.3	<0.330	<0.150	76,600	199	<0.840
U4-MW-09DD	6/15/2023	N	EM10	UMCf	119.8 - 129.8	1,520	148,000	<56.1	<1.03	7.53	64.8	<0.330	<0.150	81,500	117	<0.840
U4-MW-09DD	9/13/2023	N	EM13	UMCf	119.8 - 129.8	<48.0	106,000	<56.1	<1.03	6.26	188	1.25 J	<0.150	167,000	13.8	5.65 J
U4-MW-09DD	12/13/2023	N	EM16	UMCf	119.8 - 129.8	117	116,000	<56.1	<1.03	4.56	236	<0.330	<0.150	181,000	46.2	1.38 J
U4-MW-09DD	3/14/2024	N	EM19	UMCf	119.8 - 129.8	<48.0 UJ	119,000	<56.1	<1.03	8.24	308	<0.330	<0.150	245,000	24.6	1.76 J
U4-MW-09DD	6/13/2024	N	EM20	UMCf	119.8 - 129.8	599 J	83,300 J+	<56.1	<1.03	28.3	514	<0.330	<0.150	215,000	15.5 J+	<0.840
U4-MW-09DD	9/20/2024	N	EM21	UMCf	119.8 - 129.8	<88.4	127,000	<56.1	<1.03	14.0	615	<0.190	<0.150	147,000	8.13	0.113 J
U4-MW-09I	4/14/2022	N	BL02	UMCf	76.8 - 86.8	3,120	1,100,000	<56.1	<1.03	24.8	16.6	<0.330	<0.150	114,000	2,350	<0.840
U4-MW-09I	12/6/2022	N	EM04	UMCf	76.8 - 86.8	7,720 J	431,000 J	<92.5 UJ	<5.15 UJ	20.0	44.2	<0.950 UJ	<0.750 UJ	218,000	13,400	0.835 J
U4-MW-09I	3/16/2023	N	EM07	UMCf	76.8 - 86.8	2,140	292,000	<56.1	<1.03	25.5	89.2	<0.330	<0.150	266,000	8,400	<0.840
U4-MW-09I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	1,280 J-	202,000	<56.1	1.05 J	33.0	107	<0.330	<0.150	224,000	2,550	2.84 J
U4-MW-09I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	1,620	183,000	<56.1	1.58 J	30.1	281	<0.330	<0.150	328,000	5,550	<0.840
U4-MW-09I	12/15/2023	N	EM16	UMCf	76.8 - 86.8	<48.0	237,000	<56.1	2.89 J	33.3	336	<0.330	<1.50	366,000	3,860	3.59 J
U4-MW-09I	3/13/2024	N	EM19	UMCf	76.8 - 86.8	<480	190,000	<56.1	11.1 J	33.0	330	<0.330	<0.750	436,000	2,480	2.96 J
U4-MW-09I	6/13/2024	N	EM20	UMCf	76.8 - 86.8	5,880 J	304,000 J	<56.1	9.91	36.3	274	<0.330	<0.150	340,000	4,630	<0.840
U4-MW-09I	9/19/2024	N	EM21	UMCf	76.8 - 86.8	969 J	350,000	<56.1	6.60 J	29.3	204	<0.950	<0.750	316,000	8,170	1.45 J
U4-MW-09S	4/14/2022	N	BL02	UMCf	55.3 - 65.3	2,260	964,000	<56.1	<1.03	46.2	17.5	<0.330	<0.150	72,400	398	<0.840

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020
						Nitrate (as N)	Sulfate	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-09S	12/6/2022	N	EM04	UMCf	55.3 - 65.3	3,360	1,020,000	<18.5 UJ	<1.03 UJ	56.2	10.2	<0.190 UJ	<0.150 UJ	17,700	2,780	<0.0596 UJ
U4-MW-09S	3/17/2023	N	EM07	UMCf	55.3 - 65.3	1,820	822,000	<56.1	<1.03	46.3	17.1	<0.330	<0.150	15,100	2,360	<0.840
U4-MW-09S	6/15/2023	N	EM10	UMCf	55.3 - 65.3	<48.0	26,900	<56.1	<1.03	113	88.3	<0.330	<0.150	18,200	45.2	<0.840
U4-MW-09S	9/13/2023	N	EM13	UMCf	55.3 - 65.3	<48.0	3,600 J	<56.1	<10.3	123	402	0.397 J	<1.50	36,300	120	2.28 J
U4-MW-09S	12/12/2023	N	EM16	UMCf	55.3 - 65.3	<480	521,000	117 J	<5.15	114	572	<0.330	<0.750	448,000	2,710	2.04 J
U4-MW-09S	3/13/2024	N	EM19	UMCf	55.3 - 65.3	<4,800	<59,400	<56.1	<5.15	135	406	<0.330	<0.750	181,000	584	<0.840
U4-MW-09S	6/13/2024	N	EM20	UMCf	55.3 - 65.3	<480 UJ	8,730 J	<56.1	1.69 J	130	302	<0.330	<0.150	112,000	371	<0.840
U4-MW-09S	9/19/2024	N	EM21	UMCf	55.3 - 65.3	<88.4	3,070 J	<56.1	<5.15	81.4	329	<0.950	<0.750	71,500	292	<0.298
U4-MW-10D	4/14/2022	N	BL02	UMCf	96.9 - 106.9	4,090	340,000	<56.1	<1.03	8.78	58.7	<0.330	<0.150	275,000	5,290	<0.840
U4-MW-10D	12/5/2022	N	EM04	UMCf	96.9 - 106.9	1,720	180,000	<56.1	<1.03	7.91	106	<0.330	<0.150	165,000	3,310	<0.840
U4-MW-10D	3/17/2023	N	EM07	UMCf	96.9 - 106.9	<48.0	74,500	<56.1	<1.03	33.0	413	<0.330	<0.150	230,000	196	1.20 J
U4-MW-10D	6/14/2023	N	EM10	UMCf	96.9 - 106.9	<48.0 UJ	2,780 J	<56.1	<1.03	49.8	1,010	<0.330	<0.150	187,000	45.6	0.983 J
U4-MW-10D	9/13/2023	N	EM13	UMCf	96.9 - 106.9	<48.0	174,000	<56.1	1.36 J	11.2	783	1.31 J	<0.150	197,000	12.7	1.73 J
U4-MW-10D	12/14/2023	N	EM16	UMCf	96.9 - 106.9	<48.0	97,400	2,250	<1.03	20.6	416	<0.330	<0.150	145,000	18.9	1.22 J
U4-MW-10D	3/14/2024	N	EM19	UMCf	96.9 - 106.9	<48.0 UJ	80,200	<56.1	<1.03	29.1	339	<0.330	<0.150	140,000	30.4	1.24 J
U4-MW-10D	6/11/2024	N	EM20	UMCf	96.9 - 106.9	<4,800	232,000 J	<56.1	<1.03	22.5	268	<0.330	<0.150	131,000	40.1	<0.840
U4-MW-10D	9/26/2024	N	EM21	UMCf	96.9 - 106.9	<88.4	124,000	<56.1	1.32 J	18.1	238	<0.190	<0.150	124,000	35.4	1.06 J
U4-MW-10I	4/14/2022	N	BL02	UMCf	77.1 - 87.1	8,520	1,300,000	<56.1	<1.03	12.6	35.2	<0.330	0.369 J	278,000	5,960	<0.840
U4-MW-10I	12/5/2022	N	EM04	UMCf	77.1 - 87.1	1,200	1,180,000	<56.1	<1.03	42.8	13.3	<0.330	<0.150	180,000	490	<0.840
U4-MW-10I	3/17/2023	N	EM07	UMCf	77.1 - 87.1	94.2 J	295,000	<56.1	<1.03	37.7	187	<0.330	<0.150	208,000	23.9	1.35 J
U4-MW-10I	6/14/2023	N	EM10	UMCf	77.1 - 87.1	352 J	5,490	<56.1	<1.03	19.4	697	<0.330	<0.150	159,000	45.1	<0.840
U4-MW-10I	9/13/2023	N	EM13	UMCf	77.1 - 87.1	<48.0	273,000	<56.1	<1.03	37.4	897	1.54 J	<0.150	225,000	38.7	2.53 J
U4-MW-10I	12/14/2023	N	EM16	UMCf	77.1 - 87.1	9,420	285,000	67.7 J	5.94 J	21.4	438	<0.330	4.14 J	421,000	13,900	2.82 J
U4-MW-10I	3/13/2024	N	EM19	UMCf	77.1 - 87.1	21,300	377,000 J	<56.1	<5.15	17.4	282	<0.330	<0.750	601,000	27,100	1.76 J
U4-MW-10I	6/11/2024	N	EM20	UMCf	77.1 - 87.1	<4,800	1,000,000	<56.1	<1.03	13.6	64.9	<0.330	<0.150	195,000	1,040	<0.840
U4-MW-10I	9/25/2024	N	EM21	UMCf	77.1 - 87.1	1,040	876,000	<56.1	<1.03	11.5	48.5	<0.190	<0.150	195,000	406	0.518 J
U4-MW-11D	4/15/2022	N	BL02	UMCf	97.4 - 107.4	62,300	880,000	<280	<10.3	6.16 J	151	<1.65	<1.50	1,530,000	92,800	<4.20
U4-MW-11D	9/26/2022	N	EM01	UMCf	97.4 - 107.4	47,900	751,000	----	----	----	----	----	----	----	----	----
U4-MW-11D	10/11/2022	N	EM02	UMCf	97.4 - 107.4	55,600	886,000	----	----	----	----	----	----	----	----	----
U4-MW-11D	11/1/2022	N	EM03	UMCf	97.4 - 107.4	51,800	768,000	----	----	----	----	----	----	----	----	----
U4-MW-11D	12/6/2022	N	EM04	UMCf	97.4 - 107.4	14,700	482,000 J	<1850 UJ	<103 UJ	<18.0 UJ	107 J	<19.0 UJ	<15.0 UJ	1,200,000	75,700	<5.96 UJ
U4-MW-11D	1/12/2023	N	EM05	UMCf	97.4 - 107.4	41,000	740,000	----	----	----	----	----	----	----	----	----
U4-MW-11D	2/14/2023	N	EM06	UMCf	97.4 - 107.4	47,200	746,000	----	----	----	----	----	----	----	----	----
U4-MW-11D	3/16/2023	N	EM07	UMCf	97.4 - 107.4	29,700	603,000	94.7 J	<5.15	14.6	133	<0.330	<0.750	925,000	58,900	<0.840
U4-MW-11D	4/18/2023	N	EM08	UMCf	97.4 - 107.4	27,400	448,000 J	----	----	----	----	----	----	----	----	----
U4-MW-11D	5/17/2023	N	EM09	UMCf	97.4 - 107.4	27,200	664,000	----	----	----	----	----	----	----	----	----
U4-MW-11D	6/16/2023	N	EM10	UMCf	97.4 - 107.4	27,700 J-	657,000	<56.1	<5.15	11.2 J+	131	0.381 J	<0.750	1,140,000	85,700	<8.40
U4-MW-11D	7/14/2023	N	EM11	UMCf	97.4 - 107.4	24,600 J-	524,000	----	----	----	----	----	----	----	----	----
U4-MW-11D	8/14/2023	N	EM12	UMCf	97.4 - 107.4	<480 R	662,000	----	----	----	----	----	----	----	----	----
U4-MW-11D	9/13/2023	N	EM13	UMCf	97.4 - 107.4	13,500	637,000	<56.1	<5.15	10.6	110	4.28	<0.750	851,000	58,400	19.5 J
U4-MW-11D	10/18/2023	N	EM14	UMCf	97.4 - 107.4	18,700	586,000	----	----	----	----	----	----	----	----	----
U4-MW-11D	11/16/2023	N	EM15	UMCf	97.4 - 107.4	17,400 J-	503,000	----	----	----	----	----	----	----	----	----
U4-MW-11D	12/13/2023	N	EM16	UMCf	97.4 - 107.4	17,500	635,000	62.1 J	<20.6	15.7 J	114	<0.330	<3.00	659,000	46,400	<0.840
U4-MW-11D	1/25/2024	N	EM17	UMCf	97.4 - 107.4	18,000	460,000 J	----	----	----	----	----	----	----	----	----
U4-MW-11D	2/14/2024	N	EM18	UMCf	97.4 - 107.4	16,000	583,000	----	----	----	----	----	----	----	----	----
U4-MW-11D	3/12/2024	N	EM19	UMCf	97.4 - 107.4	17,700	561,000	<56.1	<10.3	15.0 J	113	<0.330	<1.50	619,000	48,200	5.90 J
U4-MW-11D	6/12/2024	N	EM20	UMCf	97.4 - 107.4	24,600	550,000	<56.1	<10.3	10.7 J	138	<0.330	<1.50	840,000	59,000	5.66 J

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020
						Nitrate (as N)	Sulfate	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-11D	9/23/2024	N	EM21	UMCf	97.4 - 107.4	28,300	695,000	<56.1	<10.3	8.56 J	137	<1.90	<1.50	892,000	66,300	<0.596
U4-MW-11I	4/14/2022	N	BL02	UMCf	77.0 - 87.0	7,100	1,080,000	<56.1	<1.03	17.5	24.6	<0.330	<0.150	161,000	6,040	<0.840
U4-MW-11I	9/26/2022	N	EM01	UMCf	77.0 - 87.0	<48.0	694,000	----	----	----	----	----	----	----	----	----
U4-MW-11I	9/26/2022	FD	EM01	UMCf	77.0 - 87.0	<48.0	694,000	----	----	----	----	----	----	----	----	----
U4-MW-11I	10/10/2022	N	EM02	UMCf	77.0 - 87.0	<48.0	508,000	----	----	----	----	----	----	----	----	----
U4-MW-11I	10/10/2022	FD	EM02	UMCf	77.0 - 87.0	<48.0	509,000	----	----	----	----	----	----	----	----	----
U4-MW-11I	10/31/2022	N	EM03	UMCf	77.0 - 87.0	<48.0	273,000	----	----	----	----	----	----	----	----	----
U4-MW-11I	10/31/2022	FD	EM03	UMCf	77.0 - 87.0	<48.0	244,000	----	----	----	----	----	----	----	----	----
U4-MW-11I	12/6/2022	N	EM04	UMCf	77.0 - 87.0	<48.0 UJ	27,000 J	<18.5 UJ	5.80	112	459	<0.190 UJ	<0.150 UJ	140,000	77.4	0.243 J
U4-MW-11I	12/6/2022	FD	EM04	UMCf	77.0 - 87.0	<48.0 UJ	42,600 J	<18.5 UJ	3.56 J	96.5	463	<0.190 UJ	<0.150 UJ	140,000	76.1	0.242 J
U4-MW-11I	1/12/2023	N	EM05	UMCf	77.0 - 87.0	50.1 J	74,100	----	----	----	----	----	----	----	----	----
U4-MW-11I	1/12/2023	FD	EM05	UMCf	77.0 - 87.0	54.5 J	72,600	----	----	----	----	----	----	----	----	----
U4-MW-11I	2/14/2023	N	EM06	UMCf	77.0 - 87.0	7,230	160,000	----	----	----	----	----	----	----	----	----
U4-MW-11I	2/14/2023	FD	EM06	UMCf	77.0 - 87.0	8,170	185,000	----	----	----	----	----	----	----	----	----
U4-MW-11I	3/16/2023	N	EM07	UMCf	77.0 - 87.0	<48.0	979 J	<56.1	2.20 J	63.1	554 J	<0.330	<0.150	158,000 J	54.2 J	<0.840
U4-MW-11I	3/16/2023	FD	EM07	UMCf	77.0 - 87.0	<48.0	1,060 J	91.7 J	1.97 J	59.2	375 J	<0.330	<0.150	105,000 J	37.1 J	<0.840
U4-MW-11I	4/18/2023	N	EM08	UMCf	77.0 - 87.0	<48.0	17,300	----	----	----	----	----	----	----	----	----
U4-MW-11I	4/18/2023	FD	EM08	UMCf	77.0 - 87.0	<48.0	19,700	----	----	----	----	----	----	----	----	----
U4-MW-11I	5/19/2023	N	EM09	UMCf	77.0 - 87.0	<48.0	7,200	----	----	----	----	----	----	----	----	----
U4-MW-11I	5/19/2023	FD	EM09	UMCf	77.0 - 87.0	<48.0	7,860	----	----	----	----	----	----	----	----	----
U4-MW-11I	6/15/2023	N	EM10	UMCf	77.0 - 87.0	<48.0	53,500	<56.1	<1.03	53.5	449	<0.330	<0.150	133,000	40.6	<0.840
U4-MW-11I	6/15/2023	FD	EM10	UMCf	77.0 - 87.0	<48.0	52,200	<56.1	<1.03	51.0	445	<0.330	<0.150	134,000	40.2	<0.840
U4-MW-11I	7/13/2023	N	EM11	UMCf	77.0 - 87.0	<48.0	22,600	----	----	----	----	----	----	----	----	----
U4-MW-11I	7/13/2023	FD	EM11	UMCf	77.0 - 87.0	<48.0	22,500	----	----	----	----	----	----	----	----	----
U4-MW-11I	8/14/2023	N	EM12	UMCf	77.0 - 87.0	5,850	1,290,000	----	----	----	----	----	----	----	----	----
U4-MW-11I	8/14/2023	FD	EM12	UMCf	77.0 - 87.0	3,190	1,280,000	----	----	----	----	----	----	----	----	----
U4-MW-11I	9/13/2023	N	EM13	UMCf	77.0 - 87.0	5,990	1,070,000	<56.1	<5.15	8.23 J	195	2.76	<0.750	501,000	2,820	17.6
U4-MW-11I	9/13/2023	FD	EM13	UMCf	77.0 - 87.0	6,440	1,110,000	<56.1	<5.15	7.62 J	203	2.87	<0.750	515,000	2,820	17.8
U4-MW-11I	10/19/2023	N	EM14	UMCf	77.0 - 87.0	1,500	632,000	----	----	----	----	----	----	----	----	----
U4-MW-11I	10/19/2023	FD	EM14	UMCf	77.0 - 87.0	1,390	633,000	----	----	----	----	----	----	----	----	----
U4-MW-11I	11/16/2023	N	EM15	UMCf	77.0 - 87.0	6,720 J	456,000 J	----	----	----	----	----	----	----	----	----
U4-MW-11I	11/16/2023	FD	EM15	UMCf	77.0 - 87.0	62.8 J	4,460 J	----	----	----	----	----	----	----	----	----
U4-MW-11I	12/13/2023	N	EM16	UMCf	77.0 - 87.0	4,920 J	417,000 J	<56.1	25.5 J	11.5 J	246	<0.330	<1.50	465,000	17,400	5.18 J
U4-MW-11I	12/13/2023	FD	EM16	UMCf	77.0 - 87.0	5,090 J	422,000 J	<56.1	22.5 J	12.1 J	247	<0.330	<1.50	467,000	17,400	3.90 J
U4-MW-11I	1/25/2024	N	EM17	UMCf	77.0 - 87.0	9,350 J	378,000 J	----	----	----	----	----	----	----	----	----
U4-MW-11I	1/25/2024	FD	EM17	UMCf	77.0 - 87.0	9,860 J	448,000 J	----	----	----	----	----	----	----	----	----
U4-MW-11I	2/14/2024	N	EM18	UMCf	77.0 - 87.0	6,930	484,000	----	----	----	----	----	----	----	----	----
U4-MW-11I	2/14/2024	FD	EM18	UMCf	77.0 - 87.0	2,210	491,000	----	----	----	----	----	----	----	----	----
U4-MW-11I	3/13/2024	N	EM19	UMCf	77.0 - 87.0	6,470 J-	480,000	84.0 J	19.1 J	8.16 J	283	<0.330	<0.750	559,000	22,900	7.05 J
U4-MW-11I	3/13/2024	FD	EM19	UMCf	77.0 - 87.0	6,570	481,000	107 J	20.0	7.78 J	284	<0.330	<0.750	562,000	22,900	6.77 J
U4-MW-11I	6/12/2024	N	EM20	UMCf	77.0 - 87.0	8,760 J	560,000	<56.1	11.9 J	7.20 J	244	<0.330	<1.50	468,000	22,300	7.38 J
U4-MW-11I	6/12/2024	FD	EM20	UMCf	77.0 - 87.0	8,460 J	563,000	<56.1	<10.3	7.57 J	237	<0.330	<1.50	459,000	22,000	6.56 J
U4-MW-11I	9/23/2024	N	EM21	UMCf	77.0 - 87.0	<8,840	628,000	<56.1	16.6 J	7.37 J	228	<0.950	<0.750	431,000	18,300	3.62 J
U4-MW-11I	9/23/2024	FD	EM21	UMCf	77.0 - 87.0	<8,840	632,000	<56.1	14.0 J	7.03 J	218	<0.950	<0.750	427,000	18,200	3.05 J
U4-MW-12D	4/15/2022	N	BL02	UMCf	97.1 - 107.1	61,000	1,130,000	115 J	<10.3	6.66 J	115	<0.330	<1.50	1,230,000	72,500	<4.20
U4-MW-12D	9/27/2022	N	EM01	UMCf	97.1 - 107.1	29,800	696,000	----	----	----	----	----	----	----	----	----
U4-MW-12D	10/12/2022	N	EM02	UMCf	97.1 - 107.1	32,400	846,000	----	----	----	----	----	----	----	----	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020
						Nitrate (as N)	Sulfate	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-12D	11/2/2022	N	EM03	UMCf	97.1 - 107.1	28,700	842,000	----	----	----	----	----	----	----	----	----
U4-MW-12D	12/7/2022	N	EM04	UMCf	97.1 - 107.1	22,700	818,000	<92.5	<5.15	14.8	64.9 J+	<0.950	<0.750	662,000	48,500	<0.298
U4-MW-12D	1/12/2023	N	EM05	UMCf	97.1 - 107.1	21,600	624,000	----	----	----	----	----	----	----	----	----
U4-MW-12D	2/15/2023	N	EM06	UMCf	97.1 - 107.1	21,700	537,000	----	----	----	----	----	----	----	----	----
U4-MW-12D	3/14/2023	N	EM07	UMCf	97.1 - 107.1	10,100	468,000	<56.1	<5.15	15.0	98.4	<0.330	<0.750	596,000	32,900	<0.840
U4-MW-12D	4/17/2023	N	EM08	UMCf	97.1 - 107.1	19,500	714,000	----	----	----	----	----	----	----	----	----
U4-MW-12D	5/17/2023	N	EM09	UMCf	97.1 - 107.1	30,700	907,000	----	----	----	----	----	----	----	----	----
U4-MW-12D	6/16/2023	N	EM10	UMCf	97.1 - 107.1	16,500 J-	506,000	93.0 J	<5.15	9.72 J	97.4	<0.330	<0.750	646,000	37,600	<0.840
U4-MW-12D	7/13/2023	N	EM11	UMCf	97.1 - 107.1	8,640	276,000	----	----	----	----	----	----	----	----	----
U4-MW-12D	8/14/2023	N	EM12	UMCf	97.1 - 107.1	<240 UJ	279,000	----	----	----	----	----	----	----	----	----
U4-MW-12D	9/12/2023	N	EM13	UMCf	97.1 - 107.1	9,300 J	269,000 J	<56.1	1.14 J	8.71	96.9	<0.330	<0.150	397,000	11,900	<0.840
U4-MW-12D	10/17/2023	N	EM14	UMCf	97.1 - 107.1	1,680 J-	252,000	----	----	----	----	----	----	----	----	----
U4-MW-12D	11/15/2023	N	EM15	UMCf	97.1 - 107.1	1,710 J-	234,000 J	----	----	----	----	----	----	----	----	----
U4-MW-12D	12/12/2023	N	EM16	UMCf	97.1 - 107.1	<48.0	212,000 J+	<56.1	<5.15	18.1	127	<0.330	<0.750	396,000	8,060	1.51 J
U4-MW-12D	1/24/2024	N	EM17	UMCf	97.1 - 107.1	1,850	179,000	----	----	----	----	----	----	----	----	----
U4-MW-12D	2/13/2024	N	EM18	UMCf	97.1 - 107.1	<4,800	174,000 J	----	----	----	----	----	----	----	----	----
U4-MW-12D	3/12/2024	N	EM19	UMCf	97.1 - 107.1	2,390	154,000	<56.1	31.9	30.6	360	<0.330	<0.750	413,000	8,090	1.57 J
U4-MW-12D	6/12/2024	N	EM20	UMCf	97.1 - 107.1	<4,800	276,000	<56.1	15.6 J	15.8	255	<0.330	<0.750	488,000	16,100	4.27 J
U4-MW-12D	9/24/2024	N	EM21	UMCf	97.1 - 107.1	4,610	310,000	<56.1	31.6	13.1	209	<0.950	<0.750	452,000	17,400	0.717 J
U4-MW-12I	4/14/2022	N	BL02	UMCf	76.8 - 86.8	7,700	1,230,000	<56.1	3.92 J	14.6	48.2	<0.330	2.51 J	317,000	17,200	<0.840
U4-MW-12I	4/14/2022	FD	BL02	UMCf	76.8 - 86.8	8,310	1,220,000	61.1 J	1.29 J	12.6	47.3	<0.330	<0.150 UJ	314,000	16,700	<0.840
U4-MW-12I	9/27/2022	N	EM01	UMCf	76.8 - 86.8	2,190	1,080,000	----	----	----	----	----	----	----	----	----
U4-MW-12I	10/12/2022	N	EM02	UMCf	76.8 - 86.8	535	1,030,000	----	----	----	----	----	----	----	----	----
U4-MW-12I	11/2/2022	N	EM03	UMCf	76.8 - 86.8	383	989,000	----	----	----	----	----	----	----	----	----
U4-MW-12I	12/7/2022	N	EM04	UMCf	76.8 - 86.8	----	----	<18.5	1.36 J	108	20.7	<0.190	<0.150	86,600	63.3	0.171 J
U4-MW-12I	12/7/2022	FD	EM04	UMCf	76.8 - 86.8	----	----	21.6 J	1.26 J	108	20.7	<0.190	<0.150	86,400	64.8	0.173 J
U4-MW-12I	1/13/2023	N	EM05	UMCf	76.8 - 86.8	83.5 J	44,500	----	----	----	----	----	----	----	----	----
U4-MW-12I	2/15/2023	N	EM06	UMCf	76.8 - 86.8	99.2 J	24,700	----	----	----	----	----	----	----	----	----
U4-MW-12I	3/13/2023	N	EM07	UMCf	76.8 - 86.8	<48.0	3,350 J	<56.1	<1.03	47.2	439	<0.330	<0.150	127,000	15.9	1.39 J
U4-MW-12I	4/17/2023	N	EM08	UMCf	76.8 - 86.8	48.0 J	1,600 J	----	----	----	----	----	----	----	----	----
U4-MW-12I	5/17/2023	N	EM09	UMCf	76.8 - 86.8	<48.0	894 J	----	----	----	----	----	----	----	----	----
U4-MW-12I	6/16/2023	N	EM10	UMCf	76.8 - 86.8	<48.0 UJ	1,770 J	<56.1	<1.03	46.5	564	<0.330	<0.150	141,000	25.7	<0.840
U4-MW-12I	7/11/2023	N	EM11	UMCf	76.8 - 86.8	56.8 J	9,270	----	----	----	----	----	----	----	----	----
U4-MW-12I	8/14/2023	N	EM12	UMCf	76.8 - 86.8	4,190	616,000	----	----	----	----	----	----	----	----	----
U4-MW-12I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	395	348,000	<56.1	1.45 J	5.09	99.2	<0.330	<0.150	154,000	20.0	<0.840
U4-MW-12I	10/17/2023	N	EM14	UMCf	76.8 - 86.8	<48.0 R	9,860	----	----	----	----	----	----	----	----	----
U4-MW-12I	11/16/2023	N	EM15	UMCf	76.8 - 86.8	<480	277,000	----	----	----	----	----	----	----	----	----
U4-MW-12I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	<48.0 UJ	280,000	<56.1	<5.15	7.98 J	383	<0.330	<0.750	281,000	267	4.44 J
U4-MW-12I	1/24/2024	N	EM17	UMCf	76.8 - 86.8	716 J	241,000	----	----	----	----	----	----	----	----	----
U4-MW-12I	2/13/2024	N	EM18	UMCf	76.8 - 86.8	<4,800	211,000 J	----	----	----	----	----	----	----	----	----
U4-MW-12I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	<48.0 R	392,000 J	<56.1	3.76 J	11.5	333	<0.330	0.607 J	281,000	1,280	2.96 J
U4-MW-12I	6/13/2024	N	EM20	UMCf	76.8 - 86.8	<48.0 R	493,000	<56.1	9.64	10.5	316	<0.330	0.614 J	306,000	15,800	<0.840
U4-MW-12I	9/23/2024	N	EM21	UMCf	76.8 - 86.8	10,800	634,000	<56.1	6.10 J	11.3	265	<0.950	<0.750	307,000	20,800	2.82 J
U4-MW-13D	4/14/2022	N	BL02	UMCf	98.2 - 108.2	60,700	662,000	375 J	<10.3	5.43 J	173	<1.65	<1.50	1,520,000	55,300	<4.20
U4-MW-13D	9/28/2022	N	EM01	UMCf	98.2 - 108.2	10,900	336,000 J	----	----	----	----	----	----	----	----	----
U4-MW-13D	10/11/2022	N	EM02	UMCf	98.2 - 108.2	6,780 J	379,000 J	----	----	----	----	----	----	----	----	----
U4-MW-13D	11/3/2022	N	EM03	UMCf	98.2 - 108.2	6,960	295,000	----	----	----	----	----	----	----	----	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020
						Nitrate (as N)	Sulfate	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-13D	12/7/2022	N	EM04	UMCf	98.2 - 108.2	9,910 J	288,000 J	<92.5	<5.15	7.37 J	100	<0.950	<0.750	494,000	17,900	<0.298
U4-MW-13D	1/12/2023	N	EM05	UMCf	98.2 - 108.2	10,300	289,000 J	----	----	----	----	----	----	----	----	----
U4-MW-13D	2/15/2023	N	EM06	UMCf	98.2 - 108.2	12,000	296,000 J	----	----	----	----	----	----	----	----	----
U4-MW-13D	3/17/2023	N	EM07	UMCf	98.2 - 108.2	8,410 J	280,000 J	<56.1	<1.03	5.75	76.8	<0.330	<0.150	303,000	12,900	<0.840
U4-MW-13D	4/18/2023	N	EM08	UMCf	98.2 - 108.2	<4,800	241,000 J	----	----	----	----	----	----	----	----	----
U4-MW-13D	5/17/2023	N	EM09	UMCf	98.2 - 108.2	15,200 J-	259,000	----	----	----	----	----	----	----	----	----
U4-MW-13D	6/15/2023	N	EM10	UMCf	98.2 - 108.2	3,030	252,000	<56.1	<1.03	6.27	69.5	<0.330	<0.150	261,000	9,000	<0.840
U4-MW-13D	7/12/2023	N	EM11	UMCf	98.2 - 108.2	2,840	244,000	----	----	----	----	----	----	----	----	----
U4-MW-13D	8/11/2023	N	EM12	UMCf	98.2 - 108.2	5,230	241,000	----	----	----	----	----	----	----	----	----
U4-MW-13D	9/11/2023	N	EM13	UMCf	98.2 - 108.2	4,860	255,000	<56.1	<1.03	6.15	92.8	<0.330	<0.150	364,000	12,500	1.97 J
U4-MW-13D	10/18/2023	N	EM14	UMCf	98.2 - 108.2	6,420	258,000	----	----	----	----	----	----	----	----	----
U4-MW-13D	11/15/2023	N	EM15	UMCf	98.2 - 108.2	6,180 J	230,000 J	----	----	----	----	----	----	----	----	----
U4-MW-13D	12/11/2023	N	EM16	UMCf	98.2 - 108.2	11,500 J	252,000 J	<56.1	<5.15	5.82 J	92.0	<0.330	<0.750	404,000	14,000	<0.840
U4-MW-13D	1/23/2024	N	EM17	UMCf	98.2 - 108.2	7,540	286,000	----	----	----	----	----	----	----	----	----
U4-MW-13D	2/12/2024	N	EM18	UMCf	98.2 - 108.2	7,890	280,000	----	----	----	----	----	----	----	----	----
U4-MW-13D	3/11/2024	N	EM19	UMCf	98.2 - 108.2	3,080 J-	234,000	<56.1	<5.15	6.40 J	93.4	<0.330	<0.750	431,000	14,500	<0.840
U4-MW-13D	6/13/2024	N	EM20	UMCf	98.2 - 108.2	<48.0	259,000	<56.1	<1.03	5.69	147	<0.330	<0.150	641,000	19,500	2.66 J
U4-MW-13D	9/20/2024	N	EM21	UMCf	98.2 - 108.2	<88.4	193,000	<56.1	<1.03	5.37	150	<0.190	<0.150	712,000	22,100	0.117 J
U4-MW-13I	4/14/2022	N	BL02	UMCf	77.1 - 87.1	7,030	1,090,000	<56.1	<1.03	12.6	43.5	<0.330	<0.150	395,000	20,300	<0.840
U4-MW-13I	9/28/2022	N	EM01	UMCf	77.1 - 87.1	9,130 J	1,040,000	----	----	----	----	----	----	----	----	----
U4-MW-13I	10/10/2022	N	EM02	UMCf	77.1 - 87.1	5,560	1,060,000	----	----	----	----	----	----	----	----	----
U4-MW-13I	11/3/2022	N	EM03	UMCf	77.1 - 87.1	3,730	932,000	----	----	----	----	----	----	----	----	----
U4-MW-13I	12/6/2022	N	EM04	UMCf	77.1 - 87.1	<48.0 UJ	545,000	<18.5 UJ	2.00 J	79.2	19.6	<0.190 UJ	<0.150 UJ	100,000	892	0.138 J
U4-MW-13I	1/12/2023	N	EM05	UMCf	77.1 - 87.1	360	433,000	----	----	----	----	----	----	----	----	----
U4-MW-13I	2/14/2023	N	EM06	UMCf	77.1 - 87.1	1,780	399,000	----	----	----	----	----	----	----	----	----
U4-MW-13I	3/16/2023	N	EM07	UMCf	77.1 - 87.1	<48.0	55,400	<56.1	1.14 J	74.9	239	<0.330	0.223 J	66,300	255	<0.840
U4-MW-13I	4/19/2023	N	EM08	UMCf	77.1 - 87.1	<48.0	115,000	----	----	----	----	----	----	----	----	----
U4-MW-13I	5/17/2023	N	EM09	UMCf	77.1 - 87.1	<48.0	77,800	----	----	----	----	----	----	----	----	----
U4-MW-13I	6/15/2023	N	EM10	UMCf	77.1 - 87.1	<48.0	97,300	<56.1	6.01	73.1	395	<0.330	<0.150	61,700	151	<0.840
U4-MW-13I	7/12/2023	N	EM11	UMCf	77.1 - 87.1	135	90,200	----	----	----	----	----	----	----	----	----
U4-MW-13I	8/11/2023	N	EM12	UMCf	77.1 - 87.1	4,960 J+	340,000	----	----	----	----	----	----	----	----	----
U4-MW-13I	9/11/2023	N	EM13	UMCf	77.1 - 87.1	5,460	311,000	<56.1	3.62 J	20.6	127	<0.330	<0.150	341,000	12,600	3.13 J
U4-MW-13I	10/17/2023	N	EM14	UMCf	77.1 - 87.1	5,720 J-	317,000	----	----	----	----	----	----	----	----	----
U4-MW-13I	11/15/2023	N	EM15	UMCf	77.1 - 87.1	7,940 J	333,000 J	----	----	----	----	----	----	----	----	----
U4-MW-13I	12/11/2023	N	EM16	UMCf	77.1 - 87.1	13,600 J	353,000 J	78.2 J	<5.15	14.7	113	<0.330	<0.750	452,000	17,800	<0.840
U4-MW-13I	1/23/2024	N	EM17	UMCf	77.1 - 87.1	11,200	442,000	----	----	----	----	----	----	----	----	----
U4-MW-13I	2/12/2024	N	EM18	UMCf	77.1 - 87.1	9,770	399,000	----	----	----	----	----	----	----	----	----
U4-MW-13I	3/11/2024	N	EM19	UMCf	77.1 - 87.1	<480 UJ	437,000	<56.1	11.6 J	19.0	116	<0.330	<0.750	527,000	21,500	<0.840
U4-MW-13I	6/13/2024	N	EM20	UMCf	77.1 - 87.1	<240	465,000	<56.1	14.6	17.5	119	<0.330	<0.150	575,000	23,600	3.74 J
U4-MW-13I	9/20/2024	N	EM21	UMCf	77.1 - 87.1	<88.4	487,000	<56.1	9.45	15.5	125	<0.190	<0.150	604,000	24,000	0.504 J
U4-MW-14D	4/13/2022	N	BL02	UMCf	97.3 - 107.3	729 J	2,560,000	<56.1	<1.03	21.3	33.5	<0.330	<0.150	561,000	308	<0.840
U4-MW-14D	12/6/2022	N	EM04	UMCf	97.3 - 107.3	3,700	946,000	20.6 J	<1.03 UJ	14.6	56.2	<0.190 UJ	<0.150 UJ	395,000	6,790	<0.0596 UJ
U4-MW-14D	3/16/2023	N	EM07	UMCf	97.3 - 107.3	2,420	387,000	<56.1	<1.03	13.2	52.1	<0.330	<0.150	181,000	4,500	<0.840
U4-MW-14D	6/15/2023	N	EM10	UMCf	97.3 - 107.3	1,230	453,000	<56.1	<1.03	14.4	49.1	<0.330	<0.150	224,000	4,270	<0.840
U4-MW-14D	9/14/2023	N	EM13	UMCf	97.3 - 107.3	856	179,000	<56.1	<1.03	15.3	191	<0.330	<0.150	219,000	2,540	<0.840
U4-MW-14D	12/15/2023	N	EM16	UMCf	97.3 - 107.3	855	217,000	<56.1	<1.03	13.7	178	<0.330	<0.150	230,000	2,810	0.928 J
U4-MW-14D	3/13/2024	N	EM19	UMCf	97.3 - 107.3	1,640	213,000	<56.1	<1.03	16.4	129	<0.330	<0.150	253,000	3,590	<0.840

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020
						Nitrate (as N)	Sulfate	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-14D	6/13/2024	N	EM20	UMCf	97.3 - 107.3	882	258,000	<56.1	<1.03	15.4	88.8	<0.330	<0.150	211,000	2,840	0.958 J
U4-MW-14D	9/19/2024	N	EM21	UMCf	97.3 - 107.3	<88.4	324,000	<56.1	<1.03	15.3	66.3	<0.190	<0.150	187,000	2,890	0.157 J
U4-MW-14I	4/14/2022	N	BL02	UMCf	77.3 - 87.3	2,490	1,410,000	<56.1	<1.03	16.6	23.1	<0.330	<0.150	237,000	2,150	<0.840
U4-MW-14I	12/6/2022	N	EM04	UMCf	77.3 - 87.3	2,700	1,490,000	<18.5 UJ	<1.03 UJ	17.1	49.4	<0.190 UJ	<0.150 UJ	524,000	4,710	0.0650 J
U4-MW-14I	3/16/2023	N	EM07	UMCf	77.3 - 87.3	2,510	597,000	<56.1	<1.03	14.1	49.1	<0.330	<0.150	250,000	4,510	<0.840
U4-MW-14I	6/15/2023	N	EM10	UMCf	77.3 - 87.3	970	733,000	<56.1	<1.03	17.7	129	<0.330	<0.150	263,000	700	<0.840
U4-MW-14I	9/14/2023	N	EM13	UMCf	77.3 - 87.3	658	438,000	<56.1	<1.03	20.7	63.8	<0.330	<0.150	296,000	2,060	<0.840
U4-MW-14I	12/14/2023	N	EM16	UMCf	77.3 - 87.3	<48.0	348,000	161 J	<1.03	15.8	92.4	<0.330	<0.150	301,000	2,150	1.42 J
U4-MW-14I	3/13/2024	N	EM19	UMCf	77.3 - 87.3	1,240	305,000	<56.1	<1.03	19.0	98.6	<0.330	<0.150	363,000	2,410	<0.840
U4-MW-14I	6/14/2024	N	EM20	UMCf	77.3 - 87.3	<480 R	399,000	<56.1	<1.03	18.2 J+	84.7	<0.330	<0.150	299,000	2,830	1.16 J
U4-MW-14I	9/19/2024	N	EM21	UMCf	77.3 - 87.3	1,420	531,000	<56.1	<1.03	16.0	74.1	<0.190	<0.150	311,000	3,570	0.191 J
U4-MW-15D	4/13/2022	N	BL02	UMCf	96.0 - 106.0	3,170	410,000	149 J	<1.03	9.66	56.0	<0.330	<0.150	338,000	4,940	<0.840
U4-MW-15D	12/5/2022	N	EM04	UMCf	96.0 - 106.0	1,220	225,000	<56.1	<1.03	10.6	49.7	<0.330	<0.150	208,000	3,170	<0.840
U4-MW-15D	3/20/2023	N	EM07	UMCf	96.0 - 106.0	2,030	196,000	<56.1	<1.03	8.49	56.3	<0.330	<0.150	156,000	3,210	<0.840
U4-MW-15D	6/14/2023	N	EM10	UMCf	96.0 - 106.0	2,020 J	193,000	<56.1	<1.03	9.43	61.7	<0.330	<0.150	197,000	3,870	<0.840
U4-MW-15D	9/13/2023	N	EM13	UMCf	96.0 - 106.0	1,650	196,000	<56.1	<1.03	10.0	50.3	1.26 J	<0.150	185,000	3,310	1.23 J
U4-MW-15D	12/12/2023	N	EM16	UMCf	96.0 - 106.0	<48.0	183,000	<56.1	<1.03	9.07	71.8	<0.330	<0.150	214,000	3,370	<0.840
U4-MW-15D	3/12/2024	N	EM19	UMCf	96.0 - 106.0	9,980	185,000	<56.1	<1.03	10.3	76.4	<0.330	<0.150	243,000	3,560	0.981 J
U4-MW-15D	6/14/2024	N	EM20	UMCf	96.0 - 106.0	1,770 J-	186,000	<56.1	<10.3	16.3 J	52.4	<0.330	<1.50	180,000	2,570	<0.840
U4-MW-15D	9/24/2024	N	EM21	UMCf	96.0 - 106.0	1,790	168,000	<56.1	<1.03	10.4	45.0	<0.190	<0.150	149,000	2,320	0.0610 J
U4-MW-15DD	4/13/2022	N	BL02	UMCf	120.3 - 130.3	878	214,000	<56.1	<1.03	18.8	21.3	<0.330	<0.150	34,000	64.4	<0.840
U4-MW-15DD	12/5/2022	N	EM04	UMCf	120.3 - 130.3	1,260	177,000	<56.1	<1.03	16.8	25.2	<0.330	<0.150	32,300	16.3	<0.840
U4-MW-15DD	3/15/2023	N	EM07	UMCf	120.3 - 130.3	1,470	165,000	62.9 J	<1.03	13.4	25.3	<0.330	<0.150	30,600	13.8	<0.840
U4-MW-15DD	6/13/2023	N	EM10	UMCf	120.3 - 130.3	1,340	169,000	<56.1	<1.03	8.61	24.1	<0.330	<0.150	32,300	7.06 J	<0.840
U4-MW-15DD	9/14/2023	N	EM13	UMCf	120.3 - 130.3	1,590	174,000	<56.1	<1.03	13.7	22.6	<0.330	<0.150	28,400	3.78 J	<0.840
U4-MW-15DD	12/13/2023	N	EM16	UMCf	120.3 - 130.3	1,290	183,000	<56.1	<1.03	15.0	22.8	<0.330	<0.150	30,100	5.60 J	<0.840
U4-MW-15DD	3/12/2024	N	EM19	UMCf	120.3 - 130.3	2,310	178,000	<56.1	<1.03	11.7	24.9	<0.330	<0.150	31,800	2.07 J	<0.840
U4-MW-15DD	6/14/2024	N	EM20	UMCf	120.3 - 130.3	1,200	171,000	<56.1	<1.03	9.51 J+	23.1	<0.330	<0.150	31,600	12.6	<0.840
U4-MW-15DD	9/24/2024	N	EM21	UMCf	120.3 - 130.3	1,720	156,000	<56.1	<1.03	12.2	23.3	<0.190	<0.150	30,800	21.4	0.139 J
U4-MW-15I	4/12/2022	N	BL02	UMCf	76.8 - 86.8	5,590	1,070,000	<56.1	<1.03	31.1	20.5 J+	<0.330	<0.150	127,000	5,510	<0.840
U4-MW-15I	12/5/2022	N	EM04	UMCf	76.8 - 86.8	827	875,000	<56.1	1.24 J	44.9	24.9	<0.330	<0.150	163,000	5,040	<0.840
U4-MW-15I	3/17/2023	N	EM07	UMCf	76.8 - 86.8	<48.0	1,640 J	<56.1	<1.03	39.0	874	<0.330	<0.150	194,000	108	<0.840
U4-MW-15I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<48.0 UJ	<594	<56.1	<1.03	83.2	629	<0.330	<0.150	178,000	89.2	1.25 J
U4-MW-15I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	<48.0	223,000	<56.1	<1.03	26.8	509	<0.330	<0.150	180,000	42.6	1.59 J
U4-MW-15I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	<48.0	184,000	<56.1	<5.15	28.4	469	<0.330	<0.750	190,000	1,940	2.81 J
U4-MW-15I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	8,020	270,000	<56.1	<5.15	35.9	535	<0.330	<0.750	264,000	5,400	1.82 J
U4-MW-15I	6/17/2024	N	EM20	UMCf	76.8 - 86.8	7,390	373,000	80.0 J	<5.15	34.4	370	<0.330	<0.750	234,000	4,740	3.09 J
U4-MW-15I	9/25/2024	N	EM21	UMCf	76.8 - 86.8	4,870	17,100 J	71.0 J	2.54 J	173 J-	172 J-	<0.190 UJ	<0.150 UJ	346,000 J-	249 J-	29.7 J-
U4-MW-15S	4/13/2022	N	BL02	UMCf	54.8 - 64.8	2,750	1,190,000	112 J	<1.03	35.0	21.0	<0.330	<0.150	166,000 J	268 J	<0.840
U4-MW-15S	12/5/2022	N	EM04	UMCf	54.8 - 64.8	132	212,000	186 J	<1.03	49.4	419	<0.330	<0.150	197,000	16.9	<0.840
U4-MW-15S	3/13/2023	N	EM07	UMCf	54.8 - 64.8	<480	14,700 J	<56.1	<1.03	44.0	217	<0.330	<0.150	94,100	9.67 J	1.30 J
U4-MW-15S	6/13/2023	N	EM10	UMCf	54.8 - 64.8	<48.0	12,200	<56.1	<1.03	40.4	360	<0.330	0.278 J	96,700	9.11 J	<0.840
U4-MW-15S	9/14/2023	N	EM13	UMCf	54.8 - 64.8	5,550 J	<59,400	<56.1	<1.03	80.5	694	<0.330	<0.150	135,000	11.0	<0.840
U4-MW-15S	12/11/2023	N	EM16	UMCf	54.8 - 64.8	<48.0 UJ	6,580	59.4 J	<1.03	135	776	<0.330	<0.150	143,000	5.70 J	3.00 J
U4-MW-15S	3/12/2024	N	EM19	UMCf	54.8 - 64.8	435	12,800	60.6 J	1.48 J	37.0	593	<0.330	<0.150	138,000	6.41 J	1.77 J
U4-MW-15S	3/26/2024	N	EM19	UMCf	54.8 - 64.8	<48.0	174,000	<56.1	<1.03	74.5	431	<0.330	<0.150	117,000	5.49 J	<0.840
U4-MW-15S	6/14/2024	N	EM20	UMCf	54.8 - 64.8	<48.0	583,000	<56.1	<1.03	104	205	<0.330	<0.150	105,000	3.42 J	<0.840

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020
						Nitrate (as N)	Sulfate	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-15S	9/20/2024	N	EM21	UMCf	54.8 - 64.8	<88.4	893,000	<56.1	<1.03	104	145	<0.190	<0.150	110,000	2.52	<0.0596
U4-MW-16D	4/11/2022	N	BL02	UMCf	96.8 - 106.8	39,300	722,000	<56.1	<10.3	7.23 J	191	<0.330	<1.50	474,000	12,600	<0.840
U4-MW-16D	12/5/2022	N	EM04	UMCf	96.8 - 106.8	17,100	573,000	<56.1	<1.03	1.92 J	94.1	<0.330	<0.150	149,000	27,600	<0.840
U4-MW-16D	3/14/2023	N	EM07	UMCf	96.8 - 106.8	10,500	205,000	<56.1	<5.15	10.3	137	<0.330	<0.750	601,000	16,800	<0.840
U4-MW-16D	6/13/2023	N	EM10	UMCf	96.8 - 106.8	25,200	377,000 J	378	<10.3	17.5 J	227	<0.330	<1.50	816,000	39,300	<0.840
U4-MW-16D	9/15/2023	N	EM13	UMCf	96.8 - 106.8	15,200	217,000	<56.1	<5.15	12.7	137	<0.330	<0.750	596,000	17,700	<0.840
U4-MW-16D	12/14/2023	N	EM16	UMCf	96.8 - 106.8	18,200	219,000	<56.1	<10.3	4.71 J	137	<0.330	<1.50	713,000	22,000	<0.840
U4-MW-16D	3/14/2024	N	EM19	UMCf	96.8 - 106.8	<48.0 UJ	197,000	<56.1	<5.15	5.66 J	132	<0.330	<0.750	628,000	17,300	<0.840
U4-MW-16D	6/17/2024	N	EM20	UMCf	96.8 - 106.8	<480	279,000	<56.1	<5.15	4.51 J	130	<0.330	<0.750	691,000	26,000	0.903 J
U4-MW-16D	9/20/2024	N	EM21	UMCf	96.8 - 106.8	<88.4	284,000	<56.1	<1.03	5.39	129	<0.190	<0.150	725,000	27,100	<0.0596
U4-MW-16DD	4/12/2022	N	BL02	UMCf	120.8 - 130.8	569	623,000	<56.1	<1.03	20.0	24.7 J+	<0.330	<0.150	114,000	922	<0.840
U4-MW-16DD	12/5/2022	N	EM04	UMCf	120.8 - 130.8	260	444,000	<56.1	<1.03	21.7	23.1	<0.330	<0.150	77,200	203	<0.840
U4-MW-16DD	3/15/2023	N	EM07	UMCf	120.8 - 130.8	512	369,000	<56.1	<1.03	23.8	23.5	<0.330	<0.150	67,600	167	<0.840
U4-MW-16DD	6/13/2023	N	EM10	UMCf	120.8 - 130.8	<48.0	361,000	<56.1	<1.03	24.5	22.7	<0.330	<0.150	60,000	192	<0.840
U4-MW-16DD	9/14/2023	N	EM13	UMCf	120.8 - 130.8	728	336,000	<56.1	<1.03	23.7	21.6	<0.330	<0.150	54,700	146	<0.840
U4-MW-16DD	12/13/2023	N	EM16	UMCf	120.8 - 130.8	295	328,000	<56.1	<1.03	25.2	23.0	<0.330	<0.150	55,700	99.0	<0.840
U4-MW-16DD	3/14/2024	N	EM19	UMCf	120.8 - 130.8	432 J-	298,000	<56.1	<1.03	19.2	24.1	<0.330	<0.150	59,000	18.5	<0.840
U4-MW-16DD	6/17/2024	N	EM20	UMCf	120.8 - 130.8	2,340	275,000	56.3 J	<1.03	20.9	22.9	<0.330	<0.150	52,400	15.2	1.65 J
U4-MW-16DD	9/19/2024	N	EM21	UMCf	120.8 - 130.8	<88.4	314,000	<56.1	<1.03	22.1	22.5	<0.190	<0.150	50,300	12.7	0.0605 J
U4-MW-16I	4/11/2022	N	BL02	UMCf	77.0 - 87.0	6,600	979,000	<56.1	<1.03	11.2	38.6	<0.330	<0.150	231,000	8,620	<0.840
U4-MW-16I	12/5/2022	N	EM04	UMCf	77.0 - 87.0	72.8 J	195,000	<56.1	<1.03	69.5	182	<0.330	<0.150	153,000	10.9	<0.840
U4-MW-16I	12/5/2022	FD	EM04	UMCf	77.0 - 87.0	73.1 J	179,000	<56.1	<1.03	52.5	184	<0.330	<0.150	147,000	11.4	<0.840
U4-MW-16I	3/13/2023	N	EM07	UMCf	77.0 - 87.0	<48.0	2,340 J	<56.1	<1.03	59.2	652	<0.330	<0.150	264,000	19.0	1.47 J
U4-MW-16I	3/13/2023	FD	EM07	UMCf	77.0 - 87.0	<48.0	1,760 J	<56.1	<1.03	58.9	650	<0.330	<0.150	264,000	18.7	1.01 J
U4-MW-16I	6/12/2023	N	EM10	UMCf	77.0 - 87.0	49.8 J	<594	61.2 J	<1.03	83.7	459	<0.330	<0.150	215,000	16.8	<0.840
U4-MW-16I	6/12/2023	FD	EM10	UMCf	77.0 - 87.0	49.6 J	<594	<56.1	3.28 J	83.0	459	<0.330	<0.150	217,000	14.7	<0.840
U4-MW-16I	9/11/2023	N	EM13	UMCf	77.0 - 87.0	4,520	498,000	<56.1	<1.03	8.62	408	<0.330	0.162 J	515,000	13,800	6.06 J
U4-MW-16I	9/11/2023	FD	EM13	UMCf	77.0 - 87.0	3,660	501,000	<56.1	<1.03	8.52	408	<0.330	<0.150	509,000	13,800	5.81 J
U4-MW-16I	12/11/2023	N	EM16	UMCf	77.0 - 87.0	2,200 J	50,400	<56.1	<5.15	12.7	275	<0.330	<0.750	628,000	28,900	<0.840
U4-MW-16I	12/11/2023	FD	EM16	UMCf	77.0 - 87.0	5,450 J	71,700	<56.1	<5.15	12.6	271	<0.330	<0.750	621,000	28,700	<0.840
U4-MW-16I	3/11/2024	N	EM19	UMCf	77.0 - 87.0	18,600 J-	381,000 J	<56.1	<5.15	13.1	222	<0.330	<0.750	676,000	31,700	<0.840
U4-MW-16I	3/11/2024	FD	EM19	UMCf	77.0 - 87.0	17,500 J-	358,000 J	<56.1	<5.15	14.1	234	<0.330	<0.750	707,000	33,300	<0.840
U4-MW-16I	6/18/2024	N	EM20	UMCf	77.0 - 87.0	17,200	427,000	<56.1	<5.15	9.81 J	205	<0.330	<0.750	607,000	23,000	11.4
U4-MW-16I	6/18/2024	FD	EM20	UMCf	77.0 - 87.0	16,900	424,000	<56.1	<5.15	10.2	202	<0.330	<0.750	601,000	22,600	10.9
U4-MW-16I	9/19/2024	N	EM21	UMCf	77.0 - 87.0	<88.4	407,000	<56.1	<10.3	10.7 J	177	<1.90	<1.50	589,000	20,400	1.51 J
U4-MW-16I	9/19/2024	FD	EM21	UMCf	77.0 - 87.0	<88.4	409,000	<56.1	<10.3	9.31 J	190	<1.90	<1.50	586,000	20,500	1.01 J
U4-MW-16S	4/12/2022	N	BL02	UMCf	54.8 - 64.8	2,700	1,150,000	<56.1	<1.03	20.9	22.2 J+	<0.330	<0.150	169,000	427	<0.840
U4-MW-16S	4/12/2022	FD	BL02	UMCf	54.8 - 64.8	2,850	1,140,000	<56.1	<1.03	21.2	22.5 J+	<0.330	<0.150	168,000	426	<0.840
U4-MW-16S	12/6/2022	N	EM04	UMCf	54.8 - 64.8	<48.0 UJ	988,000	<18.5 UJ	<1.03 UJ	37.5	18.0	<0.190 UJ	<0.150 UJ	136,000	77.3	0.147 J
U4-MW-16S	3/15/2023	N	EM07	UMCf	54.8 - 64.8	<48.0	<594	<56.1	<1.03	61.8	260	<0.330	<0.150	203,000	6.40 J	<0.840
U4-MW-16S	6/13/2023	N	EM10	UMCf	54.8 - 64.8	<48.0	861 J	<56.1	<1.03	72.6	462	<0.330	<0.150	254,000	13.3 J+	<0.840
U4-MW-16S	9/11/2023	N	EM13	UMCf	54.8 - 64.8	<48.0	34,700	<56.1	<1.03	170	183	<0.330	<0.150	86,400	6.78 J	1.28 J
U4-MW-16S	12/11/2023	N	EM16	UMCf	54.8 - 64.8	<48.0 UJ	<594	<56.1	<1.03	194	362	<0.330	<0.150	120,000	4.64 J	1.99 J
U4-MW-16S	3/11/2024	N	EM19	UMCf	54.8 - 64.8	<48.0 UJ	4,560 J	<56.1	<1.03	236	452	<0.330	<0.150	145,000	9.10 J	<0.840
U4-MW-16S	6/17/2024	N	EM20	UMCf	54.8 - 64.8	354	8,750	<56.1	<1.03	208	569	<0.330	<0.150	92,900	2.98 J	2.37 J
U4-MW-16S	9/20/2024	N	EM21	UMCf	54.8 - 64.8	<88.4	166,000	<56.1	<1.03	281	506	<0.190	<0.150	57,500	2.04	<0.0596
U4-SLMW	11/10/2022	N	EM03	-	-	384	221,000	----	----	----	----	----	----	----	----	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Anions by E300.0/SW9065A	Anions by E300.0/SW9065A	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020
						Nitrate (as N)	Sulfate	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-T3	10/13/2022	N	EM02	-	-	----	----	----	----	----	----	----	----	----	----	----
U4-T3	11/3/2022	N	EM03	-	-	----	----	----	----	----	----	----	----	----	----	----
U4-T3	12/6/2022	N	EM04	-	-	----	----	----	----	----	----	----	----	----	----	----
U4-T3	1/9/2023	N	EM05	-	-	----	----	----	----	----	----	----	----	----	----	----
U4-T3	2/13/2023	N	EM06	-	-	----	----	----	----	----	----	----	----	----	----	----
U4-T3	3/13/2023	N	EM07	-	-	14,500	----	----	----	----	----	----	----	----	----	----
U4-T3	4/19/2023	N	EM08	-	-	----	----	----	----	----	----	----	----	----	----	----
U4-T3	5/18/2023	N	EM09	-	-	----	----	----	----	----	----	----	----	----	----	----
U4-T3	6/12/2023	N	EM10	-	-	----	----	----	----	----	----	----	----	----	----	----
U4-T3	7/11/2023	N	EM11	-	-	----	----	----	----	----	----	----	----	----	----	----
U4-T3	8/10/2023	N	EM12	-	-	----	----	----	----	----	----	----	----	----	----	----
U4-T3	9/11/2023	N	EM13	-	-	----	292,000	----	----	----	----	----	----	----	----	----
U4-T3	10/16/2023	N	EM14	-	-	----	----	----	----	----	----	----	----	----	----	----

Notes:
FD - Field duplicate
E - Field instrument error.
J - The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J- - The result is an estimated quantity, but the result may be biased low.
J+ - The result is an estimated quantity, but the result may be biased high.
N/A - Not Applicable
mg/L - milligrams per liter
µg/L - micrograms per liter
N - Normal field sample

R - The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

UMCf- Upper Muddy Creek Formation
< - The analyte was analyzed for, but was not detected above the level of the reported
-- Not tested.
U4-E-08D has been abandoned.
M-252 damaged/obstructed when checked on June 14, 2023 and September 14, 2023.
U4-MW-08S and U4-MW-15S were purged and resampled for EM19 on March 25-26, 2024; Original EM19 samples were collected via bailer due to well condition.
Lab was unable to analyze and report TDS for samples L1782240-20 (U4-E-09I-EM21) and -21 (U4-E-09I-EM21-FD) due to the thickness of the sample matrix.

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020
						Copper	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silver
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
M-247-100	4/20/2022	N	BL02	UMCf	100.5 - 110.5	----	----	----	----	----	----	----	----	----	----	----
M-249-100	4/20/2022	N	BL02	UMCf	99.6 - 109.6	----	----	----	----	----	----	----	----	----	----	----
M-251-100	4/19/2022	N	BL02	UMCf	92.5 - 102.5	----	----	----	----	----	----	----	----	----	----	----
M-251-100	10/13/2022	N	EM02	UMCf	92.5 - 102.5	----	----	----	----	----	----	----	----	----	----	----
M-251-100	11/2/2022	N	EM03	UMCf	92.5 - 102.5	----	----	----	----	----	----	----	----	----	----	----
M-251-100	12/8/2022	N	EM04	UMCf	92.5 - 102.5	----	----	----	----	----	----	----	----	----	----	----
M-251-100	1/11/2023	N	EM05	UMCf	92.5 - 102.5	----	----	----	----	----	----	----	----	----	----	----
M-251-100	2/13/2023	N	EM06	UMCf	92.5 - 102.5	----	----	----	----	----	----	----	----	----	----	----
M-251-100	3/17/2023	N	EM07	UMCf	92.5 - 102.5	<7.55	<18.0	<4.24	235,000	2.11 J	8.60	<4.08	----	33,800	4.45 J	<0.350
M-251-100	4/21/2023	N	EM08	UMCf	92.5 - 102.5	----	----	----	----	----	----	----	----	----	----	----
M-251-100	5/9/2023	N	EM09	UMCf	92.5 - 102.5	----	----	----	----	----	----	----	----	----	----	----
M-251-100	6/14/2023	N	EM10	UMCf	92.5 - 102.5	<7.55	<18.0	<4.24	380,000	3.41 J	7.87	<4.08	----	60,000	4.63 J	<0.350
M-251-100	7/14/2023	N	EM11	UMCf	92.5 - 102.5	----	----	----	----	----	----	----	----	----	----	----
M-251-100	8/10/2023	N	EM12	UMCf	92.5 - 102.5	----	----	----	----	----	----	----	----	----	----	----
M-251-100	9/14/2023	N	EM13	UMCf	92.5 - 102.5	25.0	<18.0	4.50 J	396,000	<0.934	10.2	<4.08	----	53,600	3.17 J	<0.350
M-251-100	10/19/2023	N	EM14	UMCf	92.5 - 102.5	----	----	----	----	----	----	----	----	----	----	----
M-251-100	11/16/2023	N	EM15	UMCf	92.5 - 102.5	----	----	----	----	----	----	----	----	----	----	----
M-251-100	12/12/2023	N	EM16	UMCf	92.5 - 102.5	<15.1	<18.0	<8.49	467,000	34.0	3.50 J	<8.16	----	55,600	3.48 J	<0.700
M-251-100	1/25/2024	N	EM17	UMCf	92.5 - 102.5	----	----	----	----	----	----	----	----	----	----	----
M-251-100	2/13/2024	N	EM18	UMCf	92.5 - 102.5	----	----	----	----	----	----	----	----	----	----	----
M-251-100	3/11/2024	N	EM19	UMCf	92.5 - 102.5	10.8 J	2,910	<4.24	622,000	1,220	9.13	51.6	----	118,000	5.73 J	<0.350
M-251-100	6/17/2024	N	EM20	UMCf	92.5 - 102.5	<15.1	1,490	<8.49	597,000	1,830	17.7	41.4 J+	----	73,600	4.05 J	<0.700
M-251-100	9/23/2024	N	EM21	UMCf	92.5 - 102.5	33.9	819	<4.24	676,000	1,770	14.6 J	27.3	----	66,600	3.99 J	<0.350
M-251-60	4/18/2022	N	BL02	UMCf	52.3 - 62.3	----	----	----	----	----	----	----	----	----	----	----
M-251-60	3/15/2023	N	EM07	UMCf	52.3 - 62.3	1.58 J	<18.0	<0.849	155 J	<0.934	24.2	<0.816	----	31,400	2.90	<0.0700
M-251-60	6/14/2023	N	EM10	UMCf	52.3 - 62.3	2.35 J	<18.0	<0.849	149 J	<0.934	23.4	<0.816	----	18,800	3.26	<0.0700
M-251-60	9/14/2023	N	EM13	UMCf	52.3 - 62.3	1.75 J	<18.0	1.05 J	142 J	2.49 J	21.7	1.01 J	----	24,800	2.73	<0.0700
M-251-60	12/11/2023	N	EM16	UMCf	52.3 - 62.3	2.41 J	30.9 J	<0.849	769 J	13.2	21.9	1.54 J	----	20,200	2.31	<0.0700
M-251-60	3/12/2024	N	EM19	UMCf	52.3 - 62.3	<1.51	33.2 J	<0.849	4,000	21.2	19.1	2.07	----	19,300	0.963 J	<0.0700
M-251-60	6/19/2024	N	EM20	UMCf	52.3 - 62.3	<1.51	34.9 J	<0.849	4,490	65.2	9.18	2.14	----	16,200	<0.300	<0.0700
M-251-60	9/20/2024	N	EM21	UMCf	52.3 - 62.3	<1.51	61.2 J	<0.849	5,110	63.8	9.79	2.38	----	14,000	<0.300	<0.0700
M-252	4/21/2022	N	BL02	UMCf	132.3 - 142.3	----	----	----	----	----	----	----	----	----	----	----
M-252	3/15/2023	N	EM07	UMCf	132.3 - 142.3	1.88 J	44.5 J	<0.849	21,100	21.9	7.34	<0.816	----	23,700	1.89 J	<0.0700
M-252	9/19/2023	N	EM13	UMCf	132.3 - 142.3	<1.51	<18.0	<0.849	22,600	<0.934	5.67	6.46	----	11,600	1.75 J	<0.0700
M-252	12/18/2023	N	EM16	UMCf	132.3 - 142.3	2.73 J	25.9 J	<0.849	32,000	41.6	7.84	0.936 J	----	13,300	1.99 J	<0.0700
M-252	3/12/2024	N	EM19	UMCf	132.3 - 142.3	8.08	<18.0	<0.849	28,900	3.03 J	7.94	0.958 J	----	15,300	1.82 J	<0.0700
M-252	6/19/2024	N	EM20	UMCf	132.3 - 142.3	3.04 J	<18.0	<0.849	21,900	74.4	8.31	1.11 J	----	12,200	1.27 J	<0.0700
M-252	9/24/2024	N	EM21	UMCf	132.3 - 142.3	3.10 J	<18.0	<0.849	16,700	5.58 J	7.83	<0.816	----	8,730	1.86 J	<0.0700
M-253-100	4/20/2022	N	BL02	UMCf	100.8 - 110.8	----	----	----	----	----	----	----	----	----	----	----
M-255-100	4/20/2022	N	BL02	UMCf	100.2 - 110.2	----	----	----	----	----	----	----	----	----	----	----
U4-E-01D	4/18/2022	N	BL02	UMCf	94.7 - 109.7	----	----	----	----	----	----	----	----	----	----	----
U4-E-01D	3/14/2023	N	EM07	UMCf	94.7 - 109.7	2.98 J	<18.0	<0.849	28,500	3.24 J	5.79	1.55 J	----	5,180	2.33 J+	<0.0700
U4-E-01D	6/20/2024	N	EM20	UMCf	94.7 - 109.7	<13.6	5,480	<7.64	878,000	12,500	81.1	36.8	----	536,000	3.31 J	<0.630
U4-E-01D	9/25/2024	N	EM21	UMCf	94.7 - 109.7	13.6 J-	530 J-	<0.849 UJ	840,000 J-	2,290 J-	13.4 J-	12.7 J-	----	446,000 J-	5.28 J-	<0.0700 UJ
U4-E-01I	4/19/2022	N	BL02	UMCf	74.6 - 89.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-01I	4/19/2022	FD	BL02	UMCf	74.6 - 89.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-01I	3/14/2023	N	EM07	UMCf	74.6 - 89.6	<1.51	24.9 J	2.57	183,000	9.17 J	7.93	1.50 J	----	23,900	2.79 J+	<0.0700

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020
						Copper	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silver
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-E-01I	4/20/2023	N	EM08	UMCf	74.6 - 89.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-01I	5/10/2023	N	EM09	UMCf	74.6 - 89.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-01I	6/12/2023	N	EM10	UMCf	74.6 - 89.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-01I	7/11/2023	N	EM11	UMCf	74.6 - 89.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-01I	8/10/2023	N	EM12	UMCf	74.6 - 89.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-01I	9/11/2023	N	EM13	UMCf	74.6 - 89.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-01I	10/16/2023	N	EM14	UMCf	74.6 - 89.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-01I	12/13/2023	N	EM16	UMCf	74.6 - 89.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-01I	1/24/2024	N	EM17	UMCf	74.6 - 89.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-01I	2/14/2024	N	EM18	UMCf	74.6 - 89.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-01I	3/12/2024	N	EM19	UMCf	74.6 - 89.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-01I	6/20/2024	N	EM20	UMCf	74.6 - 89.6	<13.6	12,100	<7.64	495,000	5,440	<1.16	34.7	----	429,000	<2.70	<0.630
U4-E-01I	9/25/2024	N	EM21	UMCf	74.6 - 89.6	9.05 J-	1,740 J-	<0.849 UJ	633,000 J-	1,900 J-	1.78 J	9.27 J-	----	362,000 J-	1.52 J	<0.0700 UJ
U4-E-02D	4/20/2022	N	BL02	UMCf	94.4 - 109.4	----	----	----	----	----	----	----	----	----	----	----
U4-E-02D	3/14/2023	N	EM07	UMCf	94.4 - 109.4	2.84 J	33.4 J	<0.849	28,000	5.58 J	5.60	7.62	----	5,090	2.54 J+	0.250 J
U4-E-02D	6/19/2024	N	EM20	UMCf	94.4 - 109.4	9.02 J	3,510	<4.24	597,000	6,740	<1.16	24.5	----	467,000	3.87 J	<0.350
U4-E-02D	9/27/2024	N	EM21	UMCf	94.4 - 109.4	16.3 J	1,120	<7.64 UJ	543,000	409	44.5 J	19.2 J-	----	421,000	3.90 J	<0.630 UJ
U4-E-02I	4/18/2022	N	BL02	UMCf	74.4 - 89.4	----	----	----	----	----	----	----	----	----	----	----
U4-E-02I	3/14/2023	N	EM07	UMCf	74.4 - 89.4	<1.51	182	<0.849	34,100	25.4	6.14	<0.816	----	7,080	2.28 J+	0.161 J
U4-E-02I	4/20/2023	N	EM08	UMCf	74.4 - 89.4	----	----	----	----	----	----	----	----	----	----	----
U4-E-02I	5/11/2023	N	EM09	UMCf	74.4 - 89.4	----	----	----	----	----	----	----	----	----	----	----
U4-E-02I	6/12/2023	N	EM10	UMCf	74.4 - 89.4	----	----	----	----	----	----	----	----	----	----	----
U4-E-02I	7/11/2023	N	EM11	UMCf	74.4 - 89.4	----	----	----	----	----	----	----	----	----	----	----
U4-E-02I	8/10/2023	N	EM12	UMCf	74.4 - 89.4	----	----	----	----	----	----	----	----	----	----	----
U4-E-02I	9/11/2023	N	EM13	UMCf	74.4 - 89.4	----	----	----	----	----	----	----	----	----	----	----
U4-E-02I	10/16/2023	N	EM14	UMCf	74.4 - 89.4	----	----	----	----	----	----	----	----	----	----	----
U4-E-02I	12/14/2023	N	EM16	UMCf	74.4 - 89.4	----	----	----	----	----	----	----	----	----	----	----
U4-E-02I	1/22/2024	N	EM17	UMCf	74.4 - 89.4	----	----	----	----	----	----	----	----	----	----	----
U4-E-02I	2/13/2024	N	EM18	UMCf	74.4 - 89.4	----	----	----	----	----	----	----	----	----	----	----
U4-E-02I	3/13/2024	N	EM19	UMCf	74.4 - 89.4	----	----	----	----	----	----	----	----	----	----	----
U4-E-02I	6/19/2024	N	EM20	UMCf	74.4 - 89.4	15.0 J	107,000	<4.24	680,000	5,690	14.5 J	92.8	----	203,000	8.07 J	<0.350
U4-E-02I	9/24/2024	N	EM21	UMCf	74.4 - 89.4	16.2 J	57,200	<4.24	811,000	5,050	<1.74	36.7	----	156,000	5.02 J	<0.350
U4-E-03D	4/19/2022	N	BL02	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	----
U4-E-03D	10/13/2022	N	EM02	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	----
U4-E-03D	11/3/2022	N	EM03	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	----
U4-E-03D	12/6/2022	N	EM04	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	----
U4-E-03D	1/9/2023	N	EM05	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	----
U4-E-03D	2/13/2023	N	EM06	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	----
U4-E-03D	3/13/2023	N	EM07	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	----
U4-E-03D	3/14/2023	N	EM07	UMCf	95.1 - 110.1	16.8 J	<18.0	<4.24	190,000	3.76 J	13.1	<4.08	----	39,600	4.70 J	<0.350
U4-E-03D	4/19/2023	N	EM08	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	----
U4-E-03D	5/11/2023	N	EM09	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	----
U4-E-03D	6/12/2023	N	EM10	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	----
U4-E-03D	7/11/2023	N	EM11	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	----
U4-E-03D	8/10/2023	N	EM12	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	----
U4-E-03D	9/11/2023	N	EM13	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	----
U4-E-03D	10/16/2023	N	EM14	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020
						Copper	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silver
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-E-03D	6/10/2024	N	EM20	UMCf	95.1 - 110.1	<1.51	3,580	<0.849	434,000	4,840	3.76 J	22.4	----	352,000	2.97	<0.0700
U4-E-03D	6/10/2024	FD	EM20	UMCf	95.1 - 110.1	<1.51	3,250	<0.849	431,000	4,840	2.68 J	21.8	----	344,000	2.51	<0.0700
U4-E-03D	9/27/2024	N	EM21	UMCf	95.1 - 110.1	19.8 J	3,870	15.9 J	467,000	873	41.3 J	18.3 J-	----	300,000	<2.70 UJ	<0.630 UJ
U4-E-03D	9/27/2024	FD	EM21	UMCf	95.1 - 110.1	13.7 J	4,550	<7.64 UJ	505,000	959	19.4 J	9.94 J	----	329,000	<2.70 UJ	<0.630 UJ
U4-E-04D	4/19/2022	N	BL02	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	----
U4-E-04D	3/14/2023	N	EM07	UMCf	95.0 - 110.0	3.27 J	342	<0.849	27,900	4.47 J	4.87 J	4.33	----	5,050	1.98 J	<0.0700
U4-E-04D	6/20/2024	N	EM20	UMCf	95.0 - 110.0	<13.6	21,600	<7.64	473,000	5,030	<10.4	12.3 J	----	442,000	4.51 J	<0.630
U4-E-04D	9/26/2024	N	EM21	UMCf	95.0 - 110.0	15.6 J	1,830 J-	<7.64 UJ	327,000 J-	169 J-	109 J-	7.38 J	----	314,000 J-	5.15 J	<0.630 UJ
U4-E-04I	4/18/2022	N	BL02	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-E-04I	3/14/2023	N	EM07	UMCf	75.0 - 90.0	<7.55	20.6 J	<4.24	414,000	20.2	13.6	78.0	----	65,500	6.52 J	<0.350
U4-E-04I	6/20/2024	N	EM20	UMCf	75.0 - 90.0	2.86 J	31,600	3.63	396,000	5,340	38.7 J	34.7	----	343,000	3.80	<0.0700
U4-E-04I	9/26/2024	N	EM21	UMCf	75.0 - 90.0	15.4 J	4,790 J-	<7.64 UJ	381,000 J-	983 J-	40.8 J	10.3 J	----	256,000 J-	<2.70 UJ	<0.630 UJ
U4-E-05D	4/19/2022	N	BL02	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	----
U4-E-05D	3/16/2023	N	EM07	UMCf	95.0 - 110.0	3.65 J	23.0 J	<0.849	27,900	253	5.45	7.12	----	5,590	1.43 J	<0.0700
U4-E-05D	6/10/2024	N	EM20	UMCf	95.0 - 110.0	<1.51	3,530	<0.849	147,000	1,990	3.55 J	19.3	----	272,000	3.51	<0.0700
U4-E-05D	9/27/2024	N	EM21	UMCf	95.0 - 110.0	<13.6 UJ	637 J	<7.64 UJ	177,000	194	14.2 J	<7.34 UJ	----	313,000	<2.70 UJ	<0.630 UJ
U4-E-05I	4/19/2022	N	BL02	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-E-05I	3/15/2023	N	EM07	UMCf	75.0 - 90.0	5.23	<18.0	<0.849	28,600	9.92 J	9.77	58.2	----	11,800	1.85 J	<0.0700
U4-E-05I	6/19/2024	N	EM20	UMCf	75.0 - 90.0	<13.6	23,400	<7.64	424,000	5,380	28.7 J	30.6	----	340,000	4.18 J	<0.630
U4-E-05I	9/27/2024	N	EM21	UMCf	75.0 - 90.0	14.1 J	3,280	<7.64 UJ	556,000	609	68.4 J-	33.9 J-	----	342,000	2.86 J	<0.630 UJ
U4-E-06D	4/11/2022	N	BL02	UMCf	95.1 - 110.1	<1.51	<18.0	<0.849	255,000 J	19.9	3.31 J	5.53	25.3 J	32,800 J	2.53	<0.0700
U4-E-06D	6/20/2024	N	EM20	UMCf	95.1 - 110.1	<13.6	6,080	<7.64	154,000	1,020	256	<7.34	----	127,000	4.93 J	<0.630
U4-E-06D	9/27/2024	N	EM21	UMCf	95.1 - 110.1	15.0 J	1,170	<7.64 UJ	408,000	621	35.0 J	12.8 J	----	295,000	<2.70 UJ	<0.630 UJ
U4-E-06I	4/11/2022	N	BL02	UMCf	73.2 - 88.2	2.20 J	<18.0	<0.849	88,400	8.86 J	13.6	<0.816	45.1 J	23,300	2.37	<0.0700
U4-E-06I	4/11/2022	FD	BL02	UMCf	73.2 - 88.2	3.02 J	<18.0	<0.849	87,900	8.46 J	13.9	<0.816	46.2 J	23,200	2.53	<0.0700
U4-E-06I	10/12/2022	N	EM02	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	----
U4-E-06I	11/3/2022	N	EM03	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	----
U4-E-06I	12/6/2022	N	EM04	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	----
U4-E-06I	1/9/2023	N	EM05	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	----
U4-E-06I	2/13/2023	N	EM06	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	----
U4-E-06I	3/13/2023	N	EM07	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	----
U4-E-06I	4/17/2023	N	EM08	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	----
U4-E-06I	5/15/2023	N	EM09	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	----
U4-E-06I	6/12/2023	N	EM10	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	----
U4-E-06I	7/11/2023	N	EM11	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	----
U4-E-06I	8/11/2023	N	EM12	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	----
U4-E-06I	9/11/2023	N	EM13	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	----
U4-E-06I	10/16/2023	N	EM14	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	----
U4-E-06I	12/13/2023	N	EM16	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	----
U4-E-06I	1/22/2024	N	EM17	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	----
U4-E-06I	2/13/2024	N	EM18	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	----
U4-E-06I	3/11/2024	N	EM19	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	----
U4-E-06I	6/11/2024	N	EM20	UMCf	73.2 - 88.2	<7.55	456	<4.24	251,000	618	16.8	25.5	----	49,300	<1.50	<0.350
U4-E-06I	9/27/2024	N	EM21	UMCf	73.2 - 88.2	23.8	1,190	<0.849	271,000	652	11.2	12.7	----	44,000	0.446 J	<0.0700
U4-E-07D	4/12/2022	N	BL02	UMCf	94.6 - 109.6	<15.1	<90.0	<8.49	634,000	22.5 J	8.85 J	<8.16	<91.5	74,800	9.10 J	<0.700
U4-E-07D	6/20/2024	N	EM20	UMCf	94.6 - 109.6	8.33	653	<0.849	238,000	2,170	228	41.3	----	99,300	3.58	<0.0700
U4-E-07D	9/26/2024	N	EM21	UMCf	94.6 - 109.6	29.0	419	<0.849	275,000	2,150	166	39.5	----	93,800	1.99 J	<0.0700

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020
						Copper	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silver
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-E-07I	4/12/2022	N	BL02	UMCf	74.7 - 89.7	2.99 J	<18.0	<0.849	66,000	8.86 J	18.0	1.14 J	194 J	23,400	3.34	<0.0700
U4-E-07I	10/11/2022	N	EM02	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	----
U4-E-07I	11/3/2022	N	EM03	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	----
U4-E-07I	12/6/2022	N	EM04	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	----
U4-E-07I	1/9/2023	N	EM05	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	----
U4-E-07I	2/13/2023	N	EM06	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	----
U4-E-07I	3/13/2023	N	EM07	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	----
U4-E-07I	4/19/2023	N	EM08	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	----
U4-E-07I	5/15/2023	N	EM09	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	----
U4-E-07I	6/12/2023	N	EM10	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	----
U4-E-07I	7/11/2023	N	EM11	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	----
U4-E-07I	8/11/2023	N	EM12	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	----
U4-E-07I	9/11/2023	N	EM13	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	----
U4-E-07I	10/16/2023	N	EM14	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	----
U4-E-07I	12/13/2023	N	EM16	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	----
U4-E-07I	1/23/2024	N	EM17	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	----
U4-E-07I	2/13/2024	N	EM18	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	----
U4-E-07I	3/11/2024	N	EM19	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	----
U4-E-07I	6/11/2024	N	EM20	UMCf	74.7 - 89.7	<7.55	<18.0	<4.24	225,000	88.9	18.2	<4.08	----	44,600	2.63 J	<0.350
U4-E-07I	9/26/2024	N	EM21	UMCf	74.7 - 89.7	28.3 J+	<18.0	<4.24	192,000	85.3	15.9 J	9.29 J	----	36,400	3.04 J	<0.350
U4-E-08D	4/12/2022	N	BL02	UMCf	94.6 - 109.6	<15.1	<90.0	<8.49	737,000	54.7	10.2 J	<8.16	<91.5	82,200	7.15 J	<0.700
U4-E-08D	10/11/2022	N	EM02	UMCf	94.6 - 109.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-08D	11/3/2022	N	EM03	UMCf	94.6 - 109.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-08D	12/6/2022	N	EM04	UMCf	94.6 - 109.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-08D	1/9/2023	N	EM05	UMCf	94.6 - 109.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-08D	2/13/2023	N	EM06	UMCf	94.6 - 109.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-08D	3/13/2023	N	EM07	UMCf	94.6 - 109.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-08D	4/19/2023	N	EM08	UMCf	94.6 - 109.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-08D	5/17/2023	N	EM09	UMCf	94.6 - 109.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-08D	6/12/2023	N	EM10	UMCf	94.6 - 109.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-08D	7/11/2023	N	EM11	UMCf	94.6 - 109.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-09D	4/15/2022	N	BL02	UMCf	94.5 - 109.5	<15.1	18.8 J	<8.49	360,000	23.2	<5.80	<8.16	172 J	46,900	3.01 J	<0.700
U4-E-09D	6/10/2024	N	EM20	UMCf	94.5 - 109.5	<7.55	26,900	<4.24	413,000	4,310	4.41 J	18.0	----	387,000	3.29 J	<0.350
U4-E-09D	9/27/2024	N	EM21	UMCf	94.5 - 109.5	24.0 J	554	<7.64 UJ	60,100	116	31.5 J	9.13 J	----	39,000	<2.70 UJ	<0.630 UJ
U4-E-09I	4/14/2022	N	BL02	UMCf	74.9 - 89.9	6.53	<18.0	<0.849	91,600	21.6	13.2	2.61	199 J	25,300	2.47	<0.0700
U4-E-09I	6/10/2024	N	EM20	UMCf	74.9 - 89.9	<7.55	1,410	<4.24	348,000	3,380	5.62	38.9	----	408,000	4.58 J	<0.350
U4-E-09I	6/10/2024	FD	EM20	UMCf	74.9 - 89.9	<7.55	1,130	<4.24	342,000	3,300	6.83	43.3	----	404,000	3.92 J	<0.350
U4-E-09I	9/26/2024	N	EM21	UMCf	74.9 - 89.9	----	----	----	----	----	----	----	----	----	----	----
U4-E-09I	9/26/2024	FD	EM21	UMCf	74.9 - 89.9	----	----	----	----	----	----	----	----	----	----	----
U4-E-10D	4/13/2022	N	BL02	UMCf	94.5 - 109.5	<1.51	<18.0	<0.849	165,000	7.51 J	8.19	20.5	34.0 J	29,700	2.51	<0.0700
U4-E-10D	6/19/2024	N	EM20	UMCf	94.5 - 109.5	96.7	32,800	<4.24	679,000	5,990	15.1	25.4	----	417,000	5.93 J	<0.350
U4-E-10D	9/25/2024	N	EM21	UMCf	94.5 - 109.5	17.5	<18.0	<0.849	141,000	706	21.8	4.39	----	30,300	2.87	<0.0700
U4-E-10I	4/13/2022	N	BL02	UMCf	74.2 - 89.2	4.02 J	<18.0	<0.849	133,000	7.93 J	11.6	2.29	<18.3	26,000	2.58	<0.0700
U4-E-10I	6/11/2024	N	EM20	UMCf	74.2 - 89.2	2.49 J	13,600	<0.849	294,000	3,060	19.3	41.3	----	408,000	4.45	<0.0700
U4-E-10I	9/26/2024	N	EM21	UMCf	74.2 - 89.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-01D	4/19/2022	N	BL02	UMCf	96.7 - 106.7	----	----	----	----	----	----	----	----	----	----	----
U4-MW-01D	2/16/2023	N	EM06	UMCf	96.7 - 106.7	----	----	----	----	----	----	----	----	----	----	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020
						Copper	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silver
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-01D	3/20/2023	N	EM07	UMCf	96.7 - 106.7	6.39	<18.0	<0.849	62,300	<0.934	<1.16	<0.816	----	5,630	3.03	<0.0700
U4-MW-01D	6/13/2023	N	EM10	UMCf	96.7 - 106.7	<15.1	<18.0	<8.49	240,000 J+	2.25 J	5.02 J+	<8.16	----	26,500	148	<0.700
U4-MW-01D	9/14/2023	N	EM13	UMCf	96.7 - 106.7	8.15 J	<18.0	<4.24	230,000	3.88 J	4.70 J	<4.08	----	27,600	1.74 J	<0.350
U4-MW-01D	12/14/2023	N	EM16	UMCf	96.7 - 106.7	8.30 J	<18.0	<4.24	222,000	1.48 J	1.41 J	<4.08	----	27,600	2.49 J	<0.350
U4-MW-01D	3/13/2024	N	EM19	UMCf	96.7 - 106.7	<7.55	<18.0	<4.24	239,000	6.51 J	5.12	<4.08	----	26,900	1.71 J	<0.350
U4-MW-01D	6/18/2024	N	EM20	UMCf	96.7 - 106.7	<1.51	25.2 J	<0.849	222,000	6.81 J	2.38 J	<0.816	----	26,500	2.26	<0.0700
U4-MW-01D	9/19/2024	N	EM21	UMCf	96.7 - 106.7	<7.55	31.7 J	<4.24	229,000	4.49 J	1.96 J	<4.08	----	27,100	2.26 J	<0.350
U4-MW-01DD	4/19/2022	N	BL02	UMCf	119.9 - 129.9	----	----	----	----	----	----	----	----	----	----	----
U4-MW-01DD	4/19/2022	FD	BL02	UMCf	119.9 - 129.9	----	----	----	----	----	----	----	----	----	----	----
U4-MW-01DD	3/15/2023	N	EM07	UMCf	119.9 - 129.9	3.13 J	<18.0	<0.849	125,000	11.3 J+	6.64	<0.816	----	21,800	1.92 J	<0.0700
U4-MW-01DD	6/13/2023	N	EM10	UMCf	119.9 - 129.9	<15.1	<18.0	<8.49	108,000 J+	3.52 J	3.58 J	<8.16	----	23,300	82.9	<0.700
U4-MW-01DD	9/14/2023	N	EM13	UMCf	119.9 - 129.9	<1.51	<18.0	<0.849	126,000	8.70 J	5.18	<0.816	----	25,300	2.05	<0.0700
U4-MW-01DD	12/15/2023	N	EM16	UMCf	119.9 - 129.9	<1.51	<18.0	<0.849	76,100	8.30 J	5.29	1.75 J	----	16,100	2.07	<0.0700
U4-MW-01DD	3/12/2024	N	EM19	UMCf	119.9 - 129.9	<1.51	21.1 J	<0.849	80,800	4.82 J	6.42	<0.816	----	16,300	2.12	<0.0700
U4-MW-01DD	6/18/2024	N	EM20	UMCf	119.9 - 129.9	<1.51	<18.0	<0.849	68,100	8.80 J	4.87 J	<0.816	----	15,400	1.96 J	<0.0700
U4-MW-01DD	9/20/2024	N	EM21	UMCf	119.9 - 129.9	<1.51	<18.0	<0.849	56,900	3.55 J	5.64	<0.816	----	13,200	1.56 J	<0.0700
U4-MW-01I	4/19/2022	N	BL02	UMCf	76.7 - 86.7	----	----	----	----	----	----	----	----	----	----	----
U4-MW-01I	3/20/2023	N	EM07	UMCf	76.7 - 86.7	7.21	<18.0	1.06 J	85,700	4.20 J	<1.16	<0.816	----	7,270	3.38	0.146 J
U4-MW-01I	6/12/2023	N	EM10	UMCf	76.7 - 86.7	4.18 J	<18.0 UJ	<0.849	252,000	1.32 J	5.17	2.49	----	27,400	2.52	<0.0700
U4-MW-01I	9/14/2023	N	EM13	UMCf	76.7 - 86.7	8.54 J	32.0 J	<4.24	304,000	1.96 J	5.64	<4.08	----	31,100	2.68 J	<0.350
U4-MW-01I	12/15/2023	N	EM16	UMCf	76.7 - 86.7	8.11	3,360	<8.49	426,000	178	<1.16	11.1	----	35,700	3.03	0.562 J
U4-MW-01I	3/13/2024	N	EM19	UMCf	76.7 - 86.7	<7.55	<18.0	<4.24	432,000	5.75 J	7.31	<4.08	----	38,700	1.98 J	<0.350
U4-MW-01I	6/18/2024	N	EM20	UMCf	76.7 - 86.7	<1.51	35.9 J	<0.849	354,000	14.5	4.21 J	<0.816	----	37,400	2.30	<0.0700
U4-MW-01I	9/19/2024	N	EM21	UMCf	76.7 - 86.7	<7.55	<90.0	<4.24	353,000	11.8 J	2.42 J	<4.08	----	33,900	3.21 J	<0.350
U4-MW-01S	4/18/2022	N	BL02	UMCf	54.7 - 64.7	----	----	----	----	----	----	----	----	----	----	----
U4-MW-01S	3/15/2023	N	EM07	UMCf	54.7 - 64.7	5.26	66.4 J	<0.849	4,240	<0.934	24.4	<0.816	----	17,500	2.64	<0.0700
U4-MW-01S	6/13/2023	N	EM10	UMCf	54.7 - 64.7	<1.51	43.8 J	<0.849	3,920 J+	82.4	24.6	172	----	18,800	3.01	<0.0700
U4-MW-01S	9/15/2023	N	EM13	UMCf	54.7 - 64.7	<1.51	<18.0	<0.849	4,790	0.987 J	26.5	<0.816	----	19,300	2.67	<0.0700
U4-MW-01S	12/13/2023	N	EM16	UMCf	54.7 - 64.7	<1.51	<18.0	<0.849	3,970	<0.934	22.8	<0.816	----	16,800	1.85 J	<0.0700
U4-MW-01S	3/13/2024	N	EM19	UMCf	54.7 - 64.7	<1.51	<18.0	1.79 J	5,050	3.03 J	25.9	1.40 J	----	16,000	1.08 J	<0.0700
U4-MW-01S	6/18/2024	N	EM20	UMCf	54.7 - 64.7	<1.51	<18.0	<0.849	3,120	6.28 J	22.6	1.29 J	----	15,000	0.454 J	<0.0700
U4-MW-01S	9/20/2024	N	EM21	UMCf	54.7 - 64.7	<1.51	82.6 J	<0.849	5,860	76.7	18.5	2.16	----	13,600	<0.300	<0.0700
U4-MW-02D	4/14/2022	N	BL02	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02D	10/11/2022	N	EM02	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02D	11/1/2022	N	EM03	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02D	12/7/2022	N	EM04	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02D	1/10/2023	N	EM05	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02D	2/13/2023	N	EM06	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02D	3/17/2023	N	EM07	UMCf	95.0 - 110.0	<15.1	<18.0	<8.49	636,000	5.23 J	16.0	<8.16	----	94,100	7.47 J	1.64 J
U4-MW-02D	4/19/2023	N	EM08	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02D	5/9/2023	N	EM09	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02D	6/13/2023	N	EM10	UMCf	95.0 - 110.0	<15.1	<90.0	<8.49	599,000 J+	4.80 J	14.7 J	<8.16	----	82,700	51.6	0.800 J
U4-MW-02D	7/18/2023	N	EM11	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02D	8/14/2023	N	EM12	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02D	9/11/2023	N	EM13	UMCf	95.0 - 110.0	<30.2	27.3 J	<17.0	525,000	3.39 J	16.4	<16.3	----	110,000	6.05 J	<1.40
U4-MW-02D	10/19/2023	N	EM14	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02D	11/15/2023	N	EM15	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020
						Copper	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silver
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-02D	12/14/2023	N	EM16	UMCf	95.0 - 110.0	69.6 J	<18.0	<17.0	560,000	12.7	7.97	<16.3	----	101,000	<6.00	<1.40
U4-MW-02D	1/25/2024	N	EM17	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02D	2/12/2024	N	EM18	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02D	3/13/2024	N	EM19	UMCf	95.0 - 110.0	<15.1	<18.0	<8.49	600,000	7.50 J	16.4	<8.16	----	87,200	3.46 J	<0.700
U4-MW-02D	6/17/2024	N	EM20	UMCf	95.0 - 110.0	<15.1	<18.0	<8.49	469,000	49.7	13.2	<8.16	----	74,600	4.57 J	<0.700
U4-MW-02D	9/23/2024	N	EM21	UMCf	95.0 - 110.0	69.1	<18.0	<8.49	576,000	20.1	6.16 J	<8.16	----	86,000	5.54 J	<0.700
U4-MW-02I	4/14/2022	N	BL02	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	10/11/2022	N	EM02	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	11/2/2022	N	EM03	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	11/2/2022	FD	EM03	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	12/8/2022	N	EM04	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	12/8/2022	FD	EM04	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	1/13/2023	N	EM05	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	1/13/2023	FD	EM05	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	2/15/2023	N	EM06	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	2/15/2023	FD	EM06	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	3/17/2023	N	EM07	UMCf	75.0 - 90.0	<7.55	<18.0	<4.24	294,000	221	23.4	103	----	73,000	6.92 J	<0.350
U4-MW-02I	3/17/2023	FD	EM07	UMCf	75.0 - 90.0	<7.55	<18.0	<4.24	289,000	229	23.8	99.2	----	71,300	4.91 J	<0.350
U4-MW-02I	4/20/2023	N	EM08	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	4/20/2023	FD	EM08	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	5/9/2023	N	EM09	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	5/9/2023	FD	EM09	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	6/12/2023	N	EM10	UMCf	75.0 - 90.0	4.33 J	236 J+	<0.849 UJ	82,700	972	7.65	46.0	----	19,000	0.654 J	<0.0700
U4-MW-02I	6/12/2023	FD	EM10	UMCf	75.0 - 90.0	7.48	214 J+	4.08 J	79,800	943	7.12	46.1	----	18,400	0.552 J	<0.0700
U4-MW-02I	7/18/2023	N	EM11	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	7/18/2023	FD	EM11	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	8/11/2023	N	EM12	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	8/11/2023	FD	EM12	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	9/11/2023	N	EM13	UMCf	75.0 - 90.0	<7.55	322	<4.24	202,000	2,330	22.4	104	----	34,700	<1.50	<0.350
U4-MW-02I	9/11/2023	FD	EM13	UMCf	75.0 - 90.0	<7.55	346	4.25 J	199,000	2,310	20.9	105	----	34,000	1.65 J	<0.350
U4-MW-02I	10/19/2023	N	EM14	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	10/19/2023	FD	EM14	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	11/15/2023	N	EM15	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	11/15/2023	FD	EM15	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	12/14/2023	N	EM16	UMCf	75.0 - 90.0	44.1 J	<18.0	<8.49	223,000	984	15.3	123	----	59,000	3.15 J	<0.700
U4-MW-02I	12/14/2023	FD	EM16	UMCf	75.0 - 90.0	41.2	<18.0	<4.24	221,000	983	14.9	116	----	58,700	2.20 J	<0.350
U4-MW-02I	1/25/2024	N	EM17	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	1/25/2024	FD	EM17	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	2/12/2024	N	EM18	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	2/12/2024	FD	EM18	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	3/13/2024	N	EM19	UMCf	75.0 - 90.0	<15.1	<18.0	<8.49	367,000	1,350	23.4	153	----	65,300	<3.00	<0.700
U4-MW-02I	3/13/2024	FD	EM19	UMCf	75.0 - 90.0	<15.1	<18.0	<8.49	369,000	1,370	23.0	152	----	66,600	3.91 J	<0.700
U4-MW-02I	6/17/2024	N	EM20	UMCf	75.0 - 90.0	<7.55	18.5 J	<4.24	173,000	763	26.8	91.9	----	38,200	<1.50	<0.350
U4-MW-02I	6/17/2024	FD	EM20	UMCf	75.0 - 90.0	<7.55	29.6 J	<4.24	174,000	722	25.9	85.5	----	40,200	<1.50	<0.350
U4-MW-02I	9/23/2024	N	EM21	UMCf	75.0 - 90.0	33.5	22.3 J	<4.24	205,000	667	33.2	57.1	----	46,400	1.94 J	<0.350
U4-MW-02I	9/23/2024	FD	EM21	UMCf	75.0 - 90.0	31.0	30.9 J	<4.24	207,000	712	35.3	57.0	----	46,200	1.91 J	<0.350
U4-MW-03D	4/20/2022	N	BL02	UMCf	96.6 - 106.6	----	----	----	----	----	----	----	----	----	----	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020
						Copper	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silver
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-03D	2/16/2023	N	EM06	UMCf	96.6 - 106.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-03D	3/16/2023	N	EM07	UMCf	96.6 - 106.6	<7.55	<18.0	<4.24	369,000	8.20 J	4.49 J	<4.08	----	35,900	1.88 J	<0.350
U4-MW-03D	3/16/2023	FD	EM07	UMCf	96.6 - 106.6	<7.55	<18.0	4.90 J	369,000	2.65 J	5.12	<4.08	----	35,900	3.11 J	<0.350
U4-MW-03D	6/15/2023	N	EM10	UMCf	96.6 - 106.6	<7.55	<18.0	<4.24	332,000	1.55 J	4.90 J	<4.08	----	36,600	3.02 J	<0.350
U4-MW-03D	9/14/2023	N	EM13	UMCf	96.6 - 106.6	17.8 J	<18.0	<4.24	354,000	<0.934	6.42	<4.08	----	39,000	2.48 J	<0.350
U4-MW-03D	12/13/2023	N	EM16	UMCf	96.6 - 106.6	23.1 J	18.9 J	<4.24	386,000	44.3	<1.16	<4.08	----	38,000	2.72 J	<0.350
U4-MW-03D	3/15/2024	N	EM19	UMCf	96.6 - 106.6	<1.51	<18.0	<0.849	348,000	281	2.18 J	39.3	----	34,700	1.40 J	<0.0700
U4-MW-03D	6/17/2024	N	EM20	UMCf	96.6 - 106.6	4.56 J	<18.0	<0.849	408,000	227	1.94 J	4.31 J+	----	37,700	2.05	<0.0700
U4-MW-03D	9/18/2024	N	EM21	UMCf	96.6 - 106.6	4.22 J	<18.0	<0.849	419,000	289	2.77 J	5.42	----	37,000	2.34	<0.0700
U4-MW-03DD	4/20/2022	N	BL02	UMCf	119.7 - 129.7	----	----	----	----	----	----	----	----	----	----	----
U4-MW-03DD	3/15/2023	N	EM07	UMCf	119.7 - 129.7	<1.51	<18.0	<0.849	16,400	3.34 J	8.98	<0.816	----	6,600	1.83 J	<0.0700
U4-MW-03DD	6/15/2023	N	EM10	UMCf	119.7 - 129.7	<1.51	<18.0	<0.849	16,600	1.74 J	8.83 J+	1.35 J	----	6,690	1.57 J	<0.0700
U4-MW-03DD	9/14/2023	N	EM13	UMCf	119.7 - 129.7	<1.51	83.8 J	<0.849	16,000	3.27 J	8.47	1.26 J	----	6,230	1.36 J	<0.0700
U4-MW-03DD	12/14/2023	N	EM16	UMCf	119.7 - 129.7	<1.51	58.4 J	<0.849	16,500	8.00 J	8.15	<0.816	----	6,760	1.42 J	<0.0700
U4-MW-03DD	3/14/2024	N	EM19	UMCf	119.7 - 129.7	3.61 J	<18.0	<0.849	17,500	4.16 J	7.48	<0.816	----	6,740	1.38 J	<0.0700
U4-MW-03DD	6/17/2024	N	EM20	UMCf	119.7 - 129.7	<1.51	<18.0	<0.849	16,900	5.37 J	8.78	1.80 J	----	6,660	0.792 J	<0.0700
U4-MW-03DD	9/18/2024	N	EM21	UMCf	119.7 - 129.7	<1.51	<18.0	<0.849	16,400	2.51 J	8.96	<0.816	----	6,250	1.29 J	<0.0700
U4-MW-03I	4/19/2022	N	BL02	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-03I	3/15/2023	N	EM07	UMCf	76.6 - 86.6	<1.51	<18.0	<0.849	325,000	5.11 J	5.12	<0.816	----	37,100	2.88 J+	0.0987 J
U4-MW-03I	6/14/2023	N	EM10	UMCf	76.6 - 86.6	<7.55	<18.0	<4.24	274,000	1.63 J	6.28	<4.08	----	36,500	3.33 J	<0.350
U4-MW-03I	6/14/2023	FD	EM10	UMCf	76.6 - 86.6	<7.55	<18.0	<4.24	284,000	1.57 J	7.16	<4.08	----	38,100	3.25 J	<0.350
U4-MW-03I	9/11/2023	N	EM13	UMCf	76.6 - 86.6	9.56 J	5,590	9.18 J	458,000	416	3.18 J	8.15 J	----	43,500	2.90 J	0.501 J
U4-MW-03I	9/11/2023	FD	EM13	UMCf	76.6 - 86.6	9.01 J	4,580	10.3 J+	434,000	312	3.98 J	7.49 J	----	42,700	2.59 J	0.414 J
U4-MW-03I	12/13/2023	N	EM16	UMCf	76.6 - 86.6	20.7 J	<18.0	<4.24	379,000	66.5	2.36 J	<4.08	----	39,300	2.39 J	<0.350
U4-MW-03I	12/13/2023	FD	EM16	UMCf	76.6 - 86.6	20.7 J	<18.0	<4.24	381,000	67.8	2.21 J	<4.08	----	38,600	2.81 J	<0.350
U4-MW-03I	3/14/2024	N	EM19	UMCf	76.6 - 86.6	<7.55	<18.0	<4.24	369,000	214	2.76 J	<4.08	----	36,400	3.48 J	<0.350
U4-MW-03I	3/14/2024	FD	EM19	UMCf	76.6 - 86.6	<7.55	<18.0	<4.24	370,000	221	3.33 J	<4.08	----	36,600	3.25 J	<0.350
U4-MW-03I	6/19/2024	N	EM20	UMCf	76.6 - 86.6	5.74	<18.0	<0.849	325,000	1,100	8.57	15.4	----	31,600	1.02 J	<0.0700
U4-MW-03I	6/19/2024	FD	EM20	UMCf	76.6 - 86.6	6.62	<18.0	<0.849	327,000	1,040	7.56	15.4	----	31,800	0.900 J	<0.0700
U4-MW-03I	9/20/2024	N	EM21	UMCf	76.6 - 86.6	<1.51	2,220	<0.849	177,000	2,140	2.59 J	11.5	----	24,600	<0.300	<0.0700
U4-MW-03I	9/20/2024	FD	EM21	UMCf	76.6 - 86.6	<1.51	53.8 J	<0.849	4,390	51.5	10.3	2.51	----	13,800	<0.300	<0.0700
U4-MW-03S	4/18/2022	N	BL02	UMCf	54.5 - 64.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-03S	4/18/2022	FD	BL02	UMCf	54.5 - 64.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-03S	3/15/2023	N	EM07	UMCf	54.5 - 64.5	<1.51	<18.0	<0.849	584 J	3.04 J	20.8	<0.816	----	11,100	3.27 J+	<0.0700
U4-MW-03S	6/15/2023	N	EM10	UMCf	54.5 - 64.5	<1.51	<18.0	<0.849	16,800	<0.934	21.4	<0.816	----	12,000	2.90	<0.0700
U4-MW-03S	9/14/2023	N	EM13	UMCf	54.5 - 64.5	<1.51	<18.0	1.51 J	1,230	1.29 J	26.2	1.23 J	----	10,400	2.07	<0.0700
U4-MW-03S	12/13/2023	N	EM16	UMCf	54.5 - 64.5	<1.51	51.2 J	<0.849	1,140	11.7	36.9	2.77 J+	----	10,700	2.28	<0.0700
U4-MW-03S	3/14/2024	N	EM19	UMCf	54.5 - 64.5	16.9	59.0 J	<0.849	1,170	23.2	37.1	2.92	----	10,700	0.989 J	<0.0700
U4-MW-03S	6/14/2024	N	EM20	UMCf	54.5 - 64.5	<1.51	<18.0	<0.849	1,230	3.06 J	44.2	2.12	----	11,500	0.480 J	<0.0700
U4-MW-03S	9/18/2024	N	EM21	UMCf	54.5 - 64.5	<1.51	31.9 J	<0.849	1,390	8.84 J	51.5	4.34	----	10,200	0.485 J	<0.0700
U4-MW-04D	4/19/2022	N	BL02	UMCf	97.0 - 107.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-04D	2/16/2023	N	EM06	UMCf	97.0 - 107.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-04D	3/21/2023	N	EM07	UMCf	97.0 - 107.0	<1.51	<18.0	<0.849	23,700	1.08 J	<1.16	<0.816	----	2,920	2.08	<0.0700
U4-MW-04D	6/14/2023	N	EM10	UMCf	97.0 - 107.0	<7.55	<18.0	<4.24	92,600	8.64 J	3.74 J	<4.08	----	16,200	2.08 J	<0.350
U4-MW-04D	9/15/2023	N	EM13	UMCf	97.0 - 107.0	8.84 J	<18.0	<4.24	164,000	73.2	5.53	<4.08	----	23,500	1.70 J	<0.350
U4-MW-04D	12/12/2023	N	EM16	UMCf	97.0 - 107.0	15.1 J	56.9 J	<4.24	137,000	112	4.66 J	<4.08	----	20,200	1.89 J	<0.350
U4-MW-04D	3/12/2024	N	EM19	UMCf	97.0 - 107.0	33.5	26.0 J	<4.24	218,000	233	3.98 J	7.70 J	----	25,600	<1.50	<0.350

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020
						Copper	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silver
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-04D	6/19/2024	N	EM20	UMCf	97.0 - 107.0	<7.55	<18.0	<4.24	317,000	307	6.45	5.89 J	----	31,300	1.61 J	<0.350
U4-MW-04D	9/24/2024	N	EM21	UMCf	97.0 - 107.0	27.1	<18.0	<4.24	420,000	248	3.65 J	6.94 J	----	38,900	3.00 J	<0.350
U4-MW-04I	4/19/2022	N	BL02	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-04I	3/20/2023	N	EM07	UMCf	76.8 - 86.8	19.3 J	<18.0	<4.24	71,500	<0.934	1.55 J	<4.08	----	6,810	2.95 J	<0.350
U4-MW-04I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<7.55	<18.0	<4.24	256,000	17.1	3.55 J	<4.08	----	34,800	4.23 J	<0.350
U4-MW-04I	9/14/2023	N	EM13	UMCf	76.8 - 86.8	37.7 J	<18.0	<8.49	607,000	10.7	9.54	<8.16	----	60,900	4.06 J	<0.700
U4-MW-04I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	<30.2	<18.0	<17.0	586,000	26.2	4.68 J	<16.3	----	64,900	7.66 J	<1.40
U4-MW-04I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	94.9	<18.0	<8.49	615,000	14.6	8.26	8.56 J	----	67,600	3.88 J	<0.700
U4-MW-04I	6/18/2024	N	EM20	UMCf	76.8 - 86.8	<15.1	64.0 J	<8.49	698,000	25.3	4.84 J	<8.16	----	79,300	3.48 J	<0.700
U4-MW-04I	9/24/2024	N	EM21	UMCf	76.8 - 86.8	47.5 J	<18.0	<8.49	677,000	21.8	<3.48	<8.16	----	71,300	5.48 J	<0.700
U4-MW-05D	4/15/2022	N	BL02	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05D	10/13/2022	N	EM02	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05D	11/3/2022	N	EM03	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05D	12/7/2022	N	EM04	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05D	1/11/2023	N	EM05	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05D	2/14/2023	N	EM06	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05D	3/16/2023	N	EM07	UMCf	98.2 - 108.2	<7.55	<18.0	<4.24	129,000	2.45 J	15.8	<4.08	----	34,300	<1.50	<0.350
U4-MW-05D	4/20/2023	N	EM08	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05D	5/10/2023	N	EM09	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05D	6/15/2023	N	EM10	UMCf	98.2 - 108.2	<7.55	<18.0	<4.24	108,000	432	17.0	6.24 J	----	26,000	2.13 J	<0.350
U4-MW-05D	7/18/2023	N	EM11	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05D	8/14/2023	N	EM12	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05D	9/12/2023	N	EM13	UMCf	98.2 - 108.2	<1.51	<18.0	<0.849	137,000	714	12.0	7.62	----	27,000	0.894 J	<0.0700
U4-MW-05D	10/18/2023	N	EM14	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05D	11/16/2023	N	EM15	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05D	12/14/2023	N	EM16	UMCf	98.2 - 108.2	23.2 J	805	<4.24	244,000	3,220	15.7	188	----	36,500	1.55 J	<0.350
U4-MW-05D	1/26/2024	N	EM17	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05D	2/14/2024	N	EM18	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05D	3/12/2024	N	EM19	UMCf	98.2 - 108.2	62.7	178	<4.24	427,000	3,360	14.7	24.6	----	47,900	<1.50	<0.350
U4-MW-05D	6/18/2024	N	EM20	UMCf	98.2 - 108.2	<15.1	51.7 J	<8.49	488,000	3,320	27.7	18.8 J	----	70,100	<3.00	<0.700
U4-MW-05D	9/25/2024	N	EM21	UMCf	98.2 - 108.2	49.6 J	<18.0	<8.49	482,000	2,360	27.8 J	11.6 J	----	62,400	4.04 J	<0.700
U4-MW-05I	4/15/2022	N	BL02	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05I	10/13/2022	N	EM02	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05I	11/3/2022	N	EM03	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05I	12/8/2022	N	EM04	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05I	1/11/2023	N	EM05	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05I	2/14/2023	N	EM06	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05I	3/14/2023	N	EM07	UMCf	76.6 - 86.6	<7.55	490	<4.24	117,000	9.99 J	22.5	<4.08	----	36,600	3.42 J	<0.350
U4-MW-05I	4/21/2023	N	EM08	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05I	5/10/2023	N	EM09	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05I	6/15/2023	N	EM10	UMCf	76.6 - 86.6	<1.51	742	<0.849	81,600	609	4.70 J	11.8	----	20,900	0.461 J	<0.0700
U4-MW-05I	7/17/2023	N	EM11	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05I	8/14/2023	N	EM12	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05I	9/13/2023	N	EM13	UMCf	76.6 - 86.6	10.7 J	<18.0	6.99 J	166,000	470	59.2	17.3	----	33,200	<1.50	<0.350
U4-MW-05I	10/18/2023	N	EM14	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05I	11/15/2023	N	EM15	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05I	12/12/2023	N	EM16	UMCf	76.6 - 86.6	27.7 J	115	<8.49	228,000	474	13.2	30.1 J+	----	36,800	<3.00	<0.700

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020
						Copper	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silver
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-05I	1/26/2024	N	EM17	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05I	2/14/2024	N	EM18	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05I	3/11/2024	N	EM19	UMCf	76.6 - 86.6	<7.55	230	<4.24	361,000	1,260	16.7	107	----	52,400	2.18 J	<0.350
U4-MW-05I	6/18/2024	N	EM20	UMCf	76.6 - 86.6	<15.1	43.2 J	<8.49	497,000	990	16.1	13.5 J	----	70,000	3.05 J	<0.700
U4-MW-05I	9/25/2024	N	EM21	UMCf	76.6 - 86.6	49.8 J	18.6 J	<8.49	481,000	902	19.0 J	11.5 J	----	56,400	4.71 J	<0.700
U4-MW-06D	4/19/2022	N	BL02	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-06D	2/15/2023	N	EM06	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-06D	3/21/2023	N	EM07	UMCf	97.1 - 107.1	<1.51	<18.0	<0.849	62,500	1.26 J	<1.16	<0.816	----	7,760	3.38	0.293 J
U4-MW-06D	6/16/2023	N	EM10	UMCf	97.1 - 107.1	18.1 J	<18.0	<4.24	370,000	10.4	6.49	<4.08	----	47,800	2.38 J	<0.350
U4-MW-06D	9/13/2023	N	EM13	UMCf	97.1 - 107.1	15.7 J	20.9 J	<4.24	455,000	209	80.8	<4.08	----	48,700	2.50 J	<0.350
U4-MW-06D	12/13/2023	N	EM16	UMCf	97.1 - 107.1	51.3 J	25.0 J	<17.0	609,000	367	3.89 J	48.7 J+	----	63,600	<6.00	<1.40
U4-MW-06D	3/14/2024	N	EM19	UMCf	97.1 - 107.1	<7.55	<18.0	<4.24	714,000	1,360	5.27	9.05 J	----	60,300	4.14 J	<0.350
U4-MW-06D	6/12/2024	N	EM20	UMCf	97.1 - 107.1	<15.1	<18.0	<8.49	714,000	971	8.00	<8.16	----	59,000	<3.00	<0.700
U4-MW-06D	9/20/2024	N	EM21	UMCf	97.1 - 107.1	<7.55	<18.0	<4.24	699,000	1,180	12.8 J	7.56 J	----	63,300	4.27 J	<0.350
U4-MW-06I	4/19/2022	N	BL02	UMCf	76.5 - 86.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-06I	3/14/2023	N	EM07	UMCf	76.5 - 86.5	<7.55	<18.0	<4.24	322,000	3.27 J	13.6	<4.08	----	51,200	6.26 J	<0.350
U4-MW-06I	6/16/2023	N	EM10	UMCf	76.5 - 86.5	22.5 J	<18.0	<4.24	352,000	37.1	10.8	<4.08	----	52,400	3.90 J	<0.350
U4-MW-06I	9/12/2023	N	EM13	UMCf	76.5 - 86.5	<7.55	146	<4.24	420,000	102	9.96	<4.08	----	50,900	2.82 J	<0.350
U4-MW-06I	12/12/2023	N	EM16	UMCf	76.5 - 86.5	43.7 J	35.3 J	<17.0	542,000	219	7.35	<16.3	----	62,200	<6.00	<1.40
U4-MW-06I	3/14/2024	N	EM19	UMCf	76.5 - 86.5	<7.55	<18.0	<4.24	638,000	927	7.78	11.9	----	62,500	6.24 J	<0.350
U4-MW-06I	6/11/2024	N	EM20	UMCf	76.5 - 86.5	<15.1	<18.0	<8.49	553,000	793	8.81	13.5 J	----	63,900	3.21 J	<0.700
U4-MW-06I	9/20/2024	N	EM21	UMCf	76.5 - 86.5	<7.55	<18.0	<4.24	409,000	724	25.2	7.86 J	----	48,300	3.09 J	<0.350
U4-MW-07D	4/15/2022	N	BL02	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	10/12/2022	N	EM02	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	10/12/2022	FD	EM02	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	11/3/2022	N	EM03	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	12/7/2022	N	EM04	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	1/11/2023	N	EM05	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	2/14/2023	N	EM06	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	3/16/2023	N	EM07	UMCf	96.8 - 106.5	<1.51	86.5 J	<0.849	39,700	1.27 J	3.84 J	<0.816	----	5,290	1.91 J	<0.0700
U4-MW-07D	4/21/2023	N	EM08	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	5/11/2023	N	EM09	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	6/13/2023	N	EM10	UMCf	96.8 - 106.5	1.55 J	<18.0	<0.849	204,000 J+	2,920	3.64 J	32.4	----	15,100 J+	5.68	<0.0700
U4-MW-07D	7/17/2023	N	EM11	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	8/11/2023	N	EM12	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	9/13/2023	N	EM13	UMCf	96.8 - 106.5	14.0 J	<18.0	<4.24	249,000	614	69.3	6.87 J	----	36,300	<1.50	<0.350
U4-MW-07D	10/18/2023	N	EM14	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	11/16/2023	N	EM15	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	12/12/2023	N	EM16	UMCf	96.8 - 106.5	25.2 J+	1,340	<4.24	385,000	4,790	6.45	135	----	32,600	2.24 J	<0.350
U4-MW-07D	1/26/2024	N	EM17	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	2/13/2024	N	EM18	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	3/11/2024	N	EM19	UMCf	96.8 - 106.5	<7.55	2,680	<4.24	523,000	8,550	9.15	194	----	61,400	3.40 J	<0.350
U4-MW-07D	6/12/2024	N	EM20	UMCf	96.8 - 106.5	<7.55	212	<4.24	631,000	11,100	11.8	166	----	99,900	2.39 J	<0.350
U4-MW-07D	9/18/2024	N	EM21	UMCf	96.8 - 106.5	<7.55	283	<4.24	642,000	11,000	11.8 J	84.2	----	108,000	4.50 J	<0.350
U4-MW-07I	4/15/2022	N	BL02	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07I	10/12/2022	N	EM02	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07I	11/3/2022	N	EM03	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----

Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020
						Copper	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silver
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-07I	12/7/2022	N	EM04	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07I	1/11/2023	N	EM05	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07I	2/15/2023	N	EM06	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07I	3/16/2023	N	EM07	UMCf	76.8 - 86.8	<1.51	29.1 J	<0.849	46,800	0.976 J	3.33 J	0.924 J	----	7,190	1.39 J	<0.0700
U4-MW-07I	4/21/2023	N	EM08	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07I	5/11/2023	N	EM09	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<1.51	638	<0.849	108,000	971	2.53 J	6.14 J+	----	16,500	0.349 J	<0.0700
U4-MW-07I	7/17/2023	N	EM11	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07I	8/11/2023	N	EM12	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07I	9/13/2023	N	EM13	UMCf	76.8 - 86.8	12.6 J	<18.0	<4.24	218,000	600	57.7	22.7	----	32,700	<1.50	<0.350
U4-MW-07I	10/18/2023	N	EM14	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07I	11/16/2023	N	EM15	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07I	12/11/2023	N	EM16	UMCf	76.8 - 86.8	33.3 J+	41.6 J	<4.24	351,000	2,060	7.08	19.5 J+	----	36,100	1.68 J	<0.350
U4-MW-07I	1/26/2024	N	EM17	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07I	2/13/2024	N	EM18	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07I	3/11/2024	N	EM19	UMCf	76.8 - 86.8	<7.55	276	<4.24	450,000	4,020	10.8	129	----	48,900	3.10 J	<0.350
U4-MW-07I	6/12/2024	N	EM20	UMCf	76.8 - 86.8	<7.55	<18.0	<4.24	464,000	2,620	14.4	93.4	----	39,500	3.65 J	<0.350
U4-MW-07I	9/18/2024	N	EM21	UMCf	76.8 - 86.8	<7.55	103	<4.24	557,000	2,750	16.8 J	48.9	----	46,000	1.64 J	<0.350
U4-MW-08D	4/13/2022	N	BL02	UMCf	98.6 - 108.6	<15.1	<90.0	<8.49	707,000	37.2 J	11.9 J	<8.16	<91.5	102,000	7.61 J	<0.700
U4-MW-08D	12/7/2022	N	EM04	UMCf	98.6 - 108.6	<7.55	<140	<4.24	330,000	11.7 J	3.10 J	<4.08	----	43,000	4.50 J	<0.350
U4-MW-08D	3/17/2023	N	EM07	UMCf	98.6 - 108.6	<7.55	<18.0	<4.24	378,000	40.2 J+	4.72 J	<4.08	----	49,900	6.98 J	<0.350
U4-MW-08D	6/13/2023	N	EM10	UMCf	98.6 - 108.6	<15.1	<18.0	<8.49	542,000 J+	68.9	5.34 J+	<8.16	----	61,800	4.01 J	0.863 J
U4-MW-08D	9/13/2023	N	EM13	UMCf	98.6 - 108.6	31.5 J	<18.0	<8.49	557,000	39.7	117	<8.16	----	90,900	3.93 J	<0.700
U4-MW-08D	12/11/2023	N	EM16	UMCf	98.6 - 108.6	87.2 J+	<18.0	<8.49	511,000	43.3	5.94	<8.16	----	69,400	4.36 J	<0.700
U4-MW-08D	3/12/2024	N	EM19	UMCf	98.6 - 108.6	96.4	<18.0	<8.49	569,000	180	9.24	<8.16	----	66,400	3.20 J	<0.700
U4-MW-08D	6/14/2024	N	EM20	UMCf	98.6 - 108.6	<1.51	<90.0	<0.849	635,000	187	<5.80	<0.816	----	71,000	<0.300	<0.0700
U4-MW-08D	9/23/2024	N	EM21	UMCf	98.6 - 108.6	70.3	<18.0	<8.49	807,000	159	5.94 J	<8.16	----	90,000	6.87 J	<0.700
U4-MW-08DD	4/20/2022	N	BL02	UMCf	119.8 - 129.8	<1.51	<18.0	<0.849	28,400	14.7	9.57	1.49 J	110 J	11,000	2.68	<0.0700
U4-MW-08DD	4/20/2022	FD	BL02	UMCf	119.8 - 129.8	<1.51	<18.0	<0.849	28,400	14.6	9.89	1.44 J	107 J	11,100	2.31	<0.0700
U4-MW-08DD	12/8/2022	N	EM04	UMCf	119.8 - 129.8	<1.51	<28.1	<0.849	23,100	31.7	10.9	3.15	----	9,950	2.00	<0.0700
U4-MW-08DD	3/15/2023	N	EM07	UMCf	119.8 - 129.8	2.67 J	<18.0	0.963 J	92,600	2.52 J	4.92 J	1.72 J	----	15,400	2.01	<0.0700
U4-MW-08DD	6/14/2023	N	EM10	UMCf	119.8 - 129.8	<1.51	18.3 J	<0.849	80,800	19.3	8.85	17.2 J+	----	15,400	1.85 J	<0.0700
U4-MW-08DD	9/14/2023	N	EM13	UMCf	119.8 - 129.8	<1.51	40.2 J	1.42 J	45,200	2.85 J	8.49	1.61 J	----	11,300	1.50 J	<0.0700
U4-MW-08DD	12/14/2023	N	EM16	UMCf	119.8 - 129.8	<1.51	<18.0	<0.849	47,900	4.63 J	8.01	<0.816	----	11,700	1.74 J	<0.0700
U4-MW-08DD	3/14/2024	N	EM19	UMCf	119.8 - 129.8	<1.51	<18.0	<0.849	40,000	12.6 J+	6.56	1.10 J	----	10,400	2.44	<0.0700
U4-MW-08DD	6/12/2024	N	EM20	UMCf	119.8 - 129.8	<1.51	<18.0	<0.849	39,400	28.3	6.03	1.84 J	----	9,590	1.61 J	<0.0700
U4-MW-08DD	9/20/2024	N	EM21	UMCf	119.8 - 129.8	<1.51	<18.0	<0.849	38,200	12.6 J+	6.88	2.06	----	9,620	1.76 J	<0.0700
U4-MW-08I	4/13/2022	N	BL02	UMCf	78.0 - 88.0	1.90 J	<18.0	<0.849	44,400	5.20 J	18.7	0.820 J	25.4 J	23,000	2.69	<0.0700
U4-MW-08I	12/7/2022	N	EM04	UMCf	78.0 - 88.0	<7.55	<140	<4.24	166,000	29.6	12.8 J	113	----	36,600	3.16 J	<0.350
U4-MW-08I	12/7/2022	FD	EM04	UMCf	78.0 - 88.0	<7.55	<140	<4.24	163,000	28.6	12.7 J	106	----	36,200	3.40 J	<0.350
U4-MW-08I	3/17/2023	N	EM07	UMCf	78.0 - 88.0	<7.55	<18.0	<4.24	288,000	13.6 J+	16.2	29.8	----	55,900	6.53 J	<0.350
U4-MW-08I	6/13/2023	N	EM10	UMCf	78.0 - 88.0	<15.1	<18.0	<8.49	78,400 J+	23.4	11.1 J+	9.78 J	----	25,100	<3.00	<0.700
U4-MW-08I	9/13/2023	N	EM13	UMCf	78.0 - 88.0	13.8 J	<18.0	<4.24	210,000	35.6	77.0	14.9	----	42,800	2.03 J	<0.350
U4-MW-08I	12/11/2023	N	EM16	UMCf	78.0 - 88.0	53.9 J+	36.4 J	<8.49	349,000	44.0	6.66	12.8 J	----	52,100	3.39 J	<0.700
U4-MW-08I	3/12/2024	N	EM19	UMCf	78.0 - 88.0	81.6	<18.0	<8.49	432,000	60.4	15.1	17.0 J	----	57,600	<3.00	<0.700
U4-MW-08I	6/14/2024	N	EM20	UMCf	78.0 - 88.0	<15.1	56.4 J	<8.49	341,000	51.3	12.0	8.47 J	----	60,200	<3.00	<0.700
U4-MW-08I	9/23/2024	N	EM21	UMCf	78.0 - 88.0	31.9 J	<18.0	<8.49	242,000	34.8	10.7 J	9.89 J	----	43,500	3.55 J	<0.700

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020
						Copper	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silver
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-08S	4/15/2022	N	BL02	UMCf	54.9 - 64.9	<1.51	26.0 J	<0.849	3,570	<0.934	20.1	<0.816	<18.3	20,400	2.19	<0.0700
U4-MW-08S	12/7/2022	N	EM04	UMCf	54.9 - 64.9	<1.51	31.9 J	<0.849	30,800	10.2	20.4	3.02	----	18,200	1.95 J	<0.0700
U4-MW-08S	12/7/2022	FD	EM04	UMCf	54.9 - 64.9	<1.51	39.7 J	<0.849	30,800	10.5	20.0	2.30	----	17,900	1.80 J	<0.0700
U4-MW-08S	3/13/2023	N	EM07	UMCf	54.9 - 64.9	<1.51	38.3 J	<0.849	61,700	428	3.71 J	1.37 J	----	17,800	<0.300	<0.0700
U4-MW-08S	3/13/2023	FD	EM07	UMCf	54.9 - 64.9	<1.51	54.4 J	<0.849	55,500	406	4.57 J	1.59 J	----	16,900	<0.300	<0.0700
U4-MW-08S	6/13/2023	N	EM10	UMCf	54.9 - 64.9	<1.51	81.2 J	<0.849	68,300 J+	1,310	2.92 J	2.34	----	15,900	<0.300	<0.0700
U4-MW-08S	6/13/2023	FD	EM10	UMCf	54.9 - 64.9	<1.51	84.9 J	<0.849	66,600 J+	1,300	1.59 J	2.34	----	15,800	<0.300	<0.0700
U4-MW-08S	9/13/2023	N	EM13	UMCf	54.9 - 64.9	<1.51	1,480	6.72	88,500	2,800	35.5	2.03	----	18,500	<0.300	<0.0700
U4-MW-08S	9/13/2023	FD	EM13	UMCf	54.9 - 64.9	<15.1	1,360	<8.49	87,600	2,750	35.9	<8.16	----	17,400	<3.00	<0.700
U4-MW-08S	12/14/2023	N	EM16	UMCf	54.9 - 64.9	<1.51	30,100	<0.849	186,000	10,600	<1.16	3.64	----	26,100	<0.300	<0.0700
U4-MW-08S	12/14/2023	FD	EM16	UMCf	54.9 - 64.9	<1.51	30,400	<0.849	187,000	10,700	<1.16	4.04	----	26,400	<0.300	<0.0700
U4-MW-08S	3/14/2024	N	EM19	UMCf	54.9 - 64.9	<1.51	351 J+	<0.849	156,000	2,550	51.4	8.13	----	22,300	<0.300	<0.0700
U4-MW-08S	3/14/2024	FD	EM19	UMCf	54.9 - 64.9	<1.51	381 J+	<0.849	154,000	2,470	44.5	8.99	----	21,600	<0.300	<0.0700
U4-MW-08S	3/25/2024	N	EM19	UMCf	54.9 - 64.9	<1.51	3,790	<0.849	110,000	1,430	42.4	2.90	----	20,800	<0.300	<0.0700
U4-MW-08S	3/25/2024	FD	EM19	UMCf	54.9 - 64.9	<1.51	3,660	<0.849	109,000	1,370	42.1	3.04	----	19,800	<0.300	<0.0700
U4-MW-08S	6/14/2024	N	EM20	UMCf	54.9 - 64.9	<1.51	2,050	<0.849	111,000	1,270	<1.16	2.81	----	22,200	<0.300	<0.0700
U4-MW-08S	6/14/2024	FD	EM20	UMCf	54.9 - 64.9	<1.51	2,270	<0.849	114,000	1,310	<1.16	2.71	----	22,900	<0.300	<0.0700
U4-MW-08S	9/20/2024	N	EM21	UMCf	54.9 - 64.9	<1.51	125	<0.849	98,400	575	0.420 J	3.14	----	20,000	<0.300	<0.0700
U4-MW-08S	9/20/2024	FD	EM21	UMCf	54.9 - 64.9	<1.51	142	<0.849	98,600	579	0.555 J	3.17	----	20,100	<0.300	<0.0700
U4-MW-09D	4/14/2022	N	BL02	UMCf	96.9 - 106.9	<15.1	<18.0	<8.49	532,000	4.62 J	<1.16	<8.16	<18.3	6,610	3.90 J	<0.700
U4-MW-09D	12/6/2022	N	EM04	UMCf	96.9 - 106.9	<1.51 UJ	<28.1 UJ	<0.849 UJ	71,500	5.78	6.30	11.1	----	12,100	1.98 J	<0.0700 UJ
U4-MW-09D	3/16/2023	N	EM07	UMCf	96.9 - 106.9	1.58 J	30.6 J	<0.849	136,000	71.7	1.39 J	10.6	----	17,400	1.73 J	<0.0700
U4-MW-09D	6/14/2023	N	EM10	UMCf	96.9 - 106.9	<1.51	<18.0	<0.849	144,000	536	8.71	13.9 J+	----	19,700	0.834 J	<0.0700
U4-MW-09D	9/12/2023	N	EM13	UMCf	96.9 - 106.9	<1.51	80.7 J	<0.849	241,000	979	10.0	9.23	----	24,800	0.867 J	<0.0700
U4-MW-09D	12/15/2023	N	EM16	UMCf	96.9 - 106.9	<1.51	92.9 J	<0.849	349,000	1,380	12.5	15.3	----	29,700	1.85 J	<0.0700
U4-MW-09D	3/13/2024	N	EM19	UMCf	96.9 - 106.9	<7.55	280	<4.24	413,000	1,360	9.73	21.5	----	32,700	<1.50	<0.350
U4-MW-09D	6/13/2024	N	EM20	UMCf	96.9 - 106.9	<1.51	225	<0.849	459,000	1,910	11.0 J+	59.8	----	32,300	1.36 J	<0.0700
U4-MW-09D	9/19/2024	N	EM21	UMCf	96.9 - 106.9	<7.55	205	<4.24	457,000	1,610	13.8 J	71.9	----	34,500	2.04 J	<0.350
U4-MW-09DD	4/14/2022	N	BL02	UMCf	119.8 - 129.8	3.53 J	18.0 J	<0.849	20,000	7.39 J	9.61	<0.816	221 J	7,460	1.98 J	<0.0700
U4-MW-09DD	12/6/2022	N	EM04	UMCf	119.8 - 129.8	<1.51 UJ	<28.1 UJ	<0.849 UJ	21,100	1.17 J	9.02	<0.816 UJ	----	7,030	1.86 J	<0.0700 UJ
U4-MW-09DD	3/21/2023	N	EM07	UMCf	119.8 - 129.8	<1.51	<18.0	<0.849	43,200	2.54 J	5.69	7.63	----	9,310	2.06	<0.0700
U4-MW-09DD	6/15/2023	N	EM10	UMCf	119.8 - 129.8	<1.51	<18.0	<0.849	45,600	6.67 J	6.80 J+	53.7	----	10,000	2.18	<0.0700
U4-MW-09DD	9/13/2023	N	EM13	UMCf	119.8 - 129.8	<1.51	107	<0.849	97,000	300	40.7	32.1	----	14,900	1.29 J	<0.0700
U4-MW-09DD	12/13/2023	N	EM16	UMCf	119.8 - 129.8	4.49 J	53.4 J	<0.849	94,000	246	2.97 J	5.51 J+	----	15,200	1.46 J	<0.0700
U4-MW-09DD	3/14/2024	N	EM19	UMCf	119.8 - 129.8	<1.51	837 J+	<0.849	112,000	549	3.62 J	7.72	----	21,400	0.954 J	<0.0700
U4-MW-09DD	6/13/2024	N	EM20	UMCf	119.8 - 129.8	<1.51	634	<0.849	122,000	643	2.28 J	7.02	----	18,000	<0.300	<0.0700
U4-MW-09DD	9/20/2024	N	EM21	UMCf	119.8 - 129.8	<1.51	3,340	<0.849	107,000	660	10.6	4.56	----	13,700	<0.300	<0.0700
U4-MW-09I	4/14/2022	N	BL02	UMCf	76.8 - 86.8	2.16 J	<18.0	<0.849	42,300	4.58 J	13.2	0.971 J	172 J	19,300	2.24	<0.0700
U4-MW-09I	12/6/2022	N	EM04	UMCf	76.8 - 86.8	8.06 J	<140 UJ	<4.24 UJ	100,000	21.9 J	7.84 J	83.7	----	20,600	2.26 J	<0.350 UJ
U4-MW-09I	3/16/2023	N	EM07	UMCf	76.8 - 86.8	<1.51	22.6 J	<0.849	153,000	44.5	3.36 J	105	----	21,400	1.80 J	<0.0700
U4-MW-09I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<1.51	35.7 J	<0.849	160,000	251	4.93 J	32.4	----	23,300	1.04 J	<0.0700
U4-MW-09I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	<1.51	<18.0	<0.849	251,000	458	8.86	23.7	----	27,100	1.06 J	<0.0700
U4-MW-09I	12/15/2023	N	EM16	UMCf	76.8 - 86.8	1.57 J	<18.0	<0.849	350,000	816	8.79	25.1	----	30,200	1.81 J	<0.0700
U4-MW-09I	3/13/2024	N	EM19	UMCf	76.8 - 86.8	<7.55	<18.0	<4.24	426,000	1,170	10.4	39.2	----	34,800	1.80 J	<0.350
U4-MW-09I	6/13/2024	N	EM20	UMCf	76.8 - 86.8	1.62 J	<18.0	<0.849	397,000	969	12.4 J+	29.3	----	33,300	1.57 J	<0.0700
U4-MW-09I	9/19/2024	N	EM21	UMCf	76.8 - 86.8	<7.55	33.1 J	<4.24	374,000	668	14.9 J	21.4 J+	----	37,100	1.69 J	<0.350
U4-MW-09S	4/14/2022	N	BL02	UMCf	55.3 - 65.3	1.69 J	141	<0.849	30,200	5.72 J	19.0	<0.816	168 J	14,000	2.13	<0.0700

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020
						Copper	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silver
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-09S	12/6/2022	N	EM04	UMCf	55.3 - 65.3	<1.51 UJ	<28.1 UJ	<0.849 UJ	7,810	1.21 J	14.0	1.83 J	----	9,350	2.30	<0.0700 UJ
U4-MW-09S	3/17/2023	N	EM07	UMCf	55.3 - 65.3	<1.51	25.0 J	1.12 J	7,010	4.65 J	27.9	1.63 J	----	9,940	2.10	<0.0700
U4-MW-09S	6/15/2023	N	EM10	UMCf	55.3 - 65.3	<1.51	96.5 J	<0.849	11,600	186	8.50 J+	14.6	----	13,400	<0.300	<0.0700
U4-MW-09S	9/13/2023	N	EM13	UMCf	55.3 - 65.3	<15.1	586	<8.49	30,500	515	36.4	<8.16	----	16,600	<3.00	<0.700
U4-MW-09S	12/12/2023	N	EM16	UMCf	55.3 - 65.3	17.1 J	21,700	<4.24	116,000	2,050	13.9	22.7 J+	----	76,800	1.70 J	<0.350
U4-MW-09S	3/13/2024	N	EM19	UMCf	55.3 - 65.3	<7.55	408	<4.24	90,700	572	2.62 J	8.82 J	----	38,600	<1.50	<0.350
U4-MW-09S	6/13/2024	N	EM20	UMCf	55.3 - 65.3	<1.51	804	<0.849	73,700	540	15.1	18.1	----	30,000	0.367 J	<0.0700
U4-MW-09S	9/19/2024	N	EM21	UMCf	55.3 - 65.3	<7.55	983	<4.24	55,300	415	<1.74	7.06 J	----	25,500	<1.50	<0.350
U4-MW-10D	4/14/2022	N	BL02	UMCf	96.9 - 106.9	<1.51	<18.0	<0.849	134,000	23.5	8.67	<0.816	32.2 J	24,200	2.14	<0.0700
U4-MW-10D	12/5/2022	N	EM04	UMCf	96.9 - 106.9	<1.51	<18.0	<0.849	87,500	2.32 J	3.34 J	<0.816	----	15,500	2.22	<0.0700
U4-MW-10D	3/17/2023	N	EM07	UMCf	96.9 - 106.9	2.98 J	421	<0.849	184,000	2,160	3.54 J	11.9	----	18,100	0.811 J	<0.0700
U4-MW-10D	6/14/2023	N	EM10	UMCf	96.9 - 106.9	<1.51	502	<0.849	164,000	2,470	1.71 J	3.57 J+	----	18,000	0.312 J	<0.0700
U4-MW-10D	9/13/2023	N	EM13	UMCf	96.9 - 106.9	<1.51	2,470	<0.849	178,000	1,910	66.3	7.78	----	19,800	0.441 J	<0.0700
U4-MW-10D	12/14/2023	N	EM16	UMCf	96.9 - 106.9	<1.51	852	<0.849	126,000	1,190	24.8	5.58	----	17,600	0.434 J	<0.0700
U4-MW-10D	3/14/2024	N	EM19	UMCf	96.9 - 106.9	4.79 J	141 J+	<0.849	128,000	1,100	16.8	6.71	----	16,200	0.598 J	<0.0700
U4-MW-10D	6/11/2024	N	EM20	UMCf	96.9 - 106.9	2.47 J	137 J+	<0.849	109,000	878	17.5	6.59	----	17,100	0.504 J	<0.0700
U4-MW-10D	9/26/2024	N	EM21	UMCf	96.9 - 106.9	4.57 J	<18.0	<0.849	111,000	817	27.6	6.53	----	15,300	<0.300	<0.0700
U4-MW-10I	4/14/2022	N	BL02	UMCf	77.1 - 87.1	2.97 J	27.9 J	<0.849	135,000	25.2	17.8	1.08 J	194 J	31,700	2.88	<0.0700
U4-MW-10I	12/5/2022	N	EM04	UMCf	77.1 - 87.1	<1.51	<18.0	<0.849	87,800	34.4	16.9	<0.816	----	17,000	2.24	<0.0700
U4-MW-10I	3/17/2023	N	EM07	UMCf	77.1 - 87.1	<1.51	266	1.14 J	157,000	917	11.2	58.9	----	22,400	0.803 J	<0.0700
U4-MW-10I	6/14/2023	N	EM10	UMCf	77.1 - 87.1	<1.51	1,070	<0.849	119,000	3,120	1.25 J	1.44 J	----	20,200	<0.300	<0.0700
U4-MW-10I	9/13/2023	N	EM13	UMCf	77.1 - 87.1	2.78 J	15,200	<0.849	184,000	4,630	47.6	4.72	----	22,900	<0.300	<0.0700
U4-MW-10I	12/14/2023	N	EM16	UMCf	77.1 - 87.1	19.7 J	34.5 J	<4.24	324,000	1,910	16.1	8.69 J	----	39,200	5.73 J	0.903 J
U4-MW-10I	3/13/2024	N	EM19	UMCf	77.1 - 87.1	<7.55	<18.0	<4.24	409,000	1,020	12.2	4.29 J	----	45,700	3.38 J	<0.350
U4-MW-10I	6/11/2024	N	EM20	UMCf	77.1 - 87.1	<1.51	29.0 J	<0.849	114,000	742	5.44	6.32	----	19,900	<0.300	<0.0700
U4-MW-10I	9/25/2024	N	EM21	UMCf	77.1 - 87.1	6.96	<18.0	<0.849	112,000	964	11.9	2.60	----	19,100	<0.300	<0.0700
U4-MW-11D	4/15/2022	N	BL02	UMCf	97.4 - 107.4	<15.1	<90.0	<8.49	652,000	68.0	17.8 J	<8.16	315 J	86,800	6.05 J	<0.700
U4-MW-11D	9/26/2022	N	EM01	UMCf	97.4 - 107.4	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11D	10/11/2022	N	EM02	UMCf	97.4 - 107.4	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11D	11/1/2022	N	EM03	UMCf	97.4 - 107.4	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11D	12/6/2022	N	EM04	UMCf	97.4 - 107.4	35.1 J	<2810 UJ	<84.9 UJ	601,000	<70.4 UJ	<34.8 UJ	<8.16 UJ	----	60,900 J	<30.0 UJ	<7.00 UJ
U4-MW-11D	1/12/2023	N	EM05	UMCf	97.4 - 107.4	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11D	2/14/2023	N	EM06	UMCf	97.4 - 107.4	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11D	3/16/2023	N	EM07	UMCf	97.4 - 107.4	<7.55	25.8 J	<4.24	499,000	88.2	9.80	<4.08	----	62,800	4.91 J	<0.350
U4-MW-11D	4/18/2023	N	EM08	UMCf	97.4 - 107.4	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11D	5/17/2023	N	EM09	UMCf	97.4 - 107.4	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11D	6/16/2023	N	EM10	UMCf	97.4 - 107.4	32.6	<18.0	<4.24	596,000	136	11.7	<4.08	----	80,500	5.86 J	0.357 J
U4-MW-11D	7/14/2023	N	EM11	UMCf	97.4 - 107.4	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11D	8/14/2023	N	EM12	UMCf	97.4 - 107.4	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11D	9/13/2023	N	EM13	UMCf	97.4 - 107.4	22.4 J	20.0 J	<4.24	526,000	90.1	97.3	<4.08	----	64,400	3.40 J	<0.350
U4-MW-11D	10/18/2023	N	EM14	UMCf	97.4 - 107.4	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11D	11/16/2023	N	EM15	UMCf	97.4 - 107.4	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11D	12/13/2023	N	EM16	UMCf	97.4 - 107.4	44.4 J	<18.0	<17.0	480,000	143	9.98	<16.3	----	56,500	<6.00	<1.40
U4-MW-11D	1/25/2024	N	EM17	UMCf	97.4 - 107.4	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11D	2/14/2024	N	EM18	UMCf	97.4 - 107.4	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11D	3/12/2024	N	EM19	UMCf	97.4 - 107.4	<15.1	18.1 J	<8.49	511,000	193	11.6	12.3 J	----	58,900	4.08 J	<0.700
U4-MW-11D	6/12/2024	N	EM20	UMCf	97.4 - 107.4	<15.1	<18.0	<8.49	569,000	221	10.7	<8.16	----	62,500	3.12 J	<0.700

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020
						Copper	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silver
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-11D	9/23/2024	N	EM21	UMCf	97.4 - 107.4	50.3	<18.0	<8.49	609,000	204	5.66 J	<8.16	----	68,700	3.24 J	<0.700
U4-MW-11I	4/14/2022	N	BL02	UMCf	77.0 - 87.0	1.60 J	40.5 J	<0.849	47,100	10.4	18.7	1.07 J	202 J	26,900	2.57	<0.0700
U4-MW-11I	9/26/2022	N	EM01	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	9/26/2022	FD	EM01	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	10/10/2022	N	EM02	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	10/10/2022	FD	EM02	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	10/31/2022	N	EM03	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	10/31/2022	FD	EM03	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	12/6/2022	N	EM04	UMCf	77.0 - 87.0	<1.51 UJ	134	<0.849 UJ	89,300	577	2.21 J	3.32	----	22,800	<0.300 UJ	<0.0700 UJ
U4-MW-11I	12/6/2022	FD	EM04	UMCf	77.0 - 87.0	<1.51 UJ	128	<0.849 UJ	88,400	564	1.46 J	2.79	----	23,200	3.38	<0.0700 UJ
U4-MW-11I	1/12/2023	N	EM05	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	1/12/2023	FD	EM05	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	2/14/2023	N	EM06	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	2/14/2023	FD	EM06	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	3/16/2023	N	EM07	UMCf	77.0 - 87.0	<1.51	271 J+	<0.849	117,000 J	1,250 J	<1.16	1.86 J	----	23,000 J	0.614 J	<0.0700
U4-MW-11I	3/16/2023	FD	EM07	UMCf	77.0 - 87.0	<1.51	295 J+	<0.849	78,000 J	831 J	<1.16	1.87 J	----	15,200 J	<0.300	<0.0700
U4-MW-11I	4/18/2023	N	EM08	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	4/18/2023	FD	EM08	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	5/19/2023	N	EM09	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	5/19/2023	FD	EM09	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	6/15/2023	N	EM10	UMCf	77.0 - 87.0	<1.51 UJ	607	<0.849	107,000	1,240	2.49 J	1.94 J	----	19,900	0.379 J	<0.0700
U4-MW-11I	6/15/2023	FD	EM10	UMCf	77.0 - 87.0	11.4 J	629	<0.849	105,000	1,230	1.89 J	1.75 J	----	20,000	<0.300	<0.0700
U4-MW-11I	7/13/2023	N	EM11	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	7/13/2023	FD	EM11	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	8/14/2023	N	EM12	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	8/14/2023	FD	EM12	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	9/13/2023	N	EM13	UMCf	77.0 - 87.0	17.6 J	18.0 J	<4.24	373,000	2,400	82.6	80.7	----	50,600	5.48 J	<0.350
U4-MW-11I	9/13/2023	FD	EM13	UMCf	77.0 - 87.0	17.6 J	<18.0	<4.24	385,000	2,440	81.2	82.1	----	51,700	7.34 J	<0.350
U4-MW-11I	10/19/2023	N	EM14	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	10/19/2023	FD	EM14	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	11/16/2023	N	EM15	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	11/16/2023	FD	EM15	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	12/13/2023	N	EM16	UMCf	77.0 - 87.0	34.0 J	<18.0	<8.49	377,000	1,430	36.0	23.5 J+	----	49,700	5.48 J	<0.700
U4-MW-11I	12/13/2023	FD	EM16	UMCf	77.0 - 87.0	33.3 J	<18.0	<8.49	378,000	1,430	37.9	24.3 J+	----	50,300	8.78 J	<0.700
U4-MW-11I	1/25/2024	N	EM17	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	1/25/2024	FD	EM17	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	2/14/2024	N	EM18	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	2/14/2024	FD	EM18	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	3/13/2024	N	EM19	UMCf	77.0 - 87.0	<7.55	<18.0	<4.24	500,000	1,490	24.2	19.6	----	57,300	4.39 J	<0.350
U4-MW-11I	3/13/2024	FD	EM19	UMCf	77.0 - 87.0	<7.55	<18.0	<4.24	502,000	1,490	24.9	17.8	----	59,000	4.78 J	<0.350
U4-MW-11I	6/12/2024	N	EM20	UMCf	77.0 - 87.0	<15.1	<18.0	<8.49	404,000	1,140	29.8	11.7 J	----	50,400	5.03 J	<0.700
U4-MW-11I	6/12/2024	FD	EM20	UMCf	77.0 - 87.0	<15.1	<18.0	<8.49	396,000	1,110	28.8	12.3 J	----	49,800	4.40 J	<0.700
U4-MW-11I	9/23/2024	N	EM21	UMCf	77.0 - 87.0	37.7	<18.0	<4.24	388,000	1,010	30.6	12.5	----	51,700	2.84 J	<0.350
U4-MW-11I	9/23/2024	FD	EM21	UMCf	77.0 - 87.0	35.8	<18.0	<4.24	386,000	1,000	30.1	12.1	----	51,400	2.64 J	<0.350
U4-MW-12D	4/15/2022	N	BL02	UMCf	97.1 - 107.1	<15.1	92.3 J	<8.49	501,000	59.4	15.8 J	<8.16	365 J	83,300	6.13 J	<0.700
U4-MW-12D	9/27/2022	N	EM01	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12D	10/12/2022	N	EM02	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020
						Copper	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silver
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-12D	11/2/2022	N	EM03	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12D	12/7/2022	N	EM04	UMCf	97.1 - 107.1	<7.55	<140	<4.24	300,000	23.4 J	8.18 J	<4.08	----	43,100	3.67 J	<0.350
U4-MW-12D	1/12/2023	N	EM05	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12D	2/15/2023	N	EM06	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12D	3/14/2023	N	EM07	UMCf	97.1 - 107.1	<7.55	29.5 J	<4.24	286,000	37.2	7.27	<4.08	----	44,100	4.79 J	<0.350
U4-MW-12D	4/17/2023	N	EM08	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12D	5/17/2023	N	EM09	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12D	6/16/2023	N	EM10	UMCf	97.1 - 107.1	18.2 J	<18.0	<4.24	334,000	79.3	8.08	<4.08	----	49,400	3.24 J	<0.350
U4-MW-12D	7/13/2023	N	EM11	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12D	8/14/2023	N	EM12	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12D	9/12/2023	N	EM13	UMCf	97.1 - 107.1	<1.51	<18.0	<0.849	232,000	50.0 J+	5.17	1.11 J	----	27,800	1.94 J	<0.0700
U4-MW-12D	10/17/2023	N	EM14	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12D	11/15/2023	N	EM15	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12D	12/12/2023	N	EM16	UMCf	97.1 - 107.1	15.3 J	<18.0	<4.24	302,000	241	1.88 J	12.3 J+	----	28,900	2.35 J	<0.350
U4-MW-12D	1/24/2024	N	EM17	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12D	2/13/2024	N	EM18	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12D	3/12/2024	N	EM19	UMCf	97.1 - 107.1	28.9	28.5 J	<4.24	362,000	901	2.76 J	14.3	----	48,000	1.54 J	<0.350
U4-MW-12D	6/12/2024	N	EM20	UMCf	97.1 - 107.1	<7.55	<18.0	<4.24	419,000	664	6.17	7.81 J	----	42,400	2.11 J	<0.350
U4-MW-12D	9/24/2024	N	EM21	UMCf	97.1 - 107.1	25.2	<18.0	<4.24	386,000	599	5.03 J	9.70 J	----	49,200	1.61 J	<0.350
U4-MW-12I	4/14/2022	N	BL02	UMCf	76.8 - 86.8	3.24 J	18.3 J	2.29	126,000	44.1	17.6	4.10 J	122 J	35,700	5.65 J	0.454 J
U4-MW-12I	4/14/2022	FD	BL02	UMCf	76.8 - 86.8	2.11 J	41.4 J	<0.849	125,000	44.4	17.7	1.90 J	265 J+	35,500	3.39 J	<0.0700
U4-MW-12I	9/27/2022	N	EM01	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12I	10/12/2022	N	EM02	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12I	11/2/2022	N	EM03	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12I	12/7/2022	N	EM04	UMCf	76.8 - 86.8	<1.51	<28.1	<0.849	44,500	264	15.7	2.09	----	16,700	0.587 J	<0.0700
U4-MW-12I	12/7/2022	FD	EM04	UMCf	76.8 - 86.8	<1.51	41.2 J	<0.849	44,600	264	16.2	3.19	----	16,800	0.457 J	<0.0700
U4-MW-12I	1/13/2023	N	EM05	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12I	2/15/2023	N	EM06	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12I	3/13/2023	N	EM07	UMCf	76.8 - 86.8	<7.55	243	<0.849	89,200	1,200	1.40 J	<4.08	----	23,800	0.309 J	<0.0700
U4-MW-12I	4/17/2023	N	EM08	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12I	5/17/2023	N	EM09	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12I	6/16/2023	N	EM10	UMCf	76.8 - 86.8	<1.51	1,420	<0.849	121,000	1,920	<1.16	1.81 J	----	20,400	<0.300	<0.0700
U4-MW-12I	7/11/2023	N	EM11	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12I	8/14/2023	N	EM12	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	<1.51	32.3 J	<0.849	121,000	1,080	146	4.28	----	26,100	0.954 J	<0.0700
U4-MW-12I	10/17/2023	N	EM14	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12I	11/16/2023	N	EM15	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	14.5 J	31.0 J	<4.24	233,000	1,100	24.1	81.0	----	29,200	2.49 J	<0.350
U4-MW-12I	1/24/2024	N	EM17	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12I	2/13/2024	N	EM18	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	3.35 J	40.0 J	<0.849	265,000	1,000	29.2	255	----	33,500 J+	3.27 J+	<0.0700
U4-MW-12I	6/13/2024	N	EM20	UMCf	76.8 - 86.8	14.7	<18.0	<0.849	343,000	1,060	28.1	14.3	----	39,500	3.15	<0.0700
U4-MW-12I	9/23/2024	N	EM21	UMCf	76.8 - 86.8	34.0	<18.0	<4.24	345,000	873	23.4 J	11.1	----	42,000	3.41 J	<0.350
U4-MW-13D	4/14/2022	N	BL02	UMCf	98.2 - 108.2	<15.1	<90.0	<8.49	664,000	32.9 J	9.95 J	<8.16	140 J	71,200	4.11 J	<0.700
U4-MW-13D	9/28/2022	N	EM01	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13D	10/11/2022	N	EM02	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13D	11/3/2022	N	EM03	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020
						Copper	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silver
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-13D	12/7/2022	N	EM04	UMCf	98.2 - 108.2	<7.55	<140	<4.24	276,000	92.8	2.40 J	<4.08	----	26,600	2.64 J	<0.350
U4-MW-13D	1/12/2023	N	EM05	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13D	2/15/2023	N	EM06	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13D	3/17/2023	N	EM07	UMCf	98.2 - 108.2	<1.51	<18.0	<0.849	150,000	40.4 J+	4.44 J	0.893 J	----	22,300	2.57	0.289 J
U4-MW-13D	4/18/2023	N	EM08	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13D	5/17/2023	N	EM09	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13D	6/15/2023	N	EM10	UMCf	98.2 - 108.2	1.84 J	<18.0	<0.849	146,000	44.0	2.60 J	0.858 J	----	21,200	2.16	<0.0700
U4-MW-13D	7/12/2023	N	EM11	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13D	8/11/2023	N	EM12	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13D	9/11/2023	N	EM13	UMCf	98.2 - 108.2	5.42	<18.0	3.07 J+	211,000	51.6	3.59 J	1.42 J	----	29,500	1.80 J	<0.0700
U4-MW-13D	10/18/2023	N	EM14	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13D	11/15/2023	N	EM15	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13D	12/11/2023	N	EM16	UMCf	98.2 - 108.2	15.7 J	<18.0	<4.24	226,000	47.9	3.27 J	<4.08	----	27,700	2.07 J	<0.350
U4-MW-13D	1/23/2024	N	EM17	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13D	2/12/2024	N	EM18	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13D	3/11/2024	N	EM19	UMCf	98.2 - 108.2	<7.55	<18.0	<4.24	246,000	67.0	2.50 J	<4.08	----	28,900	2.03 J	<0.350
U4-MW-13D	6/13/2024	N	EM20	UMCf	98.2 - 108.2	<1.51	<18.0	<0.849	352,000	95.3	2.88 J	<0.816	----	37,600	2.01	<0.0700
U4-MW-13D	9/20/2024	N	EM21	UMCf	98.2 - 108.2	<1.51	<18.0	<0.849	386,000	102	2.30 J	3.53	----	39,600	1.89 J	<0.0700
U4-MW-13I	4/14/2022	N	BL02	UMCf	77.1 - 87.1	<1.51	<18.0	<0.849	169,000	28.6	13.8	1.80 J	132 J	33,100	3.62	<0.0700
U4-MW-13I	9/28/2022	N	EM01	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13I	10/10/2022	N	EM02	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13I	11/3/2022	N	EM03	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13I	12/6/2022	N	EM04	UMCf	77.1 - 87.1	<1.51 UJ	32.3 J	<0.849 UJ	48,300	161	9.01	2.47	----	16,700	1.08 J	<0.0700 UJ
U4-MW-13I	1/12/2023	N	EM05	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13I	2/14/2023	N	EM06	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13I	3/16/2023	N	EM07	UMCf	77.1 - 87.1	<1.51	52.5 J	<0.849	44,100	228	5.96	2.33	----	13,800	<0.300	<0.0700
U4-MW-13I	4/19/2023	N	EM08	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13I	5/17/2023	N	EM09	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13I	6/15/2023	N	EM10	UMCf	77.1 - 87.1	<1.51	500	<0.849	54,900	381	12.0 J+	3.27	----	15,300	<0.300	<0.0700
U4-MW-13I	7/12/2023	N	EM11	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13I	8/11/2023	N	EM12	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13I	9/11/2023	N	EM13	UMCf	77.1 - 87.1	<1.51	<18.0	3.32 J+	210,000	197	4.85 J	2.18	----	30,400	2.04	<0.0700
U4-MW-13I	10/17/2023	N	EM14	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13I	11/15/2023	N	EM15	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13I	12/11/2023	N	EM16	UMCf	77.1 - 87.1	19.8 J	<18.0	<4.24	256,000	134	3.90 J	<4.08	----	32,600	1.55 J	<0.350
U4-MW-13I	1/23/2024	N	EM17	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13I	2/12/2024	N	EM18	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13I	3/11/2024	N	EM19	UMCf	77.1 - 87.1	<7.55	<18.0	<4.24	297,000	149	5.26	36.7	----	35,100	2.79 J	<0.350
U4-MW-13I	6/13/2024	N	EM20	UMCf	77.1 - 87.1	<1.51	<18.0	<0.849	318,000	164	6.56 J+	3.77	----	37,900	2.43	<0.0700
U4-MW-13I	9/20/2024	N	EM21	UMCf	77.1 - 87.1	<1.51	<18.0	<0.849	328,000	134	4.89 J	2.73	----	39,000	2.35	<0.0700
U4-MW-14D	4/13/2022	N	BL02	UMCf	97.3 - 107.3	3.44 J	<18.0	<0.849	152,000	79.2	41.2	9.04	<18.3	25,400	3.31	<0.0700
U4-MW-14D	12/6/2022	N	EM04	UMCf	97.3 - 107.3	<1.51 UJ	40.3 J	1.09 J	128,000	21.5	5.90	<0.816 UJ	----	19,100	2.46	<0.0700 UJ
U4-MW-14D	3/16/2023	N	EM07	UMCf	97.3 - 107.3	3.77 J	65.8 J	<0.849	71,500	14.2 J+	3.16 J	<0.816	----	14,500	1.69 J	<0.0700
U4-MW-14D	6/15/2023	N	EM10	UMCf	97.3 - 107.3	<1.51	<18.0	<0.849	85,000	17.7	4.70 J	<0.816	----	16,800	1.85 J	<0.0700
U4-MW-14D	9/14/2023	N	EM13	UMCf	97.3 - 107.3	5.59	<18.0	<0.849	126,000	283	7.16	3.52	----	18,000	1.93 J	<0.0700
U4-MW-14D	12/15/2023	N	EM16	UMCf	97.3 - 107.3	3.06 J	<18.0	<0.849	142,000	330	7.58	10.2	----	17,300	1.67 J	<0.0700
U4-MW-14D	3/13/2024	N	EM19	UMCf	97.3 - 107.3	<1.51	<18.0	<0.849	131,000	268	5.45	3.88	----	18,300	1.63 J	<0.0700

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Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020
						Copper	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silver
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-14D	6/13/2024	N	EM20	UMCf	97.3 - 107.3	<1.51	<18.0	<0.849	122,000	257	7.94 J+	2.90	----	16,600	1.76 J	<0.0700
U4-MW-14D	9/19/2024	N	EM21	UMCf	97.3 - 107.3	1.82 J	<18.0	<0.849	94,900	170	7.36	1.30 J	----	16,000	2.02	<0.0700
U4-MW-14I	4/14/2022	N	BL02	UMCf	77.3 - 87.3	<1.51	<18.0	<0.849	52,400	19.0	16.2	1.09 J	191 J	25,400	2.53	<0.0700
U4-MW-14I	12/6/2022	N	EM04	UMCf	77.3 - 87.3	<1.51 UJ	<28.1 UJ	<0.849 UJ	139,000	32.4	9.57	1.12 J	----	22,000	2.86	<0.0700 UJ
U4-MW-14I	3/16/2023	N	EM07	UMCf	77.3 - 87.3	<1.51	<18.0	<0.849	79,600	11.1 J+	5.22	<0.816	----	16,700	1.98 J	<0.0700
U4-MW-14I	6/15/2023	N	EM10	UMCf	77.3 - 87.3	1.54 J	<18.0	<0.849	115,000	214	7.41 J+	8.26	----	21,000	1.67 J	<0.0700
U4-MW-14I	9/14/2023	N	EM13	UMCf	77.3 - 87.3	1.60 J	<18.0	<0.849	123,000	85.8	5.72	5.21	----	20,100	1.13 J	<0.0700
U4-MW-14I	12/14/2023	N	EM16	UMCf	77.3 - 87.3	<1.51	38.9 J	<0.849	167,000	137	8.32	31.7	----	21,800	1.57 J	<0.0700
U4-MW-14I	3/13/2024	N	EM19	UMCf	77.3 - 87.3	1.61 J	<18.0	<0.849	200,000	213	5.06	4.75	----	22,800	1.47 J	<0.0700
U4-MW-14I	6/14/2024	N	EM20	UMCf	77.3 - 87.3	<1.51	<18.0	<0.849	173,000	167	6.40	4.88	----	22,600	1.33 J	<0.0700
U4-MW-14I	9/19/2024	N	EM21	UMCf	77.3 - 87.3	1.80 J	26.4 J	<0.849	167,000	134	8.13	2.59 J+	----	23,300	2.59	<0.0700
U4-MW-15D	4/13/2022	N	BL02	UMCf	96.0 - 106.0	<1.51	21.8 J	<0.849	157,000	26.1	9.77	0.944 J	<18.3	25,500	2.38	<0.0700
U4-MW-15D	12/5/2022	N	EM04	UMCf	96.0 - 106.0	<1.51	<18.0	<0.849	92,400	10.3	6.33	<0.816	----	18,700	2.23	<0.0700
U4-MW-15D	3/20/2023	N	EM07	UMCf	96.0 - 106.0	2.97 J	<18.0	<0.849	80,100	5.33 J	6.57	<0.816	----	15,400	2.33	<0.0700
U4-MW-15D	6/14/2023	N	EM10	UMCf	96.0 - 106.0	<1.51	<18.0	<0.849	99,200	25.2	7.40	<0.816	----	20,900	2.44	<0.0700
U4-MW-15D	9/13/2023	N	EM13	UMCf	96.0 - 106.0	<1.51	<18.0	<0.849	89,900	10.3	45.5	5.43	----	17,400	1.90 J	<0.0700
U4-MW-15D	12/12/2023	N	EM16	UMCf	96.0 - 106.0	4.29 J	49.3 J	<0.849	105,000	17.3	2.44 J	<0.816	----	17,400	2.06	<0.0700
U4-MW-15D	3/12/2024	N	EM19	UMCf	96.0 - 106.0	<1.51	35.5 J	<0.849	152,000	26.5	2.51 J	2.70	----	20,100	1.88 J	<0.0700
U4-MW-15D	6/14/2024	N	EM20	UMCf	96.0 - 106.0	<15.1	<18.0	<8.49	108,000	18.0	1.61 J	<8.16	----	17,500	<3.00	<0.700
U4-MW-15D	9/24/2024	N	EM21	UMCf	96.0 - 106.0	5.51	<18.0	<0.849	90,200	12.0 J+	5.72	<0.816	----	15,500	2.08	<0.0700
U4-MW-15DD	4/13/2022	N	BL02	UMCf	120.3 - 130.3	2.23 J	162	<0.849	15,400	2.57 J	10.4	2.78	<18.3	6,830	2.15	<0.0700
U4-MW-15DD	12/5/2022	N	EM04	UMCf	120.3 - 130.3	<1.51	<18.0	<0.849	16,800	5.61 J	7.88	31.6	----	6,430	1.91 J	<0.0700
U4-MW-15DD	3/15/2023	N	EM07	UMCf	120.3 - 130.3	1.53 J	45.7 J	4.52 J+	17,300	7.24 J	8.41	44.8	----	6,510	1.89 J	<0.0700
U4-MW-15DD	6/13/2023	N	EM10	UMCf	120.3 - 130.3	<1.51	29.4 J	<0.849	17,000 J+	14.9 J+	12.7 J+	57.6	----	6,460 J+	2.25	<0.0700
U4-MW-15DD	9/14/2023	N	EM13	UMCf	120.3 - 130.3	<1.51	40.0 J	<0.849	16,000	5.65 J	9.31	17.7	----	6,150	1.70 J	<0.0700
U4-MW-15DD	12/13/2023	N	EM16	UMCf	120.3 - 130.3	2.13 J	85.5 J	<0.849	16,900	5.40 J	8.44	48.5	----	6,340	1.97 J	<0.0700
U4-MW-15DD	3/12/2024	N	EM19	UMCf	120.3 - 130.3	<1.51	<18.0	<0.849	19,200	16.3	10.1	45.0	----	6,910	2.23	<0.0700
U4-MW-15DD	6/14/2024	N	EM20	UMCf	120.3 - 130.3	<1.51	<18.0	<0.849	16,500	16.9	9.34	74.9	----	6,330	1.82 J	<0.0700
U4-MW-15DD	9/24/2024	N	EM21	UMCf	120.3 - 130.3	4.01 J	41.5 J	<0.849	17,700	6.68 J	9.70	32.1	----	6,460	2.16	<0.0700
U4-MW-15I	4/12/2022	N	BL02	UMCf	76.8 - 86.8	<1.51	24.4 J	<0.849	56,500	14.9	17.8	<0.816	25.2 J	22,300	2.64	<0.0700
U4-MW-15I	12/5/2022	N	EM04	UMCf	76.8 - 86.8	<1.51	<18.0	<0.849	73,800	61.8	11.5	2.11	----	22,500	2.82	0.105 J
U4-MW-15I	3/17/2023	N	EM07	UMCf	76.8 - 86.8	<1.51	7,360	<0.849	137,000	4,380	<1.16	2.63	----	16,200	<0.300	<0.0700
U4-MW-15I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<1.51	5,050	<0.849	136,000	3,610	<1.16	2.53 J+	----	18,700	<0.300	<0.0700
U4-MW-15I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	<1.51	143	<0.849	145,000	1,240	32.2	50.1	----	25,200	2.07	<0.0700
U4-MW-15I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	11.5 J	92.8 J	<4.24	147,000	1,370	14.1	9.26 J	----	24,600	2.49 J	<0.350
U4-MW-15I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	31.0	29.5 J	<4.24	227,000	1,320	16.6	11.6	----	33,300	<1.50	<0.350
U4-MW-15I	6/17/2024	N	EM20	UMCf	76.8 - 86.8	<7.55	<18.0	<4.24	202,000	1,020	23.5	8.27 J	----	34,400	2.94 J	<0.350
U4-MW-15I	9/25/2024	N	EM21	UMCf	76.8 - 86.8	10.8 J-	427 J-	<0.849 UJ	772,000 J-	981 J-	24.7 J-	3.54 J-	----	399,000 J-	5.54 J-	<0.0700 UJ
U4-MW-15S	4/13/2022	N	BL02	UMCf	54.8 - 64.8	<1.51	95.9 J	<0.849	50,100 J	2.61 J	19.2	<0.816	50.3 J	15,200 J	2.71	<0.0700
U4-MW-15S	12/5/2022	N	EM04	UMCf	54.8 - 64.8	<1.51	3,440	<0.849	61,300	465	1.18 J	2.37	----	33,300	0.690 J	<0.0700
U4-MW-15S	3/13/2023	N	EM07	UMCf	54.8 - 64.8	<7.55	<18.0	<0.849	56,900	267	<1.16	<4.08	----	18,700	<0.300	<0.0700
U4-MW-15S	6/13/2023	N	EM10	UMCf	54.8 - 64.8	<1.51	154 J+	<0.849	69,600 J+	354	<1.16	1.34 J	----	20,100	<0.300	0.0721 J
U4-MW-15S	9/14/2023	N	EM13	UMCf	54.8 - 64.8	<1.51	1,790	1.22 J	120,000	1,190	2.44 J	3.15	----	25,800	<0.300	0.0732 J
U4-MW-15S	12/11/2023	N	EM16	UMCf	54.8 - 64.8	7.07 J	289	<0.849	142,000	1,680	13.1	14.9	----	24,200	<0.300	<0.0700
U4-MW-15S	3/12/2024	N	EM19	UMCf	54.8 - 64.8	<1.51	260 J+	<0.849	161,000	1,420	11.6	16.3	----	25,600	<0.300	<0.0700
U4-MW-15S	3/26/2024	N	EM19	UMCf	54.8 - 64.8	<1.51	97.9 J	<0.849	120,000	1,190	<1.16	1.90 J	----	21,100	<0.300	<0.0700
U4-MW-15S	6/14/2024	N	EM20	UMCf	54.8 - 64.8	<1.51	2,020	<0.849	85,300	1,090	<1.16	10.5	----	17,900	<0.300	<0.0700

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Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020
						Copper	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silver
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-15S	9/20/2024	N	EM21	UMCf	54.8 - 64.8	3.28 J	1,780	<0.849	87,400	1,110	12.5	1.20 J	----	15,900	<0.300	<0.0700
U4-MW-16D	4/11/2022	N	BL02	UMCf	96.8 - 106.8	<15.1	<18.0	<8.49	240,000	12.4	4.62 J	<8.16	<18.3	30,600	5.89 J	<0.700
U4-MW-16D	12/5/2022	N	EM04	UMCf	96.8 - 106.8	<1.51	<18.0	<0.849	318,000	25.7	11.8	<0.816 UJ	----	8,140	0.707 J	<0.0700
U4-MW-16D	3/14/2023	N	EM07	UMCf	96.8 - 106.8	<7.55	<18.0	<4.24	326,000	114	5.53	<4.08	----	39,200	5.22 J	<0.350
U4-MW-16D	6/13/2023	N	EM10	UMCf	96.8 - 106.8	<15.1	<18.0	<8.49	502,000 J+	286	7.04 J+	<8.16	----	52,500	3.17 J	<0.700
U4-MW-16D	9/15/2023	N	EM13	UMCf	96.8 - 106.8	15.1 J	21.7 J	<4.24	340,000	199	8.47	7.75 J	----	37,400	<1.50	<0.350
U4-MW-16D	12/14/2023	N	EM16	UMCf	96.8 - 106.8	21.5 J	<18.0	<8.49	357,000	17.4	3.94 J	<8.16	----	44,400	<3.00	<0.700
U4-MW-16D	3/14/2024	N	EM19	UMCf	96.8 - 106.8	<7.55	<18.0	<4.24	312,000	27.7	3.83 J	<4.08	----	36,600	1.98 J	<0.350
U4-MW-16D	6/17/2024	N	EM20	UMCf	96.8 - 106.8	<7.55	<18.0	<4.24	349,000	20.1 J+	4.63 J	<4.08	----	38,800	<1.50	<0.350
U4-MW-16D	9/20/2024	N	EM21	UMCf	96.8 - 106.8	87.7	<18.0	<0.849	356,000	14.3 J+	2.66 J	<0.816	----	41,300	2.61	0.0728 J
U4-MW-16DD	4/12/2022	N	BL02	UMCf	120.8 - 130.8	2.29 J	25.5 J	<0.849	48,200	11.0	13.8	0.870 J	<18.3	12,500	3.05	<0.0700
U4-MW-16DD	12/5/2022	N	EM04	UMCf	120.8 - 130.8	<1.51	<18.0	<0.849	36,000	7.25 J	12.6	<0.816	----	10,300	2.31	<0.0700
U4-MW-16DD	3/15/2023	N	EM07	UMCf	120.8 - 130.8	2.22 J	<18.0	<0.849	33,400	4.46 J	10.4	2.13	----	9,810	1.97 J	<0.0700
U4-MW-16DD	6/13/2023	N	EM10	UMCf	120.8 - 130.8	3.20 J	<18.0	<0.849	28,800 J+	2.70 J	12.0 J+	<0.816	----	10,000 J+	2.26	<0.0700
U4-MW-16DD	9/14/2023	N	EM13	UMCf	120.8 - 130.8	1.68 J	<18.0	<0.849	25,900	3.25 J	11.0	2.56	----	8,270	1.76 J	<0.0700
U4-MW-16DD	12/13/2023	N	EM16	UMCf	120.8 - 130.8	3.38 J	<18.0	<0.849	26,600	5.94 J	10.6	16.5	----	8,410	1.78 J	<0.0700
U4-MW-16DD	3/14/2024	N	EM19	UMCf	120.8 - 130.8	2.06 J	<18.0	<0.849	26,600	9.14 J	12.1	37.2	----	9,020	1.67 J	<0.0700
U4-MW-16DD	6/17/2024	N	EM20	UMCf	120.8 - 130.8	<1.51	<18.0	<0.849	25,000	4.79 J	13.2	12.9	----	8,240	0.838 J	<0.0700
U4-MW-16DD	9/19/2024	N	EM21	UMCf	120.8 - 130.8	<1.51	<18.0	<0.849	23,300	3.76 J	14.5	9.07 J+	----	8,250	1.11 J	<0.0700
U4-MW-16I	4/11/2022	N	BL02	UMCf	77.0 - 87.0	<1.51	<18.0	<0.849	76,200	2.20 J	13.7	<0.816	<18.3	30,800	2.58	<0.0700
U4-MW-16I	12/5/2022	N	EM04	UMCf	77.0 - 87.0	<1.51	33.5 J	<0.849	85,400	629	5.24	7.02	----	25,600	<0.300	<0.0700
U4-MW-16I	12/5/2022	FD	EM04	UMCf	77.0 - 87.0	<1.51	33.8 J	<0.849	86,100	634	5.43	4.10 J	----	24,600	<0.300	<0.0700
U4-MW-16I	3/13/2023	N	EM07	UMCf	77.0 - 87.0	<1.51	3,540	1.23 J	229,000	4,580	<1.16	6.94	----	25,600	<0.300	<0.0700
U4-MW-16I	3/13/2023	FD	EM07	UMCf	77.0 - 87.0	<1.51	3,530	<0.849	229,000	4,600	1.59 J	6.97	----	25,500	<0.300	<0.0700
U4-MW-16I	6/12/2023	N	EM10	UMCf	77.0 - 87.0	1.67 J	5,740	<0.849 UJ	199,000	4,650	<1.16	8.25	----	17,500	<0.300	<0.0700
U4-MW-16I	6/12/2023	FD	EM10	UMCf	77.0 - 87.0	2.48 J	5,810	4.76 J	202,000	4,640	<1.16	8.37	----	17,600	<0.300	<0.0700
U4-MW-16I	9/11/2023	N	EM13	UMCf	77.0 - 87.0	3.78 J	18.7 J	2.11 J+	473,000	2,590	25.9	77.3	----	51,000	3.86	<0.0700
U4-MW-16I	9/11/2023	FD	EM13	UMCf	77.0 - 87.0	3.43 J	20.4 J	<0.849	472,000	2,590	26.9	75.6	----	49,700	3.61	<0.0700
U4-MW-16I	12/11/2023	N	EM16	UMCf	77.0 - 87.0	36.4 J+	<18.0	<4.24	443,000	865	10.1	9.29 J	----	52,100	3.01 J	<0.350
U4-MW-16I	12/11/2023	FD	EM16	UMCf	77.0 - 87.0	37.2 J+	<18.0	<4.24	438,000	857	8.91	9.01 J	----	51,100	3.49 J	<0.350
U4-MW-16I	3/11/2024	N	EM19	UMCf	77.0 - 87.0	<7.55	<18.0	<4.24	417,000	586	8.15	14.7	----	48,900	3.96 J	<0.350
U4-MW-16I	3/11/2024	FD	EM19	UMCf	77.0 - 87.0	<7.55	<18.0	<4.24	437,000	614	8.21	13.7	----	51,100	4.36 J	<0.350
U4-MW-16I	6/18/2024	N	EM20	UMCf	77.0 - 87.0	<7.55	39.0 J	<4.24	378,000	963	15.2	7.16 J	----	51,200	4.53 J	<0.350
U4-MW-16I	6/18/2024	FD	EM20	UMCf	77.0 - 87.0	<7.55	38.5 J	<4.24	376,000	946	14.6	6.69 J	----	51,600	3.91 J	<0.350
U4-MW-16I	9/19/2024	N	EM21	UMCf	77.0 - 87.0	<15.1	37.8 J	<8.49	361,000	829	11.6 J	<8.16	----	48,200	5.61 J	<0.700
U4-MW-16I	9/19/2024	FD	EM21	UMCf	77.0 - 87.0	<15.1	37.4 J	<8.49	360,000	826	11.9 J	<8.16	----	48,900	4.96 J	<0.700
U4-MW-16S	4/12/2022	N	BL02	UMCf	54.8 - 64.8	<1.51	<18.0	<0.849	37,500	2.69 J	18.3	<0.816	28.9 J	18,500	2.47	<0.0700
U4-MW-16S	4/12/2022	FD	BL02	UMCf	54.8 - 64.8	<1.51	<18.0	<0.849	37,700	2.07 J	18.4	<0.816	25.5 J	18,300	2.96	<0.0700
U4-MW-16S	12/6/2022	N	EM04	UMCf	54.8 - 64.8	<1.51 UJ	<28.1 UJ	<0.849 UJ	57,200	19.9	40.2	<0.816 UJ	----	16,000	1.13 J	<0.0700 UJ
U4-MW-16S	3/15/2023	N	EM07	UMCf	54.8 - 64.8	<1.51	10,700	<0.849	151,000	1,240	<1.16	<4.08	----	21,100	0.408 J	0.100 J
U4-MW-16S	6/13/2023	N	EM10	UMCf	54.8 - 64.8	<1.51	12,500	<0.849	203,000 J+	2,430	<1.16	3.19	----	20,200	<0.300	<0.0700
U4-MW-16S	9/11/2023	N	EM13	UMCf	54.8 - 64.8	<1.51	4,050	1.26 J	93,200	720	<1.16	2.79	----	14,000	<0.300	<0.0700
U4-MW-16S	12/11/2023	N	EM16	UMCf	54.8 - 64.8	5.88 J+	5,940	<0.849	118,000	944	1.63 J	2.50 J+	----	13,900	<0.300	<0.0700
U4-MW-16S	3/11/2024	N	EM19	UMCf	54.8 - 64.8	<1.51	7,480	<0.849	169,000	1,100	<1.16	3.18	----	16,000	<0.300	<0.0700
U4-MW-16S	6/17/2024	N	EM20	UMCf	54.8 - 64.8	<1.51	3,490	<0.849	113,000	672	<1.16	2.29 J+	----	13,100	<0.300	<0.0700
U4-MW-16S	9/20/2024	N	EM21	UMCf	54.8 - 64.8	2.73 J	2,330	<0.849	71,800	350	2.40 J	1.65 J	----	10,900	<0.300	<0.0700
U4-SLMW	11/10/2022	N	EM03	-	-	----	----	----	----	----	----	----	----	----	----	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020
						Copper	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silver
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-T3	10/13/2022	N	EM02	-	-	----	----	----	----	----	----	----	----	----	----	----
U4-T3	11/3/2022	N	EM03	-	-	----	----	----	----	----	----	----	----	----	----	----
U4-T3	12/6/2022	N	EM04	-	-	----	----	----	----	----	----	----	----	----	----	----
U4-T3	1/9/2023	N	EM05	-	-	----	----	----	----	----	----	----	----	----	----	----
U4-T3	2/13/2023	N	EM06	-	-	----	----	----	----	----	----	----	----	----	----	----
U4-T3	3/13/2023	N	EM07	-	-	----	----	----	----	----	----	----	----	----	----	----
U4-T3	4/19/2023	N	EM08	-	-	----	----	----	----	----	----	----	----	----	----	----
U4-T3	5/18/2023	N	EM09	-	-	----	----	----	----	----	----	----	----	----	----	----
U4-T3	6/12/2023	N	EM10	-	-	----	----	----	----	----	----	----	----	----	----	----
U4-T3	7/11/2023	N	EM11	-	-	----	----	----	----	----	----	----	----	----	----	----
U4-T3	8/10/2023	N	EM12	-	-	----	----	----	----	----	----	----	----	----	----	----
U4-T3	9/11/2023	N	EM13	-	-	----	----	----	----	----	----	----	----	----	----	----
U4-T3	10/16/2023	N	EM14	-	-	----	----	----	----	----	----	----	----	----	----	----

Notes:
FD - Field duplicate
E - Field instrument error.
J - The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J- - The result is an estimated quantity, but the result may be biased low.
J+ - The result is an estimated quantity, but the result may be biased high.
N/A - Not Applicable
mg/L - milligrams per liter
µg/L - micrograms per liter
N - Normal field sample

R - The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

UMCf- Upper Muddy Creek Formation
< - The analyte was analyzed for, but was not detected above the level of the reported
-- Not tested.
U4-E-08D has been abandoned.
M-252 damaged/obstructed when checked on June 14, 2023 and September 14, 2023.
U4-MW-08S and U4-MW-15S were purged and resampled for EM19 on March 25-26, 2024; Original EM19 samples were collected via bailer due to well condition.
Lab was unable to analyze and report TDS for samples L1782240-20 (U4-E-09I-EM21) and -21 (U4-E-09I-EM21-FD) due to the thickness of the sample matrix.

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Table 2
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Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
						Sodium	Thallium	Uranium	Vanadium	Zinc	Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH	Purge Rate
						µg/L	µg/L	µg/L	µg/L	µg/L	mS/cm	mg/L	mg/L	mV	SU	mL/min
M-247-100	4/20/2022	N	BL02	UMCf	100.5 - 110.5	----	----	----	----	----	0.956	1.80	0.0 U	22.9	8.02	190
M-249-100	4/20/2022	N	BL02	UMCf	99.6 - 109.6	----	----	----	----	----	34.552	0.56	0.0 U	140.6	6.99	120
M-251-100	4/19/2022	N	BL02	UMCf	92.5 - 102.5	----	----	----	----	----	42.112	1.63	0.0 U	212.1	7.36	100
M-251-100	10/13/2022	N	EM02	UMCf	92.5 - 102.5	----	----	----	----	----	16.998	4.13	----	172.0	7.19	280
M-251-100	11/2/2022	N	EM03	UMCf	92.5 - 102.5	----	----	----	----	----	18.268	4.61	----	118.7	7.71	250
M-251-100	12/8/2022	N	EM04	UMCf	92.5 - 102.5	----	----	----	----	----	19.870	4.83	----	123.6	7.38	100
M-251-100	1/11/2023	N	EM05	UMCf	92.5 - 102.5	----	----	----	----	----	9.502	5.52	----	132.4	7.49	250
M-251-100	2/13/2023	N	EM06	UMCf	92.5 - 102.5	----	----	----	----	----	10.973	6.27	----	184.3	8.08	80
M-251-100	3/17/2023	N	EM07	UMCf	92.5 - 102.5	1,700,000	<0.605	6.02 J	11.3 J	<15.1	12.924	8.09	0.0 U	129.4	7.57	70
M-251-100	4/21/2023	N	EM08	UMCf	92.5 - 102.5	----	----	----	----	----	17.375	0.57	0.0 U	106.3	7.44	120
M-251-100	5/9/2023	N	EM09	UMCf	92.5 - 102.5	----	----	----	----	----	19.858	4.58	0.0 U	147.1	7.40	140
M-251-100	6/14/2023	N	EM10	UMCf	92.5 - 102.5	2,690,000	<0.605	5.71	<4.99	<15.1	19.291	3.85	0.0 U	221.0	7.55	270
M-251-100	7/14/2023	N	EM11	UMCf	92.5 - 102.5	----	----	----	----	----	17.476	5.11	0.0 U	285.2	7.83	120
M-251-100	8/10/2023	N	EM12	UMCf	92.5 - 102.5	----	----	----	----	----	22.933	3.58	0 U	129.1	7.53	75
M-251-100	9/14/2023	N	EM13	UMCf	92.5 - 102.5	2,520,000	<0.605	9.66	<4.99	<15.1	18.1	1.48	0 U	-27.3	7.22	130
M-251-100	10/19/2023	N	EM14	UMCf	92.5 - 102.5	----	----	----	----	----	19.504	0.11	0 U	-7.9	6.59	180
M-251-100	11/16/2023	N	EM15	UMCf	92.5 - 102.5	----	----	----	----	----	19.571	0.19	0 U	-25.9	6.57	210
M-251-100	12/12/2023	N	EM16	UMCf	92.5 - 102.5	2,820,000	<1.21	16.9	<4.99	<30.2	21.045	1.01	0.0 U	135.1	6.79	180
M-251-100	1/25/2024	N	EM17	UMCf	92.5 - 102.5	----	----	----	----	----	20.918	0.43	0.0 U	-306.6	6.75	100
M-251-100	2/13/2024	N	EM18	UMCf	92.5 - 102.5	----	----	----	----	----	11.741	0.00	1.0	-81.3	4.80	100
M-251-100	3/11/2024	N	EM19	UMCf	92.5 - 102.5	2,670,000	<0.605	84.3	67.8	96.8 J	17.631	-0.01	3.5	-383.0	5.99	0
M-251-100	6/17/2024	N	EM20	UMCf	92.5 - 102.5	2,760,000	<1.21	170	42.1	88.3 J	15.505	0.60	1.5	164.0	5.04	50
M-251-100	9/23/2024	N	EM21	UMCf	92.5 - 102.5	581,000	<0.605	259	29.6	34.3 J	31.333	0.20	0.0 U	111.1	5.59	90
M-251-60	4/18/2022	N	BL02	UMCf	52.3 - 62.3	----	----	----	----	----	5.163	5.64	0.0 U	44.4	10.69	100
M-251-60	3/15/2023	N	EM07	UMCf	52.3 - 62.3	815,000	<0.121	0.164 J	88.6	3.06 J	3.539	2.45	0.0 U	14.4	11.12	0
M-251-60	6/14/2023	N	EM10	UMCf	52.3 - 62.3	836,000	<0.121	0.184 J	82.9	9.60 J	4.110	1.37	0.0 U	112.5	10.40	300
M-251-60	9/14/2023	N	EM13	UMCf	52.3 - 62.3	772,000	<0.121	<0.0789	75.2	<3.02	4.01	0.65	0 U	25	10.46	180
M-251-60	12/11/2023	N	EM16	UMCf	52.3 - 62.3	770,000	<0.121	0.379 J	84.3	<3.02	3877.000	2.70	----	-11.9	10.35	150
M-251-60	3/12/2024	N	EM19	UMCf	52.3 - 62.3	642,000	<0.121	17.5	39.3	27.5 J+	3.206	6.34	0.0 U	0.9	9.03	0
M-251-60	6/19/2024	N	EM20	UMCf	52.3 - 62.3	621,000	<0.121	12.2	14.4 J	<3.02	5.958	0.14	0.0 U	-228.9	8.80	100
M-251-60	9/20/2024	N	EM21	UMCf	52.3 - 62.3	627,000	<0.121	7.00	10.2 J	<3.02	27.989	0.04	0.0 U	-324.9	8.90	180
M-252	4/21/2022	N	BL02	UMCf	132.3 - 142.3	----	----	----	----	----	2.053	5.66	0.0 U	142.6	8.13	100
M-252	3/15/2023	N	EM07	UMCf	132.3 - 142.3	307,000	<0.121	0.682 J	<4.99	<3.02	1.095	1.94	0.0 U	142.0	8.10	20
M-252	9/19/2023	N	EM13	UMCf	132.3 - 142.3	195,000	<0.121	1.93	9.74 J	10.5 J	3.971	-4.01	0 U	363.8	7.32	60
M-252	12/18/2023	N	EM16	UMCf	132.3 - 142.3	225,000	<0.121	3.34	9.22 J	<3.02	2.708	3.52	0.0 U	305.6	7.08	60
M-252	3/12/2024	N	EM19	UMCf	132.3 - 142.3	254,000	<0.121	1.81	8.51 J	4.00 J	3.452	6.06	0.0 U	201.3	7.89	40
M-252	6/19/2024	N	EM20	UMCf	132.3 - 142.3	207,000	<0.121	3.53	11.3 J	<3.02	5.775	3.88	0.0 U	127.3	7.00	100
M-252	9/24/2024	N	EM21	UMCf	132.3 - 142.3	183,000	<0.121	1.90	15.0	<3.02	2.409	1.41	0.0 U	69.8	7.49	40
M-253-100	4/20/2022	N	BL02	UMCf	100.8 - 110.8	----	----	----	----	----	2.393	3.04	0.0 U	36.4	8.03	60
M-255-100	4/20/2022	N	BL02	UMCf	100.2 - 110.2	----	----	----	----	----	2.198	1.87	0.0 U	175.7	7.89	100
U4-E-01D	4/18/2022	N	BL02	UMCf	94.7 - 109.7	----	----	----	----	----	42.734	0.85	0.0 U	167.3	7.78	100
U4-E-01D	3/14/2023	N	EM07	UMCf	94.7 - 109.7	109,000	<0.121	4.22	<4.99	31.6	1.180	7.21	0.0 U	172.0	8.08	100
U4-E-01D	6/20/2024	N	EM20	UMCf	94.7 - 109.7	978,000	<1.09	1.54 J	52.6 J	93.9 J	11.740	0.08	0.0 U	-23.2	5.05	120
U4-E-01D	9/25/2024	N	EM21	UMCf	94.7 - 109.7	902,000 J-	<0.121 UJ	0.978 J	15.9 J-	31.8 J-	14.328	0.00	0.0 U	-252.5	6.88	60
U4-E-01I	4/19/2022	N	BL02	UMCf	74.6 - 89.6	----	----	----	----	----	0.072	9.17	0.0 U	120.6	8.70	100
U4-E-01I	4/19/2022	FD	BL02	UMCf	74.6 - 89.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-01I	3/14/2023	N	EM07	UMCf	74.6 - 89.6	1,240,000	<0.121	13.1	11.1 J	6.82 J	8.100	8.18	0.0 U	138.0	7.74	100

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
						Sodium	Thallium	Uranium	Vanadium	Zinc	Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH	Purge Rate
						µg/L	µg/L	µg/L	µg/L	µg/L	mS/cm	mg/L	mg/L	mV	SU	mL/min
U4-E-01I	4/20/2023	N	EM08	UMCf	74.6 - 89.6	----	----	----	----	----	6.667	0.56	----	41.1	7.06	----
U4-E-01I	5/10/2023	N	EM09	UMCf	74.6 - 89.6	----	----	----	----	----	19.499	-8.13	----	92.8	6.87	----
U4-E-01I	6/12/2023	N	EM10	UMCf	74.6 - 89.6	----	----	----	----	----	5.467	6.43	----	234.8	6.65	----
U4-E-01I	7/11/2023	N	EM11	UMCf	74.6 - 89.6	----	----	----	----	----	4.658	2.89	----	-164.3	6.15	----
U4-E-01I	8/10/2023	N	EM12	UMCf	74.6 - 89.6	----	----	----	----	----	0.158	2.53	----	-105.1	6.85	----
U4-E-01I	9/11/2023	N	EM13	UMCf	74.6 - 89.6	----	----	----	----	----	3.207	0.47	----	-377.9	5.96	----
U4-E-01I	10/16/2023	N	EM14	UMCf	74.6 - 89.6	----	----	----	----	----	3.439	2.71	----	-147.9	5.45	----
U4-E-01I	12/13/2023	N	EM16	UMCf	74.6 - 89.6	----	----	----	----	----	2.931	0.03	2.0	-103.0	4.19	210
U4-E-01I	1/24/2024	N	EM17	UMCf	74.6 - 89.6	----	----	----	----	----	3.143	0.24	4.0	-95.8	3.93	60
U4-E-01I	2/14/2024	N	EM18	UMCf	74.6 - 89.6	----	----	----	----	----	1.943	0.09	----	-134.9	4.33	100
U4-E-01I	3/12/2024	N	EM19	UMCf	74.6 - 89.6	----	----	----	----	----	2.777	-1.93	0.0 U	-140.5	4.39	100
U4-E-01I	6/20/2024	N	EM20	UMCf	74.6 - 89.6	744,000	<1.09	0.771 J	17.8 J	48.3 J	7.784	0.11	1.5	11.4	4.76	130
U4-E-01I	9/25/2024	N	EM21	UMCf	74.6 - 89.6	816,000 J-	<0.121 UJ	0.353 J	14.6 J-	<3.02 UJ	10.426	0.02	0.0 U	-178.9	6.91	60
U4-E-02D	4/20/2022	N	BL02	UMCf	94.4 - 109.4	----	----	----	----	----	9.255	0.62	0.0 U	129.9	7.36	130
U4-E-02D	3/14/2023	N	EM07	UMCf	94.4 - 109.4	107,000	<0.121	4.17	<4.99	39.1	1.040	5.47	0.0 U	36.0	7.96	100
U4-E-02D	6/19/2024	N	EM20	UMCf	94.4 - 109.4	802,000	<0.605	2.38 J	26.6	<15.1	10.059	0.06	4.0	-96.3	5.00	100
U4-E-02D	9/27/2024	N	EM21	UMCf	94.4 - 109.4	751,000	<1.09 UJ	2.68 J	16.7 J	111 J	10.337	1.27	0.0 U	-159.2	6.84	50
U4-E-02I	4/18/2022	N	BL02	UMCf	74.4 - 89.4	----	----	----	----	----	9.309	4.25	0.0 U	190.6	8.46	105
U4-E-02I	3/14/2023	N	EM07	UMCf	74.4 - 89.4	310,000	<0.121	8.65	11.2 J	109	1.211	5.22	0.0 U	162.8	7.49	50
U4-E-02I	4/20/2023	N	EM08	UMCf	74.4 - 89.4	----	----	----	----	----	5.027	0.34	----	-84.5	7.19	----
U4-E-02I	5/11/2023	N	EM09	UMCf	74.4 - 89.4	----	----	----	----	----	59.186	15.52	----	10.9	8.30	----
U4-E-02I	6/12/2023	N	EM10	UMCf	74.4 - 89.4	----	----	----	----	----	5.989	5.67	----	-127.4	6.82	----
U4-E-02I	7/11/2023	N	EM11	UMCf	74.4 - 89.4	----	----	----	----	----	5.684	5.14	----	-26.8	7.10	----
U4-E-02I	8/10/2023	N	EM12	UMCf	74.4 - 89.4	----	----	----	----	----	3.161	4.11	----	-1.6	7.04	----
U4-E-02I	9/11/2023	N	EM13	UMCf	74.4 - 89.4	----	----	----	----	----	2.626	0.82	----	-204.4	6.43	----
U4-E-02I	10/16/2023	N	EM14	UMCf	74.4 - 89.4	----	----	----	----	----	5.429	3.75	----	-170.1	6.29	----
U4-E-02I	12/14/2023	N	EM16	UMCf	74.4 - 89.4	----	----	----	----	----	6.511	-0.06	5.5	-253.0	5.23	270
U4-E-02I	1/22/2024	N	EM17	UMCf	74.4 - 89.4	----	----	----	----	----	5.245	0.00	5.0	-187.9	5.33	60
U4-E-02I	2/13/2024	N	EM18	UMCf	74.4 - 89.4	----	----	----	----	----	6.017	0.07	----	-128.9	4.93	100
U4-E-02I	3/13/2024	N	EM19	UMCf	74.4 - 89.4	----	----	----	----	----	5.748	0.15	0.0 U	-167.5	5.35	150
U4-E-02I	6/19/2024	N	EM20	UMCf	74.4 - 89.4	1,220,000	<0.605	55.2	672	72.7 J	10.133	0.14	1.0	-32.3	4.73	200
U4-E-02I	9/24/2024	N	EM21	UMCf	74.4 - 89.4	1,530,000	<0.605	98.5	364	<15.1	14.321	0.09	3.0	-34.4	5.97	60
U4-E-03D	4/19/2022	N	BL02	UMCf	95.1 - 110.1	----	----	----	----	----	36.139	0.68	0.0 U	96.0	7.14	200
U4-E-03D	10/13/2022	N	EM02	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	----
U4-E-03D	11/3/2022	N	EM03	UMCf	95.1 - 110.1	----	----	----	----	----	16.802	4.86	----	109.3	7.34	----
U4-E-03D	12/6/2022	N	EM04	UMCf	95.1 - 110.1	----	----	----	----	----	11.752	6.10	----	198.2	7.40	----
U4-E-03D	1/9/2023	N	EM05	UMCf	95.1 - 110.1	----	----	----	----	----	9.776	7.80	----	117.4	7.79	----
U4-E-03D	2/13/2023	N	EM06	UMCf	95.1 - 110.1	----	----	----	----	----	11.469	7.00	----	83.8	7.44	----
U4-E-03D	3/13/2023	N	EM07	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	----
U4-E-03D	3/14/2023	N	EM07	UMCf	95.1 - 110.1	2,730,000	<0.605	13.7	11.5 J	<15.1	13.740	5.37	0.0 U	76.6	7.30	120
U4-E-03D	4/19/2023	N	EM08	UMCf	95.1 - 110.1	----	----	----	----	----	11.829	0.51	----	-58.5	6.55	----
U4-E-03D	5/11/2023	N	EM09	UMCf	95.1 - 110.1	----	----	----	----	----	121.248	17.27	----	51.7	6.26	----
U4-E-03D	6/12/2023	N	EM10	UMCf	95.1 - 110.1	----	----	----	----	----	16.419	6.77	----	180.8	6.40	----
U4-E-03D	7/11/2023	N	EM11	UMCf	95.1 - 110.1	----	----	----	----	----	16.930	2.16	----	154.2	6.62	----
U4-E-03D	8/10/2023	N	EM12	UMCf	95.1 - 110.1	----	----	----	----	----	9.19	3.25	----	246.9	9.01	----
U4-E-03D	9/11/2023	N	EM13	UMCf	95.1 - 110.1	----	----	----	----	----	17.112	1.28	----	95.6	6.58	----
U4-E-03D	10/16/2023	N	EM14	UMCf	95.1 - 110.1	----	----	----	----	----	10.941	3.51	----	81.8	6.15	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
						Sodium	Thallium	Uranium	Vanadium	Zinc	Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH	Purge Rate
						µg/L	µg/L	µg/L	µg/L	µg/L	mS/cm	mg/L	mg/L	mV	SU	mL/min
U4-E-03D	6/10/2024	N	EM20	UMCf	95.1 - 110.1	682,000	<0.121	0.319 J	8.95 J	13.3 J	8.444	0.05	2.5	-78.3	5.18	150
U4-E-03D	6/10/2024	FD	EM20	UMCf	95.1 - 110.1	669,000	<0.121	0.525 J	9.51 J	17.0 J	----	----	----	----	----	----
U4-E-03D	9/27/2024	N	EM21	UMCf	95.1 - 110.1	780,000	<1.09 UJ	2.11 J	14.0 J	115 J	9.842	4.88	0.0 U	-72.8	7.11	50
U4-E-03D	9/27/2024	FD	EM21	UMCf	95.1 - 110.1	840,000	<1.09 UJ	1.41 J	8.98 J	52.6 J	----	----	----	----	----	----
U4-E-04D	4/19/2022	N	BL02	UMCf	95.0 - 110.0	----	----	----	----	----	22.249	1.29	0.0 U	34.2	7.19	70
U4-E-04D	3/14/2023	N	EM07	UMCf	95.0 - 110.0	106,000	<0.121	4.19	<4.99	35.1	0.999	6.07	0.0 U	48.3	8.06	100
U4-E-04D	6/20/2024	N	EM20	UMCf	95.0 - 110.0	787,000	<1.09	1.36 J	50.8 J	50.6 J	9.823	0.01	0.0 U	-107.6	5.26	60
U4-E-04D	9/26/2024	N	EM21	UMCf	95.0 - 110.0	598,000 J-	<1.09 UJ	3.10 J	35.0 J	29.6 J	10.947	0.02	0.0 U	-191.4	7.59	60
U4-E-04I	4/18/2022	N	BL02	UMCf	75.0 - 90.0	----	----	----	----	----	4.524	0.84	0.0 U	-18.2	8.40	70
U4-E-04I	3/14/2023	N	EM07	UMCf	75.0 - 90.0	4,390,000	<0.605	10.1	6.22 J	<15.1	22.410	4.33	0.0 U	83.0	7.42	0
U4-E-04I	6/20/2024	N	EM20	UMCf	75.0 - 90.0	674,000	0.719 J	3.41	<4.99	208	7.525	0.04	0.0 U	-72.0	4.90	60
U4-E-04I	9/26/2024	N	EM21	UMCf	75.0 - 90.0	647,000 J-	<1.09 UJ	<0.710 UJ	19.6 J	<27.2 UJ	10.737	0.01	0.0 U	-242.9	6.68	60
U4-E-05D	4/19/2022	N	BL02	UMCf	95.0 - 110.0	----	----	----	----	----	26.037	3.43	0.0 U	177.7	7.33	100
U4-E-05D	3/16/2023	N	EM07	UMCf	95.0 - 110.0	102,000	<0.121	3.57	<4.99	90.4	0.537	1.78	0.0 U	116.2	7.65	30
U4-E-05D	6/10/2024	N	EM20	UMCf	95.0 - 110.0	319,000	<0.121	0.209 J	6.72 J	18.0 J	5.802	-0.02	0.5	-48.9	4.85	150
U4-E-05D	9/27/2024	N	EM21	UMCf	95.0 - 110.0	447,000	<1.09 UJ	0.789 J	12.6 J	33.4 J	19.811	0.05	0.0 U	-251.8	6.83	150
U4-E-05I	4/19/2022	N	BL02	UMCf	75.0 - 90.0	----	----	----	----	----	5.209	0.59	0.0 U	101.8	8.45	100
U4-E-05I	3/15/2023	N	EM07	UMCf	75.0 - 90.0	698,000	<0.121	13.2	16.6 J	10.1 J	8.778	7.39	0.0 U	56.3	7.92	90
U4-E-05I	6/19/2024	N	EM20	UMCf	75.0 - 90.0	816,000	<1.09	0.839 J	<44.9	47.0 J	10.044	0.01	0.0 U	-129.2	5.16	60
U4-E-05I	9/27/2024	N	EM21	UMCf	75.0 - 90.0	1,130,000	<1.09 UJ	1.45 J	21.5 J	34.4 J	20.915	1.02	0.0 U	-15.3	7.23	150
U4-E-06D	4/11/2022	N	BL02	UMCf	95.1 - 110.1	1,310,000	<0.121	5.59	<4.99	5.24 J	9.911	2.39	0.0 U	138.8	7.24	90
U4-E-06D	6/20/2024	N	EM20	UMCf	95.1 - 110.1	284,000	<1.09	2.03 J	44.4	49.1 J	9.377	0.16	0.0 U	-211.9	6.67	100
U4-E-06D	9/27/2024	N	EM21	UMCf	95.1 - 110.1	771,000	<1.09 UJ	2.08 J	11.5 J	53.4 J	20.307	0.62	0.0 U	-230.1	7.11	150
U4-E-06I	4/11/2022	N	BL02	UMCf	73.2 - 88.2	624,000	<0.121	7.83	17.4 J	4.73 J	4.282	2.10	0.0 U	128.1	7.47	90
U4-E-06I	4/11/2022	FD	BL02	UMCf	73.2 - 88.2	622,000	<0.121	7.85	15.5 J	5.71 J	----	----	----	----	----	----
U4-E-06I	10/12/2022	N	EM02	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	----
U4-E-06I	11/3/2022	N	EM03	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	----
U4-E-06I	12/6/2022	N	EM04	UMCf	73.2 - 88.2	----	----	----	----	----	5.809	2.83	----	-204.0	6.62	----
U4-E-06I	1/9/2023	N	EM05	UMCf	73.2 - 88.2	----	----	----	----	----	3.965	55.80	----	111.2	6.81	----
U4-E-06I	2/13/2023	N	EM06	UMCf	73.2 - 88.2	----	----	----	----	----	8.481	6.55	----	-78.1	6.72	----
U4-E-06I	3/13/2023	N	EM07	UMCf	73.2 - 88.2	----	----	----	----	----	1.755	2.06	----	5.2	5.87	----
U4-E-06I	4/17/2023	N	EM08	UMCf	73.2 - 88.2	----	----	----	----	----	8.065	0.62	----	137.4	6.39	----
U4-E-06I	5/15/2023	N	EM09	UMCf	73.2 - 88.2	----	----	----	----	----	13.700	2.61	----	68.3	7.63	----
U4-E-06I	6/12/2023	N	EM10	UMCf	73.2 - 88.2	----	----	----	----	----	15.651	5.52	----	259.0	6.56	----
U4-E-06I	7/11/2023	N	EM11	UMCf	73.2 - 88.2	----	----	----	----	----	14.385	2.42	----	83.3	6.39	----
U4-E-06I	8/11/2023	N	EM12	UMCf	73.2 - 88.2	----	----	----	----	----	11.976	2.61	----	77.8	5.77	----
U4-E-06I	9/11/2023	N	EM13	UMCf	73.2 - 88.2	----	----	----	----	----	3.76	2.52	----	-110.2	6.1	----
U4-E-06I	10/16/2023	N	EM14	UMCf	73.2 - 88.2	----	----	----	----	----	7.728	2.43	----	-129.9	6.18	----
U4-E-06I	12/13/2023	N	EM16	UMCf	73.2 - 88.2	----	----	----	----	----	10.273	0.08	1.0	25.0	5.98	100
U4-E-06I	1/22/2024	N	EM17	UMCf	73.2 - 88.2	----	----	----	----	----	9.874	0.67	1.0	-6.0	6.23	60
U4-E-06I	2/13/2024	N	EM18	UMCf	73.2 - 88.2	----	----	----	----	----	11.720	0.57	----	161.6	6.26	60
U4-E-06I	3/11/2024	N	EM19	UMCf	73.2 - 88.2	----	----	----	----	----	12.557	0.34	0.0 U	502.2	6.68	20
U4-E-06I	6/11/2024	N	EM20	UMCf	73.2 - 88.2	2,110,000	<0.605	193	17.2 J	24.2 J	11.664	5.42	0.0 U	89.0	6.47	170
U4-E-06I	9/27/2024	N	EM21	UMCf	73.2 - 88.2	2,110,000	<0.121	192	14.8	18.3 J	12.906	0.43	1.2	37.1	6.26	90
U4-E-07D	4/12/2022	N	BL02	UMCf	94.6 - 109.6	5,760,000	<1.21	5.33 J	<25.0	<30.2	28.599	1.02	0.0 U	134.9	7.20	100
U4-E-07D	6/20/2024	N	EM20	UMCf	94.6 - 109.6	873,000	0.471 J	104	11.9 J	791	7.042	0.21	1.0	17.4	6.01	120
U4-E-07D	9/26/2024	N	EM21	UMCf	94.6 - 109.6	874,000	<0.605	110	8.87	846	15.648	0.30	0.0 U	29.1	6.03	150

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Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
						Sodium	Thallium	Uranium	Vanadium	Zinc	Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH	Purge Rate
						µg/L	µg/L	µg/L	µg/L	µg/L	mS/cm	mg/L	mg/L	mV	SU	mL/min
U4-E-07I	4/12/2022	N	BL02	UMCf	74.7 - 89.7	1,610,000	<0.121	9.05	45.7	3.42 J	6.791	2.78	0.0 U	164.9	8.12	100
U4-E-07I	10/11/2022	N	EM02	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	----
U4-E-07I	11/3/2022	N	EM03	UMCf	74.7 - 89.7	----	----	----	----	----	14.508	4.32	----	191.3	7.16	----
U4-E-07I	12/6/2022	N	EM04	UMCf	74.7 - 89.7	----	----	----	----	----	13.019	2.90	----	29.1	7.20	----
U4-E-07I	1/9/2023	N	EM05	UMCf	74.7 - 89.7	----	----	----	----	----	7.227	4.15	----	90.9	7.45	----
U4-E-07I	2/13/2023	N	EM06	UMCf	74.7 - 89.7	----	----	----	----	----	12.582	6.63	----	28.0	7.84	----
U4-E-07I	3/13/2023	N	EM07	UMCf	74.7 - 89.7	----	----	----	----	----	5.774	3.04	----	90.3	7.05	----
U4-E-07I	4/19/2023	N	EM08	UMCf	74.7 - 89.7	----	----	----	----	----	12.284	0.26	----	138.8	6.73	----
U4-E-07I	5/15/2023	N	EM09	UMCf	74.7 - 89.7	----	----	----	----	----	7.144	2.56	----	120.1	7.60	----
U4-E-07I	6/12/2023	N	EM10	UMCf	74.7 - 89.7	----	----	----	----	----	14.175	2.72	----	225.2	6.92	----
U4-E-07I	7/11/2023	N	EM11	UMCf	74.7 - 89.7	----	----	----	----	----	14.819	1.95	----	220.3	6.87	----
U4-E-07I	8/11/2023	N	EM12	UMCf	74.7 - 89.7	----	----	----	----	----	24.122	1.8	----	121.4	6.03	----
U4-E-07I	9/11/2023	N	EM13	UMCf	74.7 - 89.7	----	----	----	----	----	6.764	1.89	----	107.1	6.68	----
U4-E-07I	10/16/2023	N	EM14	UMCf	74.7 - 89.7	----	----	----	----	----	16.492	1.98	----	74.9	6.56	----
U4-E-07I	12/13/2023	N	EM16	UMCf	74.7 - 89.7	----	----	----	----	----	17.411	0.10	0.0 U	139.3	6.66	300
U4-E-07I	1/23/2024	N	EM17	UMCf	74.7 - 89.7	----	----	----	----	----	15.515	0.80	0.0 U	181.1	6.54	60
U4-E-07I	2/13/2024	N	EM18	UMCf	74.7 - 89.7	----	----	----	----	----	15.736	0.31	----	86.5	6.65	100
U4-E-07I	3/11/2024	N	EM19	UMCf	74.7 - 89.7	----	----	----	----	----	18.588	0.22	0.0 U	469.3	6.94	40
U4-E-07I	6/11/2024	N	EM20	UMCf	74.7 - 89.7	2,780,000	<0.605	129	12.3 J	44.2 J	14.405	0.25	0.0 U	136.5	6.83	200
U4-E-07I	9/26/2024	N	EM21	UMCf	74.7 - 89.7	2,470,000	<0.605	143	14.2 J	<15.1	24.642	0.56	0.0 U	127.1	6.98	150
U4-E-08D	4/12/2022	N	BL02	UMCf	94.6 - 109.6	6,200,000	<1.21	7.00 J	<25.0	<30.2	31.747	1.11	0.0 U	185.4	7.17	100
U4-E-08D	10/11/2022	N	EM02	UMCf	94.6 - 109.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-08D	11/3/2022	N	EM03	UMCf	94.6 - 109.6	----	----	----	----	----	22.510	2.00	----	-21.2	6.86	----
U4-E-08D	12/6/2022	N	EM04	UMCf	94.6 - 109.6	----	----	----	----	----	17.697	3.19	----	140.3	7.03	----
U4-E-08D	1/9/2023	N	EM05	UMCf	94.6 - 109.6	----	----	----	----	----	10.120	58.00	----	94.3	7.21	----
U4-E-08D	2/13/2023	N	EM06	UMCf	94.6 - 109.6	----	----	----	----	----	16.329	6.82	----	139.4	7.51	----
U4-E-08D	3/13/2023	N	EM07	UMCf	94.6 - 109.6	----	----	----	----	----	13.288	2.58	----	188.9	6.86	----
U4-E-08D	4/19/2023	N	EM08	UMCf	94.6 - 109.6	----	----	----	----	----	15747.000	0.26	----	52.0	6.45	----
U4-E-08D	5/17/2023	N	EM09	UMCf	94.6 - 109.6	----	----	----	----	----	13.979	3.62	----	138.5	7.13	----
U4-E-08D	6/12/2023	N	EM10	UMCf	94.6 - 109.6	----	----	----	----	----	18.024	2.95	----	271.2	6.93	----
U4-E-08D	7/11/2023	N	EM11	UMCf	94.6 - 109.6	----	----	----	----	----	16.343	1.76	----	307.9	6.95	----
U4-E-09D	4/15/2022	N	BL02	UMCf	94.5 - 109.5	1,840,000	<1.21	5.49 J	7.06 J	<30.2	16.373	1.12	0.0 U	131.3	7.20	100
U4-E-09D	6/10/2024	N	EM20	UMCf	94.5 - 109.5	672,000	<0.605	1.04 J	27.0	15.4 J	5.708	0.05	3.0	-86.9	4.97	60
U4-E-09D	9/27/2024	N	EM21	UMCf	94.5 - 109.5	80,300	<1.09 UJ	2.63 J	19.5 J	121 J	0.591	0.36	0.0 U	-170.6	7.03	90
U4-E-09I	4/14/2022	N	BL02	UMCf	74.9 - 89.9	1,100,000	<0.121	9.29	16.8 J	3.75 J	6.980	5.93	0.0 U	42.3	7.51	100
U4-E-09I	6/10/2024	N	EM20	UMCf	74.9 - 89.9	666,000	<0.605	0.560 J	16.3 J	18.0 J	7.771	0.06	0.0 U	-122.3	5.17	60
U4-E-09I	6/10/2024	FD	EM20	UMCf	74.9 - 89.9	657,000	<0.605	0.485 J	17.8 J	24.3 J	----	----	----	----	----	----
U4-E-09I	9/26/2024	N	EM21	UMCf	74.9 - 89.9	----	----	----	----	----	12.144	0.21	0.0 U	-281.5	6.90	50
U4-E-09I	9/26/2024	FD	EM21	UMCf	74.9 - 89.9	----	----	----	----	----	----	----	----	----	----	----
U4-E-10D	4/13/2022	N	BL02	UMCf	94.5 - 109.5	1,120,000	<0.121	1.64	6.53 J	<3.02	8.624	0.77	0.0 U	200.4	8.07	100
U4-E-10D	6/19/2024	N	EM20	UMCf	94.5 - 109.5	891,000	<0.605	1.62 J	26.9	28.5 J	12.292	0.01	0.0 U	-155.2	5.43	50
U4-E-10D	9/25/2024	N	EM21	UMCf	94.5 - 109.5	1,380,000	0.201 J	82.4	41.6	<3.02	22.420	0.03	0.0 U	-242.4	7.13	150
U4-E-10I	4/13/2022	N	BL02	UMCf	74.2 - 89.2	1,410,000	<0.121	10.6	14.5 J	7.05 J	9.367	1.04	0.0 U	223.7	7.20	100
U4-E-10I	6/11/2024	N	EM20	UMCf	74.2 - 89.2	652,000	0.172 J	0.763 J	15.9 J	37.4	8.468	0.04	0.0 U	-115.2	5.32	60
U4-E-10I	9/26/2024	N	EM21	UMCf	74.2 - 89.2	----	----	----	----	----	23.504	0.04	0.0 U	-249.0	6.81	150
U4-MW-01D	4/19/2022	N	BL02	UMCf	96.7 - 106.7	----	----	----	----	----	11.556	0.72	0.0 U	130.5	7.14	130
U4-MW-01D	2/16/2023	N	EM06	UMCf	96.7 - 106.7	----	----	----	----	----	7.060	11.76	----	190.0	7.35	60

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
						Sodium	Thallium	Uranium	Vanadium	Zinc	Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH	Purge Rate
						µg/L	µg/L	µg/L	µg/L	µg/L	mS/cm	mg/L	mg/L	mV	SU	mL/min
U4-MW-01D	3/20/2023	N	EM07	UMCf	96.7 - 106.7	165,000	<0.121	3.18	<4.99	<3.02	12.024	5.68	0.0 U	164.9	7.53	80
U4-MW-01D	6/13/2023	N	EM10	UMCf	96.7 - 106.7	769,000	<1.21	3.51	6.20 J	<30.2	7.279	5.89	0.0 U	217.9	7.51	360
U4-MW-01D	9/14/2023	N	EM13	UMCf	96.7 - 106.7	729,000	<0.605	4.02 J	6.62 J	<15.1	6.26	5.35	0 U	171.4	7.5	50
U4-MW-01D	12/14/2023	N	EM16	UMCf	96.7 - 106.7	705,000	<0.605	3.45 J	5.20 J	<15.1	7.489	1.80	0.0 U	192.5	7.64	60
U4-MW-01D	3/13/2024	N	EM19	UMCf	96.7 - 106.7	783,000	<0.605	6.31	5.93 J	<15.1	7.074	1.45	0.0 U	419.8	6.96	0
U4-MW-01D	6/18/2024	N	EM20	UMCf	96.7 - 106.7	677,000	<0.121	4.84	5.73 J	<3.02	6.163	0.42	0.0 U	145.8	7.20	120
U4-MW-01D	9/19/2024	N	EM21	UMCf	96.7 - 106.7	690,000	<0.605	4.90 J	7.36 J	<15.1	10.177	0.49	0.0 U	347.1	7.24	50
U4-MW-01DD	4/19/2022	N	BL02	UMCf	119.9 - 129.9	----	----	----	----	----	1.873	0.81	0.0 U	70.8	7.75	100
U4-MW-01DD	4/19/2022	FD	BL02	UMCf	119.9 - 129.9	----	----	----	----	----	----	----	----	----	----	----
U4-MW-01DD	3/15/2023	N	EM07	UMCf	119.9 - 129.9	377,000	<0.121	2.59	<4.99	<3.02	6.737	2.84	0.0 U	61.8	7.33	100
U4-MW-01DD	6/13/2023	N	EM10	UMCf	119.9 - 129.9	421,000	<1.21	1.09	<4.99	<30.2	4.786	3.56	0.0 U	171.6	7.59	320
U4-MW-01DD	9/14/2023	N	EM13	UMCf	119.9 - 129.9	425,000	<0.121	1.65	<4.99	12.8 J	4.64	2.03	0 U	145.3	7.45	90
U4-MW-01DD	12/15/2023	N	EM16	UMCf	119.9 - 129.9	296,000	<0.121	2.61	<4.99	24.5 J	2.687	3.13	0.0 U	160.6	7.57	300
U4-MW-01DD	3/12/2024	N	EM19	UMCf	119.9 - 129.9	290,000	<0.121	2.94	8.43 J	<3.02	4.138	2.42	0.0 U	276.8	7.64	30
U4-MW-01DD	6/18/2024	N	EM20	UMCf	119.9 - 129.9	275,000	<0.121	2.68	6.86 J	<3.02	2.724	2.32	0.0 U	169.2	7.44	130
U4-MW-01DD	9/20/2024	N	EM21	UMCf	119.9 - 129.9	254,000	<0.121	2.97	8.92 J	<3.02	3.345	2.62	0.0 U	198.8	7.60	60
U4-MW-01I	4/19/2022	N	BL02	UMCf	76.7 - 86.7	----	----	----	----	----	9.209	0.67	0.0 U	103.3	7.70	220
U4-MW-01I	3/20/2023	N	EM07	UMCf	76.7 - 86.7	213,000	0.148 J	3.88	<4.99	<3.02	16.598	7.69	0.0 U	137.9	7.59	110
U4-MW-01I	6/12/2023	N	EM10	UMCf	76.7 - 86.7	779,000	<0.121	3.83	<4.99	11.4 J	7.447	5.80	0.0 U	159.7	7.60	480
U4-MW-01I	9/14/2023	N	EM13	UMCf	76.7 - 86.7	873,000	<0.605	5.11	<4.99	<15.1	7.818	4.76	0 U	133.7	7.49	50
U4-MW-01I	12/15/2023	N	EM16	UMCf	76.7 - 86.7	972,000	<1.21	7.14 J	<25.0	46.4 J+	----	----	----	----	----	----
U4-MW-01I	3/13/2024	N	EM19	UMCf	76.7 - 86.7	1,040,000	<0.605	8.01	<4.99	<15.1	12.389	1.60	0.0 U	352.0	7.21	60
U4-MW-01I	6/18/2024	N	EM20	UMCf	76.7 - 86.7	999,000	<0.121	10.0	<4.99	<3.02	9.683	0.22	0.0 U	157.5	7.03	140
U4-MW-01I	9/19/2024	N	EM21	UMCf	76.7 - 86.7	961,000	<0.605	7.55	6.44 J	<15.1	15.533	0.78	0.0 U	371.8	7.14	60
U4-MW-01S	4/18/2022	N	BL02	UMCf	54.7 - 64.7	----	----	----	----	----	4.903	4.81	0.0 U	99.5	8.75	220
U4-MW-01S	3/15/2023	N	EM07	UMCf	54.7 - 64.7	859,000	<0.121	2.66	66.7	<3.02	4.199	5.90	0.0 U	-4.5	8.44	100
U4-MW-01S	6/13/2023	N	EM10	UMCf	54.7 - 64.7	854,000	<0.121	2.22	67.6	<3.02	4.283	4.21	0.0 U	164.7	8.57	420
U4-MW-01S	9/15/2023	N	EM13	UMCf	54.7 - 64.7	907,000	<0.121	3.16	68.2	<3.02	3.367	0.79	0 U	83.9	8.6	90
U4-MW-01S	12/13/2023	N	EM16	UMCf	54.7 - 64.7	742,000	<0.121	5.09	70.3	<3.02	3.665	0.10	0.0 U	-48.3	8.50	300
U4-MW-01S	3/13/2024	N	EM19	UMCf	54.7 - 64.7	664,000	<0.121	18.6	70.0	4.53 J	2.929	0.13	0.0 U	-14.7	7.31	200
U4-MW-01S	6/18/2024	N	EM20	UMCf	54.7 - 64.7	662,000	<0.121	87.1	76.0	<3.02	2.870	0.26	0.0 U	117.0	7.75	120
U4-MW-01S	9/20/2024	N	EM21	UMCf	54.7 - 64.7	650,000	<0.121	111	7.48 J	<3.02	4.176	0.47	0.0 U	-218.8	7.38	90
U4-MW-02D	4/14/2022	N	BL02	UMCf	95.0 - 110.0	----	----	----	----	----	47.936	0.74	0.0 U	206.4	7.25	100
U4-MW-02D	10/11/2022	N	EM02	UMCf	95.0 - 110.0	----	----	----	----	----	82.713	0.99	----	202.1	7.14	280
U4-MW-02D	11/1/2022	N	EM03	UMCf	95.0 - 110.0	----	----	----	----	----	61.099	0.93	----	114.9	7.21	150
U4-MW-02D	12/7/2022	N	EM04	UMCf	95.0 - 110.0	----	----	----	----	----	41.262	1.18	----	139.7	7.32	100
U4-MW-02D	1/10/2023	N	EM05	UMCf	95.0 - 110.0	----	----	----	----	----	28.405	1.73	----	124.2	7.31	250
U4-MW-02D	2/13/2023	N	EM06	UMCf	95.0 - 110.0	----	----	----	----	----	25.274	2.04	----	199.9	7.39	210
U4-MW-02D	3/17/2023	N	EM07	UMCf	95.0 - 110.0	6,650,000	<1.21	3.50 J	<4.99	<30.2	38.385	2.05	0.0 U	178.4	7.26	100
U4-MW-02D	4/19/2023	N	EM08	UMCf	95.0 - 110.0	----	----	----	----	----	37.915	0.18	0.0 U	42.5	7.15	120
U4-MW-02D	5/9/2023	N	EM09	UMCf	95.0 - 110.0	----	----	----	----	----	35.930	2.52	0.0 U	94.9	7.25	120
U4-MW-02D	6/13/2023	N	EM10	UMCf	95.0 - 110.0	7,010,000	<1.21	53.6	<25.0	<30.2	35.233	7.26	0.0 U	154.1	7.28	100
U4-MW-02D	7/18/2023	N	EM11	UMCf	95.0 - 110.0	----	----	----	----	----	40.985	1.73	0.0 U	117.3	7.25	220
U4-MW-02D	8/14/2023	N	EM12	UMCf	95.0 - 110.0	----	----	----	----	----	38.61	2.22	0 U	133.6	7.33	200
U4-MW-02D	9/11/2023	N	EM13	UMCf	95.0 - 110.0	7,670,000	<2.42	4.70 J	<4.99	<60.4	33.003	1.98	0 U	150.9	7.38	300
U4-MW-02D	10/19/2023	N	EM14	UMCf	95.0 - 110.0	----	----	----	----	----	38.108	1.6	0 U	161.6	7.19	180
U4-MW-02D	11/15/2023	N	EM15	UMCf	95.0 - 110.0	----	----	----	----	----	30.650	0.41	0 U	233.7	7.16	150

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Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
						Sodium	Thallium	Uranium	Vanadium	Zinc	Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH	Purge Rate
						µg/L	µg/L	µg/L	µg/L	µg/L	mS/cm	mg/L	mg/L	mV	SU	mL/min
U4-MW-02D	12/14/2023	N	EM16	UMCf	95.0 - 110.0	6,490,000	<2.42	6.29 J	<4.99	<60.4	30.653	1.97	0.0 U	325.6	6.99	75
U4-MW-02D	1/25/2024	N	EM17	UMCf	95.0 - 110.0	----	----	----	----	----	35.341	0.65	0.0 U	469.9	7.33	100
U4-MW-02D	2/12/2024	N	EM18	UMCf	95.0 - 110.0	----	----	----	----	----	30.620	0.62	0.0 U	153.5	7.25	100
U4-MW-02D	3/13/2024	N	EM19	UMCf	95.0 - 110.0	6,640,000	<1.21	6.81 J	14.4 J	<30.2	31.672	0.72	0.0 U	168.1	7.15	75
U4-MW-02D	6/17/2024	N	EM20	UMCf	95.0 - 110.0	4,610,000	<1.21	10.2	6.46 J	89.7 J	27.045	3.19	0.0 U	89.0	7.18	130
U4-MW-02D	9/23/2024	N	EM21	UMCf	95.0 - 110.0	5,930,000	<1.21	11.5	<6.64	<30.2	54.241	0.92	0.0 U	293.9	6.96	90
U4-MW-02I	4/14/2022	N	BL02	UMCf	75.0 - 90.0	----	----	----	----	----	8.827	3.75	0.0 U	159.8	8.09	100
U4-MW-02I	10/11/2022	N	EM02	UMCf	75.0 - 90.0	----	----	----	----	----	20.389	0.98	----	172.7	7.07	280
U4-MW-02I	11/2/2022	N	EM03	UMCf	75.0 - 90.0	----	----	----	----	----	17.936	0.44	----	148.7	6.86	200
U4-MW-02I	11/2/2022	FD	EM03	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	12/8/2022	N	EM04	UMCf	75.0 - 90.0	----	----	----	----	----	1.625	1.11	----	168.4	6.91	100
U4-MW-02I	12/8/2022	FD	EM04	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	1/13/2023	N	EM05	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	1/13/2023	FD	EM05	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	2/15/2023	N	EM06	UMCf	75.0 - 90.0	----	----	----	----	----	22.789	1.09	----	232.8	6.61	100
U4-MW-02I	2/15/2023	FD	EM06	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	3/17/2023	N	EM07	UMCf	75.0 - 90.0	4,660,000	<0.605	19.3	8.84 J	<15.1	27.205	0.39	0.0 U	129.0	6.43	105
U4-MW-02I	3/17/2023	FD	EM07	UMCf	75.0 - 90.0	4,660,000	<0.605	18.7	12.3 J	<15.1	----	----	----	----	----	----
U4-MW-02I	4/20/2023	N	EM08	UMCf	75.0 - 90.0	----	----	----	----	----	3.331	0.04	0.0 U	8.1	6.31	130
U4-MW-02I	4/20/2023	FD	EM08	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	5/9/2023	N	EM09	UMCf	75.0 - 90.0	----	----	----	----	----	3.966	1.00	0.0 U	135.2	6.57	140
U4-MW-02I	5/9/2023	FD	EM09	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	6/12/2023	N	EM10	UMCf	75.0 - 90.0	836,000	<0.121	60.1	18.9 J	12.9 J	4.378	1.99	0.0 U	110.4	6.57	60
U4-MW-02I	6/12/2023	FD	EM10	UMCf	75.0 - 90.0	810,000	<0.121	62.5	18.3 J	15.9 J	----	----	----	----	----	----
U4-MW-02I	7/18/2023	N	EM11	UMCf	75.0 - 90.0	----	----	----	----	----	4.126	0.21	1.0	-196.8	6.37	330
U4-MW-02I	7/18/2023	FD	EM11	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	8/11/2023	N	EM12	UMCf	75.0 - 90.0	----	----	----	----	----	12.098	1.33	0 U	47.7	6.36	50
U4-MW-02I	8/11/2023	FD	EM12	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	9/11/2023	N	EM13	UMCf	75.0 - 90.0	1,630,000	<0.605	65.1	34.5	<15.1	8.481	0.14	0 U	128.6	6.31	270
U4-MW-02I	9/11/2023	FD	EM13	UMCf	75.0 - 90.0	1,600,000	<0.605	63.9	34.0	<15.1	----	----	----	----	----	----
U4-MW-02I	10/19/2023	N	EM14	UMCf	75.0 - 90.0	----	----	----	----	----	15.953	0.24	0 U	136.3	6.61	210
U4-MW-02I	10/19/2023	FD	EM14	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	11/15/2023	N	EM15	UMCf	75.0 - 90.0	----	----	----	----	----	12.991	0.08	0 U	-80.6	6.68	300
U4-MW-02I	11/15/2023	FD	EM15	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	12/14/2023	N	EM16	UMCf	75.0 - 90.0	3,760,000	<1.21	222	38.5	<30.2	16.823	1.32	0.0 U	176.3	6.32	75
U4-MW-02I	12/14/2023	FD	EM16	UMCf	75.0 - 90.0	3,670,000	<0.605	196	41.9	<15.1	----	----	----	----	----	----
U4-MW-02I	1/25/2024	N	EM17	UMCf	75.0 - 90.0	----	----	----	----	----	23.065	0.31	0.0 U	502.1	6.58	100
U4-MW-02I	1/25/2024	FD	EM17	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	2/12/2024	N	EM18	UMCf	75.0 - 90.0	----	----	----	----	----	20.049	0.62	0.0 U	191.9	6.48	100
U4-MW-02I	2/12/2024	FD	EM18	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	3/13/2024	N	EM19	UMCf	75.0 - 90.0	4,450,000	<1.21	161	30.4	<30.2	20.070	0.44	0.0 U	172.4	6.39	120
U4-MW-02I	3/13/2024	FD	EM19	UMCf	75.0 - 90.0	4,330,000	<1.21	155	34.5	<30.2	----	----	----	----	----	----
U4-MW-02I	6/17/2024	N	EM20	UMCf	75.0 - 90.0	2,150,000	<0.605	138	33.2	22.2 J	13.691	0.22	0.0 U	162.8	6.33	150
U4-MW-02I	6/17/2024	FD	EM20	UMCf	75.0 - 90.0	2,540,000	<0.605	132	33.9	24.6 J	----	----	----	----	----	----
U4-MW-02I	9/23/2024	N	EM21	UMCf	75.0 - 90.0	2,620,000	<0.605	187	32.1	<15.1	26.204	0.80	0.0 U	324.9	6.47	75
U4-MW-02I	9/23/2024	FD	EM21	UMCf	75.0 - 90.0	2,740,000	<0.605	190	31.3	<15.1	----	----	----	----	----	----
U4-MW-03D	4/20/2022	N	BL02	UMCf	96.6 - 106.6	----	----	----	----	----	19.006	2.71	0.0 U	209.7	7.29	100

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
						Sodium	Thallium	Uranium	Vanadium	Zinc	Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH	Purge Rate
						µg/L	µg/L	µg/L	µg/L	µg/L	mS/cm	mg/L	mg/L	mV	SU	mL/min
U4-MW-03D	2/16/2023	N	EM06	UMCf	96.6 - 106.6	----	----	----	----	----	7.848	5.12	----	168.2	7.47	60
U4-MW-03D	3/16/2023	N	EM07	UMCf	96.6 - 106.6	1,840,000	<0.605	2.41 J	<4.99	<15.1	797.196	3.67	0.0 U	76.1	7.37	100
U4-MW-03D	3/16/2023	FD	EM07	UMCf	96.6 - 106.6	1,890,000	<0.605	2.52 J	<4.99	<15.1	----	----	----	----	----	----
U4-MW-03D	6/15/2023	N	EM10	UMCf	96.6 - 106.6	1,820,000	<0.605	2.67	<25.0	<15.1	12.408	7.77	0.0 U	277.6	7.31	270
U4-MW-03D	9/14/2023	N	EM13	UMCf	96.6 - 106.6	2,000,000	<0.605	19.6	<4.99	<15.1	12.23	-1.53	0 U	198.5	6.9	270
U4-MW-03D	12/13/2023	N	EM16	UMCf	96.6 - 106.6	1,980,000	<0.605	72.6	<4.99	<15.1	15.255	0.67	0.0 U	-104.9	6.21	60
U4-MW-03D	3/15/2024	N	EM19	UMCf	96.6 - 106.6	1,660,000	<0.121	1.02	<4.99	41.1	11.974	1.50	0.0 U	-40.4	6.22	60
U4-MW-03D	6/17/2024	N	EM20	UMCf	96.6 - 106.6	1,470,000	0.245 J	89.8	5.60 J	3.97 J	12.577	0.70	0.0 U	99.5	6.42	150
U4-MW-03D	9/18/2024	N	EM21	UMCf	96.6 - 106.6	1,490,000	0.259 J	84.2	4.79 J	<3.02	521.251	0.22	0.0 U	190.7	6.36	150
U4-MW-03DD	4/20/2022	N	BL02	UMCf	119.7 - 129.7	----	----	----	----	----	2.756	1.07	0.0 U	220.6	7.54	100
U4-MW-03DD	3/15/2023	N	EM07	UMCf	119.7 - 129.7	145,000	<0.121	2.55	7.92 J	<3.02	1.855	2.71	0.0 U	35.0	8.22	110
U4-MW-03DD	6/15/2023	N	EM10	UMCf	119.7 - 129.7	143,000	<0.121	2.35	11.0 J	<3.02	1.081	1.55	0.0 U	185.0	8.22	200
U4-MW-03DD	9/14/2023	N	EM13	UMCf	119.7 - 129.7	138,000	<0.121	2.53	8.13 J	3.18 J	0.855	-1.23	0 U	189.8	8.45	270
U4-MW-03DD	12/14/2023	N	EM16	UMCf	119.7 - 129.7	141,000	<0.121	2.46	9.56 J	<3.02	0.997	1.58	0.0 U	233.3	8.43	60
U4-MW-03DD	3/14/2024	N	EM19	UMCf	119.7 - 129.7	141,000	<0.121	2.38	10.1 J	<3.02	1.046	2.25	0.0 U	90.8	8.39	60
U4-MW-03DD	6/17/2024	N	EM20	UMCf	119.7 - 129.7	139,000	<0.121	2.28	11.3 J	<3.02	1.058	1.45	0.0 U	60.0	8.51	140
U4-MW-03DD	9/18/2024	N	EM21	UMCf	119.7 - 129.7	138,000	<0.121	2.40	9.65	<3.02	45.292	0.97	0.0 U	165.7	8.47	100
U4-MW-03I	4/19/2022	N	BL02	UMCf	76.6 - 86.6	----	----	----	----	----	6.055	1.28	0.0 U	57.0	8.02	60
U4-MW-03I	3/15/2023	N	EM07	UMCf	76.6 - 86.6	1,590,000	0.158 J	4.09	<4.99	<3.02	22.711	4.02	0.0 U	95.9	7.44	100
U4-MW-03I	6/14/2023	N	EM10	UMCf	76.6 - 86.6	1,540,000	<0.605	3.39 J	8.63 J	<15.1	12.632	4.07	0.0 U	230.1	7.54	210
U4-MW-03I	6/14/2023	FD	EM10	UMCf	76.6 - 86.6	1,640,000	<0.605	3.43 J	7.62 J	<15.1	----	----	----	----	----	----
U4-MW-03I	9/11/2023	N	EM13	UMCf	76.6 - 86.6	1,910,000	<0.605	13.0	16.6 J	36.4 J	13.726	2.78	0 U	157.1	7.16	100
U4-MW-03I	9/11/2023	FD	EM13	UMCf	76.6 - 86.6	1,900,000	<0.605	11.9	14.1 J	27.8 J	----	----	----	----	----	----
U4-MW-03I	12/13/2023	N	EM16	UMCf	76.6 - 86.6	1,850,000	<0.605	64.2	<4.99	<15.1	14.049	0.09	0.0 U	-89.0	6.44	60
U4-MW-03I	12/13/2023	FD	EM16	UMCf	76.6 - 86.6	1,840,000	<0.605	63.1	<4.99	<15.1	----	----	----	----	----	----
U4-MW-03I	3/14/2024	N	EM19	UMCf	76.6 - 86.6	1,670,000	<0.605	70.5	<4.99	21.3 J	12.568	1.56	0.0 U	59.0	6.22	60
U4-MW-03I	3/14/2024	FD	EM19	UMCf	76.6 - 86.6	1,660,000	<0.605	68.8	7.14 J	16.9 J	----	----	----	----	----	----
U4-MW-03I	6/19/2024	N	EM20	UMCf	76.6 - 86.6	1,530,000	0.223 J	131	30.6	<3.02	23.862	0.95	0.0 U	167.5	5.98	120
U4-MW-03I	6/19/2024	FD	EM20	UMCf	76.6 - 86.6	1,450,000	0.191 J	127	27.1	<3.02	----	----	----	----	----	----
U4-MW-03I	9/20/2024	N	EM21	UMCf	76.6 - 86.6	1,370,000	<0.121	55.7	22.1	<3.02	79.520	0.03	3.0	-158.0	6.52	240
U4-MW-03I	9/20/2024	FD	EM21	UMCf	76.6 - 86.6	625,000	<0.121	6.81	9.82 J	<3.02	----	----	----	----	----	----
U4-MW-03S	4/18/2022	N	BL02	UMCf	54.5 - 64.5	----	----	----	----	----	4.716	9.18	0.0 U	105.4	9.74	195
U4-MW-03S	4/18/2022	FD	BL02	UMCf	54.5 - 64.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-03S	3/15/2023	N	EM07	UMCf	54.5 - 64.5	892,000	<0.121	6.81	159	<3.02	7.108	3.63	0.0 U	-0.9	9.48	100
U4-MW-03S	6/15/2023	N	EM10	UMCf	54.5 - 64.5	971,000	<0.121	5.87	105	<3.02	4.357	0.56	0.0 U	171.1	8.84	240
U4-MW-03S	9/14/2023	N	EM13	UMCf	54.5 - 64.5	881,000	<0.121	13.0	127	<3.02	3.313	-1.93	0 U	-20	8.81	300
U4-MW-03S	12/13/2023	N	EM16	UMCf	54.5 - 64.5	878,000	<0.121	26.9	170	<3.02	4.153	0.37	0.0 U	180.6	8.94	100
U4-MW-03S	3/14/2024	N	EM19	UMCf	54.5 - 64.5	897,000	<0.121	91.0	138	<3.02	4.188	1.42	0.0 U	62.4	8.86	60
U4-MW-03S	6/14/2024	N	EM20	UMCf	54.5 - 64.5	945,000	<0.121	103 J+	129	<3.02	8.470	0.26	0.0 U	-51.1	8.76	160
U4-MW-03S	9/18/2024	N	EM21	UMCf	54.5 - 64.5	944,000	<0.121	115	72.9	<3.02	180.260	0.28	0.0 U	75.5	8.84	150
U4-MW-04D	4/19/2022	N	BL02	UMCf	97.0 - 107.0	----	----	----	----	----	50.188	0.90	0.0 U	76.7	7.01	200
U4-MW-04D	2/16/2023	N	EM06	UMCf	97.0 - 107.0	----	----	----	----	----	5.802	7.81	----	185.1	7.60	60
U4-MW-04D	3/21/2023	N	EM07	UMCf	97.0 - 107.0	205,000	<0.121	9.80	<4.99	<3.02	5.697	7.32	0.0 U	43.3	7.80	120
U4-MW-04D	6/14/2023	N	EM10	UMCf	97.0 - 107.0	965,000	<0.605	15.5	11.8 J	<15.1	5.920	0.79	0.0 U	22.8	7.20	60
U4-MW-04D	9/15/2023	N	EM13	UMCf	97.0 - 107.0	1,330,000	<0.605	14.8	5.26 J	50.2 J	8.782	2.88	0 U	279.6	6.88	50
U4-MW-04D	12/12/2023	N	EM16	UMCf	97.0 - 107.0	1,280,000	<0.605	24.5	<4.99	<15.1	8.464	0.52	0.0 U	188.3	6.51	60
U4-MW-04D	3/12/2024	N	EM19	UMCf	97.0 - 107.0	1,590,000	<0.605	40.9	<4.99	<15.1	8.859	0.72	0.0 U	209.3	5.92	80

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
						Sodium	Thallium	Uranium	Vanadium	Zinc	Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH	Purge Rate
						µg/L	µg/L	µg/L	µg/L	µg/L	mS/cm	mg/L	mg/L	mV	SU	mL/min
U4-MW-04D	6/19/2024	N	EM20	UMCf	97.0 - 107.0	1,920,000	<0.605	66.5	7.59 J	<15.1	14.687	0.38	0.0 U	212.9	5.84	60
U4-MW-04D	9/24/2024	N	EM21	UMCf	97.0 - 107.0	2,490,000	<0.605	61.1	5.76 J	<15.1	14.082	0.42	0.0 U	394.5	5.71	60
U4-MW-04I	4/19/2022	N	BL02	UMCf	76.8 - 86.8	----	----	----	----	----	22.833	0.68	0.0 U	49.8	7.36	100
U4-MW-04I	3/20/2023	N	EM07	UMCf	76.8 - 86.8	482,000	<0.605	7.91	<4.99	<15.1	15.330	5.23	0.0 U	144.6	7.43	200
U4-MW-04I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	2,010,000	<0.605	22.0	6.74 J	<15.1	12.208	1.12	0.0 U	96.3	6.90	110
U4-MW-04I	9/14/2023	N	EM13	UMCf	76.8 - 86.8	4,020,000	<1.21	30.1	<4.99	<30.2	27.215	0.72	0 U	168.9	6.83	240
U4-MW-04I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	4,460,000	<2.42	33.6	<4.99	<60.4	28.039	0.40	0.0 U	107.2	6.53	60
U4-MW-04I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	4,430,000	<1.21	49.6	<4.99	<30.2	23.480	1.15	0.0 U	174.7	6.43	60
U4-MW-04I	6/18/2024	N	EM20	UMCf	76.8 - 86.8	4,570,000	<1.21	50.8	<4.99	<30.2	32.015	0.72	0.0 U	136.1	6.59	60
U4-MW-04I	9/24/2024	N	EM21	UMCf	76.8 - 86.8	4,950,000	<1.21	51.1	8.08 J	<30.2	24.875	0.44	0.0 U	380.2	6.47	120
U4-MW-05D	4/15/2022	N	BL02	UMCf	98.2 - 108.2	----	----	----	----	----	39.740	0.77	0.0 U	146.1	7.03	100
U4-MW-05D	10/13/2022	N	EM02	UMCf	98.2 - 108.2	----	----	----	----	----	24.933	3.56	----	190.6	7.02	280
U4-MW-05D	11/3/2022	N	EM03	UMCf	98.2 - 108.2	----	----	----	----	----	17.012	4.46	----	121.3	7.64	140
U4-MW-05D	12/7/2022	N	EM04	UMCf	98.2 - 108.2	----	----	----	----	----	16.306	4.72	----	143.6	7.59	0
U4-MW-05D	1/11/2023	N	EM05	UMCf	98.2 - 108.2	----	----	----	----	----	10.893	5.62	----	187.0	7.27	250
U4-MW-05D	2/14/2023	N	EM06	UMCf	98.2 - 108.2	----	----	----	----	----	5.665	7.00	----	190.5	7.55	80
U4-MW-05D	3/16/2023	N	EM07	UMCf	98.2 - 108.2	2,670,000	<0.605	13.1	11.8 J	<15.1	13.970	5.77	0.0 U	57.4	7.45	100
U4-MW-05D	4/20/2023	N	EM08	UMCf	98.2 - 108.2	----	----	----	----	----	8.597	0.09	0.0 U	36.1	7.31	100
U4-MW-05D	5/10/2023	N	EM09	UMCf	98.2 - 108.2	----	----	----	----	----	22.381	-39.98	0.0 U	133.6	5.83	150
U4-MW-05D	6/15/2023	N	EM10	UMCf	98.2 - 108.2	1,810,000	<0.605	93.9	<4.99	<15.1	6.646	0.78	0.0 U	133.4	6.48	90
U4-MW-05D	7/18/2023	N	EM11	UMCf	98.2 - 108.2	----	----	----	----	----	11.868	0.37	0.0 U	182.4	6.42	220
U4-MW-05D	8/14/2023	N	EM12	UMCf	98.2 - 108.2	----	----	----	----	----	14.812	1.44	0 U	100.2	6.71	50
U4-MW-05D	9/12/2023	N	EM13	UMCf	98.2 - 108.2	1,680,000	0.257 J	117	<4.99	12.8 J	9.152	0.08	0 U	99.9	6.21	200
U4-MW-05D	10/18/2023	N	EM14	UMCf	98.2 - 108.2	----	----	----	----	----	10.688	0.77	0 U	104.5	6.41	140
U4-MW-05D	11/16/2023	N	EM15	UMCf	98.2 - 108.2	----	----	----	----	----	11.339	0.18	0 U	-35.5	6.34	120
U4-MW-05D	12/14/2023	N	EM16	UMCf	98.2 - 108.2	2,060,000	<0.605	113	151	<15.1	10.356	0.02	0.0 U	-183.3	6.03	300
U4-MW-05D	1/26/2024	N	EM17	UMCf	98.2 - 108.2	----	----	----	----	----	16.203	0.61	0.0 U	-279.7	6.10	100
U4-MW-05D	2/14/2024	N	EM18	UMCf	98.2 - 108.2	----	----	----	----	----	11.861	1.56	0.0 U	22.7	5.94	100
U4-MW-05D	3/12/2024	N	EM19	UMCf	98.2 - 108.2	2,590,000	0.761 J	219	27.1	35.5 J	12.653	-1.97	0.0 U	28.8	6.04	80
U4-MW-05D	6/18/2024	N	EM20	UMCf	98.2 - 108.2	4,290,000	<1.21	254	34.1	<30.2	25.570	0.51	0.0 U	162.6	6.21	60
U4-MW-05D	9/25/2024	N	EM21	UMCf	98.2 - 108.2	4,290,000	<1.21	251	37.8 J	<30.2	19.759	0.41	0.0 U	329.4	5.97	60
U4-MW-05I	4/15/2022	N	BL02	UMCf	76.6 - 86.6	----	----	----	----	----	20.080	0.87	0.0 U	140.1	7.54	100
U4-MW-05I	10/13/2022	N	EM02	UMCf	76.6 - 86.6	----	----	----	----	----	24.065	2.94	----	205.5	7.04	280
U4-MW-05I	11/3/2022	N	EM03	UMCf	76.6 - 86.6	----	----	----	----	----	21.533	3.08	----	130.9	7.57	240
U4-MW-05I	12/8/2022	N	EM04	UMCf	76.6 - 86.6	----	----	----	----	----	0.258	6.78	----	132.0	7.34	100
U4-MW-05I	1/11/2023	N	EM05	UMCf	76.6 - 86.6	----	----	----	----	----	12.599	4.84	----	192.5	7.29	250
U4-MW-05I	2/14/2023	N	EM06	UMCf	76.6 - 86.6	----	----	----	----	----	5.446	5.76	----	179.4	7.53	80
U4-MW-05I	3/14/2023	N	EM07	UMCf	76.6 - 86.6	2,700,000	<0.605	16.0	21.8	<15.1	23.991	6.62	0.5	77.0	7.65	100
U4-MW-05I	4/21/2023	N	EM08	UMCf	76.6 - 86.6	----	----	----	----	----	5.477	0.92	0.0 U	-3.0	7.08	130
U4-MW-05I	5/10/2023	N	EM09	UMCf	76.6 - 86.6	----	----	----	----	----	13.468	-1.10	0.0 U	-31.5	5.71	150
U4-MW-05I	6/15/2023	N	EM10	UMCf	76.6 - 86.6	1,810,000	<0.121	96.4	24.8	9.57 J	4.781	0.37	0.5	-156.7	6.57	60
U4-MW-05I	7/17/2023	N	EM11	UMCf	76.6 - 86.6	----	----	----	----	----	10.427	0.14	0.0 U	141.8	6.71	300
U4-MW-05I	8/14/2023	N	EM12	UMCf	76.6 - 86.6	----	----	----	----	----	12.637	1.39	0 U	107.5	6.74	50
U4-MW-05I	9/13/2023	N	EM13	UMCf	76.6 - 86.6	2,130,000	<0.605	163	21.9	20.6 J	10.838	0.08	0 U	126.6	6.36	240
U4-MW-05I	10/18/2023	N	EM14	UMCf	76.6 - 86.6	----	----	----	----	----	9.508	7.01	0 U	99.1	6.95	120
U4-MW-05I	11/15/2023	N	EM15	UMCf	76.6 - 86.6	----	----	----	----	----	11.545	0.18	0 U	-1.8	6.59	240
U4-MW-05I	12/12/2023	N	EM16	UMCf	76.6 - 86.6	2,270,000	<1.21	155	11.3 J	<30.2	12.780	0.45	0.0 U	-181.9	6.27	50

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Dissolved Metals by SW6010B/SW6020 Sodium µg/L	Dissolved Metals by SW6010B/SW6020 Thallium µg/L	Dissolved Metals by SW6010B/SW6020 Uranium µg/L	Dissolved Metals by SW6010B/SW6020 Vanadium µg/L	Dissolved Metals by SW6010B/SW6020 Zinc µg/L	FIELD TESTS Conductivity mS/cm	FIELD TESTS Dissolved Oxygen mg/L	FIELD TESTS Ferrous Iron mg/L	FIELD TESTS Oxidation-Reduction Potential mV	FIELD TESTS pH SU	FIELD TESTS Purge Rate mL/min
U4-MW-05I	1/26/2024	N	EM17	UMCf	76.6 - 86.6	----	----	----	----	----	16.872	0.13	0.0 U	-459.5	6.38	100
U4-MW-05I	2/14/2024	N	EM18	UMCf	76.6 - 86.6	----	----	----	----	----	13.126	0.54	0.0 U	-87.5	6.16	100
U4-MW-05I	3/11/2024	N	EM19	UMCf	76.6 - 86.6	3,670,000	0.632 J	219	15.2 J	24.1 J	18.403	0.16	0.0 U	149.7	6.36	50
U4-MW-05I	6/18/2024	N	EM20	UMCf	76.6 - 86.6	4,250,000	<1.21	214	24.2	<30.2	25.926	0.39	0.0 U	156.3	6.25	60
U4-MW-05I	9/25/2024	N	EM21	UMCf	76.6 - 86.6	4,110,000	<1.21	240	31.4 J	<30.2	19.177	0.39	0.0 U	278.9	6.17	90
U4-MW-06D	4/19/2022	N	BL02	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	0.0 U	----	----	----
U4-MW-06D	2/15/2023	N	EM06	UMCf	97.1 - 107.1	----	----	----	----	----	16.354	5.93	----	198.6	7.34	80
U4-MW-06D	3/21/2023	N	EM07	UMCf	97.1 - 107.1	530,000	0.144 J	6.77	<4.99	<3.02	9.930	5.41	0.0 U	196.2	7.10	120
U4-MW-06D	6/16/2023	N	EM10	UMCf	97.1 - 107.1	3,030,000	<0.605	7.14	<49.9	16.2 J	10.958	5.42	0.0 U	140.6	7.26	90
U4-MW-06D	9/13/2023	N	EM13	UMCf	97.1 - 107.1	2,900,000	<0.605	74.5	<4.99	16.4 J	20.472	0.84	0 U	23.9	6.08	50
U4-MW-06D	12/13/2023	N	EM16	UMCf	97.1 - 107.1	3,930,000	<2.42	106	<4.99	<60.4	19.371	0.33	0.0 U	280.8	5.82	60
U4-MW-06D	3/14/2024	N	EM19	UMCf	97.1 - 107.1	3,240,000	<0.605	146	6.78 J	20.6 J	18.486	0.30	0.0 U	201.2	5.64	60
U4-MW-06D	6/12/2024	N	EM20	UMCf	97.1 - 107.1	3,650,000	<1.21	163	7.61 J	42.7 J	52.540	5.63	0.0 U	220.9	6.26	100
U4-MW-06D	9/20/2024	N	EM21	UMCf	97.1 - 107.1	4,220,000	<0.605	230	9.80 J	34.1 J	247.551	0.19	0.0 U	230.4	6.25	150
U4-MW-06I	4/19/2022	N	BL02	UMCf	76.5 - 86.5	----	----	----	----	----	6.356	0.75	0.0 U	132.2	8.14	100
U4-MW-06I	3/14/2023	N	EM07	UMCf	76.5 - 86.5	3,280,000	<0.605	9.11	11.5 J	<15.1	4.941	6.89	0.0 U	120.3	7.90	0
U4-MW-06I	6/16/2023	N	EM10	UMCf	76.5 - 86.5	3,300,000	<0.605	31.8	<49.9	15.5 J	6.217	8.13	0.0 U	94.8	8.27	50
U4-MW-06I	9/12/2023	N	EM13	UMCf	76.5 - 86.5	3,330,000	<0.605	87.3	<25.0	24.4 J	20.743	0.68	0 U	31.2	6.42	50
U4-MW-06I	12/12/2023	N	EM16	UMCf	76.5 - 86.5	3,990,000	<2.42	85.0	<4.99	<60.4	25.356	0.33	0.0 U	-77.3	6.06	60
U4-MW-06I	3/14/2024	N	EM19	UMCf	76.5 - 86.5	3,700,000	0.989 J	167	<4.99	18.9 J	20.279	0.30	0.0 U	28.1	5.76	60
U4-MW-06I	6/11/2024	N	EM20	UMCf	76.5 - 86.5	3,990,000	<1.21	200	8.05 J	46.7 J	22.264	0.14	0.0 U	163.0	6.43	200
U4-MW-06I	9/20/2024	N	EM21	UMCf	76.5 - 86.5	3,170,000	<0.605	157	12.5 J	37.9 J	200.490	0.11	0.0 U	222.1	6.60	120
U4-MW-07D	4/15/2022	N	BL02	UMCf	96.8 - 106.5	----	----	----	----	----	10.924	4.48	0.0 U	182.2	7.48	100
U4-MW-07D	10/12/2022	N	EM02	UMCf	96.8 - 106.5	----	----	----	----	----	2.057	6.89	----	93.5	7.79	50
U4-MW-07D	10/12/2022	FD	EM02	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	11/3/2022	N	EM03	UMCf	96.8 - 106.5	----	----	----	----	----	1.730	6.43	----	111.1	7.85	200
U4-MW-07D	12/7/2022	N	EM04	UMCf	96.8 - 106.5	----	----	----	----	----	1.462	8.66	----	106.4	7.83	100
U4-MW-07D	1/11/2023	N	EM05	UMCf	96.8 - 106.5	----	----	----	----	----	1.736	11.30	----	105.0	7.74	120
U4-MW-07D	2/14/2023	N	EM06	UMCf	96.8 - 106.5	----	----	----	----	----	1.217	9.30	----	161.8	7.79	90
U4-MW-07D	3/16/2023	N	EM07	UMCf	96.8 - 106.5	189,000	<0.121	7.45	<4.99	<3.02	0.029	7.54	0.0 U	140.8	7.92	105
U4-MW-07D	4/21/2023	N	EM08	UMCf	96.8 - 106.5	----	----	----	----	----	4.642	0.05	0.0 U	-393.7	6.15	120
U4-MW-07D	5/11/2023	N	EM09	UMCf	96.8 - 106.5	----	----	----	----	----	37.585	44.89	0.0 U	47.7	5.65	150
U4-MW-07D	6/13/2023	N	EM10	UMCf	96.8 - 106.5	537,000	0.168 J	3.74 J	8.40 J	<3.02	4.893	1.10	0.0 U	108.0	6.37	60
U4-MW-07D	7/17/2023	N	EM11	UMCf	96.8 - 106.5	----	----	----	----	----	16.019	0.37	0.0 U	162.4	6.70	400
U4-MW-07D	8/11/2023	N	EM12	UMCf	96.8 - 106.5	----	----	----	----	----	14.895	2.61	0 U	128.8	6.46	200
U4-MW-07D	9/13/2023	N	EM13	UMCf	96.8 - 106.5	2,250,000	<0.605	128	8.03 J	<15.1	13.126	0.06	0 U	174.6	6.3	200
U4-MW-07D	10/18/2023	N	EM14	UMCf	96.8 - 106.5	----	----	----	----	----	11.854	1.09	0 U	124.7	6.6	120
U4-MW-07D	11/16/2023	N	EM15	UMCf	96.8 - 106.5	----	----	----	----	----	14.100	0.40	0 U	-32.5	6.21	120
U4-MW-07D	12/12/2023	N	EM16	UMCf	96.8 - 106.5	1,610,000	<0.605	94.9	21.3	24.4 J	11.893	0.10	0.0 U	-147.3	5.88	100
U4-MW-07D	1/26/2024	N	EM17	UMCf	96.8 - 106.5	----	----	----	----	----	13.083	0.01	0.0 U	-428.7	5.93	100
U4-MW-07D	2/13/2024	N	EM18	UMCf	96.8 - 106.5	----	----	----	----	----	10.076	-0.06	0.0 U	-132.6	5.57	100
U4-MW-07D	3/11/2024	N	EM19	UMCf	96.8 - 106.5	2,230,000	1.09 J	216	166	35.7 J	16.620	0.08	1.0	166.3	5.85	100
U4-MW-07D	6/12/2024	N	EM20	UMCf	96.8 - 106.5	2,460,000	1.42 J	346	71.4	19.3 J	34.470	0.03	0.5	158.0	6.06	140
U4-MW-07D	9/18/2024	N	EM21	UMCf	96.8 - 106.5	2,860,000	1.68 J	375	55.6	<15.1	17.791	0.24	0.0 U	167.8	6.12	60
U4-MW-07I	4/15/2022	N	BL02	UMCf	76.8 - 86.8	----	----	----	----	----	5.556	0.59	0.0 U	158.2	7.86	100
U4-MW-07I	10/12/2022	N	EM02	UMCf	76.8 - 86.8	----	----	----	----	----	2.078	6.24	----	135.0	7.86	50
U4-MW-07I	11/3/2022	N	EM03	UMCf	76.8 - 86.8	----	----	----	----	----	1.794	6.05	----	141.5	7.93	180

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
						Sodium	Thallium	Uranium	Vanadium	Zinc	Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH	Purge Rate
						µg/L	µg/L	µg/L	µg/L	µg/L	mS/cm	mg/L	mg/L	mV	SU	mL/min
U4-MW-07I	12/7/2022	N	EM04	UMCf	76.8 - 86.8	----	----	----	----	----	1.562	8.32	----	96.7	7.97	100
U4-MW-07I	1/11/2023	N	EM05	UMCf	76.8 - 86.8	----	----	----	----	----	1.955	9.11	----	104.4	7.82	150
U4-MW-07I	2/15/2023	N	EM06	UMCf	76.8 - 86.8	----	----	----	----	----	1.786	8.45	----	124.7	7.66	80
U4-MW-07I	3/16/2023	N	EM07	UMCf	76.8 - 86.8	314,000	<0.121	8.83	5.92 J	5.20 J	6.144	7.27	0.0 U	83.7	7.72	100
U4-MW-07I	4/21/2023	N	EM08	UMCf	76.8 - 86.8	----	----	----	----	----	4.708	0.07	0.0 U	-161.7	6.53	130
U4-MW-07I	5/11/2023	N	EM09	UMCf	76.8 - 86.8	----	----	----	----	----	42.407	48.03	1.0	-80.3	6.08	150
U4-MW-07I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	946,000	<0.121	62.7	10.3 J	<3.02	4.631	0.23	1.0	-262.2	6.78	60
U4-MW-07I	7/17/2023	N	EM11	UMCf	76.8 - 86.8	----	----	----	----	----	10.648	0.37	0.0 U	133.1	6.53	210
U4-MW-07I	8/11/2023	N	EM12	UMCf	76.8 - 86.8	----	----	----	----	----	10.453	3.21	0 U	99.4	6.44	75
U4-MW-07I	9/13/2023	N	EM13	UMCf	76.8 - 86.8	2,130,000	<0.605	218	22.2	18.6 J	11.049	0.1	0 U	156.1	6.31	240
U4-MW-07I	10/18/2023	N	EM14	UMCf	76.8 - 86.8	----	----	----	----	----	8.236	0.87	0 U	96.4	6.51	140
U4-MW-07I	11/16/2023	N	EM15	UMCf	76.8 - 86.8	----	----	----	----	----	10.506	0.19	0 U	-112.3	6.36	270
U4-MW-07I	12/11/2023	N	EM16	UMCf	76.8 - 86.8	1,890,000	<0.605	123	12.0 J	163	12.676	0.36	0.0 U	-111.1	6.10	60
U4-MW-07I	1/26/2024	N	EM17	UMCf	76.8 - 86.8	----	----	----	----	----	14.572	0.07	0.0 U	-488.4	6.10	100
U4-MW-07I	2/13/2024	N	EM18	UMCf	76.8 - 86.8	----	----	----	----	----	11.454	-0.02	0.0 U	-185.6	5.64	100
U4-MW-07I	3/11/2024	N	EM19	UMCf	76.8 - 86.8	3,010,000	0.660 J	158	29.2	27.4 J	17.404	0.14	0.0 U	90.4	5.91	80
U4-MW-07I	6/12/2024	N	EM20	UMCf	76.8 - 86.8	2,640,000	<0.605	277	29.9	<15.1	30.395	0.08	0.0 U	130.8	6.14	150
U4-MW-07I	9/18/2024	N	EM21	UMCf	76.8 - 86.8	2,710,000	0.613 J	301	47.5	<15.1	16.844	0.98	0.0 U	126.4	7.35	60
U4-MW-08D	4/13/2022	N	BL02	UMCf	98.6 - 108.6	7,950,000	<1.21	10.1	<25.0	<30.2	43.677	1.07	0.0 U	166.4	6.92	100
U4-MW-08D	12/7/2022	N	EM04	UMCf	98.6 - 108.6	3,880,000	<0.605	24.7	6.96 J	<15.1	15.745	1.70	0.0 U	52.2	6.62	250
U4-MW-08D	3/17/2023	N	EM07	UMCf	98.6 - 108.6	3,810,000	<0.605	103	<4.99	<15.1	15.242	1.42	0.0 U	174.5	6.38	0
U4-MW-08D	6/13/2023	N	EM10	UMCf	98.6 - 108.6	4,800,000	<1.21	96.5	<4.99	<30.2	26.142	2.23	0.0 U	126.1	6.54	100
U4-MW-08D	9/13/2023	N	EM13	UMCf	98.6 - 108.6	6,620,000	<1.21	39.1	<4.99	<30.2	50.933	-1.16	0 U	263.7	6.48	300
U4-MW-08D	12/11/2023	N	EM16	UMCf	98.6 - 108.6	5,580,000	<1.21	52.6	<4.99	2,860	32.434	0.45	0.0 U	181.2	6.28	60
U4-MW-08D	3/12/2024	N	EM19	UMCf	98.6 - 108.6	4,810,000	<1.21	112	<4.99	<30.2	26.147	0.83	0.0 U	38.5	6.20	60
U4-MW-08D	6/14/2024	N	EM20	UMCf	98.6 - 108.6	5,430,000	<0.121	0.448 J	<25.0	<3.02	75.838	0.40	0.0 U	154.4	6.35	150
U4-MW-08D	9/23/2024	N	EM21	UMCf	98.6 - 108.6	6,780,000	<1.21	106	<6.64	<30.2	37.943	0.80	0.0 U	178.3	6.51	60
U4-MW-08DD	4/20/2022	N	BL02	UMCf	119.8 - 129.8	258,000	<0.121	3.24	10.4 J	<3.02	1.774	0.95	0.0 U	5.0	7.70	70
U4-MW-08DD	4/20/2022	FD	BL02	UMCf	119.8 - 129.8	258,000	<0.121	3.20	9.34 J	<3.02	----	----	----	----	----	----
U4-MW-08DD	12/8/2022	N	EM04	UMCf	119.8 - 129.8	179,000	<0.121	3.17	8.61	23.0 J	1.034	1.20	0.0 U	138.4	7.44	200
U4-MW-08DD	3/15/2023	N	EM07	UMCf	119.8 - 129.8	359,000	<0.121	2.28	<4.99	<3.02	7.824	2.01	0.0 U	63.2	7.54	80
U4-MW-08DD	6/14/2023	N	EM10	UMCf	119.8 - 129.8	330,000	0.830 J	2.36	8.83 J	<3.02	2.973	2.71	0.0 U	46.7	6.77	50
U4-MW-08DD	9/14/2023	N	EM13	UMCf	119.8 - 129.8	230,000	<0.121	2.91	7.29 J	<3.02	1.655	-1.71	0 U	290.1	7.54	180
U4-MW-08DD	12/14/2023	N	EM16	UMCf	119.8 - 129.8	244,000	<0.121	2.74	6.41 J	<3.02	2.416	0.73	0.0 U	-1.3	7.34	100
U4-MW-08DD	3/14/2024	N	EM19	UMCf	119.8 - 129.8	222,000	<0.121	2.35	6.96 J	<3.02	1.252	0.92	0.0 U	122.9	7.64	50
U4-MW-08DD	6/12/2024	N	EM20	UMCf	119.8 - 129.8	209,000	<0.121	2.53	<4.99	<3.02	3.608	1.94	0.0 U	74.4	7.67	150
U4-MW-08DD	9/20/2024	N	EM21	UMCf	119.8 - 129.8	218,000	<0.121	2.37	6.44 J	<3.02	1.920	1.26	0.0 U	47.0	8.44	60
U4-MW-08I	4/13/2022	N	BL02	UMCf	78.0 - 88.0	1,300,000	<0.121	6.55	23.5	3.30 J	8.786	1.97	0.0 U	183.3	7.71	100
U4-MW-08I	12/7/2022	N	EM04	UMCf	78.0 - 88.0	2,570,000	<0.605	23.7	18.2 J	<15.1	8.950	2.32	0.0 U	137.7	7.48	250
U4-MW-08I	12/7/2022	FD	EM04	UMCf	78.0 - 88.0	2,540,000	<0.605	23.2	18.3 J	<15.1	----	----	----	----	----	----
U4-MW-08I	3/17/2023	N	EM07	UMCf	78.0 - 88.0	3,640,000	<0.605	41.3	11.9 J	<15.1	7.198	2.29	0.0 U	157.8	6.95	35
U4-MW-08I	6/13/2023	N	EM10	UMCf	78.0 - 88.0	1,580,000	1.43 J	75.9	16.6 J	<30.2	8.097	1.90	0.0 U	13.5	7.06	50
U4-MW-08I	9/13/2023	N	EM13	UMCf	78.0 - 88.0	2,860,000	<0.605	109	10.5 J	<15.1	22.556	-1.3	0 U	216.1	6.72	360
U4-MW-08I	12/11/2023	N	EM16	UMCf	78.0 - 88.0	3,770,000	<1.21	151	7.13 J	343	20.541	0.37	0.0 U	146.5	6.42	60
U4-MW-08I	3/12/2024	N	EM19	UMCf	78.0 - 88.0	3,730,000	<1.21	199	6.07 J	<30.2	19.060	2.89	0.0 U	150.8	6.50	60
U4-MW-08I	6/14/2024	N	EM20	UMCf	78.0 - 88.0	3,470,000	<1.21	166 J+	<4.99	<30.2	39.350	0.43	0.0 U	195.0	6.49	140
U4-MW-08I	9/23/2024	N	EM21	UMCf	78.0 - 88.0	2,810,000	<1.21	127 J-	11.4 J	<30.2	16.916	1.28	0.0 U	102.1	7.88	60

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Dissolved Metals by SW6010B/SW6020 Sodium µg/L	Dissolved Metals by SW6010B/SW6020 Thallium µg/L	Dissolved Metals by SW6010B/SW6020 Uranium µg/L	Dissolved Metals by SW6010B/SW6020 Vanadium µg/L	Dissolved Metals by SW6010B/SW6020 Zinc µg/L	FIELD TESTS Conductivity mS/cm	FIELD TESTS Dissolved Oxygen mg/L	FIELD TESTS Ferrous Iron mg/L	FIELD TESTS Oxidation-Reduction Potential mV	FIELD TESTS pH SU	FIELD TESTS Purge Rate mL/min
U4-MW-08S	4/15/2022	N	BL02	UMCf	54.9 - 64.9	580,000	<0.121	0.591 J	47.5	<3.02	3.391	3.42	0.0 U	79.6	9.96	285
U4-MW-08S	12/7/2022	N	EM04	UMCf	54.9 - 64.9	624,000	<0.121	13.4	49.2	<3.02	2.838	2.17	0.0 U	40.0	8.08	250
U4-MW-08S	12/7/2022	FD	EM04	UMCf	54.9 - 64.9	612,000	<0.121	13.2	48.5	4.34 J	----	----	----	----	----	----
U4-MW-08S	3/13/2023	N	EM07	UMCf	54.9 - 64.9	464,000	<0.121	11.8	5.34 J	<3.02	0.027	7.40	0.0 U	-138.1	7.85	60
U4-MW-08S	3/13/2023	FD	EM07	UMCf	54.9 - 64.9	467,000	<0.121	13.7	5.55 J	<3.02	----	----	----	----	----	----
U4-MW-08S	6/13/2023	N	EM10	UMCf	54.9 - 64.9	551,000	<0.121	18.7	8.86 J	<3.02	2.956	0.72	0.0 U	-258.8	7.13	100
U4-MW-08S	6/13/2023	FD	EM10	UMCf	54.9 - 64.9	554,000	<0.121	18.0	9.37 J	<3.02	----	----	----	----	----	----
U4-MW-08S	9/13/2023	N	EM13	UMCf	54.9 - 64.9	527,000	<0.121	8.27	22.2	9.25 J	4.902	-1.41	0 U	-184.8	6.65	300
U4-MW-08S	9/13/2023	FD	EM13	UMCf	54.9 - 64.9	517,000	<1.21	8.89 J	22.4	<30.2	----	----	----	----	----	----
U4-MW-08S	12/14/2023	N	EM16	UMCf	54.9 - 64.9	680,000	<0.121	9.03	66.6	4.48 J	5.477	-0.18	5.5	-203.2	6.34	90
U4-MW-08S	12/14/2023	FD	EM16	UMCf	54.9 - 64.9	683,000	<0.121	8.53	66.6	4.80 J	----	----	----	----	----	----
U4-MW-08S	3/14/2024	N	EM19	UMCf	54.9 - 64.9	602,000	<0.121	23.8	13.2 J	<3.02	3.231	0.99	0.0 U	-175.8	6.77	0
U4-MW-08S	3/14/2024	FD	EM19	UMCf	54.9 - 64.9	601,000	<0.121	23.9	14.6 J	<3.02	----	----	----	----	----	----
U4-MW-08S	3/25/2024	N	EM19	UMCf	54.9 - 64.9	569,000	<0.121	50.0	23.0	8.44 J	4.249	0.15	0.0 U	-78.8	6.40	120
U4-MW-08S	3/25/2024	FD	EM19	UMCf	54.9 - 64.9	547,000	<0.121	49.3	18.6 J	6.90 J	----	----	----	----	----	----
U4-MW-08S	6/14/2024	N	EM20	UMCf	54.9 - 64.9	714,000	<0.121	3.24 J+	14.8 J	3.73 J	8.528	0.08	1.0	-154.2	6.88	150
U4-MW-08S	6/14/2024	FD	EM20	UMCf	54.9 - 64.9	733,000	<0.121	3.20 J+	14.8 J	4.88 J	----	----	----	----	----	----
U4-MW-08S	9/20/2024	N	EM21	UMCf	54.9 - 64.9	779,000	<0.121	2.25	15.5 J	<3.02	4.440	-0.01	0.0 U	-316.5	7.67	60
U4-MW-08S	9/20/2024	FD	EM21	UMCf	54.9 - 64.9	779,000	<0.121	2.28	14.9 J	<3.02	----	----	----	----	----	----
U4-MW-09D	4/14/2022	N	BL02	UMCf	96.9 - 106.9	475,000	<1.21	10.2	<4.99	165 J	25.834	1.79	0.0 U	36.4	7.03	100
U4-MW-09D	12/6/2022	N	EM04	UMCf	96.9 - 106.9	680,000	<0.121 UJ	9.26	23.1	<3.02 UJ	3.375	6.84	0.0 U	104.4	7.69	200
U4-MW-09D	3/16/2023	N	EM07	UMCf	96.9 - 106.9	879,000	<0.121	48.7	8.91 J	<3.02	4.632	1.55	0.0 U	-81.6	6.58	0
U4-MW-09D	6/14/2023	N	EM10	UMCf	96.9 - 106.9	821,000	0.147 J	62.1	8.47 J	<3.02	5.788	1.36	0.0 U	2.5	6.50	100
U4-MW-09D	9/12/2023	N	EM13	UMCf	96.9 - 106.9	1,140,000	0.195 J	86.5	<4.99	14.3 J	7.12	1.59	0 U	-170.2	6.4	180
U4-MW-09D	12/15/2023	N	EM16	UMCf	96.9 - 106.9	1,360,000	0.485 J	173	<4.99	11.6 J	8.668	1.12	0.0 U	-0.3	5.88	60
U4-MW-09D	3/13/2024	N	EM19	UMCf	96.9 - 106.9	1,440,000	<0.605	163	7.77 J	<15.1	10.857	0.99	0.0 U	162.1	6.12	60
U4-MW-09D	6/13/2024	N	EM20	UMCf	96.9 - 106.9	1,540,000	0.524 J	194	12.4 J	5.19 J	22.631	0.10	0.0 U	58.6	6.02	150
U4-MW-09D	9/19/2024	N	EM21	UMCf	96.9 - 106.9	1,610,000	<0.605	165	15.9 J	<15.1	11.884	0.51	0.0 U	142.4	5.89	60
U4-MW-09DD	4/14/2022	N	BL02	UMCf	119.8 - 129.8	181,000	<0.121	2.98	9.16 J	3.03 J	1.339	1.49	0.0 U	144.1	7.81	100
U4-MW-09DD	12/6/2022	N	EM04	UMCf	119.8 - 129.8	162,000	<0.121 UJ	3.11	10.6	<3.02 UJ	1.036	1.23	0.0 U	63.9	7.85	250
U4-MW-09DD	3/21/2023	N	EM07	UMCf	119.8 - 129.8	199,000	<0.121	2.36	9.68 J	<3.02	1.698	4.64	0.0 U	146.4	7.90	70
U4-MW-09DD	6/15/2023	N	EM10	UMCf	119.8 - 129.8	214,000	<0.121	2.86	8.61 J	<3.02	1.722	3.91	0.0 U	-41.8	8.18	100
U4-MW-09DD	9/13/2023	N	EM13	UMCf	119.8 - 129.8	319,000	<0.121	7.89	<4.99	4.42 J	5.041	-1.2	0 U	160	6.36	210
U4-MW-09DD	12/13/2023	N	EM16	UMCf	119.8 - 129.8	304,000	0.331 J	5.08	<4.99	3.24 J	2.495	1.35	0.0 U	11.8	6.36	60
U4-MW-09DD	3/14/2024	N	EM19	UMCf	119.8 - 129.8	321,000	<0.121	8.21	<4.99	8.68 J	3.874	-0.02	1.2	201.1	6.32	24
U4-MW-09DD	6/13/2024	N	EM20	UMCf	119.8 - 129.8	325,000	<0.121	5.59	7.20 J	5.47 J	6.895	0.09	1.5	-105.1	6.25	140
U4-MW-09DD	9/20/2024	N	EM21	UMCf	119.8 - 129.8	301,000	<0.121	16.8	<4.99	3.52 J	3.232	-0.01	2.0	-71.0	6.40	60
U4-MW-09I	4/14/2022	N	BL02	UMCf	76.8 - 86.8	588,000	<0.121	5.48	19.1 J	<3.02	3.354	10.37	0.0 U	8.8	7.57	120
U4-MW-09I	12/6/2022	N	EM04	UMCf	76.8 - 86.8	1,150,000	<0.605 UJ	10.8	10.7 J	<15.1 UJ	4.939	5.28	0.0 U	124.5	7.49	250
U4-MW-09I	3/16/2023	N	EM07	UMCf	76.8 - 86.8	1,140,000	<0.121	60.5	9.36 J	<3.02	16.829	0.37	0.7	-149.7	6.48	105
U4-MW-09I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	966,000	<0.121	83.1	12.0 J	<3.02	6.158	1.16	0.0 U	112.1	6.32	200
U4-MW-09I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	1,280,000	0.188 J	86.2	<4.99	14.9 J	7.94	0.34	0 U	-130.8	6.44	300
U4-MW-09I	12/15/2023	N	EM16	UMCf	76.8 - 86.8	1,480,000	0.261 J	165	<4.99	71.7 J+	9.014	1.21	0.0 U	88.0	5.97	60
U4-MW-09I	3/13/2024	N	EM19	UMCf	76.8 - 86.8	1,610,000	<0.605	189	7.60 J	<15.1	10.546	4.20	0.0 U	173.0	6.33	60
U4-MW-09I	6/13/2024	N	EM20	UMCf	76.8 - 86.8	1,670,000	0.322 J	192	16.2 J	<3.02	22.580	6.90	0.0 U	164.9	6.63	150
U4-MW-09I	9/19/2024	N	EM21	UMCf	76.8 - 86.8	1,810,000	<0.605	195	17.3 J	<15.1	11.657	0.72	0.0 U	157.0	6.20	60
U4-MW-09S	4/14/2022	N	BL02	UMCf	55.3 - 65.3	461,000	<0.121	6.57	36.3	<3.02	2.893	4.00	0.0 U	179.7	8.27	160

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
						Sodium	Thallium	Uranium	Vanadium	Zinc	Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH	Purge Rate
						µg/L	µg/L	µg/L	µg/L	µg/L	mS/cm	mg/L	mg/L	mV	SU	mL/min
U4-MW-09S	12/6/2022	N	EM04	UMCf	55.3 - 65.3	841,000	<0.121 UJ	4.45	67.2	<3.02 UJ	3.158	5.76	0.0 U	73.5	8.69	250
U4-MW-09S	3/17/2023	N	EM07	UMCf	55.3 - 65.3	780,000	<0.121	9.84	61.6	8.34 J	3.822	1.29	0.0 U	97.1	8.96	200
U4-MW-09S	6/15/2023	N	EM10	UMCf	55.3 - 65.3	1,500,000	1.23 J	81.8	48.1	9.78 J	4.352	0.69	0.0 U	-300.0	7.24	100
U4-MW-09S	9/13/2023	N	EM13	UMCf	55.3 - 65.3	1,530,000	<1.21	10.1	34.9	<30.2	8.97	-1.46	0.5	-170.8	6.79	300
U4-MW-09S	12/12/2023	N	EM16	UMCf	55.3 - 65.3	1,690,000	<0.605	137	85.0	<15.1	9.939	0.04	1.5	-130.4	6.04	300
U4-MW-09S	3/13/2024	N	EM19	UMCf	55.3 - 65.3	1,760,000	<0.605	17.0	40.2	<15.1	7.231	0.11	0.0 U	-236.7	6.87	50
U4-MW-09S	6/13/2024	N	EM20	UMCf	55.3 - 65.3	1,660,000	<0.121	11.5	31.7	<3.02	15.504	2.39	1.0	-68.9	6.99	150
U4-MW-09S	9/19/2024	N	EM21	UMCf	55.3 - 65.3	1,630,000	<0.605	4.77 J	23.2 J	<15.1	7.280	0.05	0.0 U	-156.8	6.79	60
U4-MW-10D	4/14/2022	N	BL02	UMCf	96.9 - 106.9	626,000	<0.121	9.13	8.78 J	3.53 J	5.411	0.91	0.0 U	206.3	7.33	100
U4-MW-10D	12/5/2022	N	EM04	UMCf	96.9 - 106.9	----	<0.121	5.41	7.55 J	<3.02	2.690	3.80	0.0 U	70.0	7.73	100
U4-MW-10D	3/17/2023	N	EM07	UMCf	96.9 - 106.9	303,000	<0.121	95.1	<4.99	7.73 J	542.825	0.85	0.5	-107.9	6.38	100
U4-MW-10D	6/14/2023	N	EM10	UMCf	96.9 - 106.9	300,000	<0.121	25.4	<4.99	<3.02	3.761	0.26	1.0	-202.3	6.59	200
U4-MW-10D	9/13/2023	N	EM13	UMCf	96.9 - 106.9	362,000	0.332 J	130	5.23 J	3.27 J	3.965	1	3	-29.7	6.66	50
U4-MW-10D	12/14/2023	N	EM16	UMCf	96.9 - 106.9	297,000	<0.121	66.0	14.2 J	<3.02	2.943	0.28	0.0 U	83.2	6.67	60
U4-MW-10D	3/14/2024	N	EM19	UMCf	96.9 - 106.9	290,000	0.147 J	48.4	20.7	<3.02	2.389	0.98	0.0 U	70.3	6.67	70
U4-MW-10D	6/11/2024	N	EM20	UMCf	96.9 - 106.9	278,000	0.135 J	56.3	22.5	<3.02	3.124	0.57	0.5	-56.8	6.78	60
U4-MW-10D	9/26/2024	N	EM21	UMCf	96.9 - 106.9	288,000	0.315 J	57.7	24.1	4.40 J	3.143	0.98	0.0 U	259.9	6.48	60
U4-MW-10I	4/14/2022	N	BL02	UMCf	77.1 - 87.1	995,000	0.490 J	6.45	9.70 J	4.88 J	7.650	0.90	0.0 U	183.9	7.68	100
U4-MW-10I	12/5/2022	N	EM04	UMCf	77.1 - 87.1	----	<0.121	11.5	16.8 J	<3.02	2.740	0.62	0.0 U	9.6	7.73	100
U4-MW-10I	3/17/2023	N	EM07	UMCf	77.1 - 87.1	586,000	<0.121	0.368 J	10.7 J	10.4 J	735.012	3.48	0.0 U	25.5	6.62	100
U4-MW-10I	6/14/2023	N	EM10	UMCf	77.1 - 87.1	465,000	<0.121	5.72	23.8	<3.02	3.790	0.34	3.0	-173.2	6.54	200
U4-MW-10I	9/13/2023	N	EM13	UMCf	77.1 - 87.1	571,000	<0.121	42.9	17.0 J	4.53 J	4.813	0.57	6	-70.6	6.46	50
U4-MW-10I	12/14/2023	N	EM16	UMCf	77.1 - 87.1	1,540,000	4.16 J	46.1	19.1 J	<15.1	10.020	8.38	0.0 U	165.5	7.20	60
U4-MW-10I	3/13/2024	N	EM19	UMCf	77.1 - 87.1	2,180,000	<0.605	38.5	22.7	<15.1	13.707	0.46	0.0 U	185.5	6.75	60
U4-MW-10I	6/11/2024	N	EM20	UMCf	77.1 - 87.1	556,000	<0.121	18.4	23.6	28.0	5.961	0.89	0.5	32.7	7.00	60
U4-MW-10I	9/25/2024	N	EM21	UMCf	77.1 - 87.1	544,000	<0.121	12.4	18.3	<3.02	4.032	1.26	0.0 U	195.0	6.77	60
U4-MW-11D	4/15/2022	N	BL02	UMCf	97.4 - 107.4	5,920,000	<1.21	5.93 J	<25.0	<30.2	31.458	0.75	0.0 U	194.9	7.12	100
U4-MW-11D	9/26/2022	N	EM01	UMCf	97.4 - 107.4	----	----	----	----	----	49.507	1.26	0.0 U	49.2	7.38	100
U4-MW-11D	10/11/2022	N	EM02	UMCf	97.4 - 107.4	----	----	----	----	----	49.047	1.30	0.0 U	5.2	7.07	250
U4-MW-11D	11/1/2022	N	EM03	UMCf	97.4 - 107.4	----	----	----	----	----	25.648	1.17	0.0 U	-20.2	7.07	150
U4-MW-11D	12/6/2022	N	EM04	UMCf	97.4 - 107.4	5,170,000	<12.1 UJ	32.5 J	<66.4 UJ	<302 UJ	5.464	1.37	0.0 U	156.0	6.76	0
U4-MW-11D	1/12/2023	N	EM05	UMCf	97.4 - 107.4	----	----	----	----	----	25.673	0.68	0.0 U	87.9	6.46	120
U4-MW-11D	2/14/2023	N	EM06	UMCf	97.4 - 107.4	----	----	----	----	----	20.311	1.11	0.0 U	120.7	6.27	200
U4-MW-11D	3/16/2023	N	EM07	UMCf	97.4 - 107.4	4,620,000	<0.605	40.9	<4.99	<15.1	24.191	1.15	0.0 U	46.8	6.50	100
U4-MW-11D	4/18/2023	N	EM08	UMCf	97.4 - 107.4	----	----	----	----	----	18.366	0.11	0.0 U	42.3	6.36	100
U4-MW-11D	5/17/2023	N	EM09	UMCf	97.4 - 107.4	----	----	----	----	----	26.832	1.06	0.0 U	155.6	5.79	140
U4-MW-11D	6/16/2023	N	EM10	UMCf	97.4 - 107.4	5,770,000	0.739 J	37.0	<49.9	29.6 J	13.654	1.92	0.0 U	54.6	6.71	100
U4-MW-11D	7/14/2023	N	EM11	UMCf	97.4 - 107.4	----	----	----	----	----	19.620	0.72	0.0 U	254.6	6.88	140
U4-MW-11D	8/14/2023	N	EM12	UMCf	97.4 - 107.4	----	----	----	----	----	24.679	0.37	0 U	-278.7	6.41	240
U4-MW-11D	9/13/2023	N	EM13	UMCf	97.4 - 107.4	4,240,000	0.844 J	70.5	<4.99	21.4 J	22.158	1.2	0 U	-2.9	6.49	60
U4-MW-11D	10/18/2023	N	EM14	UMCf	97.4 - 107.4	----	----	----	----	----	26.749	0.26	0 U	76.7	6.22	150
U4-MW-11D	11/16/2023	N	EM15	UMCf	97.4 - 107.4	----	----	----	----	----	21.842	0.96	0 U	-59.7	6.26	225
U4-MW-11D	12/13/2023	N	EM16	UMCf	97.4 - 107.4	4,100,000	<2.42	112	<4.99	<60.4	20.757	1.25	0.0 U	-39.3	6.07	75
U4-MW-11D	1/25/2024	N	EM17	UMCf	97.4 - 107.4	----	----	----	----	----	21.175	0.60	0.0 U	169.3	6.10	60
U4-MW-11D	2/14/2024	N	EM18	UMCf	97.4 - 107.4	----	----	----	----	----	21.735	0.61	0.0 U	184.8	6.19	60
U4-MW-11D	3/12/2024	N	EM19	UMCf	97.4 - 107.4	3,930,000	1.39 J	113	5.21 J	<30.2	17.774	-1.74	0.0 U	105.7	6.41	60
U4-MW-11D	6/12/2024	N	EM20	UMCf	97.4 - 107.4	4,420,000	<1.21	85.5	<4.99	59.2 J	29.049	1.08	0.0 U	141.5	6.37	60

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Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
						Sodium	Thallium	Uranium	Vanadium	Zinc	Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH	Purge Rate
						µg/L	µg/L	µg/L	µg/L	µg/L	mS/cm	mg/L	mg/L	mV	SU	mL/min
U4-MW-11D	9/23/2024	N	EM21	UMCf	97.4 - 107.4	4,270,000	<1.21	67.4	<6.64	<30.2	23.775	0.77	0.0 U	248.9	6.41	150
U4-MW-11I	4/14/2022	N	BL02	UMCf	77.0 - 87.0	924,000	<0.121	3.18	14.2 J	<3.02	7.803	1.01	0.0 U	123.8	7.72	110
U4-MW-11I	9/26/2022	N	EM01	UMCf	77.0 - 87.0	----	----	----	----	----	5.582	10.67	0.0 U	-17.7	6.92	100
U4-MW-11I	9/26/2022	FD	EM01	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	10/10/2022	N	EM02	UMCf	77.0 - 87.0	----	----	----	----	----	2.413	1.08	0.0 U	-117.1	6.58	250
U4-MW-11I	10/10/2022	FD	EM02	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	10/31/2022	N	EM03	UMCf	77.0 - 87.0	----	----	----	----	----	3.179	0.82	0.0 U	-266.8	6.57	180
U4-MW-11I	10/31/2022	FD	EM03	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	12/6/2022	N	EM04	UMCf	77.0 - 87.0	609,000	<0.121 UJ	37.6	21.7	<3.02 UJ	3.016	2.77	0.5	-294.3	7.16	0
U4-MW-11I	12/6/2022	FD	EM04	UMCf	77.0 - 87.0	595,000	<0.121 UJ	38.2	21.2	<3.02 UJ	----	----	----	----	----	----
U4-MW-11I	1/12/2023	N	EM05	UMCf	77.0 - 87.0	----	----	----	----	----	3.038	7.09	0.0 U	-240.4	7.70	150
U4-MW-11I	1/12/2023	FD	EM05	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	2/14/2023	N	EM06	UMCf	77.0 - 87.0	----	----	----	----	----	9.120	0.83	0.0 U	-236.7	6.75	200
U4-MW-11I	2/14/2023	FD	EM06	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	3/16/2023	N	EM07	UMCf	77.0 - 87.0	602,000 J	<0.121	14.1	19.2 J	<3.02	3.476	0.45	0.0 U	-241.6	6.86	100
U4-MW-11I	3/16/2023	FD	EM07	UMCf	77.0 - 87.0	398,000 J	<0.121	13.7	10.2 J	4.87 J	----	----	----	----	----	----
U4-MW-11I	4/18/2023	N	EM08	UMCf	77.0 - 87.0	----	----	----	----	----	3.218	0.53	0.0 U	-141.1	6.69	120
U4-MW-11I	4/18/2023	FD	EM08	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	5/19/2023	N	EM09	UMCf	77.0 - 87.0	----	----	----	----	----	3.152	0.28	0.0 U	-267.3	6.73	200
U4-MW-11I	5/19/2023	FD	EM09	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	6/15/2023	N	EM10	UMCf	77.0 - 87.0	495,000	<0.121	9.57	23.2	<3.02	3.350	1.03	1.0	-79.7	6.70	100
U4-MW-11I	6/15/2023	FD	EM10	UMCf	77.0 - 87.0	498,000	<0.121	9.57	22.3	<3.02	----	----	----	----	----	----
U4-MW-11I	7/13/2023	N	EM11	UMCf	77.0 - 87.0	----	----	----	----	----	3.282	0.19	0.2	-243.1	6.68	300
U4-MW-11I	7/13/2023	FD	EM11	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	8/14/2023	N	EM12	UMCf	77.0 - 87.0	----	----	----	----	----	11.584	0.33	0.6	119.4	6.13	240
U4-MW-11I	8/14/2023	FD	EM12	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	9/13/2023	N	EM13	UMCf	77.0 - 87.0	2,050,000	<0.605	242	<4.99	213 J+	15.082	0.86	0 U	261.3	6.3	50
U4-MW-11I	9/13/2023	FD	EM13	UMCf	77.0 - 87.0	2,090,000	<0.605	246	<4.99	212 J+	----	----	----	----	----	----
U4-MW-11I	10/19/2023	N	EM14	UMCf	77.0 - 87.0	----	----	----	----	----	29.354	0.77	0 U	181.1	6.33	140
U4-MW-11I	10/19/2023	FD	EM14	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	11/16/2023	N	EM15	UMCf	77.0 - 87.0	----	----	----	----	----	16.246	0.99	0 U	122.7	6.43	225
U4-MW-11I	11/16/2023	FD	EM15	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	12/13/2023	N	EM16	UMCf	77.0 - 87.0	2,710,000	<1.21	157	<4.99	<30.2	13.935	1.71	0.0 U	235.5	6.27	60
U4-MW-11I	12/13/2023	FD	EM16	UMCf	77.0 - 87.0	2,710,000	<1.21	156	<4.99	<30.2	----	----	----	----	----	----
U4-MW-11I	1/25/2024	N	EM17	UMCf	77.0 - 87.0	----	----	----	----	----	16.091	0.55	0.0 U	176.1	6.32	60
U4-MW-11I	1/25/2024	FD	EM17	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	2/14/2024	N	EM18	UMCf	77.0 - 87.0	----	----	----	----	----	16.043	0.64	0.0 U	159.8	6.37	60
U4-MW-11I	2/14/2024	FD	EM18	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	3/13/2024	N	EM19	UMCf	77.0 - 87.0	3,160,000	<0.605	125	7.29 J	25.3 J	17.230	1.87	0.0 U	180.6	6.44	60
U4-MW-11I	3/13/2024	FD	EM19	UMCf	77.0 - 87.0	3,130,000	<0.605	122	<4.99	29.5 J	----	----	----	----	----	----
U4-MW-11I	6/12/2024	N	EM20	UMCf	77.0 - 87.0	2,850,000	<1.21	148	6.80 J	75.7 J	18.948	0.41	0.0 U	136.3	6.53	60
U4-MW-11I	6/12/2024	FD	EM20	UMCf	77.0 - 87.0	2,660,000	<1.21	157	5.55 J	45.5 J	----	----	----	----	----	----
U4-MW-11I	9/23/2024	N	EM21	UMCf	77.0 - 87.0	2,660,000	<0.605	148	5.24 J	21.4 J	15.711	0.91	0.0 U	224.1	6.60	200
U4-MW-11I	9/23/2024	FD	EM21	UMCf	77.0 - 87.0	2,840,000	<0.605	147	5.53 J	<15.1	----	----	----	----	----	----
U4-MW-12D	4/15/2022	N	BL02	UMCf	97.1 - 107.1	4,920,000	<1.21	10.8	<4.99	<30.2	32.048	0.90	0.0 U	90.8	6.98	100
U4-MW-12D	9/27/2022	N	EM01	UMCf	97.1 - 107.1	----	----	----	----	----	17.403	5.30	0.0 U	183.7	7.31	100
U4-MW-12D	10/12/2022	N	EM02	UMCf	97.1 - 107.1	----	----	----	----	----	11.998	2.16	0.0 U	193.7	7.02	250

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
						Sodium	Thallium	Uranium	Vanadium	Zinc	Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH	Purge Rate
						µg/L	µg/L	µg/L	µg/L	µg/L	mS/cm	mg/L	mg/L	mV	SU	mL/min
U4-MW-12D	11/2/2022	N	EM03	UMCf	97.1 - 107.1	----	----	----	----	----	9.367	1.89	0.0 U	145.9	7.12	250
U4-MW-12D	12/7/2022	N	EM04	UMCf	97.1 - 107.1	3,260,000	<0.605	23.3	9.35 J	20.1 J	15.505	2.44	0.0 U	41.1	7.21	100
U4-MW-12D	1/12/2023	N	EM05	UMCf	97.1 - 107.1	----	----	----	----	----	9.215	1.80	0.0 U	94.5	6.98	250
U4-MW-12D	2/15/2023	N	EM06	UMCf	97.1 - 107.1	----	----	----	----	----	16.607	1.11	0.0 U	42.6	6.93	210
U4-MW-12D	3/14/2023	N	EM07	UMCf	97.1 - 107.1	2,610,000	<0.605	13.7	8.65 J	<15.1	12.160	1.14	0.0 U	72.1	7.06	100
U4-MW-12D	4/17/2023	N	EM08	UMCf	97.1 - 107.1	----	----	----	----	----	18.271	10.22	0.0 U	73.8	7.66	120
U4-MW-12D	5/17/2023	N	EM09	UMCf	97.1 - 107.1	----	----	----	----	----	27.758	1.10	0.0 U	99.8	6.14	150
U4-MW-12D	6/16/2023	N	EM10	UMCf	97.1 - 107.1	2,850,000	<0.605	13.4	<49.9	19.1 J	14.311	0.66	0.0 U	225.8	7.11	180
U4-MW-12D	7/13/2023	N	EM11	UMCf	97.1 - 107.1	----	----	----	----	----	13.058	1.09	0.0 U	149.3	6.95	120
U4-MW-12D	8/14/2023	N	EM12	UMCf	97.1 - 107.1	----	----	----	----	----	9.089	0.87	0 U	177.1	6.74	120
U4-MW-12D	9/12/2023	N	EM13	UMCf	97.1 - 107.1	1,150,000	0.201 J	56.9	<25.0	15.4 J	9.274	0.83	0 U	257.9	6.63	60
U4-MW-12D	10/17/2023	N	EM14	UMCf	97.1 - 107.1	----	----	----	----	----	8.087	0.4	0 U	136.9	6.3	180
U4-MW-12D	11/15/2023	N	EM15	UMCf	97.1 - 107.1	----	----	----	----	----	8.470	1.02	0 U	176.8	6.45	150
U4-MW-12D	12/12/2023	N	EM16	UMCf	97.1 - 107.1	1,140,000	<0.605	115	<4.99	<15.1	7.742	1.24	0.0 U	193.8	6.14	75
U4-MW-12D	1/24/2024	N	EM17	UMCf	97.1 - 107.1	----	----	----	----	----	8.277	0.99	0.0 U	55.8	6.09	60
U4-MW-12D	2/13/2024	N	EM18	UMCf	97.1 - 107.1	----	----	----	----	----	6.756	0.56	0.0 U	162.4	6.08	60
U4-MW-12D	3/12/2024	N	EM19	UMCf	97.1 - 107.1	1,240,000	<0.605	135	6.73 J	<15.1	9.274	1.41	0.0 U	158.8	6.19	60
U4-MW-12D	6/12/2024	N	EM20	UMCf	97.1 - 107.1	1,750,000	<0.605	114	<4.99	37.1 J	15.774	0.40	0.0 U	123.2	6.35	60
U4-MW-12D	9/24/2024	N	EM21	UMCf	97.1 - 107.1	1,820,000	<0.605	80.8	5.60 J	<15.1	24.890	0.64	0.0 U	230.9	6.44	150
U4-MW-12I	4/14/2022	N	BL02	UMCf	76.8 - 86.8	1,720,000	2.39	9.47	9.09 J	<3.02	11.234	1.32	----	35.2	7.74	100
U4-MW-12I	4/14/2022	FD	BL02	UMCf	76.8 - 86.8	1,690,000	<0.121	7.29	6.67 J	<3.02	----	----	----	----	----	----
U4-MW-12I	9/27/2022	N	EM01	UMCf	76.8 - 86.8	----	----	----	----	----	3.677	0.92	0.0 U	121.6	7.60	140
U4-MW-12I	10/12/2022	N	EM02	UMCf	76.8 - 86.8	----	----	----	----	----	2.587	1.25	0.0 U	190.1	7.30	280
U4-MW-12I	11/2/2022	N	EM03	UMCf	76.8 - 86.8	----	----	----	----	----	1.684	1.15	0.0 U	95.4	7.23	180
U4-MW-12I	12/7/2022	N	EM04	UMCf	76.8 - 86.8	490,000	<0.121	41.0	6.05	<3.02	2.533	1.36	0.0 U	-290.6	7.38	80
U4-MW-12I	12/7/2022	FD	EM04	UMCf	76.8 - 86.8	499,000	<0.121	41.4	6.27	<3.02	----	----	----	----	----	----
U4-MW-12I	1/13/2023	N	EM05	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	0.0 U	----	----	----
U4-MW-12I	2/15/2023	N	EM06	UMCf	76.8 - 86.8	----	----	----	----	----	3.485	0.76	0.0 U	-291.6	6.89	210
U4-MW-12I	3/13/2023	N	EM07	UMCf	76.8 - 86.8	591,000	<0.121	15.5	13.0 J	<15.1	2.868	0.28	0.5	-279.2	6.90	100
U4-MW-12I	4/17/2023	N	EM08	UMCf	76.8 - 86.8	----	----	----	----	----	3.160	0.35	0.0 U	-233.8	7.15	130
U4-MW-12I	5/17/2023	N	EM09	UMCf	76.8 - 86.8	----	----	----	----	----	5.078	0.72	0.5	-107.3	6.19	160
U4-MW-12I	6/16/2023	N	EM10	UMCf	76.8 - 86.8	628,000	0.831 J	12.9	19.9 J	4.77 J	3.243	0.35	0.0 U	-162.1	7.01	200
U4-MW-12I	7/11/2023	N	EM11	UMCf	76.8 - 86.8	----	----	----	----	----	3.411	2.36	0.0 U	-71.0	7.01	140
U4-MW-12I	8/14/2023	N	EM12	UMCf	76.8 - 86.8	----	----	----	----	----	8.021	1.05	0 U	9.8	6.17	140
U4-MW-12I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	742,000	<0.121	257	<4.99	15.9 J	5.619	0.68	0 U	-81.5	6.69	50
U4-MW-12I	10/17/2023	N	EM14	UMCf	76.8 - 86.8	----	----	----	----	----	3.377	0.09	3.5	-185.5	6.79	150
U4-MW-12I	11/16/2023	N	EM15	UMCf	76.8 - 86.8	----	----	----	----	----	6.389	0.90	0.5	-90.0	6.46	150
U4-MW-12I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	1,100,000	<0.605	143	<4.99	<15.1	7.120	1.11	0.0 U	309.8	6.20	150
U4-MW-12I	1/24/2024	N	EM17	UMCf	76.8 - 86.8	----	----	----	----	----	7.613	0.54	0.0 U	50.7	6.24	60
U4-MW-12I	2/13/2024	N	EM18	UMCf	76.8 - 86.8	----	----	----	----	----	6.857	0.82	0.0 U	165.5	6.26	60
U4-MW-12I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	1,390,000	0.195 J	168	10.3 J	11.1 J	9.139	1.13	0.0 U	148.1	6.39	60
U4-MW-12I	6/13/2024	N	EM20	UMCf	76.8 - 86.8	2,060,000 J	0.263 J	112	9.71 J	<15.1	12.985	0.35	0.0 U	141.9	6.46	60
U4-MW-12I	9/23/2024	N	EM21	UMCf	76.8 - 86.8	2,100,000	<0.605	91.5 J-	7.74 J	45.4 J	12.382	0.29	0.0 U	242.5	6.73	150
U4-MW-13D	4/14/2022	N	BL02	UMCf	98.2 - 108.2	3,990,000	<1.21	10.8	<25.0	<30.2	32.518	0.90	0.0 U	136.1	6.94	100
U4-MW-13D	9/28/2022	N	EM01	UMCf	98.2 - 108.2	----	----	----	----	----	11.793	0.96	0.0 U	-329.7	6.65	100
U4-MW-13D	10/11/2022	N	EM02	UMCf	98.2 - 108.2	----	----	----	----	----	11.124	1.77	0.0 U	-147.3	6.57	50
U4-MW-13D	11/3/2022	N	EM03	UMCf	98.2 - 108.2	----	----	----	----	----	5.404	1.67	0.0 U	26.5	6.45	250

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Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
						Sodium	Thallium	Uranium	Vanadium	Zinc	Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH	Purge Rate
						µg/L	µg/L	µg/L	µg/L	µg/L	mS/cm	mg/L	mg/L	mV	SU	mL/min
U4-MW-13D	12/7/2022	N	EM04	UMCf	98.2 - 108.2	1,170,000	<0.605	34.4	4.77 J	<15.1	7.937	2.99	0.0 U	122.7	6.70	80
U4-MW-13D	1/12/2023	N	EM05	UMCf	98.2 - 108.2	----	----	----	----	----	4.505	1.39	0.0 U	60.0	6.88	250
U4-MW-13D	2/15/2023	N	EM06	UMCf	98.2 - 108.2	----	----	----	----	----	8.150	1.44	0.0 U	65.4	6.90	210
U4-MW-13D	3/17/2023	N	EM07	UMCf	98.2 - 108.2	849,000	0.310 J	13.2	6.57 J	13.0 J	5.920	2.07	0.0 U	172.0	7.19	100
U4-MW-13D	4/18/2023	N	EM08	UMCf	98.2 - 108.2	----	----	----	----	----	4.930	0.14	0.0 U	74.2	7.35	120
U4-MW-13D	5/17/2023	N	EM09	UMCf	98.2 - 108.2	----	----	----	----	----	7.513	1.34	0.0 U	115.2	6.74	140
U4-MW-13D	6/15/2023	N	EM10	UMCf	98.2 - 108.2	790,000	0.240 J	35.0	<4.99	<3.02	6.112	0.61	0.0 U	101.0	7.03	180
U4-MW-13D	7/12/2023	N	EM11	UMCf	98.2 - 108.2	----	----	----	----	----	6.603	0.50	0.0 U	154.1	6.92	480
U4-MW-13D	8/11/2023	N	EM12	UMCf	98.2 - 108.2	----	----	----	----	----	11.972	1.24	0 U	328	6.37	----
U4-MW-13D	9/11/2023	N	EM13	UMCf	98.2 - 108.2	929,000	0.342 J	30.2	5.22 J	6.85 J	7.059	1.65	0 U	255.6	6.9	50
U4-MW-13D	10/18/2023	N	EM14	UMCf	98.2 - 108.2	----	----	----	----	----	9.096	0.63	0 U	129.4	6.72	180
U4-MW-13D	11/15/2023	N	EM15	UMCf	98.2 - 108.2	----	----	----	----	----	8.038	1.57	0 U	260.8	6.86	225
U4-MW-13D	12/11/2023	N	EM16	UMCf	98.2 - 108.2	1,060,000	<0.605	28.0	<4.99	<15.1	8.078	1.65	0.0 U	229.3	6.83	80
U4-MW-13D	1/23/2024	N	EM17	UMCf	98.2 - 108.2	----	----	----	----	----	8.075	1.21	0.0 U	159.0	6.83	60
U4-MW-13D	2/12/2024	N	EM18	UMCf	98.2 - 108.2	----	----	----	----	----	6.175	2.73	0.0 U	214.6	6.94	60
U4-MW-13D	3/11/2024	N	EM19	UMCf	98.2 - 108.2	1,140,000	<0.605	40.3	8.22 J	39.6 J	8.838	0.30	0.0 U	182.8	7.01	60
U4-MW-13D	6/13/2024	N	EM20	UMCf	98.2 - 108.2	1,400,000	0.411 J	20.9	<4.99	<3.02	13.199	1.04	0.0 U	109.7	6.82	60
U4-MW-13D	9/20/2024	N	EM21	UMCf	98.2 - 108.2	1,600,000	0.464 J	20.5	6.49 J	<3.02	12.349	0.91	0.0 U	212.0	6.93	150
U4-MW-13I	4/14/2022	N	BL02	UMCf	77.1 - 87.1	1,640,000	<0.121	7.29	9.14 J	<3.02	11.607	2.38	0.0 U	127.9	7.42	100
U4-MW-13I	9/28/2022	N	EM01	UMCf	77.1 - 87.1	----	----	----	----	----	5.667	2.79	0.0 U	96.9	7.52	100
U4-MW-13I	10/10/2022	N	EM02	UMCf	77.1 - 87.1	----	----	----	----	----	6.053	1.93	0.0 U	110.0	7.58	50
U4-MW-13I	11/3/2022	N	EM03	UMCf	77.1 - 87.1	----	----	----	----	----	2.675	2.64	0.0 U	141.8	7.46	250
U4-MW-13I	12/6/2022	N	EM04	UMCf	77.1 - 87.1	759,000	<0.121 UJ	38.3	7.72	<3.02 UJ	3.613	1.73	0.0 U	-292.7	7.58	100
U4-MW-13I	1/12/2023	N	EM05	UMCf	77.1 - 87.1	----	----	----	----	----	2.079	1.19	0.0 U	-245.9	7.13	250
U4-MW-13I	2/14/2023	N	EM06	UMCf	77.1 - 87.1	----	----	----	----	----	3.065	0.61	0.0 U	-309.2	7.19	200
U4-MW-13I	3/16/2023	N	EM07	UMCf	77.1 - 87.1	655,000	<0.121	19.8	<4.99	<3.02	1.654	0.98	0.0 U	-313.7	7.44	0
U4-MW-13I	4/19/2023	N	EM08	UMCf	77.1 - 87.1	----	----	----	----	----	2.452	0.02	0.0 U	-303.7	7.07	130
U4-MW-13I	5/17/2023	N	EM09	UMCf	77.1 - 87.1	----	----	----	----	----	4.125	0.52	0.0 U	-123.7	6.73	160
U4-MW-13I	6/15/2023	N	EM10	UMCf	77.1 - 87.1	606,000	<0.121	27.5	12.0 J	<3.02	3.300	0.32	0.0 U	-73.9	7.04	180
U4-MW-13I	7/12/2023	N	EM11	UMCf	77.1 - 87.1	----	----	----	----	----	3.564	2.68	0.2	135.1	7.11	440
U4-MW-13I	8/11/2023	N	EM12	UMCf	77.1 - 87.1	----	----	----	----	----	14.898	0.97	0 U	309.3	6.8	140
U4-MW-13I	9/11/2023	N	EM13	UMCf	77.1 - 87.1	1,060,000	<0.121	30.7	<4.99	9.22 J	8.29	1.69	0 U	227	7	50
U4-MW-13I	10/17/2023	N	EM14	UMCf	77.1 - 87.1	----	----	----	----	----	8.605	0.64	0 U	91	6.92	180
U4-MW-13I	11/15/2023	N	EM15	UMCf	77.1 - 87.1	----	----	----	----	----	9.056	1.19	0 U	262.2	7.07	150
U4-MW-13I	12/11/2023	N	EM16	UMCf	77.1 - 87.1	1,330,000	<0.605	30.8	<4.99	<15.1	8.638	1.59	0.0 U	269.2	6.93	80
U4-MW-13I	1/23/2024	N	EM17	UMCf	77.1 - 87.1	----	----	----	----	----	9.544	1.63	0.0 U	165.9	6.95	60
U4-MW-13I	2/12/2024	N	EM18	UMCf	77.1 - 87.1	----	----	----	----	----	9.005	1.01	0.0 U	227.6	7.07	60
U4-MW-13I	3/11/2024	N	EM19	UMCf	77.1 - 87.1	1,590,000	<0.605	40.0	9.30 J	35.2 J	11.292	1.54	0.0 U	170.2	7.19	60
U4-MW-13I	6/13/2024	N	EM20	UMCf	77.1 - 87.1	1,640,000	0.193 J	30.9	7.86 J	7.60 J	14.120	0.49	0.0 U	96.5	6.82	60
U4-MW-13I	9/20/2024	N	EM21	UMCf	77.1 - 87.1	1,820,000	0.197 J	27.6	8.11 J	3.03 J	11.923	0.39	0.0 U	216.2	6.86	150
U4-MW-14D	4/13/2022	N	BL02	UMCf	97.3 - 107.3	673,000	<0.121	18.5	22.2	<3.02	5.770	0.87	0.0 U	161.5	7.20	100
U4-MW-14D	12/6/2022	N	EM04	UMCf	97.3 - 107.3	469,000	0.156 J	8.22	14.1	<3.02 UJ	4.415	2.55	0.0 U	75.3	7.39	80
U4-MW-14D	3/16/2023	N	EM07	UMCf	97.3 - 107.3	373,000	<0.121	8.52	9.49 J	6.57 J	181.910	1.08	0.0 U	143.2	7.47	100
U4-MW-14D	6/15/2023	N	EM10	UMCf	97.3 - 107.3	420,000	<0.121	23.0	<4.99	<3.02	4.035	0.82	0.0 U	119.7	7.08	180
U4-MW-14D	9/14/2023	N	EM13	UMCf	97.3 - 107.3	425,000	<0.121	47.7	9.33 J	5.36 J	3.694	1.94	0 U	273.2	6.53	50
U4-MW-14D	12/15/2023	N	EM16	UMCf	97.3 - 107.3	456,000	0.123 J	58.0	<4.99	17.3 J	3.257	2.42	0.0 U	201.8	6.52	50
U4-MW-14D	3/13/2024	N	EM19	UMCf	97.3 - 107.3	508,000	0.128 J	34.2	8.12 J	10.1 J	4.998	3.12	0.0 U	393.4	6.17	0

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
						Sodium	Thallium	Uranium	Vanadium	Zinc	Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH	Purge Rate
						µg/L	µg/L	µg/L	µg/L	µg/L	mS/cm	mg/L	mg/L	mV	SU	mL/min
U4-MW-14D	6/13/2024	N	EM20	UMCf	97.3 - 107.3	385,000	<0.121	22.3	8.94 J	<3.02	3.997	1.04	0.0 U	104.1	6.55	60
U4-MW-14D	9/19/2024	N	EM21	UMCf	97.3 - 107.3	351,000	<0.121	13.9	15.0	<3.02	3.534	0.58	0.0 U	444.7	6.89	150
U4-MW-14I	4/14/2022	N	BL02	UMCf	77.3 - 87.3	596,000	<0.121	4.68	13.3 J	<3.02	5.720	0.77	0.0 U	110.5	8.07	150
U4-MW-14I	12/6/2022	N	EM04	UMCf	77.3 - 87.3	518,000	0.243 J	15.3	14.3	<3.02 UJ	4.279	2.18	0.0 U	63.8	7.41	80
U4-MW-14I	3/16/2023	N	EM07	UMCf	77.3 - 87.3	413,000	<0.121	11.3	13.6 J	<3.02	213.617	0.55	0.0 U	166.5	7.45	130
U4-MW-14I	6/15/2023	N	EM10	UMCf	77.3 - 87.3	553,000	<0.121	36.8	12.4 J	<3.02	4.589	0.61	0.0 U	174.8	7.01	200
U4-MW-14I	9/14/2023	N	EM13	UMCf	77.3 - 87.3	450,000	<0.121	55.6	10.2 J	8.92 J	4.131	0.73	0 U	238.2	6.83	90
U4-MW-14I	12/14/2023	N	EM16	UMCf	77.3 - 87.3	502,000	<0.121	89.2	<4.99	<3.02	4.580	0.14	0.0 U	96.4	6.51	70
U4-MW-14I	3/13/2024	N	EM19	UMCf	77.3 - 87.3	589,000	0.180 J	72.0	<4.99	<3.02	5.115	3.13	0.0 U	360.6	6.37	40
U4-MW-14I	6/14/2024	N	EM20	UMCf	77.3 - 87.3	559,000	<0.121	73.6 J+	7.16 J	<3.02	4.920	0.95	0.0 U	151.6	6.66	60
U4-MW-14I	9/19/2024	N	EM21	UMCf	77.3 - 87.3	602,000	<0.121	43.9	10.2	<3.02	5.847	0.45	0.0 U	452.2	6.88	200
U4-MW-15D	4/13/2022	N	BL02	UMCf	96.0 - 106.0	646,000	0.186 J	13.6	8.06 J	<3.02	5.015	1.02	0.0 U	209.2	7.09	100
U4-MW-15D	12/5/2022	N	EM04	UMCf	96.0 - 106.0	436,000	<0.121	11.6	7.40 J	<3.02	2.298	15.40	0.0 U	168.4	7.52	200
U4-MW-15D	3/20/2023	N	EM07	UMCf	96.0 - 106.0	318,000	<0.121	6.45	8.42 J	<3.02	2.799	0.93	0.0 U	127.9	7.39	200
U4-MW-15D	6/14/2023	N	EM10	UMCf	96.0 - 106.0	415,000	<0.121	10.1	11.3 J	<3.02	5.069	0.61	0.0 U	36.2	7.16	180
U4-MW-15D	9/13/2023	N	EM13	UMCf	96.0 - 106.0	358,000	<0.121	6.81	9.95 J	3.80 J	3.276	1.03	0 U	31.4	7.55	50
U4-MW-15D	12/12/2023	N	EM16	UMCf	96.0 - 106.0	343,000	<0.121	25.3	7.10 J	<3.02	3.211	1.20	0.0 U	366.3	6.63	300
U4-MW-15D	3/12/2024	N	EM19	UMCf	96.0 - 106.0	381,000	0.143 J	58.4	<4.99	<3.02	3.458	0.73	0.0 U	189.4	6.45	50
U4-MW-15D	6/14/2024	N	EM20	UMCf	96.0 - 106.0	336,000	<1.21	112 J+	<4.99	<30.2	3.500	0.90	0.0 U	54.7	6.76	60
U4-MW-15D	9/24/2024	N	EM21	UMCf	96.0 - 106.0	312,000	<0.121	19.9	9.53	<3.02	5.586	0.43	0.0 U	195.1	7.10	180
U4-MW-15DD	4/13/2022	N	BL02	UMCf	120.3 - 130.3	159,000	<0.121	4.23	17.9 J	<3.02	0.999	2.14	0.0 U	123.8	8.36	100
U4-MW-15DD	12/5/2022	N	EM04	UMCf	120.3 - 130.3	----	<0.121	3.37	12.9 J	<3.02	0.666	2.14	0.0 U	-139.8	8.59	250
U4-MW-15DD	3/15/2023	N	EM07	UMCf	120.3 - 130.3	137,000	<0.121	3.10	11.8 J	<3.02	0.888	1.96	0.0 U	104.0	9.13	100
U4-MW-15DD	6/13/2023	N	EM10	UMCf	120.3 - 130.3	138,000	<0.121	2.81	6.34 J	<3.02	1.027	0.94	0.0 U	20.5	8.36	180
U4-MW-15DD	9/14/2023	N	EM13	UMCf	120.3 - 130.3	130,000	<0.121	3.64	13.1 J	<3.02	0.905	2.24	0 U	-32	8.48	50
U4-MW-15DD	12/13/2023	N	EM16	UMCf	120.3 - 130.3	135,000	<0.121	3.84	15.5 J	<3.02	0.827	3.34	0.0 U	125.3	8.67	60
U4-MW-15DD	3/12/2024	N	EM19	UMCf	120.3 - 130.3	138,000	<0.121	3.50	9.51 J	<3.02	0.866	1.80	0.0 U	119.7	8.59	50
U4-MW-15DD	6/14/2024	N	EM20	UMCf	120.3 - 130.3	134,000	<0.121	2.90 J+	10.6 J	<3.02	1.108	1.55	0.0 U	25.2	8.02	60
U4-MW-15DD	9/24/2024	N	EM21	UMCf	120.3 - 130.3	138,000	<0.121	3.01	13.7	<3.02	1.908	2.32	0.0 U	162.0	8.69	150
U4-MW-15I	4/12/2022	N	BL02	UMCf	76.8 - 86.8	897,000	<0.121	6.59	18.7 J	<3.02	5.348	1.45	0.0 U	125.1	7.95	150
U4-MW-15I	12/5/2022	N	EM04	UMCf	76.8 - 86.8	976,000	0.663 J	52.3	14.2 J	<3.02	2.972	1.05	0.0 U	161.9	6.87	250
U4-MW-15I	3/17/2023	N	EM07	UMCf	76.8 - 86.8	387,000	<0.121	69.9	65.7	6.91 J	473.418	0.66	0.4	-173.7	6.17	120
U4-MW-15I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	448,000	<0.121	5.30	31.2	5.29 J	3.653	0.38	5.5	-124.6	6.30	180
U4-MW-15I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	1,010,000	<0.121	95.8	13.3 J	16.5 J	6.172	1.16	0 U	7	6.57	50
U4-MW-15I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	935,000	<0.605	49.9	29.0	<15.1	5.160	3.57	0.5	76.2	6.88	300
U4-MW-15I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	1,300,000	<0.605	83.2	35.7	<15.1	8.283	10.56	0.0 U	173.2	7.16	50
U4-MW-15I	6/17/2024	N	EM20	UMCf	76.8 - 86.8	1,670,000	<0.605	88.3	41.7	<15.1	10.713	9.05	0.0 U	130.2	7.27	60
U4-MW-15I	9/25/2024	N	EM21	UMCf	76.8 - 86.8	959,000 J-	<0.121 UJ	1.10 J-	19.8 J-	3.30 J	16.461	0.21	0.0 U	208.3	6.98	150
U4-MW-15S	4/13/2022	N	BL02	UMCf	54.8 - 64.8	387,000 J	<0.121	4.94	23.5	<3.02	2.466	5.73	0.0 U	165.2	8.11	200
U4-MW-15S	12/5/2022	N	EM04	UMCf	54.8 - 64.8	277,000	<0.121	6.64	21.0	<3.02	1.328	0.91	0.0 U	-309.1	5.99	250
U4-MW-15S	3/13/2023	N	EM07	UMCf	54.8 - 64.8	299,000	<0.121	1.92	14.4 J	<15.1	1.687	1.02	0.0 U	-307.8	7.07	0
U4-MW-15S	6/13/2023	N	EM10	UMCf	54.8 - 64.8	421,000	0.259 J	2.57	8.42 J	<3.02	2.659	0.19	0.0 U	-211.4	6.94	200
U4-MW-15S	9/14/2023	N	EM13	UMCf	54.8 - 64.8	478,000	<0.121	3.32	13.9 J	8.39 J	2.629	0.25	0 U	-165.9	6.53	50
U4-MW-15S	12/11/2023	N	EM16	UMCf	54.8 - 64.8	482,000	<0.121	10.9	5.22 J	<3.02	3.228	-0.25	0.0 U	-110.5	6.58	240
U4-MW-15S	3/12/2024	N	EM19	UMCf	54.8 - 64.8	475,000	<0.121	7.22	<4.99	<3.02	3.022	1.60	0.0 U	-148.8	6.62	0
U4-MW-15S	3/26/2024	N	EM19	UMCf	54.8 - 64.8	412,000	<0.121	3.40	8.51 J	<3.02	3.428	0.12	0.0 U	-134.0	6.59	200
U4-MW-15S	6/14/2024	N	EM20	UMCf	54.8 - 64.8	384,000	<0.121	4.54 J+	<4.99	<3.02	3.065	0.15	0.0 U	-133.0	6.71	60

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Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
						Sodium	Thallium	Uranium	Vanadium	Zinc	Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH	Purge Rate
						µg/L	µg/L	µg/L	µg/L	µg/L	mS/cm	mg/L	mg/L	mV	SU	mL/min
U4-MW-15S	9/20/2024	N	EM21	UMCf	54.8 - 64.8	401,000	<0.121	5.26	<4.99	<3.02	2.816	0.15	0.0 U	-99.3	7.10	150
U4-MW-16D	4/11/2022	N	BL02	UMCf	96.8 - 106.8	1,210,000	<1.21	6.64 J	<4.99	44.4 J	27.119	4.03	0.0 U	165.2	7.15	100
U4-MW-16D	12/5/2022	N	EM04	UMCf	96.8 - 106.8	522,000	<0.121	5.45	<4.99	<3.02	14.259	2.61	0.0 U	63.9	7.13	80
U4-MW-16D	3/14/2023	N	EM07	UMCf	96.8 - 106.8	1,750,000	<0.605	18.7	6.38 J	<15.1	9.893	2.42	0.0 U	134.5	6.47	100
U4-MW-16D	6/13/2023	N	EM10	UMCf	96.8 - 106.8	2,970,000	<1.21	35.6	5.43 J	<30.2	23.075	1.17	0.0 U	212.9	6.65	180
U4-MW-16D	9/15/2023	N	EM13	UMCf	96.8 - 106.8	1,800,000	<0.605	24.8	7.10 J	<15.1	18.739	-7.04	0 U	367.1	6.59	240
U4-MW-16D	12/14/2023	N	EM16	UMCf	96.8 - 106.8	1,820,000	<1.21	3.83 J	<4.99	<30.2	11.484	1.99	0.0 U	165.4	7.16	60
U4-MW-16D	3/14/2024	N	EM19	UMCf	96.8 - 106.8	1,490,000	<0.605	6.30	<4.99	<15.1	10.706	7.51	0.0 U	408.4	7.40	0
U4-MW-16D	6/17/2024	N	EM20	UMCf	96.8 - 106.8	1,890,000	<0.605	3.86 J	6.73 J	<15.1	16.373	1.29	0.0 U	61.9	7.26	60
U4-MW-16D	9/20/2024	N	EM21	UMCf	96.8 - 106.8	2,090,000	0.170 J	4.80	5.04 J	34.7	15.368	0.79	0.0 U	244.7	7.02	100
U4-MW-16DD	4/12/2022	N	BL02	UMCf	120.8 - 130.8	390,000	<0.121	7.68	18.9 J	5.37 J	2.380	1.10	0.0 U	121.7	7.62	100
U4-MW-16DD	12/5/2022	N	EM04	UMCf	120.8 - 130.8	----	<0.121	7.92	14.0 J	<3.02	1.722	1.93	0.0 U	43.7	7.71	100
U4-MW-16DD	3/15/2023	N	EM07	UMCf	120.8 - 130.8	246,000	<0.121	7.16	15.9 J	3.04 J	1.622	2.67	0.0 U	-32.6	7.56	100
U4-MW-16DD	6/13/2023	N	EM10	UMCf	120.8 - 130.8	227,000	<0.121	6.69	21.9	<3.02	1.625	0.95	0.0 U	44.0	7.78	180
U4-MW-16DD	9/14/2023	N	EM13	UMCf	120.8 - 130.8	199,000	<0.121	7.28	19.3 J	3.51 J	1.398	1.21	0 U	-27.1	7.75	60
U4-MW-16DD	12/13/2023	N	EM16	UMCf	120.8 - 130.8	204,000	<0.121	7.66	18.5 J	3.26 J	1.424	2.44	0.0 U	150.2	7.86	60
U4-MW-16DD	3/14/2024	N	EM19	UMCf	120.8 - 130.8	208,000	<0.121	6.64	17.0 J	<3.02	6.202	5.96	0.0 U	351.8	7.25	40
U4-MW-16DD	6/17/2024	N	EM20	UMCf	120.8 - 130.8	192,000	<0.121	6.56	21.5	<3.02	1.569	1.23	0.0 U	61.3	8.01	60
U4-MW-16DD	9/19/2024	N	EM21	UMCf	120.8 - 130.8	186,000	<0.121	6.52	20.8	<3.02	1.474	9.60	0.0 U	377.9	8.23	150
U4-MW-16I	4/11/2022	N	BL02	UMCf	77.0 - 87.0	968,000	<0.121	2.26	<4.99	3.91 J	6.673	8.63	0.0 U	129.8	8.36	200
U4-MW-16I	12/5/2022	N	EM04	UMCf	77.0 - 87.0	----	<0.121	65.4	7.90 J	6.02 J	2.618	1.36	0.0 U	-277.0	7.32	60
U4-MW-16I	12/5/2022	FD	EM04	UMCf	77.0 - 87.0	----	<0.121	62.1	5.85 J	<3.02	----	----	----	----	----	----
U4-MW-16I	3/13/2023	N	EM07	UMCf	77.0 - 87.0	342,000	<0.121	20.1	18.4 J	<3.02	0.020	8.09	----	-54.8	7.33	100
U4-MW-16I	3/13/2023	FD	EM07	UMCf	77.0 - 87.0	342,000	<0.121	18.7	23.0	<3.02	----	----	----	----	----	----
U4-MW-16I	6/12/2023	N	EM10	UMCf	77.0 - 87.0	276,000	<0.121	13.7	19.6 J	5.25 J	3.244	1.03	5.5	-65.3	6.76	200
U4-MW-16I	6/12/2023	FD	EM10	UMCf	77.0 - 87.0	280,000	0.282 J	13.0	21.3	8.93 J	----	----	----	----	----	----
U4-MW-16I	9/11/2023	N	EM13	UMCf	77.0 - 87.0	1,990,000	0.152 J	108	<4.99	10.2 J	14.244	0.85	0 U	120.2	6.61	50
U4-MW-16I	9/11/2023	FD	EM13	UMCf	77.0 - 87.0	1,980,000	0.142 J	107	<4.99	<3.02	----	----	----	----	----	----
U4-MW-16I	12/11/2023	N	EM16	UMCf	77.0 - 87.0	2,610,000	<0.605	38.2	7.72 J	<15.1	17.713	0.05	0.0 U	381.7	6.75	150
U4-MW-16I	12/11/2023	FD	EM16	UMCf	77.0 - 87.0	2,530,000	<0.605	36.6	7.10 J	<15.1	----	----	----	----	----	----
U4-MW-16I	3/11/2024	N	EM19	UMCf	77.0 - 87.0	2,660,000	<0.605	26.2	10.5 J	31.1 J	16.108	1.13	0.0 U	168.3	7.13	60
U4-MW-16I	3/11/2024	FD	EM19	UMCf	77.0 - 87.0	2,760,000	<0.605	29.3	10.9 J	31.2 J	----	----	----	----	----	----
U4-MW-16I	6/18/2024	N	EM20	UMCf	77.0 - 87.0	2,320,000	<0.605	30.7	9.78 J	<15.1	16.014	0.99	0.0 U	153.9	6.79	60
U4-MW-16I	6/18/2024	FD	EM20	UMCf	77.0 - 87.0	2,250,000	<0.605	31.0	12.3 J	<15.1	----	----	----	----	----	----
U4-MW-16I	9/19/2024	N	EM21	UMCf	77.0 - 87.0	2,280,000	<1.21	29.8	15.4 J	<30.2	1094.028	0.37	0.0 U	227.2	6.64	150
U4-MW-16I	9/19/2024	FD	EM21	UMCf	77.0 - 87.0	2,260,000	<1.21	29.7	17.0 J	<30.2	----	----	----	----	----	----
U4-MW-16S	4/12/2022	N	BL02	UMCf	54.8 - 64.8	409,000	<0.121	3.64	15.4 J	<3.02	2.712	4.29	0.0 U	136.6	8.80	200
U4-MW-16S	4/12/2022	FD	BL02	UMCf	54.8 - 64.8	405,000	<0.121	3.66	14.3 J	<3.02	----	----	----	----	----	----
U4-MW-16S	12/6/2022	N	EM04	UMCf	54.8 - 64.8	386,000	<0.121 UJ	12.5	7.59	<3.02 UJ	2.562	1.29	0.0 U	24.7	8.01	120
U4-MW-16S	3/15/2023	N	EM07	UMCf	54.8 - 64.8	567,000	<0.121	0.247 J	7.88 J	<15.1	3.549	0.71	6.0	-159.7	6.65	100
U4-MW-16S	6/13/2023	N	EM10	UMCf	54.8 - 64.8	455,000	<0.121	0.234 J	8.63 J	<3.02	3.772	0.40	7.0	-105.2	6.67	200
U4-MW-16S	9/11/2023	N	EM13	UMCf	54.8 - 64.8	362,000	<0.121	0.266 J	<4.99	<3.02	2.498	1.55	2	-84.7	7.14	60
U4-MW-16S	12/11/2023	N	EM16	UMCf	54.8 - 64.8	423,000	<0.121	0.0878 J	5.81 J	9.20 J	3.172	0.20	0.5	-132.8	7.13	270
U4-MW-16S	3/11/2024	N	EM19	UMCf	54.8 - 64.8	441,000	<0.121	0.124 J	9.51 J	46.3 J+	3.088	0.48	0.0 U	-163.5	7.14	50
U4-MW-16S	6/17/2024	N	EM20	UMCf	54.8 - 64.8	374,000	<0.121	0.343 J	6.87 J	<3.02	2.670	0.31	1.0	-141.0	6.93	60
U4-MW-16S	9/20/2024	N	EM21	UMCf	54.8 - 64.8	306,000	<0.121	2.28	<4.99	<3.02	2.159	0.69	0.0 U	-100.1	7.06	100
U4-SLMW	11/10/2022	N	EM03	-	-	----	----	----	----	----	----	----	----	----	----	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
						Sodium	Thallium	Uranium	Vanadium	Zinc	Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH	Purge Rate
						µg/L	µg/L	µg/L	µg/L	µg/L	mS/cm	mg/L	mg/L	mV	SU	mL/min
U4-T3	10/13/2022	N	EM02	-	-	----	----	----	----	----	----	----	----	----	----	----
U4-T3	11/3/2022	N	EM03	-	-	----	----	----	----	----	16.618	2.05	----	-60.4	6.51	----
U4-T3	12/6/2022	N	EM04	-	-	----	----	----	----	----	10.943	3.89	----	-8.5	6.72	----
U4-T3	1/9/2023	N	EM05	-	-	----	----	----	----	----	10.447	5.03	----	111.4	7.05	----
U4-T3	2/13/2023	N	EM06	-	-	----	----	----	----	----	13.131	7.12	----	159.2	7.44	----
U4-T3	3/13/2023	N	EM07	-	-	----	----	----	----	----	9.552	6.11	----	197.0	7.43	----
U4-T3	4/19/2023	N	EM08	-	-	----	----	----	----	----	6.951	0.42	----	-27.7	6.94	----
U4-T3	5/18/2023	N	EM09	-	-	----	----	----	----	----	17.125	3.18	----	49.6	5.71	----
U4-T3	6/12/2023	N	EM10	-	-	----	----	----	----	----	13.126	6.38	----	225.9	6.88	----
U4-T3	7/11/2023	N	EM11	-	-	----	----	----	----	----	0.029	1.56	----	-61.3	6.54	----
U4-T3	8/10/2023	N	EM12	-	-	----	----	----	----	----	4.655	2.7	----	-73.1	6.74	----
U4-T3	9/11/2023	N	EM13	-	-	----	----	----	----	----	6.711	1.03	----	-247	6.23	----
U4-T3	10/16/2023	N	EM14	-	-	----	----	----	----	----	4.54	0.53	----	-216.9	6.05	----

Notes:
FD - Field duplicate
E - Field instrument error.
J - The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J- - The result is an estimated quantity, but the result may be biased low.
J+ - The result is an estimated quantity, but the result may be biased high.
N/A - Not Applicable
mg/L - milligrams per liter
µg/L - micrograms per liter
N - Normal field sample

R - The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

UMCf- Upper Muddy Creek Formation
< - The analyte was analyzed for, but was not detected above the level of the reported
-- Not tested.
U4-E-08D has been abandoned.
M-252 damaged/obstructed when checked on June 14, 2023 and September 14, 2023.
U4-MW-08S and U4-MW-15S were purged and resampled for EM19 on March 25-26, 2024; Original EM19 samples were collected via bailer due to well condition.
Lab was unable to analyze and report TDS for samples L1782240-20 (U4-E-09I-EM21) and -21 (U4-E-09I-EM21-FD) due to the thickness of the sample matrix.

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	FIELD TESTS	FIELD TESTS	FIELD TESTS	RSK175	RSK175	RSK175	SM2540C	SM2540G	SW6010B	SW6010B	SW6010B
						Sulfide	Temperature	Turbidity	Ethane	Ethene	Methane	Total Dissolved Solids	Solids, Percent	Aluminum	Calcium	Iron
						mg/L	C	NTU	µg/L	µg/L	µg/L	µg/L	Percent	µg/L	µg/L	µg/L
M-247-100	4/20/2022	N	BL02	UMCf	100.5 - 110.5	0.0 U	26.9	22.0	----	----	----	712,000	----	----	----	----
M-249-100	4/20/2022	N	BL02	UMCf	99.6 - 109.6	0.0 U	27.5	60.6	----	----	----	54,000,000	----	----	----	----
M-251-100	4/19/2022	N	BL02	UMCf	92.5 - 102.5	0.0 U	26.3	17.1	----	----	----	39,900,000	----	----	----	----
M-251-100	10/13/2022	N	EM02	UMCf	92.5 - 102.5	----	24.9	58.8	----	----	----	25,800,000	----	----	----	----
M-251-100	11/2/2022	N	EM03	UMCf	92.5 - 102.5	----	24.1	33.2	----	----	----	18,700,000	----	----	----	----
M-251-100	12/8/2022	N	EM04	UMCf	92.5 - 102.5	----	22.0	17.3	----	----	----	15,000,000 J	----	----	----	----
M-251-100	1/11/2023	N	EM05	UMCf	92.5 - 102.5	----	23.0	50.5	----	----	----	22,400,000	----	----	----	----
M-251-100	2/13/2023	N	EM06	UMCf	92.5 - 102.5	----	23.4	21.0	----	----	----	9,740,000	----	----	----	----
M-251-100	3/17/2023	N	EM07	UMCf	92.5 - 102.5	0.0 U	23.8	21.3	<4.07	<4.26	<2.91	15,300,000	----	----	----	----
M-251-100	4/21/2023	N	EM08	UMCf	92.5 - 102.5	0.0 U	24.3	32.6	----	----	----	18,500,000	----	----	----	----
M-251-100	5/9/2023	N	EM09	UMCf	92.5 - 102.5	0.0 U	29.7	9.1	----	----	----	19,900,000	----	----	----	----
M-251-100	6/14/2023	N	EM10	UMCf	92.5 - 102.5	0.0 U	27.4	47.1	<4.07	<4.26	49.1	20,400,000	----	----	----	----
M-251-100	7/14/2023	N	EM11	UMCf	92.5 - 102.5	0.0 U	30.3	19.4	----	----	----	18,000,000	----	----	----	----
M-251-100	8/10/2023	N	EM12	UMCf	92.5 - 102.5	0 U	33.6	16.5	----	----	----	21,500,000	----	----	----	----
M-251-100	9/14/2023	N	EM13	UMCf	92.5 - 102.5	0 U	27.7	144.9	<4.07	<4.26	5,540	12,500,000	----	----	----	----
M-251-100	10/19/2023	N	EM14	UMCf	92.5 - 102.5	0 U	27.9	55.6	----	----	----	19,800,000 J-	----	----	----	----
M-251-100	11/16/2023	N	EM15	UMCf	92.5 - 102.5	0 U	25.9	18.6	----	----	----	16,400,000	----	----	----	----
M-251-100	12/12/2023	N	EM16	UMCf	92.5 - 102.5	0.0 U	24.2	-144082.9	<4.07	<4.26	25,700	16,400,000	----	----	----	----
M-251-100	1/25/2024	N	EM17	UMCf	92.5 - 102.5	0.0 U	25.6	72.8	----	----	----	16,800,000	----	----	----	----
M-251-100	2/13/2024	N	EM18	UMCf	92.5 - 102.5	0.2	19.9	63.6	----	----	----	12,500,000	----	----	----	----
M-251-100	3/11/2024	N	EM19	UMCf	92.5 - 102.5	0.0 U	26.4	283.9	<4.07	<4.26	4,410	23,300,000	----	----	----	----
M-251-100	6/17/2024	N	EM20	UMCf	92.5 - 102.5	0.0 U	35.0	61.0	<4.07	<4.26	9,310	17,300,000	----	----	----	----
M-251-100	9/23/2024	N	EM21	UMCf	92.5 - 102.5	0.0 U	34.4	15.9	<3.40	<3.40	4,700	18,900,000	----	----	----	----
M-251-60	4/18/2022	N	BL02	UMCf	52.3 - 62.3	0.0 U	30.5	18.3	----	----	----	2,330,000 J	----	----	----	----
M-251-60	3/15/2023	N	EM07	UMCf	52.3 - 62.3	0.0 U	23.5	10.4	<4.07	<4.26	<2.91	2,490,000	----	----	----	----
M-251-60	6/14/2023	N	EM10	UMCf	52.3 - 62.3	0.0 U	27.1	203.3	<4.07	<4.26	233	2,690,000	----	----	----	----
M-251-60	9/14/2023	N	EM13	UMCf	52.3 - 62.3	0 U	28.7	84.9	<4.07	<4.26	1,410	2,330,000	----	----	----	----
M-251-60	12/11/2023	N	EM16	UMCf	52.3 - 62.3	----	24.3	81.5	<4.07	<4.26	5,770	2,050,000	----	----	----	----
M-251-60	3/12/2024	N	EM19	UMCf	52.3 - 62.3	0.2	21.4	7.5	<4.07	<4.26	8,640	1,930,000	----	----	----	----
M-251-60	6/19/2024	N	EM20	UMCf	52.3 - 62.3	0.5	29.1	21.9	<4.07	<4.26	10,700	1,500,000	----	----	----	----
M-251-60	9/20/2024	N	EM21	UMCf	52.3 - 62.3	0.4	28.4	13.5	<3.40	<3.40	14,300	1,670,000	----	----	----	----
M-252	4/21/2022	N	BL02	UMCf	132.3 - 142.3	0.0 U	29.6	9.9	----	----	----	1,410,000	----	----	----	----
M-252	3/15/2023	N	EM07	UMCf	132.3 - 142.3	0.0 U	21.5	9.8	<4.07	<4.26	<2.91	2,590,000	----	----	----	----
M-252	9/19/2023	N	EM13	UMCf	132.3 - 142.3	0 U	36	2	<4.07	<4.26	12.8	2,110,000	----	----	----	----
M-252	12/18/2023	N	EM16	UMCf	132.3 - 142.3	0.0 U	23.9	13.7	<4.07	<4.26	139	2,850,000	----	----	----	----
M-252	3/12/2024	N	EM19	UMCf	132.3 - 142.3	0.0 U	17.8	0.2	<4.07	<4.26	78.8	3,790,000	----	----	----	----
M-252	6/19/2024	N	EM20	UMCf	132.3 - 142.3	0.0 U	46.6	6.8	<4.07	<4.26	309	2,380,000	----	----	----	----
M-252	9/24/2024	N	EM21	UMCf	132.3 - 142.3	0.0 U	34.6	2.3	<3.40	<3.40	36.7	1,660,000	----	----	----	----
M-253-100	4/20/2022	N	BL02	UMCf	100.8 - 110.8	0.0 U	25.2	21.0	----	----	----	2,130,000	----	----	----	----
M-255-100	4/20/2022	N	BL02	UMCf	100.2 - 110.2	0.0 U	25.1	12.0	----	----	----	1,600,000	----	----	----	----
U4-E-01D	4/18/2022	N	BL02	UMCf	94.7 - 109.7	0.0 U	26.2	8.7	----	----	----	43,600,000	----	----	----	----
U4-E-01D	3/14/2023	N	EM07	UMCf	94.7 - 109.7	0.0 U	21.8	9.1	<4.07	<4.26	<2.91	606,000	----	----	----	----
U4-E-01D	6/20/2024	N	EM20	UMCf	94.7 - 109.7	0.0 U	28.9	857.9	<4.07	<4.26	13,600	11,200,000 J-	----	----	----	----
U4-E-01D	9/25/2024	N	EM21	UMCf	94.7 - 109.7	0.0 U	31.7	228.7	<3.40	<3.40	52,500	10,700,000	----	----	----	----
U4-E-01I	4/19/2022	N	BL02	UMCf	74.6 - 89.6	0.0 U	26.5	2.7	----	----	----	4,770,000 J	----	----	----	----
U4-E-01I	4/19/2022	FD	BL02	UMCf	74.6 - 89.6	----	----	----	----	----	----	2,770,000 J	----	----	----	----
U4-E-01I	3/14/2023	N	EM07	UMCf	74.6 - 89.6	0.0 U	23.0	14.8	<4.07	<4.26	<2.91	6,170,000	----	----	----	----

Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	FIELD TESTS	FIELD TESTS	FIELD TESTS	RSK175	RSK175	RSK175	SM2540C	SM2540G	SW6010B	SW6010B	SW6010B
						Sulfide	Temperature	Turbidity	Ethane	Ethene	Methane	Total Dissolved Solids	Solids, Percent	Aluminum	Calcium	Iron
						mg/L	C	NTU	µg/L	µg/L	µg/L	µg/L	Percent	µg/L	µg/L	µg/L
U4-E-01I	4/20/2023	N	EM08	UMCf	74.6 - 89.6	----	23.3	3.9	----	----	----	4,720,000	----	----	----	----
U4-E-01I	5/10/2023	N	EM09	UMCf	74.6 - 89.6	----	30.7	12.3	----	----	----	6,020,000	----	----	----	----
U4-E-01I	6/12/2023	N	EM10	UMCf	74.6 - 89.6	----	28.8	1.8	----	----	----	8,260,000	----	----	----	----
U4-E-01I	7/11/2023	N	EM11	UMCf	74.6 - 89.6	----	29.2	147.7	----	----	----	3,590,000	----	----	----	----
U4-E-01I	8/10/2023	N	EM12	UMCf	74.6 - 89.6	----	34.9	234.5	----	----	----	2,020,000	----	----	----	----
U4-E-01I	9/11/2023	N	EM13	UMCf	74.6 - 89.6	----	29.5	1311.9	----	----	----	7,010,000	----	----	----	----
U4-E-01I	10/16/2023	N	EM14	UMCf	74.6 - 89.6	----	27.9	2139.2	----	----	----	4,630,000 J-	----	----	----	----
U4-E-01I	12/13/2023	N	EM16	UMCf	74.6 - 89.6	0.0 U	23.6	140.9	----	----	----	4,870,000	----	----	----	----
U4-E-01I	1/24/2024	N	EM17	UMCf	74.6 - 89.6	0.0 U	20.2	152.4	----	----	----	6,470,000	----	----	----	----
U4-E-01I	2/14/2024	N	EM18	UMCf	74.6 - 89.6	----	19.3	151.7	----	----	----	2,530,000	----	----	----	----
U4-E-01I	3/12/2024	N	EM19	UMCf	74.6 - 89.6	0.0 U	23.4	162.2	----	----	----	4,870,000	----	----	----	----
U4-E-01I	6/20/2024	N	EM20	UMCf	74.6 - 89.6	0.1	27.9	433.0	<4.07	<4.26	13,100	11,100,000	----	----	----	----
U4-E-01I	9/25/2024	N	EM21	UMCf	74.6 - 89.6	0.0 U	33.1	341.4	<3.40	<3.40	16,100	7,630,000	----	----	----	----
U4-E-02D	4/20/2022	N	BL02	UMCf	94.4 - 109.4	0.0 U	27.0	2.0	----	----	----	10,800,000	----	----	----	----
U4-E-02D	3/14/2023	N	EM07	UMCf	94.4 - 109.4	0.0 U	21.6	14.7	<4.07	<4.26	<2.91	625,000	----	----	----	----
U4-E-02D	6/19/2024	N	EM20	UMCf	94.4 - 109.4	0.0 U	32.3	868.7	<4.07	<4.26	7,930	7,600,000	----	----	----	----
U4-E-02D	9/27/2024	N	EM21	UMCf	94.4 - 109.4	0.0 U	27.8	520.4	<3.40	<3.40	13,600	7,800,000	----	----	----	----
U4-E-02I	4/18/2022	N	BL02	UMCf	74.4 - 89.4	0.0 U	24.6	9.8	----	----	----	4,130,000	----	----	----	----
U4-E-02I	3/14/2023	N	EM07	UMCf	74.4 - 89.4	0.0 U	19.2	7.6	<4.07	<4.26	<2.91	1,340,000	----	----	----	----
U4-E-02I	4/20/2023	N	EM08	UMCf	74.4 - 89.4	----	24.3	56.6	----	----	----	3,830,000	----	----	----	----
U4-E-02I	5/11/2023	N	EM09	UMCf	74.4 - 89.4	----	32.0	28.2	----	----	----	3,440,000	----	----	----	----
U4-E-02I	6/12/2023	N	EM10	UMCf	74.4 - 89.4	----	28.1	3.8	----	----	----	3,940,000	----	----	----	----
U4-E-02I	7/11/2023	N	EM11	UMCf	74.4 - 89.4	----	28.7	12.3	----	----	----	4,560,000	----	----	----	----
U4-E-02I	8/10/2023	N	EM12	UMCf	74.4 - 89.4	----	33.7	204.8	----	----	----	3,810,000	----	----	----	----
U4-E-02I	9/11/2023	N	EM13	UMCf	74.4 - 89.4	----	32.5	175.6	----	----	----	4,850,000	----	----	----	----
U4-E-02I	10/16/2023	N	EM14	UMCf	74.4 - 89.4	----	29.4	54.2	----	----	----	4,660,000 J-	----	----	----	----
U4-E-02I	12/14/2023	N	EM16	UMCf	74.4 - 89.4	0.0 U	23.2	116.6	----	----	----	6,860,000	----	----	----	----
U4-E-02I	1/22/2024	N	EM17	UMCf	74.4 - 89.4	0.1	18.2	54.9	----	----	----	7,290,000	----	----	----	----
U4-E-02I	2/13/2024	N	EM18	UMCf	74.4 - 89.4	----	21.7	82.0	----	----	----	6,120,000	----	----	----	----
U4-E-02I	3/13/2024	N	EM19	UMCf	74.4 - 89.4	0.0 U	24.1	244.0	----	----	----	20,500,000	----	----	----	----
U4-E-02I	6/19/2024	N	EM20	UMCf	74.4 - 89.4	0.0 U	29.6	146.0	<4.07	<4.26	15,800	19,300,000 J-	----	----	----	----
U4-E-02I	9/24/2024	N	EM21	UMCf	74.4 - 89.4	0.0 U	41.2	69.2	<3.40	<3.40	19,100	18,700,000	----	----	----	----
U4-E-03D	4/19/2022	N	BL02	UMCf	95.1 - 110.1	0.0 U	28.6	33.2	----	----	----	34,400,000	----	----	----	----
U4-E-03D	10/13/2022	N	EM02	UMCf	95.1 - 110.1	----	----	----	----	----	----	18,900,000 J-	----	----	----	----
U4-E-03D	11/3/2022	N	EM03	UMCf	95.1 - 110.1	----	17.8	225.3	----	----	----	15,400,000	----	----	----	----
U4-E-03D	12/6/2022	N	EM04	UMCf	95.1 - 110.1	----	22.1	1.8	----	----	----	16,000,000	----	----	----	----
U4-E-03D	1/9/2023	N	EM05	UMCf	95.1 - 110.1	----	21.2	0.0	----	----	----	9,860,000	----	----	----	----
U4-E-03D	2/13/2023	N	EM06	UMCf	95.1 - 110.1	----	22.4	0.1	----	----	----	12,000,000	----	----	----	----
U4-E-03D	3/13/2023	N	EM07	UMCf	95.1 - 110.1	----	----	----	----	----	----	11,700,000	----	----	----	----
U4-E-03D	3/14/2023	N	EM07	UMCf	95.1 - 110.1	0.0 U	23.7	33.0	<4.07	<4.26	683	12,200,000	----	----	----	----
U4-E-03D	4/19/2023	N	EM08	UMCf	95.1 - 110.1	----	21.7	62.2	----	----	----	12,600,000	----	----	----	----
U4-E-03D	5/11/2023	N	EM09	UMCf	95.1 - 110.1	----	30.3	35.2	----	----	----	8,660,000	----	----	----	----
U4-E-03D	6/12/2023	N	EM10	UMCf	95.1 - 110.1	----	28.6	9.5	----	----	----	12,000,000	----	----	----	----
U4-E-03D	7/11/2023	N	EM11	UMCf	95.1 - 110.1	----	30.3	181.7	----	----	----	15,400,000	----	----	----	----
U4-E-03D	8/10/2023	N	EM12	UMCf	95.1 - 110.1	----	34	159.1	----	----	----	15,600,000	----	----	----	----
U4-E-03D	9/11/2023	N	EM13	UMCf	95.1 - 110.1	----	33.9	371.6	----	----	----	15,500,000	----	----	----	----
U4-E-03D	10/16/2023	N	EM14	UMCf	95.1 - 110.1	----	30.4	329.6	----	----	----	17,100,000 J-	----	----	----	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	FIELD TESTS	FIELD TESTS	FIELD TESTS	RSK175	RSK175	RSK175	SM2540C	SM2540G	SW6010B	SW6010B	SW6010B
						Sulfide	Temperature	Turbidity	Ethane	Ethene	Methane	Total Dissolved Solids	Solids, Percent	Aluminum	Calcium	Iron
						mg/L	C	NTU	µg/L	µg/L	µg/L	µg/L	Percent	µg/L	µg/L	µg/L
U4-E-03D	6/10/2024	N	EM20	UMCf	95.1 - 110.1	0.1	32.3	585.1	<4.07	<4.26	5,680	10,900,000	----	----	----	----
U4-E-03D	6/10/2024	FD	EM20	UMCf	95.1 - 110.1	----	----	----	<4.07	<4.26	4,470	11,200,000	----	----	----	----
U4-E-03D	9/27/2024	N	EM21	UMCf	95.1 - 110.1	0.0 U	27.9	501.0	<3.40	<3.40	8,950	7,480,000	----	----	----	----
U4-E-03D	9/27/2024	FD	EM21	UMCf	95.1 - 110.1	----	----	----	<3.40	<3.40	10,700	7,400,000	----	----	----	----
U4-E-04D	4/19/2022	N	BL02	UMCf	95.0 - 110.0	0.0 U	25.5	15.1	----	----	----	24,000,000	----	----	----	----
U4-E-04D	3/14/2023	N	EM07	UMCf	95.0 - 110.0	0.0 U	21.1	13.7	<4.07	<4.26	<2.91	640,000	----	----	----	----
U4-E-04D	6/20/2024	N	EM20	UMCf	95.0 - 110.0	0.0 U	33.0	1108.3	<4.07	<4.26	23,700	16,200,000	----	----	----	----
U4-E-04D	9/26/2024	N	EM21	UMCf	95.0 - 110.0	0.0 U	36.1	519.0	<3.40	<3.40	10,800	6,500,000	----	----	----	----
U4-E-04I	4/18/2022	N	BL02	UMCf	75.0 - 90.0	0.0 U	27.4	28.9	----	----	----	3,430,000	----	----	----	----
U4-E-04I	3/14/2023	N	EM07	UMCf	75.0 - 90.0	0.0 U	22.2	15.0	<4.07	<4.26	32.4	20,900,000	----	----	----	----
U4-E-04I	6/20/2024	N	EM20	UMCf	75.0 - 90.0	0.0 U	31.6	691.2	<4.07	<4.26	19,600	11,700,000 J-	----	----	----	----
U4-E-04I	9/26/2024	N	EM21	UMCf	75.0 - 90.0	0.0 U	31.9	329.6	<3.40	<3.40	17,900	6,500,000	----	----	----	----
U4-E-05D	4/19/2022	N	BL02	UMCf	95.0 - 110.0	0.0 U	28.8	45.2	----	----	----	28,400,000	----	----	----	----
U4-E-05D	3/16/2023	N	EM07	UMCf	95.0 - 110.0	0.0 U	18.5	56.5	<4.07	<4.26	45.8 J+	641,000	----	----	----	----
U4-E-05D	6/10/2024	N	EM20	UMCf	95.0 - 110.0	0.1	29.8	814.5	<4.07	<4.26	20,400	3,630,000	----	----	----	----
U4-E-05D	9/27/2024	N	EM21	UMCf	95.0 - 110.0	0.0 U	29.3	253.3	<3.40	<3.40	19,400	3,750,000	----	----	----	----
U4-E-05I	4/19/2022	N	BL02	UMCf	75.0 - 90.0	0.0 U	28.4	10.5	----	----	----	4,070,000	----	----	----	----
U4-E-05I	3/15/2023	N	EM07	UMCf	75.0 - 90.0	0.0 U	23.0	31.5	<4.07	<4.26	<2.91	2,690,000	----	----	----	----
U4-E-05I	6/19/2024	N	EM20	UMCf	75.0 - 90.0	0.0 U	33.4	423.8	<4.07	<4.26	24,700	8,100,000	----	----	----	----
U4-E-05I	9/27/2024	N	EM21	UMCf	75.0 - 90.0	0.0 U	27.9	279.4	<3.40	<3.40	13,500	6,500,000	----	----	----	----
U4-E-06D	4/11/2022	N	BL02	UMCf	95.1 - 110.1	0.0 U	23.5	37.2	<4.07	<4.26	<2.91	9,590,000	----	----	----	----
U4-E-06D	6/20/2024	N	EM20	UMCf	95.1 - 110.1	0.0 U	51.9	497.4	<4.07	<4.26	48,800	9,470,000	----	----	----	----
U4-E-06D	9/27/2024	N	EM21	UMCf	95.1 - 110.1	0.0 U	36.0	425.5	<3.40	<3.40	16,600	7,400,000	----	----	----	----
U4-E-06I	4/11/2022	N	BL02	UMCf	73.2 - 88.2	0.0 U	25.8	11.6	<4.07	<4.26	<2.91	3,220,000	----	----	----	----
U4-E-06I	4/11/2022	FD	BL02	UMCf	73.2 - 88.2	----	----	----	<4.07	<4.26	<2.91	3,150,000	----	----	----	----
U4-E-06I	10/12/2022	N	EM02	UMCf	73.2 - 88.2	----	----	----	----	----	----	9,760,000 J-	----	----	----	----
U4-E-06I	11/3/2022	N	EM03	UMCf	73.2 - 88.2	----	----	----	----	----	----	5,900,000	----	----	----	----
U4-E-06I	12/6/2022	N	EM04	UMCf	73.2 - 88.2	----	23.2	38.3	----	----	----	6,870,000	----	----	----	----
U4-E-06I	1/9/2023	N	EM05	UMCf	73.2 - 88.2	----	23.0	4.4	----	----	----	7,540,000	----	----	----	----
U4-E-06I	2/13/2023	N	EM06	UMCf	73.2 - 88.2	----	23.0	75.8	----	----	----	7,500,000	----	----	----	----
U4-E-06I	3/13/2023	N	EM07	UMCf	73.2 - 88.2	----	15.5	29.5	----	----	----	4,760,000	----	----	----	----
U4-E-06I	4/17/2023	N	EM08	UMCf	73.2 - 88.2	----	25.4	64.2	----	----	----	4,860,000	----	----	----	----
U4-E-06I	5/15/2023	N	EM09	UMCf	73.2 - 88.2	----	33.7	59.0	----	----	----	18,800,000	----	----	----	----
U4-E-06I	6/12/2023	N	EM10	UMCf	73.2 - 88.2	----	26.4	60.6	----	----	----	11,600,000	----	----	----	----
U4-E-06I	7/11/2023	N	EM11	UMCf	73.2 - 88.2	----	30.3	244.0	----	----	----	13,200,000	----	----	----	----
U4-E-06I	8/11/2023	N	EM12	UMCf	73.2 - 88.2	----	27.5	29.3	----	----	----	11,700,000	----	----	----	----
U4-E-06I	9/11/2023	N	EM13	UMCf	73.2 - 88.2	----	32.3	165	----	----	----	7,360,000	----	----	----	----
U4-E-06I	10/16/2023	N	EM14	UMCf	73.2 - 88.2	----	31.4	534.4	----	----	----	6,000,000 J-	----	----	----	----
U4-E-06I	12/13/2023	N	EM16	UMCf	73.2 - 88.2	0.0 U	22.5	523.4	----	----	----	6,680,000	----	----	----	----
U4-E-06I	1/22/2024	N	EM17	UMCf	73.2 - 88.2	0.0 U	16.3	32.5	----	----	----	5,420,000	----	----	----	----
U4-E-06I	2/13/2024	N	EM18	UMCf	73.2 - 88.2	----	22.1	24.2	----	----	----	6,280,000	----	----	----	----
U4-E-06I	3/11/2024	N	EM19	UMCf	73.2 - 88.2	0.0 U	21.4	160.0	----	----	----	7,040,000	----	----	----	----
U4-E-06I	6/11/2024	N	EM20	UMCf	73.2 - 88.2	0.0 U	26.4	191.2	<4.07	<4.26	6,500	7,680,000	----	----	----	----
U4-E-06I	9/27/2024	N	EM21	UMCf	73.2 - 88.2	0.0 U	27.9	5.5	<3.40	<3.40	8,600	8,060,000	----	----	----	----
U4-E-07D	4/12/2022	N	BL02	UMCf	94.6 - 109.6	0.0 U	18.5	16.0	<4.07	<4.26	<2.91	37,900,000	----	----	----	----
U4-E-07D	6/20/2024	N	EM20	UMCf	94.6 - 109.6	0.0 U	31.4	162.5	<4.07	<4.26	23,800	5,320,000	----	----	----	----
U4-E-07D	9/26/2024	N	EM21	UMCf	94.6 - 109.6	0.0 U	31.7	135.8	<3.40	<3.40	14,600	6,090,000	----	----	----	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	FIELD TESTS	FIELD TESTS	FIELD TESTS	RSK175	RSK175	RSK175	SM2540C	SM2540G	SW6010B	SW6010B	SW6010B
						Sulfide	Temperature	Turbidity	Ethane	Ethene	Methane	Total Dissolved Solids	Solids, Percent	Aluminum	Calcium	Iron
						mg/L	C	NTU	µg/L	µg/L	µg/L	µg/L	Percent	µg/L	µg/L	µg/L
U4-E-07I	4/12/2022	N	BL02	UMCf	74.7 - 89.7	0.0 U	20.2	2.8	<4.07	<4.26	<2.91	6,860,000	----	----	----	----
U4-E-07I	10/11/2022	N	EM02	UMCf	74.7 - 89.7	----	----	----	----	----	----	17,000,000	----	----	----	----
U4-E-07I	11/3/2022	N	EM03	UMCf	74.7 - 89.7	----	22.3	21294.5	----	----	----	12,800,000	----	----	----	----
U4-E-07I	12/6/2022	N	EM04	UMCf	74.7 - 89.7	----	24.0	3.7	----	----	----	15,000,000	----	----	----	----
U4-E-07I	1/9/2023	N	EM05	UMCf	74.7 - 89.7	----	21.9	0.2	----	----	----	11,800,000	----	----	----	----
U4-E-07I	2/13/2023	N	EM06	UMCf	74.7 - 89.7	----	21.8	1.1	----	----	----	13,100,000	----	----	----	----
U4-E-07I	3/13/2023	N	EM07	UMCf	74.7 - 89.7	----	24.2	79.0	----	----	----	12,500,000	----	----	----	----
U4-E-07I	4/19/2023	N	EM08	UMCf	74.7 - 89.7	----	23.9	12.1	----	----	----	12,300,000	----	----	----	----
U4-E-07I	5/15/2023	N	EM09	UMCf	74.7 - 89.7	----	34.0	189.9	----	----	----	12,800,000	----	----	----	----
U4-E-07I	6/12/2023	N	EM10	UMCf	74.7 - 89.7	----	27.4	8.7	----	----	----	9,840,000	----	----	----	----
U4-E-07I	7/11/2023	N	EM11	UMCf	74.7 - 89.7	----	34.4	398.2	----	----	----	11,300,000	----	----	----	----
U4-E-07I	8/11/2023	N	EM12	UMCf	74.7 - 89.7	----	28.5	274.4	----	----	----	12,200,000	----	----	----	----
U4-E-07I	9/11/2023	N	EM13	UMCf	74.7 - 89.7	----	33.3	246.8	----	----	----	15,900,000	----	----	----	----
U4-E-07I	10/16/2023	N	EM14	UMCf	74.7 - 89.7	----	30.4	597.3	----	----	----	15,200,000 J-	----	----	----	----
U4-E-07I	12/13/2023	N	EM16	UMCf	74.7 - 89.7	0.0 U	23.7	67.1	----	----	----	15,400,000	----	----	----	----
U4-E-07I	1/23/2024	N	EM17	UMCf	74.7 - 89.7	0.0 U	18.3	197.5	----	----	----	14,600,000	----	----	----	----
U4-E-07I	2/13/2024	N	EM18	UMCf	74.7 - 89.7	----	24.8	8.8	----	----	----	11,100,000	----	----	----	----
U4-E-07I	3/11/2024	N	EM19	UMCf	74.7 - 89.7	0.0 U	24.4	266.5	----	----	----	15,700,000	----	----	----	----
U4-E-07I	6/11/2024	N	EM20	UMCf	74.7 - 89.7	0.0 U	28.7	82.4	<4.07	<4.26	23,400	13,100,000	----	----	----	----
U4-E-07I	9/26/2024	N	EM21	UMCf	74.7 - 89.7	0.0 U	31.3	16.9	<3.40	<3.40	28,500	12,600,000	----	----	----	----
U4-E-08D	4/12/2022	N	BL02	UMCf	94.6 - 109.6	0.0 U	20.2	3.6	<4.07	<4.26	<2.91	39,500,000	----	----	----	----
U4-E-08D	10/11/2022	N	EM02	UMCf	94.6 - 109.6	----	----	----	----	----	----	24,000,000	----	----	----	----
U4-E-08D	11/3/2022	N	EM03	UMCf	94.6 - 109.6	----	21.8	24.9	----	----	----	22,800,000	----	----	----	----
U4-E-08D	12/6/2022	N	EM04	UMCf	94.6 - 109.6	----	23.8	-0.4	----	----	----	23,600,000	----	----	----	----
U4-E-08D	1/9/2023	N	EM05	UMCf	94.6 - 109.6	----	21.7	0.0	----	----	----	14,100,000	----	----	----	----
U4-E-08D	2/13/2023	N	EM06	UMCf	94.6 - 109.6	----	21.7	11.6	----	----	----	15,800,000	----	----	----	----
U4-E-08D	3/13/2023	N	EM07	UMCf	94.6 - 109.6	----	24.5	72.7	----	----	----	16,100,000	----	----	----	----
U4-E-08D	4/19/2023	N	EM08	UMCf	94.6 - 109.6	----	24.2	2.4	----	----	----	17,200,000	----	----	----	----
U4-E-08D	5/17/2023	N	EM09	UMCf	94.6 - 109.6	----	33.3	149.7	----	----	----	18,900,000	----	----	----	----
U4-E-08D	6/12/2023	N	EM10	UMCf	94.6 - 109.6	----	27.4	10.9	----	----	----	16,600,000	----	----	----	----
U4-E-08D	7/11/2023	N	EM11	UMCf	94.6 - 109.6	----	31.1	3385.4	----	----	----	16,500,000	----	----	----	----
U4-E-09D	4/15/2022	N	BL02	UMCf	94.5 - 109.5	0.0 U	26.7	5.2	<4.07	<4.26	<2.91	7,500,000	----	----	----	----
U4-E-09D	6/10/2024	N	EM20	UMCf	94.5 - 109.5	0.0 U	32.4	581.7	<4.07	<4.26	10,800	8,670,000	----	----	----	----
U4-E-09D	9/27/2024	N	EM21	UMCf	94.5 - 109.5	0.0 U	29.4	91.4	<3.40	<3.40	15,100	8,040,000	----	----	----	----
U4-E-09I	4/14/2022	N	BL02	UMCf	74.9 - 89.9	0.0 U	25.0	53.8	<4.07	<4.26	<2.91	5,550,000	----	----	----	----
U4-E-09I	6/10/2024	N	EM20	UMCf	74.9 - 89.9	0.0 U	34.4	1233.9	<4.07	<4.26	8,700	8,980,000	----	----	----	----
U4-E-09I	6/10/2024	FD	EM20	UMCf	74.9 - 89.9	----	----	----	<4.07	<4.26	7,830	8,920,000	----	----	----	----
U4-E-09I	9/26/2024	N	EM21	UMCf	74.9 - 89.9	0.0 U	28.7	4.1	<3.40	<3.40	84,300 J	----	----	<505 UJ	406,000 J-	1,240 J
U4-E-09I	9/26/2024	FD	EM21	UMCf	74.9 - 89.9	----	----	----	9.08 J	<3.40	117,000 J	----	----	<505 UJ	373,000 J-	250 J
U4-E-10D	4/13/2022	N	BL02	UMCf	94.5 - 109.5	0.0 U	23.0	13.1	<4.07	<4.26	<2.91	3,940,000	----	----	----	----
U4-E-10D	6/19/2024	N	EM20	UMCf	94.5 - 109.5	0.0 U	30.6	652.3	<4.07	<4.26	30,500	9,000,000 J-	----	----	----	----
U4-E-10D	9/25/2024	N	EM21	UMCf	94.5 - 109.5	0.0 U	27.5	360.4	<3.40	<3.40	22,800	7,470,000	----	----	----	----
U4-E-10I	4/13/2022	N	BL02	UMCf	74.2 - 89.2	0.0 U	21.6	17.0	<4.07	<4.26	<2.91	3,690,000	----	----	----	----
U4-E-10I	6/11/2024	N	EM20	UMCf	74.2 - 89.2	0.0 U	30.6	565.3	<4.07	<4.26	2,700	----	2.82	----	----	----
U4-E-10I	9/26/2024	N	EM21	UMCf	74.2 - 89.2	0.0 U	26.5	156.8	10.9 J	<3.40	94,300	13,000,000	----	<505 UJ	861,000 J-	683 J
U4-MW-01D	4/19/2022	N	BL02	UMCf	96.7 - 106.7	0.0 U	30.0	7.9	----	----	----	7,230,000	----	----	----	----
U4-MW-01D	2/16/2023	N	EM06	UMCf	96.7 - 106.7	----	22.9	55.9	----	----	----	----	----	----	----	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	FIELD TESTS	FIELD TESTS	FIELD TESTS	RSK175	RSK175	RSK175	SM2540C	SM2540G	SW6010B	SW6010B	SW6010B
						Sulfide	Temperature	Turbidity	Ethane	Ethene	Methane	Total Dissolved Solids	Solids, Percent	Aluminum	Calcium	Iron
						mg/L	C	NTU	µg/L	µg/L	µg/L	µg/L	Percent	µg/L	µg/L	µg/L
U4-MW-01D	3/20/2023	N	EM07	UMCf	96.7 - 106.7	0.0 U	22.7	543.3	<4.07	<4.26	<2.91	11,300,000	----	----	----	----
U4-MW-01D	6/13/2023	N	EM10	UMCf	96.7 - 106.7	0.0 U	26.1	437.1	<4.07	<4.26	<2.91	7,810,000	----	----	----	----
U4-MW-01D	9/14/2023	N	EM13	UMCf	96.7 - 106.7	0 U	29.3	110.3	<4.07	<4.26	<2.91	3,940,000	----	----	----	----
U4-MW-01D	12/14/2023	N	EM16	UMCf	96.7 - 106.7	0.0 U	25.9	-42779.5	<4.07	<4.26	26,800	6,680,000	----	----	----	----
U4-MW-01D	3/13/2024	N	EM19	UMCf	96.7 - 106.7	0.0 U	23.1	895.7	<4.07	<4.26	19,100	5,850,000	----	----	----	----
U4-MW-01D	6/18/2024	N	EM20	UMCf	96.7 - 106.7	0.0 U	30.1	478.7	<4.07	<4.26	33,100	4,820,000	----	----	----	----
U4-MW-01D	9/19/2024	N	EM21	UMCf	96.7 - 106.7	0.0 U	29.9	104.3	<3.40	<3.40	36,000	6,720,000	----	----	----	----
U4-MW-01DD	4/19/2022	N	BL02	UMCf	119.9 - 129.9	0.0 U	33.3	27.7	----	----	----	1,040,000	----	----	----	----
U4-MW-01DD	4/19/2022	FD	BL02	UMCf	119.9 - 129.9	----	----	----	----	----	----	1,020,000	----	----	----	----
U4-MW-01DD	3/15/2023	N	EM07	UMCf	119.9 - 129.9	0.0 U	24.7	56.4	<4.07	<4.26	<2.91	3,960,000	----	----	----	----
U4-MW-01DD	6/13/2023	N	EM10	UMCf	119.9 - 129.9	0.0 U	31.4	73.2	<4.07	<4.26	<2.91	4,250,000	----	----	----	----
U4-MW-01DD	9/14/2023	N	EM13	UMCf	119.9 - 129.9	0 U	28.6	55.4	<4.07	<4.26	<2.91	3,910,000	----	----	----	----
U4-MW-01DD	12/15/2023	N	EM16	UMCf	119.9 - 129.9	0.0 U	21.0	7.4	<4.07	<4.26	<2.91	2,810,000	----	----	----	----
U4-MW-01DD	3/12/2024	N	EM19	UMCf	119.9 - 129.9	0.0 U	23.5	36.1	<4.07	<4.26	<2.91	3,490,000	----	----	----	----
U4-MW-01DD	6/18/2024	N	EM20	UMCf	119.9 - 129.9	0.0 U	27.8	42.8	<4.07	<4.26	<2.91	1,920,000	----	----	----	----
U4-MW-01DD	9/20/2024	N	EM21	UMCf	119.9 - 129.9	0.0 U	34.0	6.7	<3.40	<3.40	<5.10	1,810,000	----	----	----	----
U4-MW-01I	4/19/2022	N	BL02	UMCf	76.7 - 86.7	0.0 U	27.3	60.1	----	----	----	3,790,000	----	----	----	----
U4-MW-01I	3/20/2023	N	EM07	UMCf	76.7 - 86.7	0.0 U	23.5	2768.5	<4.07	<4.26	11.4	12,700,000	----	----	----	----
U4-MW-01I	6/12/2023	N	EM10	UMCf	76.7 - 86.7	0.0 U	27.3	515.2	<4.07	<4.26	<2.91	7,010,000	----	----	----	----
U4-MW-01I	9/14/2023	N	EM13	UMCf	76.7 - 86.7	0 U	30.9	151	<4.07	<4.26	29.9	5,630,000	----	----	----	----
U4-MW-01I	12/15/2023	N	EM16	UMCf	76.7 - 86.7	----	----	----	<4.07	<4.26	21,400	6,280,000 J-	----	----	----	----
U4-MW-01I	3/13/2024	N	EM19	UMCf	76.7 - 86.7	0.0 U	25.1	517.7	<4.07	<4.26	36,500	6,380,000	----	----	----	----
U4-MW-01I	6/18/2024	N	EM20	UMCf	76.7 - 86.7	0.0 U	30.7	378.5	<4.07	<4.26	19,700	16,800,000	----	----	----	----
U4-MW-01I	9/19/2024	N	EM21	UMCf	76.7 - 86.7	0.0 U	31.9	400.4	<3.40	<3.40	22,500	11,100,000	----	----	----	----
U4-MW-01S	4/18/2022	N	BL02	UMCf	54.7 - 64.7	0.0 U	27.6	1501.7	----	----	----	3,130,000	----	----	----	----
U4-MW-01S	3/15/2023	N	EM07	UMCf	54.7 - 64.7	0.0 U	24.7	147.1	<4.07	<4.26	<2.91	2,670,000	----	----	----	----
U4-MW-01S	6/13/2023	N	EM10	UMCf	54.7 - 64.7	0.0 U	28.4	158.0	<4.07	<4.26	<2.91	2,950,000	----	----	----	----
U4-MW-01S	9/15/2023	N	EM13	UMCf	54.7 - 64.7	0 U	28.8	167.4	<4.07	<4.26	2,150	2,850,000	----	----	----	----
U4-MW-01S	12/13/2023	N	EM16	UMCf	54.7 - 64.7	0.0 U	25.3	26.6	<4.07	<4.26	8,920	2,360,000	----	----	----	----
U4-MW-01S	3/13/2024	N	EM19	UMCf	54.7 - 64.7	0.0 U	25.7	66.5	<4.07	<4.26	18,500	1,660,000	----	----	----	----
U4-MW-01S	6/18/2024	N	EM20	UMCf	54.7 - 64.7	0.0 U	28.0	128.4	<4.07	<4.26	18,900	1,350,000	----	----	----	----
U4-MW-01S	9/20/2024	N	EM21	UMCf	54.7 - 64.7	0.2	29.7	173.3	<3.40	<3.40	18,500	1,700,000	----	----	----	----
U4-MW-02D	4/14/2022	N	BL02	UMCf	95.0 - 110.0	0.0 U	26.4	5.4	----	----	----	63,700,000	----	----	----	----
U4-MW-02D	10/11/2022	N	EM02	UMCf	95.0 - 110.0	----	26.1	2.9	----	----	----	75,100,000 J-	----	----	----	----
U4-MW-02D	11/1/2022	N	EM03	UMCf	95.0 - 110.0	----	27.6	1.4	----	----	----	53,300,000	----	----	----	----
U4-MW-02D	12/7/2022	N	EM04	UMCf	95.0 - 110.0	----	23.6	5.1	----	----	----	29,900,000	----	----	----	----
U4-MW-02D	1/10/2023	N	EM05	UMCf	95.0 - 110.0	----	23.0	3.5	----	----	----	36,600,000	----	----	----	----
U4-MW-02D	2/13/2023	N	EM06	UMCf	95.0 - 110.0	----	23.7	11.6	----	----	----	44,500,000	----	----	----	----
U4-MW-02D	3/17/2023	N	EM07	UMCf	95.0 - 110.0	0.0 U	24.8	8.9	<4.07	<4.26	<2.91	51,200,000	----	----	----	----
U4-MW-02D	4/19/2023	N	EM08	UMCf	95.0 - 110.0	0.0 U	26.0	9.4	----	----	----	41,000,000	----	----	----	----
U4-MW-02D	5/9/2023	N	EM09	UMCf	95.0 - 110.0	0.0 U	25.5	12.2	----	----	----	26,900,000 J	----	----	----	----
U4-MW-02D	6/13/2023	N	EM10	UMCf	95.0 - 110.0	0.0 U	28.1	3.4	<4.07	<4.26	<2.91	42,700,000	----	----	----	----
U4-MW-02D	7/18/2023	N	EM11	UMCf	95.0 - 110.0	0.0 U	27.7	32.3	----	----	----	55,900,000	----	----	----	----
U4-MW-02D	8/14/2023	N	EM12	UMCf	95.0 - 110.0	0 U	29.4	4	----	----	----	41,000,000	----	----	----	----
U4-MW-02D	9/11/2023	N	EM13	UMCf	95.0 - 110.0	0 U	28.9	92.1	<4.07	<4.26	67.6	39,000,000	----	----	----	----
U4-MW-02D	10/19/2023	N	EM14	UMCf	95.0 - 110.0	0 U	26.1	28.9	----	----	----	37,300,000	----	----	----	----
U4-MW-02D	11/15/2023	N	EM15	UMCf	95.0 - 110.0	0 U	24.1	1.5	----	----	----	29,400,000 J-	----	----	----	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	FIELD TESTS	FIELD TESTS	FIELD TESTS	RSK175	RSK175	RSK175	SM2540C	SM2540G	SW6010B	SW6010B	SW6010B
						Sulfide	Temperature	Turbidity	Ethane	Ethene	Methane	Total Dissolved Solids	Solids, Percent	Aluminum	Calcium	Iron
						mg/L	C	NTU	µg/L	µg/L	µg/L	µg/L	Percent	µg/L	µg/L	µg/L
U4-MW-02D	12/14/2023	N	EM16	UMCf	95.0 - 110.0	0.0 U	21.8	14.1	<4.07	<4.26	29,600	38,400,000	----	----	----	----
U4-MW-02D	1/25/2024	N	EM17	UMCf	95.0 - 110.0	0.0 U	24.9	180.8	----	----	----	28,300,000	----	----	----	----
U4-MW-02D	2/12/2024	N	EM18	UMCf	95.0 - 110.0	0.0 U	22.3	8.5	----	----	----	32,700,000	----	----	----	----
U4-MW-02D	3/13/2024	N	EM19	UMCf	95.0 - 110.0	0.0 U	25.5	11.5	<4.07	<4.26	28,300	28,800,000	----	----	----	----
U4-MW-02D	6/17/2024	N	EM20	UMCf	95.0 - 110.0	0.0 U	30.8	39.1	<4.07	<4.26	13,900	26,500,000 J-	----	----	----	----
U4-MW-02D	9/23/2024	N	EM21	UMCf	95.0 - 110.0	0.0 U	29.1	5.2	<3.40	<3.40	15,400	39,600,000	----	----	----	----
U4-MW-02I	4/14/2022	N	BL02	UMCf	75.0 - 90.0	0.0 U	28.4	15.2	----	----	----	6,660,000	----	----	----	----
U4-MW-02I	10/11/2022	N	EM02	UMCf	75.0 - 90.0	----	25.3	56.9	----	----	----	11,000,000	----	----	----	----
U4-MW-02I	11/2/2022	N	EM03	UMCf	75.0 - 90.0	----	25.0	36.2	----	----	----	15,700,000	----	----	----	----
U4-MW-02I	11/2/2022	FD	EM03	UMCf	75.0 - 90.0	----	----	----	----	----	----	20,400,000	----	----	----	----
U4-MW-02I	12/8/2022	N	EM04	UMCf	75.0 - 90.0	----	14.5	5.0	----	----	----	1,860,000 J	----	----	----	----
U4-MW-02I	12/8/2022	FD	EM04	UMCf	75.0 - 90.0	----	----	----	----	----	----	3,300,000 J	----	----	----	----
U4-MW-02I	1/13/2023	N	EM05	UMCf	75.0 - 90.0	----	----	----	----	----	----	8,500,000	----	----	----	----
U4-MW-02I	1/13/2023	FD	EM05	UMCf	75.0 - 90.0	----	----	----	----	----	----	8,640,000	----	----	----	----
U4-MW-02I	2/15/2023	N	EM06	UMCf	75.0 - 90.0	----	23.4	115.7	----	----	----	26,500,000	----	----	----	----
U4-MW-02I	2/15/2023	FD	EM06	UMCf	75.0 - 90.0	----	----	----	----	----	----	24,800,000	----	----	----	----
U4-MW-02I	3/17/2023	N	EM07	UMCf	75.0 - 90.0	0.0 U	25.4	37.4	<4.07	<4.26	3,560	30,400,000	----	----	----	----
U4-MW-02I	3/17/2023	FD	EM07	UMCf	75.0 - 90.0	----	----	----	<4.07	<4.26	3,310	29,100,000	----	----	----	----
U4-MW-02I	4/20/2023	N	EM08	UMCf	75.0 - 90.0	0.0 U	25.3	129.2	----	----	----	2,060,000	----	----	----	----
U4-MW-02I	4/20/2023	FD	EM08	UMCf	75.0 - 90.0	----	----	----	----	----	----	1,990,000	----	----	----	----
U4-MW-02I	5/9/2023	N	EM09	UMCf	75.0 - 90.0	0.0 U	26.8	30.3	----	----	----	2,200,000	----	----	----	----
U4-MW-02I	5/9/2023	FD	EM09	UMCf	75.0 - 90.0	----	----	----	----	----	----	2,770,000	----	----	----	----
U4-MW-02I	6/12/2023	N	EM10	UMCf	75.0 - 90.0	0.0 U	30.7	13.7	<4.07	<4.26	6,720	2,860,000	----	----	----	----
U4-MW-02I	6/12/2023	FD	EM10	UMCf	75.0 - 90.0	----	----	----	<4.07	<4.26	6,540	2,990,000	----	----	----	----
U4-MW-02I	7/18/2023	N	EM11	UMCf	75.0 - 90.0	2.0	27.0	79.4	----	----	----	2,810,000	----	----	----	----
U4-MW-02I	7/18/2023	FD	EM11	UMCf	75.0 - 90.0	----	----	----	----	----	----	2,690,000 J-	----	----	----	----
U4-MW-02I	8/11/2023	N	EM12	UMCf	75.0 - 90.0	0 U	32.7	20.9	----	----	----	8,140,000	----	----	----	----
U4-MW-02I	8/11/2023	FD	EM12	UMCf	75.0 - 90.0	----	----	----	----	----	----	9,020,000	----	----	----	----
U4-MW-02I	9/11/2023	N	EM13	UMCf	75.0 - 90.0	0 U	28	102	<4.07	<4.26	9,930	7,750,000	----	----	----	----
U4-MW-02I	9/11/2023	FD	EM13	UMCf	75.0 - 90.0	----	----	----	<4.07	<4.26	10,300	6,530,000	----	----	----	----
U4-MW-02I	10/19/2023	N	EM14	UMCf	75.0 - 90.0	0 U	26.9	43.3	----	----	----	9,840,000 J	----	----	----	----
U4-MW-02I	10/19/2023	FD	EM14	UMCf	75.0 - 90.0	----	----	----	----	----	----	14,000,000 J	----	----	----	----
U4-MW-02I	11/15/2023	N	EM15	UMCf	75.0 - 90.0	0 U	25.7	7.5	----	----	----	10,700,000	----	----	----	----
U4-MW-02I	11/15/2023	FD	EM15	UMCf	75.0 - 90.0	----	----	----	----	----	----	11,500,000	----	----	----	----
U4-MW-02I	12/14/2023	N	EM16	UMCf	75.0 - 90.0	0.0 U	24.2	15.0	<4.07	<4.26	7,170	8,420,000	----	----	----	----
U4-MW-02I	12/14/2023	FD	EM16	UMCf	75.0 - 90.0	----	----	----	<4.07	<4.26	7,010	7,660,000	----	----	----	----
U4-MW-02I	1/25/2024	N	EM17	UMCf	75.0 - 90.0	0.0 U	24.0	157.0	----	----	----	15,900,000	----	----	----	----
U4-MW-02I	1/25/2024	FD	EM17	UMCf	75.0 - 90.0	----	----	----	----	----	----	17,300,000	----	----	----	----
U4-MW-02I	2/12/2024	N	EM18	UMCf	75.0 - 90.0	0.0 U	23.2	6.0	----	----	----	14,900,000	----	----	----	----
U4-MW-02I	2/12/2024	FD	EM18	UMCf	75.0 - 90.0	----	----	----	----	----	----	17,700,000	----	----	----	----
U4-MW-02I	3/13/2024	N	EM19	UMCf	75.0 - 90.0	0.0 U	24.2	15.3	<4.07	<4.26	7,880	14,900,000	----	----	----	----
U4-MW-02I	3/13/2024	FD	EM19	UMCf	75.0 - 90.0	----	----	----	<4.07	<4.26	9,200	15,000,000	----	----	----	----
U4-MW-02I	6/17/2024	N	EM20	UMCf	75.0 - 90.0	0.0 U	31.2	9.9	<4.07	<4.26	8,530	8,740,000	----	----	----	----
U4-MW-02I	6/17/2024	FD	EM20	UMCf	75.0 - 90.0	----	----	----	<4.07	<4.26	9,290	9,020,000	----	----	----	----
U4-MW-02I	9/23/2024	N	EM21	UMCf	75.0 - 90.0	0.0 U	30.7	5.3	<3.40	<3.40	8,450	12,500,000	----	----	----	----
U4-MW-02I	9/23/2024	FD	EM21	UMCf	75.0 - 90.0	----	----	----	<3.40	<3.40	8,400	11,500,000	----	----	----	----
U4-MW-03D	4/20/2022	N	BL02	UMCf	96.6 - 106.6	0.0 U	26.7	31.0	----	----	----	23,000,000	----	----	----	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	FIELD TESTS	FIELD TESTS	FIELD TESTS	RSK175	RSK175	RSK175	SM2540C	SM2540G	SW6010B	SW6010B	SW6010B
						Sulfide	Temperature	Turbidity	Ethane	Ethene	Methane	Total Dissolved Solids	Solids, Percent	Aluminum	Calcium	Iron
						mg/L	C	NTU	µg/L	µg/L	µg/L	µg/L	Percent	µg/L	µg/L	µg/L
U4-MW-03D	2/16/2023	N	EM06	UMCf	96.6 - 106.6	----	22.6	35.4	----	----	----	----	----	----	----	----
U4-MW-03D	3/16/2023	N	EM07	UMCf	96.6 - 106.6	0.0 U	23.8	35.8	<4.07	<4.26	59.1 J	14,400,000	----	----	----	----
U4-MW-03D	3/16/2023	FD	EM07	UMCf	96.6 - 106.6	----	----	----	<4.07	<4.26	<2.91 UJ	13,400,000	----	----	----	----
U4-MW-03D	6/15/2023	N	EM10	UMCf	96.6 - 106.6	0.0 U	26.5	236.1	<4.07	<4.26	<2.91	10,000,000	----	----	----	----
U4-MW-03D	9/14/2023	N	EM13	UMCf	96.6 - 106.6	0 U	27.1	385	<4.07	<4.26	920	14,700,000	----	----	----	----
U4-MW-03D	12/13/2023	N	EM16	UMCf	96.6 - 106.6	0.0 U	26.2	226.1	<4.07	<4.26	4,850	14,100,000	----	----	----	----
U4-MW-03D	3/15/2024	N	EM19	UMCf	96.6 - 106.6	0.0 U	19.3	145.4	<4.07	<4.26	23,000	6,520,000	----	----	----	----
U4-MW-03D	6/17/2024	N	EM20	UMCf	96.6 - 106.6	0.0 U	33.8	14.3	<4.07	<4.26	11,700	12,500,000	----	----	----	----
U4-MW-03D	9/18/2024	N	EM21	UMCf	96.6 - 106.6	0.0 U	30.0	29.0	6.21 J	<3.40	31,000	12,800,000	----	----	----	----
U4-MW-03DD	4/20/2022	N	BL02	UMCf	119.7 - 129.7	0.0 U	26.3	24.2	----	----	----	2,070,000	----	----	----	----
U4-MW-03DD	3/15/2023	N	EM07	UMCf	119.7 - 129.7	0.0 U	22.1	-57.2	<4.07	<4.26	<2.91	567,000	----	----	----	----
U4-MW-03DD	6/15/2023	N	EM10	UMCf	119.7 - 129.7	0.0 U	28.0	20.2	<4.07	<4.26	<2.91	556,000	----	----	----	----
U4-MW-03DD	9/14/2023	N	EM13	UMCf	119.7 - 129.7	0 U	30.1	28.4	<4.07	<4.26	<2.91	560,000	----	----	----	----
U4-MW-03DD	12/14/2023	N	EM16	UMCf	119.7 - 129.7	0.0 U	22.8	29.4	<4.07	<4.26	<2.91	576,000	----	----	----	----
U4-MW-03DD	3/14/2024	N	EM19	UMCf	119.7 - 129.7	0.0 U	22.4	29.5	<4.07	<4.26	<2.91	589,000	----	----	----	----
U4-MW-03DD	6/17/2024	N	EM20	UMCf	119.7 - 129.7	0.0 U	36.4	34.0	<4.07	<4.26	<2.91	596,000	----	----	----	----
U4-MW-03DD	9/18/2024	N	EM21	UMCf	119.7 - 129.7	0.0 U	29.7	34.9	<3.40	<3.40	<5.10	568,000	----	----	----	----
U4-MW-03I	4/19/2022	N	BL02	UMCf	76.6 - 86.6	0.0 U	30.2	8489.8	----	----	----	2,350,000	----	----	----	----
U4-MW-03I	3/15/2023	N	EM07	UMCf	76.6 - 86.6	0.0 U	25.2	159.7	<4.07	<4.26	<2.91	12,000,000	----	----	----	----
U4-MW-03I	6/14/2023	N	EM10	UMCf	76.6 - 86.6	0.0 U	29.9	181.6	<4.07	<4.26	35.1	12,300,000	----	----	----	----
U4-MW-03I	6/14/2023	FD	EM10	UMCf	76.6 - 86.6	----	----	----	<4.07	<4.26	33.9	12,100,000	----	----	----	----
U4-MW-03I	9/11/2023	N	EM13	UMCf	76.6 - 86.6	0 U	36.1	76.7	<4.07	<4.26	316 J	14,900,000	----	----	----	----
U4-MW-03I	9/11/2023	FD	EM13	UMCf	76.6 - 86.6	----	----	----	<4.07	<4.26	149 J	13,700,000	----	----	----	----
U4-MW-03I	12/13/2023	N	EM16	UMCf	76.6 - 86.6	0.0 U	25.5	676.1	<4.07	<4.26	11,500	13,300,000	----	----	----	----
U4-MW-03I	12/13/2023	FD	EM16	UMCf	76.6 - 86.6	----	----	----	<4.07	<4.26	9,730	13,100,000	----	----	----	----
U4-MW-03I	3/14/2024	N	EM19	UMCf	76.6 - 86.6	0.0 U	21.4	618.5	<4.07	<4.26	15,000	8,660,000	----	----	----	----
U4-MW-03I	3/14/2024	FD	EM19	UMCf	76.6 - 86.6	----	----	----	<4.07	<4.26	16,100	7,240,000	----	----	----	----
U4-MW-03I	6/19/2024	N	EM20	UMCf	76.6 - 86.6	0.0 U	27.2	200.1	<4.07	<4.26	5,150	8,380,000 J-	----	----	----	----
U4-MW-03I	6/19/2024	FD	EM20	UMCf	76.6 - 86.6	----	----	----	<4.07	<4.26	6,440	8,320,000 J-	----	----	----	----
U4-MW-03I	9/20/2024	N	EM21	UMCf	76.6 - 86.6	0.0 U	28.0	30.7	<3.40	<3.40	16,300	4,860,000	----	----	----	----
U4-MW-03I	9/20/2024	FD	EM21	UMCf	76.6 - 86.6	----	----	----	<3.40	<3.40	14,300	1,690,000	----	----	----	----
U4-MW-03S	4/18/2022	N	BL02	UMCf	54.5 - 64.5	0.0 U	27.3	38.0	----	----	----	2,890,000	----	----	----	----
U4-MW-03S	4/18/2022	FD	BL02	UMCf	54.5 - 64.5	----	----	----	----	----	----	2,190,000 J-	----	----	----	----
U4-MW-03S	3/15/2023	N	EM07	UMCf	54.5 - 64.5	0.0 U	22.1	-21.0	<4.07	<4.26	<2.91	2,440,000 J	----	----	----	----
U4-MW-03S	6/15/2023	N	EM10	UMCf	54.5 - 64.5	0.0 U	27.3	21.3	<4.07	<4.26	799	2,880,000	----	----	----	----
U4-MW-03S	9/14/2023	N	EM13	UMCf	54.5 - 64.5	0 U	27.3	7.7	<4.07	<4.26	3,620	2,470,000	----	----	----	----
U4-MW-03S	12/13/2023	N	EM16	UMCf	54.5 - 64.5	0.0 U	25.8	41.8	<4.07	<4.26	6,400	2,680,000	----	----	----	----
U4-MW-03S	3/14/2024	N	EM19	UMCf	54.5 - 64.5	0.0 U	24.3	37.2	<4.07	<4.26	8,130	2,500,000	----	----	----	----
U4-MW-03S	6/14/2024	N	EM20	UMCf	54.5 - 64.5	0.0 U	29.2	23.9	<4.07	<4.26	12,600	2,410,000	----	----	----	----
U4-MW-03S	9/18/2024	N	EM21	UMCf	54.5 - 64.5	0.0 U	31.8	40.2	<3.40	<3.40	9,690	2,340,000	----	----	----	----
U4-MW-04D	4/19/2022	N	BL02	UMCf	97.0 - 107.0	0.0 U	30.1	18.0	----	----	----	56,100,000	----	----	----	----
U4-MW-04D	2/16/2023	N	EM06	UMCf	97.0 - 107.0	----	21.5	38.7	----	----	----	----	----	----	----	----
U4-MW-04D	3/21/2023	N	EM07	UMCf	97.0 - 107.0	0.0 U	20.3	420.1	<4.07	<4.26	<2.91	5,570,000 J	----	----	----	----
U4-MW-04D	6/14/2023	N	EM10	UMCf	97.0 - 107.0	0.0 U	37.5	7.3	<4.07	<4.26	1,030	5,170,000	----	----	----	----
U4-MW-04D	9/15/2023	N	EM13	UMCf	97.0 - 107.0	0 U	28.7	14.3	<4.07	<4.26	15,100	9,070,000	----	----	----	----
U4-MW-04D	12/12/2023	N	EM16	UMCf	97.0 - 107.0	0.0 U	23.9	231.9	<4.07	<4.26	27,900	6,330,000	----	----	----	----
U4-MW-04D	3/12/2024	N	EM19	UMCf	97.0 - 107.0	0.0 U	22.3	30.8	<4.07	<4.26	23,000	8,550,000	----	----	----	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	FIELD TESTS	FIELD TESTS	FIELD TESTS	RSK175	RSK175	RSK175	SM2540C	SM2540G	SW6010B	SW6010B	SW6010B
						Sulfide	Temperature	Turbidity	Ethane	Ethene	Methane	Total Dissolved Solids	Solids, Percent	Aluminum	Calcium	Iron
						mg/L	C	NTU	µg/L	µg/L	µg/L	µg/L	Percent	µg/L	µg/L	µg/L
U4-MW-04D	6/19/2024	N	EM20	UMCf	97.0 - 107.0	0.0 U	27.6	41.9	<4.07	<4.26	18,100	7,080,000	----	----	----	----
U4-MW-04D	9/24/2024	N	EM21	UMCf	97.0 - 107.0	0.0 U	29.8	7.6	<3.40	<3.40	24,400	14,700,000	----	----	----	----
U4-MW-04I	4/19/2022	N	BL02	UMCf	76.8 - 86.8	0.0 U	27.6	78.2	----	----	----	22,500,000	----	----	----	----
U4-MW-04I	3/20/2023	N	EM07	UMCf	76.8 - 86.8	0.0 U	23.3	482.0	<4.07	<4.26	<2.91	19,200,000	----	----	----	----
U4-MW-04I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	0.0 U	32.3	185.0	<4.07	<4.26	148	13,200,000	----	----	----	----
U4-MW-04I	9/14/2023	N	EM13	UMCf	76.8 - 86.8	0 U	28.4	403.3	<4.07	<4.26	3,910	30,700,000	----	----	----	----
U4-MW-04I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	0.0 U	23.2	169.0	<4.07	<4.26	24,000	24,400,000	----	----	----	----
U4-MW-04I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	0.0 U	19.8	135.5	<4.07	<4.26	19,900	31,100,000	----	----	----	----
U4-MW-04I	6/18/2024	N	EM20	UMCf	76.8 - 86.8	0.0 U	34.8	406.3	<4.07	<4.26	22,400	28,300,000	----	----	----	----
U4-MW-04I	9/24/2024	N	EM21	UMCf	76.8 - 86.8	0.0 U	32.9	31.5	<3.40	<3.40	24,500	28,400,000	----	----	----	----
U4-MW-05D	4/15/2022	N	BL02	UMCf	98.2 - 108.2	0.0 U	28.3	39.5	----	----	----	27,800,000	----	----	----	----
U4-MW-05D	10/13/2022	N	EM02	UMCf	98.2 - 108.2	----	28.3	235.7	----	----	----	30,400,000 J-	----	----	----	----
U4-MW-05D	11/3/2022	N	EM03	UMCf	98.2 - 108.2	----	23.6	92823.7	----	----	----	15,100,000	----	----	----	----
U4-MW-05D	12/7/2022	N	EM04	UMCf	98.2 - 108.2	----	23.1	106.9	----	----	----	15,100,000	----	----	----	----
U4-MW-05D	1/11/2023	N	EM05	UMCf	98.2 - 108.2	----	22.5	138.6	----	----	----	10,200,000	----	----	----	----
U4-MW-05D	2/14/2023	N	EM06	UMCf	98.2 - 108.2	----	15.4	268.7	----	----	----	9,200,000	----	----	----	----
U4-MW-05D	3/16/2023	N	EM07	UMCf	98.2 - 108.2	0.0 U	24.8	331.6	<4.07	<4.26	55.6 J+	11,400,000	----	----	----	----
U4-MW-05D	4/20/2023	N	EM08	UMCf	98.2 - 108.2	0.0 U	27.4	130.7	----	----	----	6,160,000	----	----	----	----
U4-MW-05D	5/10/2023	N	EM09	UMCf	98.2 - 108.2	0.0 U	28.4	22.4	----	----	----	3,790,000	----	----	----	----
U4-MW-05D	6/15/2023	N	EM10	UMCf	98.2 - 108.2	0.0 U	34.4	127.1	<4.07	<4.26	1,860	6,880,000	----	----	----	----
U4-MW-05D	7/18/2023	N	EM11	UMCf	98.2 - 108.2	0.0 U	31.1	127.0	----	----	----	8,820,000	----	----	----	----
U4-MW-05D	8/14/2023	N	EM12	UMCf	98.2 - 108.2	0 U	36.5	54.6	----	----	----	9,980,000	----	----	----	----
U4-MW-05D	9/12/2023	N	EM13	UMCf	98.2 - 108.2	0 U	29.4	28.3	<4.07	<4.26	23,000	4,150,000	----	----	----	----
U4-MW-05D	10/18/2023	N	EM14	UMCf	98.2 - 108.2	0 U	31.1	76.6	----	----	----	9,400,000	----	----	----	----
U4-MW-05D	11/16/2023	N	EM15	UMCf	98.2 - 108.2	0 U	23.7	24.7	----	----	----	8,100,000	----	----	----	----
U4-MW-05D	12/14/2023	N	EM16	UMCf	98.2 - 108.2	0.0 U	23.5	105.3	<4.07	<4.26	4,060	11,600,000	----	----	----	----
U4-MW-05D	1/26/2024	N	EM17	UMCf	98.2 - 108.2	0.0 U	20.9	56.5	----	----	----	10,100,000	----	----	----	----
U4-MW-05D	2/14/2024	N	EM18	UMCf	98.2 - 108.2	0.0 U	19.1	25.1	----	----	----	9,640,000	----	----	----	----
U4-MW-05D	3/12/2024	N	EM19	UMCf	98.2 - 108.2	0.0 U	19.3	15.4	<4.07	<4.26	10,200	15,800,000	----	----	----	----
U4-MW-05D	6/18/2024	N	EM20	UMCf	98.2 - 108.2	0.0 U	29.5	19.5	<4.07	<4.26	891	15,400,000	----	----	----	----
U4-MW-05D	9/25/2024	N	EM21	UMCf	98.2 - 108.2	0.0 U	28.9	1.9	<3.40	<3.40	2,510	20,200,000	----	----	----	----
U4-MW-05I	4/15/2022	N	BL02	UMCf	76.6 - 86.6	0.0 U	23.2	2057.3	----	----	----	12,900,000	----	----	----	----
U4-MW-05I	10/13/2022	N	EM02	UMCf	76.6 - 86.6	----	25.6	1860.6	----	----	----	29,100,000	----	----	----	----
U4-MW-05I	11/3/2022	N	EM03	UMCf	76.6 - 86.6	----	24.1	90637.6	----	----	----	22,800,000	----	----	----	----
U4-MW-05I	12/8/2022	N	EM04	UMCf	76.6 - 86.6	----	23.3	1119.7	----	----	----	19,400,000 J	----	----	----	----
U4-MW-05I	1/11/2023	N	EM05	UMCf	76.6 - 86.6	----	23.1	7501.5	----	----	----	10,300,000	----	----	----	----
U4-MW-05I	2/14/2023	N	EM06	UMCf	76.6 - 86.6	----	22.3	1495.6	----	----	----	9,860,000	----	----	----	----
U4-MW-05I	3/14/2023	N	EM07	UMCf	76.6 - 86.6	0.0 U	24.0	6501.9	<4.07	<4.26	<2.91	9,700,000	----	----	----	----
U4-MW-05I	4/21/2023	N	EM08	UMCf	76.6 - 86.6	0.0 U	26.2	62.0	----	----	----	3,810,000	----	----	----	----
U4-MW-05I	5/10/2023	N	EM09	UMCf	76.6 - 86.6	0.0 U	26.6	61.6	----	----	----	4,590,000	----	----	----	----
U4-MW-05I	6/15/2023	N	EM10	UMCf	76.6 - 86.6	0.2	34.2	28.6	<4.07	<4.26	1,350	3,650,000	----	----	----	----
U4-MW-05I	7/17/2023	N	EM11	UMCf	76.6 - 86.6	0.0 U	29.0	5574.9	----	----	----	8,240,000	----	----	----	----
U4-MW-05I	8/14/2023	N	EM12	UMCf	76.6 - 86.6	0 U	36.7	168	----	----	----	7,900,000	----	----	----	----
U4-MW-05I	9/13/2023	N	EM13	UMCf	76.6 - 86.6	0 U	28.2	5801.7	<4.07	<4.26	21,300	4,520,000	----	----	----	----
U4-MW-05I	10/18/2023	N	EM14	UMCf	76.6 - 86.6	0 U	28.2	1318.1	----	----	----	7,100,000	----	----	----	----
U4-MW-05I	11/15/2023	N	EM15	UMCf	76.6 - 86.6	0 U	25.9	173.7	----	----	----	7,920,000	----	----	----	----
U4-MW-05I	12/12/2023	N	EM16	UMCf	76.6 - 86.6	0.0 U	24.4	169.3	<4.07	<4.26	11,200	8,280,000	----	----	----	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	FIELD TESTS	FIELD TESTS	FIELD TESTS	RSK175	RSK175	RSK175	SM2540C	SM2540G	SW6010B	SW6010B	SW6010B
						Sulfide	Temperature	Turbidity	Ethane	Ethene	Methane	Total Dissolved Solids	Solids, Percent	Aluminum	Calcium	Iron
						mg/L	C	NTU	µg/L	µg/L	µg/L	µg/L	Percent	µg/L	µg/L	µg/L
U4-MW-05I	1/26/2024	N	EM17	UMCf	76.6 - 86.6	0.0 U	23.5	174.6	----	----	----	12,800,000	----	----	----	----
U4-MW-05I	2/14/2024	N	EM18	UMCf	76.6 - 86.6	0.0 U	19.8	139.8	----	----	----	10,200,000	----	----	----	----
U4-MW-05I	3/11/2024	N	EM19	UMCf	76.6 - 86.6	0.0 U	24.8	118.8	<4.07	<4.26	6,660	14,900,000	----	----	----	----
U4-MW-05I	6/18/2024	N	EM20	UMCf	76.6 - 86.6	0.0 U	31.3	134.8	<4.07	<4.26	9,080	15,000,000	----	----	----	----
U4-MW-05I	9/25/2024	N	EM21	UMCf	76.6 - 86.6	0.0 U	33.5	35.4	<3.40	<3.40	11,600	17,800,000	----	----	----	----
U4-MW-06D	4/19/2022	N	BL02	UMCf	97.1 - 107.1	0.0 U	----	----	----	----	----	43,400,000	----	----	----	----
U4-MW-06D	2/15/2023	N	EM06	UMCf	97.1 - 107.1	----	21.3	76.0	----	----	----	----	----	----	----	----
U4-MW-06D	3/21/2023	N	EM07	UMCf	97.1 - 107.1	0.0 U	21.2	55.0	<4.07	<4.26	<2.91	16,000,000	----	----	----	----
U4-MW-06D	6/16/2023	N	EM10	UMCf	97.1 - 107.1	0.0 U	20.3	-2.7	<4.07	<4.26	<2.91	12,500,000	----	----	----	----
U4-MW-06D	9/13/2023	N	EM13	UMCf	97.1 - 107.1	0 U	34.2	52.2	<4.07	<4.26	14,500	11,800,000	----	----	----	----
U4-MW-06D	12/13/2023	N	EM16	UMCf	97.1 - 107.1	0.0 U	14.9	222.9	<4.07	<4.26	16,300	22,800,000	----	----	----	----
U4-MW-06D	3/14/2024	N	EM19	UMCf	97.1 - 107.1	0.0 U	18.0	55.7	<4.07	<4.26	2,790	20,900,000	----	----	----	----
U4-MW-06D	6/12/2024	N	EM20	UMCf	97.1 - 107.1	0.0 U	33.3	390.3	<4.07	<4.26	2,360	27,100,000	----	----	----	----
U4-MW-06D	9/20/2024	N	EM21	UMCf	97.1 - 107.1	0.0 U	30.0	32.7	3.64 J	5.95 J	10,000	23,400,000	----	----	----	----
U4-MW-06I	4/19/2022	N	BL02	UMCf	76.5 - 86.5	0.0 U	27.5	171.5	----	----	----	3,420,000	----	----	----	----
U4-MW-06I	3/14/2023	N	EM07	UMCf	76.5 - 86.5	0.0 U	18.2	204.9	<4.07	<4.26	<2.91	17,100,000	----	----	----	----
U4-MW-06I	6/16/2023	N	EM10	UMCf	76.5 - 86.5	0.0 U	22.3	-4.5	<4.07	<4.26	110	12,600,000	----	----	----	----
U4-MW-06I	9/12/2023	N	EM13	UMCf	76.5 - 86.5	0 U	36.9	23.1	<4.07	<4.26	12,100	16,800,000	----	----	----	----
U4-MW-06I	12/12/2023	N	EM16	UMCf	76.5 - 86.5	0.0 U	24.5	130.8	<4.07	<4.26	16,300	24,300,000	----	----	----	----
U4-MW-06I	3/14/2024	N	EM19	UMCf	76.5 - 86.5	0.0 U	20.1	45.6	<4.07	<4.26	10,700	20,900,000	----	----	----	----
U4-MW-06I	6/11/2024	N	EM20	UMCf	76.5 - 86.5	0.0 U	32.0	144.7	<4.07	<4.26	16,000	20,600,000	----	----	----	----
U4-MW-06I	9/20/2024	N	EM21	UMCf	76.5 - 86.5	0.0 U	27.5	9.6	<3.40	<3.40	20,000	18,100,000	----	----	----	----
U4-MW-07D	4/15/2022	N	BL02	UMCf	96.8 - 106.5	0.0 U	26.7	52.5	----	----	----	5,820,000	----	----	----	----
U4-MW-07D	10/12/2022	N	EM02	UMCf	96.8 - 106.5	----	28.7	9.7	----	----	----	1,310,000 J-	----	----	----	----
U4-MW-07D	10/12/2022	FD	EM02	UMCf	96.8 - 106.5	----	----	----	----	----	----	1,330,000	----	----	----	----
U4-MW-07D	11/3/2022	N	EM03	UMCf	96.8 - 106.5	----	23.9	97.4	----	----	----	1,220,000 J+	----	----	----	----
U4-MW-07D	12/7/2022	N	EM04	UMCf	96.8 - 106.5	----	23.8	14.1	----	----	----	1,050,000	----	----	----	----
U4-MW-07D	1/11/2023	N	EM05	UMCf	96.8 - 106.5	----	24.3	22.8	----	----	----	1,260,000	----	----	----	----
U4-MW-07D	2/14/2023	N	EM06	UMCf	96.8 - 106.5	----	22.3	73.4	----	----	----	1,070,000	----	----	----	----
U4-MW-07D	3/16/2023	N	EM07	UMCf	96.8 - 106.5	0.0 U	28.6	39.6	<4.07	<4.26	53.0 J+	1,070,000	----	----	----	----
U4-MW-07D	4/21/2023	N	EM08	UMCf	96.8 - 106.5	0.0 U	26.2	106.9	----	----	----	3,630,000	----	----	----	----
U4-MW-07D	5/11/2023	N	EM09	UMCf	96.8 - 106.5	0.0 U	27.5	34.4	----	----	----	3,170,000	----	----	----	----
U4-MW-07D	6/13/2023	N	EM10	UMCf	96.8 - 106.5	0.0 U	32.9	8.8	<4.07	<4.26	18,000	3,280,000	----	----	----	----
U4-MW-07D	7/17/2023	N	EM11	UMCf	96.8 - 106.5	0.0 U	30.8	156.5	----	----	----	13,200,000	----	----	----	----
U4-MW-07D	8/11/2023	N	EM12	UMCf	96.8 - 106.5	0 U	28.9	214.8	----	----	----	11,800,000	----	----	----	----
U4-MW-07D	9/13/2023	N	EM13	UMCf	96.8 - 106.5	0 U	29.2	41.7	<4.07	<4.26	17,700	7,100,000	----	----	----	----
U4-MW-07D	10/18/2023	N	EM14	UMCf	96.8 - 106.5	0 U	26.8	25.5	----	----	----	11,800,000	----	----	----	----
U4-MW-07D	11/16/2023	N	EM15	UMCf	96.8 - 106.5	0 U	24.3	31.9	----	----	----	12,500,000	----	----	----	----
U4-MW-07D	12/12/2023	N	EM16	UMCf	96.8 - 106.5	0.0 U	20.0	113.4	<4.07	<4.26	7,250	7,320,000	----	----	----	----
U4-MW-07D	1/26/2024	N	EM17	UMCf	96.8 - 106.5	0.0 U	23.7	70.5	----	----	----	11,600,000	----	----	----	----
U4-MW-07D	2/13/2024	N	EM18	UMCf	96.8 - 106.5	0.0 U	22.1	75.0	----	----	----	8,400,000	----	----	----	----
U4-MW-07D	3/11/2024	N	EM19	UMCf	96.8 - 106.5	0.0 U	23.7	16.7	<4.07	<4.26	622	16,200,000	----	----	----	----
U4-MW-07D	6/12/2024	N	EM20	UMCf	96.8 - 106.5	0.0 U	33.0	80.1	<4.07	<4.26	1,240	12,000,000	----	----	----	----
U4-MW-07D	9/18/2024	N	EM21	UMCf	96.8 - 106.5	0.0 U	30.7	19.2	<3.40	<3.40	3,580	17,700,000	----	----	----	----
U4-MW-07I	4/15/2022	N	BL02	UMCf	76.8 - 86.8	0.0 U	25.6	10.7	----	----	----	1,670,000	----	----	----	----
U4-MW-07I	10/12/2022	N	EM02	UMCf	76.8 - 86.8	----	26.9	119.0	----	----	----	1,350,000 J	----	----	----	----
U4-MW-07I	11/3/2022	N	EM03	UMCf	76.8 - 86.8	----	23.9	1667.5	----	----	----	1,340,000	----	----	----	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	FIELD TESTS	FIELD TESTS	FIELD TESTS	RSK175	RSK175	RSK175	SM2540C	SM2540G	SW6010B	SW6010B	SW6010B
						Sulfide	Temperature	Turbidity	Ethane	Ethene	Methane	Total Dissolved Solids	Solids, Percent	Aluminum	Calcium	Iron
						mg/L	C	NTU	µg/L	µg/L	µg/L	µg/L	Percent	µg/L	µg/L	µg/L
U4-MW-07I	12/7/2022	N	EM04	UMCf	76.8 - 86.8	----	24.0	210.3	----	----	----	1,220,000	----	----	----	----
U4-MW-07I	1/11/2023	N	EM05	UMCf	76.8 - 86.8	----	24.3	73.4	----	----	----	1,440,000	----	----	----	----
U4-MW-07I	2/15/2023	N	EM06	UMCf	76.8 - 86.8	----	22.3	134.0	----	----	----	1,520,000	----	----	----	----
U4-MW-07I	3/16/2023	N	EM07	UMCf	76.8 - 86.8	0.2	24.3	259.7	<4.07	<4.26	54.8 J+	1,630,000 J	----	----	----	----
U4-MW-07I	4/21/2023	N	EM08	UMCf	76.8 - 86.8	0.0 U	26.1	277.9	----	----	----	2,670,000	----	----	----	----
U4-MW-07I	5/11/2023	N	EM09	UMCf	76.8 - 86.8	0.0 U	26.1	156.9	----	----	----	2,820,000	----	----	----	----
U4-MW-07I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	0.4	29.9	105.6	<4.07	<4.26	376	3,030,000	----	----	----	----
U4-MW-07I	7/17/2023	N	EM11	UMCf	76.8 - 86.8	0.0 U	27.5	504.0	----	----	----	7,260,000	----	----	----	----
U4-MW-07I	8/11/2023	N	EM12	UMCf	76.8 - 86.8	0 U	30	218.7	----	----	----	7,180,000	----	----	----	----
U4-MW-07I	9/13/2023	N	EM13	UMCf	76.8 - 86.8	0 U	29	97.1	<4.07	<4.26	14,700	5,300,000	----	----	----	----
U4-MW-07I	10/18/2023	N	EM14	UMCf	76.8 - 86.8	0 U	25.8	100.1	----	----	----	7,440,000	----	----	----	----
U4-MW-07I	11/16/2023	N	EM15	UMCf	76.8 - 86.8	0 U	25.2	145.2	----	----	----	7,700,000	----	----	----	----
U4-MW-07I	12/11/2023	N	EM16	UMCf	76.8 - 86.8	0.0 U	23.8	127.9	<4.07	<4.26	5,450	7,540,000	----	----	----	----
U4-MW-07I	1/26/2024	N	EM17	UMCf	76.8 - 86.8	0.0 U	24.8	64.7	----	----	----	12,000,000	----	----	----	----
U4-MW-07I	2/13/2024	N	EM18	UMCf	76.8 - 86.8	0.0 U	23.7	94.4	----	----	----	5,180,000	----	----	----	----
U4-MW-07I	3/11/2024	N	EM19	UMCf	76.8 - 86.8	0.0 U	22.6	58.5	<4.07	<4.26	2,390	15,700,000	----	----	----	----
U4-MW-07I	6/12/2024	N	EM20	UMCf	76.8 - 86.8	0.0 U	31.1	161.9	<4.07	<4.26	4,160	11,400,000	----	----	----	----
U4-MW-07I	9/18/2024	N	EM21	UMCf	76.8 - 86.8	0.0 U	31.3	122.5	<3.40	<3.40	5,590	11,300,000	----	----	----	----
U4-MW-08D	4/13/2022	N	BL02	UMCf	98.6 - 108.6	0.0 U	24.7	98.8 E	<4.07	<4.26	<2.91	48,000,000	----	----	----	----
U4-MW-08D	12/7/2022	N	EM04	UMCf	98.6 - 108.6	0.0 U	22.4	21.7	<4.07	<4.26	166	14,700,000	----	----	----	----
U4-MW-08D	3/17/2023	N	EM07	UMCf	98.6 - 108.6	0.0 U	21.6	144.4	<4.07	<4.26	22,600	22,700,000	----	----	----	----
U4-MW-08D	6/13/2023	N	EM10	UMCf	98.6 - 108.6	0.0 U	27.2	142.7	<4.07	<4.26	31,700	37,200,000	----	----	----	----
U4-MW-08D	9/13/2023	N	EM13	UMCf	98.6 - 108.6	0 U	28.6	193.8	<4.07	<4.26	21,800	31,900,000	----	----	----	----
U4-MW-08D	12/11/2023	N	EM16	UMCf	98.6 - 108.6	0.0 U	23.5	189.1	<4.07	<4.26	22,300	30,600,000 J	----	----	----	----
U4-MW-08D	3/12/2024	N	EM19	UMCf	98.6 - 108.6	0.0 U	25.4	76.2	<4.07	<4.26	27,400	26,800,000	----	----	----	----
U4-MW-08D	6/14/2024	N	EM20	UMCf	98.6 - 108.6	0.0 U	30.2	77.2	<4.07	<4.26	21,200	39,800,000	----	----	----	----
U4-MW-08D	9/23/2024	N	EM21	UMCf	98.6 - 108.6	0.0 U	29.9	41.0	<3.40	<3.40	14,700	43,900,000	----	----	----	----
U4-MW-08DD	4/20/2022	N	BL02	UMCf	119.8 - 129.8	0.0 U	24.6	62.4	<4.07	<4.26	<2.91	1,240,000	----	----	----	----
U4-MW-08DD	4/20/2022	FD	BL02	UMCf	119.8 - 129.8	----	----	----	<4.07	<4.26	<2.91	1,220,000	----	----	----	----
U4-MW-08DD	12/8/2022	N	EM04	UMCf	119.8 - 129.8	0.0 U	21.4	20.3	<4.07	<4.26	<2.91	751,000 J	----	----	----	----
U4-MW-08DD	3/15/2023	N	EM07	UMCf	119.8 - 129.8	0.0 U	24.5	8.5	<4.07	<4.26	<2.91	2,690,000	----	----	----	----
U4-MW-08DD	6/14/2023	N	EM10	UMCf	119.8 - 129.8	0.0 U	26.6	124.9	<4.07	<4.26	<2.91	2,380,000	----	----	----	----
U4-MW-08DD	9/14/2023	N	EM13	UMCf	119.8 - 129.8	0 U	27.1	9.8	<4.07	<4.26	<2.91	1,330,000 J	----	----	----	----
U4-MW-08DD	12/14/2023	N	EM16	UMCf	119.8 - 129.8	0.0 U	23.2	4.4	<4.07	<4.26	<2.91	1,540,000 J	----	----	----	----
U4-MW-08DD	3/14/2024	N	EM19	UMCf	119.8 - 129.8	0.0 U	15.0	9.0	<4.07	<4.26	4,060	1,210,000	----	----	----	----
U4-MW-08DD	6/12/2024	N	EM20	UMCf	119.8 - 129.8	0.0 U	32.1	42.3	<4.07	<4.26	4,940	1,260,000	----	----	----	----
U4-MW-08DD	9/20/2024	N	EM21	UMCf	119.8 - 129.8	0.0 U	31.6	111.9	<3.40	<3.40	1,860	1,270,000	----	----	----	----
U4-MW-08I	4/13/2022	N	BL02	UMCf	78.0 - 88.0	0.0 U	22.8	-5857914.0 E	<4.07	<4.26	<2.91	3,380,000	----	----	----	----
U4-MW-08I	12/7/2022	N	EM04	UMCf	78.0 - 88.0	0.0 U	22.7	304.1	<4.07	<4.26	57.2	11,000,000	----	----	----	----
U4-MW-08I	12/7/2022	FD	EM04	UMCf	78.0 - 88.0	----	----	----	<4.07	<4.26	55.5	----	----	----	----	----
U4-MW-08I	3/17/2023	N	EM07	UMCf	78.0 - 88.0	0.0 U	20.5	641.8	<4.07	<4.26	17,900	22,300,000	----	----	----	----
U4-MW-08I	6/13/2023	N	EM10	UMCf	78.0 - 88.0	0.0 U	25.2	49.9	<4.07	<4.26	4,260	5,340,000	----	----	----	----
U4-MW-08I	9/13/2023	N	EM13	UMCf	78.0 - 88.0	0 U	27.1	82.9	<4.07	<4.26	10,200	9,260,000	----	----	----	----
U4-MW-08I	12/11/2023	N	EM16	UMCf	78.0 - 88.0	0.0 U	23.8	217.1	<4.07	<4.26	13,400	11,600,000	----	----	----	----
U4-MW-08I	3/12/2024	N	EM19	UMCf	78.0 - 88.0	0.0 U	24.1	46.2	<4.07	<4.26	15,100	19,700,000	----	----	----	----
U4-MW-08I	6/14/2024	N	EM20	UMCf	78.0 - 88.0	0.0 U	29.3	29.5	<4.07	<4.26	17,400	16,300,000	----	----	----	----
U4-MW-08I	9/23/2024	N	EM21	UMCf	78.0 - 88.0	0.0 U	32.6	34.2	<3.40	<3.40	9,440	13,900,000	----	----	----	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	FIELD TESTS	FIELD TESTS	FIELD TESTS	RSK175	RSK175	RSK175	SM2540C	SM2540G	SW6010B	SW6010B	SW6010B
						Sulfide	Temperature	Turbidity	Ethane	Ethene	Methane	Total Dissolved Solids	Solids, Percent	Aluminum	Calcium	Iron
						mg/L	C	NTU	µg/L	µg/L	µg/L	µg/L	Percent	µg/L	µg/L	µg/L
U4-MW-08S	4/15/2022	N	BL02	UMCf	54.9 - 64.9	0.0 U	27.1	55.4	<4.07	<4.26	<2.91	1,970,000	----	----	----	----
U4-MW-08S	12/7/2022	N	EM04	UMCf	54.9 - 64.9	0.0 U	22.4	182.5	<4.07	<4.26	427	1,600,000	----	----	----	----
U4-MW-08S	12/7/2022	FD	EM04	UMCf	54.9 - 64.9	----	----	----	<4.07	<4.26	472	1,850,000	----	----	----	----
U4-MW-08S	3/13/2023	N	EM07	UMCf	54.9 - 64.9	0.2	31.0	2.9	<4.07	<4.26	21,300	1,570,000	----	----	----	----
U4-MW-08S	3/13/2023	FD	EM07	UMCf	54.9 - 64.9	----	----	----	<4.07	<4.26	21,300	1,410,000	----	----	----	----
U4-MW-08S	6/13/2023	N	EM10	UMCf	54.9 - 64.9	2.0	26.7	192.0	<4.07	<4.26	23,300	2,530,000	----	----	----	----
U4-MW-08S	6/13/2023	FD	EM10	UMCf	54.9 - 64.9	----	----	----	<4.07	<4.26	26,800	2,110,000	----	----	----	----
U4-MW-08S	9/13/2023	N	EM13	UMCf	54.9 - 64.9	0 U	29	154.1	<4.07	<4.26	23,900	1,710,000	----	----	----	----
U4-MW-08S	9/13/2023	FD	EM13	UMCf	54.9 - 64.9	----	----	----	<4.07	<4.26	24,800	1,580,000	----	----	----	----
U4-MW-08S	12/14/2023	N	EM16	UMCf	54.9 - 64.9	0.0 U	24.8	10.5	<4.07	<4.26	15,900	3,210,000	----	----	----	----
U4-MW-08S	12/14/2023	FD	EM16	UMCf	54.9 - 64.9	----	----	----	<4.07	<4.26	18,800	3,190,000	----	----	----	----
U4-MW-08S	3/14/2024	N	EM19	UMCf	54.9 - 64.9	0.1	22.0	81.3	<4.07	<4.26	12,600	2,060,000	----	----	----	----
U4-MW-08S	3/14/2024	FD	EM19	UMCf	54.9 - 64.9	----	----	----	<4.07	<4.26	13,000	1,980,000	----	----	----	----
U4-MW-08S	3/25/2024	N	EM19	UMCf	54.9 - 64.9	0.0 U	24.3	122089.0	<4.07	<4.26	15,200 J	2,120,000	----	----	----	----
U4-MW-08S	3/25/2024	FD	EM19	UMCf	54.9 - 64.9	----	----	----	<4.07	<4.26	21,300 J	2,070,000	----	----	----	----
U4-MW-08S	6/14/2024	N	EM20	UMCf	54.9 - 64.9	0.1	30.7	192.3	<4.07	<4.26	18,700	2,350,000	----	----	----	----
U4-MW-08S	6/14/2024	FD	EM20	UMCf	54.9 - 64.9	----	----	----	<4.07	<4.26	19,400	2,340,000	----	----	----	----
U4-MW-08S	9/20/2024	N	EM21	UMCf	54.9 - 64.9	0.3	31.9	163.5	<3.40	<3.40	20,800	2,330,000	----	----	----	----
U4-MW-08S	9/20/2024	FD	EM21	UMCf	54.9 - 64.9	----	----	----	3.67 J	<3.40	20,900	2,310,000	----	----	----	----
U4-MW-09D	4/14/2022	N	BL02	UMCf	96.9 - 106.9	0.0 U	24.3	640.2	<4.07	<4.26	<2.91	30,000,000	----	----	----	----
U4-MW-09D	12/6/2022	N	EM04	UMCf	96.9 - 106.9	0.0 U	22.1	305.7	<4.07 UJ	<4.26 UJ	291	3,560,000	----	----	----	----
U4-MW-09D	3/16/2023	N	EM07	UMCf	96.9 - 106.9	0.0 U	22.9	678.2	<4.07	<4.26	13,400	4,200,000	----	----	----	----
U4-MW-09D	6/14/2023	N	EM10	UMCf	96.9 - 106.9	0.0 U	29.0	13.1	<4.07	<4.26	4,200	3,820,000	----	----	----	----
U4-MW-09D	9/12/2023	N	EM13	UMCf	96.9 - 106.9	0 U	29.6	7.4	<4.07	<4.26	28,900	4,020,000	----	----	----	----
U4-MW-09D	12/15/2023	N	EM16	UMCf	96.9 - 106.9	0.0 U	19.5	28.4	<4.07	<4.26	8,200	7,680,000	----	----	----	----
U4-MW-09D	3/13/2024	N	EM19	UMCf	96.9 - 106.9	0.0 U	26.3	36.9	<4.07	<4.26	2,560	6,410,000	----	----	----	----
U4-MW-09D	6/13/2024	N	EM20	UMCf	96.9 - 106.9	0.0 U	29.2	88.4	<4.07	<4.26	4,420	7,720,000	----	----	----	----
U4-MW-09D	9/19/2024	N	EM21	UMCf	96.9 - 106.9	0.0 U	29.4	24.1	<3.40	<3.40	16,600	8,400,000	----	----	----	----
U4-MW-09DD	4/14/2022	N	BL02	UMCf	119.8 - 129.8	0.0 U	23.2	25.6	<4.07	<4.26	<2.91	759,000 J	----	----	----	----
U4-MW-09DD	12/6/2022	N	EM04	UMCf	119.8 - 129.8	0.0 U	22.6	11.4	<4.07 UJ	<4.26 UJ	<2.91 UJ	693,000	----	----	----	----
U4-MW-09DD	3/21/2023	N	EM07	UMCf	119.8 - 129.8	0.0 U	20.1	26.7	<4.07	<4.26	<2.91	1,290,000	----	----	----	----
U4-MW-09DD	6/15/2023	N	EM10	UMCf	119.8 - 129.8	0.0 U	32.4	26.3	<4.07	<4.26	<2.91	1,210,000 J	----	----	----	----
U4-MW-09DD	9/13/2023	N	EM13	UMCf	119.8 - 129.8	0 U	29.8	14.4	<4.07	<4.26	2,520	1,880,000	----	----	----	----
U4-MW-09DD	12/13/2023	N	EM16	UMCf	119.8 - 129.8	0.0 U	14.4	5.5	<4.07	5.11 J	10,500	2,390,000	----	----	----	----
U4-MW-09DD	3/14/2024	N	EM19	UMCf	119.8 - 129.8	0.0 U	21.2	1176.1	<4.07	<4.26	41,200	2,130,000	----	----	----	----
U4-MW-09DD	6/13/2024	N	EM20	UMCf	119.8 - 129.8	0.3	34.0	27.3	<4.07	4.39 J	33,800	1,990,000	----	----	----	----
U4-MW-09DD	9/20/2024	N	EM21	UMCf	119.8 - 129.8	0.0 U	28.9	371.9	<3.40	<3.40	20,700	1,490,000	----	----	----	----
U4-MW-09I	4/14/2022	N	BL02	UMCf	76.8 - 86.8	0.0 U	24.5	322.6	<4.07	<4.26	<2.91	2,030,000	----	----	----	----
U4-MW-09I	12/6/2022	N	EM04	UMCf	76.8 - 86.8	0.0 U	22.6	1626.2	<4.07 UJ	<4.26 UJ	194	6,780,000	----	----	----	----
U4-MW-09I	3/16/2023	N	EM07	UMCf	76.8 - 86.8	0.0 U	24.5	1692.0	<4.07	<4.26	18,200	4,970,000	----	----	----	----
U4-MW-09I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	0.0 U	28.3	49.1	<40.7	<42.6	7,840	4,140,000	----	----	----	----
U4-MW-09I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	0 U	29.4	132	<4.07	<4.26	34,600	5,690,000	----	----	----	----
U4-MW-09I	12/15/2023	N	EM16	UMCf	76.8 - 86.8	0.0 U	20.5	98.4	<4.07	<4.26	16,000	7,980,000	----	----	----	----
U4-MW-09I	3/13/2024	N	EM19	UMCf	76.8 - 86.8	0.0 U	23.3	9493.7	<4.07	<4.26	8,180	6,380,000	----	----	----	----
U4-MW-09I	6/13/2024	N	EM20	UMCf	76.8 - 86.8	0.0 U	29.9	593.4	<4.07	<4.26	7,530	7,880,000	----	----	----	----
U4-MW-09I	9/19/2024	N	EM21	UMCf	76.8 - 86.8	0.0 U	27.7	52.9	<3.40	<3.40	18,600	9,000,000	----	----	----	----
U4-MW-09S	4/14/2022	N	BL02	UMCf	55.3 - 65.3	0.0 U	23.4	33.5	<4.07	<4.26	<2.91	1,900,000	----	----	----	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	FIELD TESTS	FIELD TESTS	FIELD TESTS	RSK175	RSK175	RSK175	SM2540C	SM2540G	SW6010B	SW6010B	SW6010B
						Sulfide	Temperature	Turbidity	Ethane	Ethene	Methane	Total Dissolved Solids	Solids, Percent	Aluminum	Calcium	Iron
						mg/L	C	NTU	µg/L	µg/L	µg/L	µg/L	Percent	µg/L	µg/L	µg/L
U4-MW-09S	12/6/2022	N	EM04	UMCf	55.3 - 65.3	0.0 U	21.6	60.9	<4.07 UJ	<4.26 UJ	<2.91 UJ	3,460,000 J	----	----	----	----
U4-MW-09S	3/17/2023	N	EM07	UMCf	55.3 - 65.3	0.0 U	23.0	99.2	<4.07	<4.26	4,840	2,960,000	----	----	----	----
U4-MW-09S	6/15/2023	N	EM10	UMCf	55.3 - 65.3	2.0	26.6	7.3	<4.07	<4.26	11,800	3,740,000	----	----	----	----
U4-MW-09S	9/13/2023	N	EM13	UMCf	55.3 - 65.3	0.3	27.3	57.2	<4.07	<4.26	24,500	3,690,000	----	----	----	----
U4-MW-09S	12/12/2023	N	EM16	UMCf	55.3 - 65.3	0.0 U	25.1	123.4	<4.07	<4.26	19,600	7,510,000	----	----	----	----
U4-MW-09S	3/13/2024	N	EM19	UMCf	55.3 - 65.3	0.1	23.2	178.3	<4.07	<4.26	17,200	5,510,000	----	----	----	----
U4-MW-09S	6/13/2024	N	EM20	UMCf	55.3 - 65.3	0.3	29.1	228.6	<4.07	<4.26	10,800	5,010,000	----	----	----	----
U4-MW-09S	9/19/2024	N	EM21	UMCf	55.3 - 65.3	0.0 U	31.3	277.2	<3.40	<3.40	7,760	4,500,000	----	----	----	----
U4-MW-10D	4/14/2022	N	BL02	UMCf	96.9 - 106.9	0.0 U	22.6	52.9	<4.07	<4.26	<2.91	4,840,000	----	----	----	----
U4-MW-10D	12/5/2022	N	EM04	UMCf	96.9 - 106.9	0.0 U	22.9	43.2	<4.07	<4.26	257	2,400,000	----	----	----	----
U4-MW-10D	3/17/2023	N	EM07	UMCf	96.9 - 106.9	0.0 U	22.4	-399.7	<4.07	<4.26	29,800	3,170,000	----	----	----	----
U4-MW-10D	6/14/2023	N	EM10	UMCf	96.9 - 106.9	0.1	27.1	14.9	<4.07	<4.26	26,700	2,340,000	----	----	----	----
U4-MW-10D	9/13/2023	N	EM13	UMCf	96.9 - 106.9	0 U	31.3	49.9	<4.07	<4.26	35,300	2,200,000	----	----	----	----
U4-MW-10D	12/14/2023	N	EM16	UMCf	96.9 - 106.9	0.0 U	21.8	37.7	<4.07	<4.26	41,400	1,900,000	----	----	----	----
U4-MW-10D	3/14/2024	N	EM19	UMCf	96.9 - 106.9	0.0 U	18.5	46.5	<4.07	<4.26	32,900	1,670,000	----	----	----	----
U4-MW-10D	6/11/2024	N	EM20	UMCf	96.9 - 106.9	0.0 U	29.8	134.0	<4.07	<4.26	26,000	2,220,000	----	----	----	----
U4-MW-10D	9/26/2024	N	EM21	UMCf	96.9 - 106.9	0.0 U	27.2	5.0	<3.40	<3.40	24,500	1,950,000	----	----	----	----
U4-MW-10I	4/14/2022	N	BL02	UMCf	77.1 - 87.1	0.0 U	23.9	72915.5	<4.07	<4.26	<2.91	5,670,000	----	----	----	----
U4-MW-10I	12/5/2022	N	EM04	UMCf	77.1 - 87.1	0.0 U	23.2	48.5	<4.07	<4.26	50.1	1,870,000	----	----	----	----
U4-MW-10I	3/17/2023	N	EM07	UMCf	77.1 - 87.1	0.0 U	23.1	-345.3	<4.07	<4.26	20,300	3,110,000	----	----	----	----
U4-MW-10I	6/14/2023	N	EM10	UMCf	77.1 - 87.1	0.6	25.7	22.8	<4.07	<4.26	21,500	2,240,000	----	----	----	----
U4-MW-10I	9/13/2023	N	EM13	UMCf	77.1 - 87.1	0.2	30.5	55.3	<4.07	<4.26	25,500	2,570,000	----	----	----	----
U4-MW-10I	12/14/2023	N	EM16	UMCf	77.1 - 87.1	0.0 U	23.1	74.2	<4.07	<4.26	7,750	11,100,000	----	----	----	----
U4-MW-10I	3/13/2024	N	EM19	UMCf	77.1 - 87.1	0.0 U	22.2	324.9	<4.07	<4.26	19,800	6,140,000	----	----	----	----
U4-MW-10I	6/11/2024	N	EM20	UMCf	77.1 - 87.1	0.0 U	31.1	411.0	<4.07	<4.26	4,990	4,320,000	----	----	----	----
U4-MW-10I	9/25/2024	N	EM21	UMCf	77.1 - 87.1	0.0 U	30.1	31.1	<3.40	<3.40	811	3,040,000	----	----	----	----
U4-MW-11D	4/15/2022	N	BL02	UMCf	97.4 - 107.4	0.0 U	23.3	218.4	<4.07	<4.26	<2.91	34,200,000	----	----	----	----
U4-MW-11D	9/26/2022	N	EM01	UMCf	97.4 - 107.4	0.0 U	31.6	74.6	----	----	----	34,600,000	----	----	----	----
U4-MW-11D	10/11/2022	N	EM02	UMCf	97.4 - 107.4	0.0 U	23.7	155.4	----	----	----	40,200,000	----	----	----	----
U4-MW-11D	11/1/2022	N	EM03	UMCf	97.4 - 107.4	0.0 U	22.8	53.4	----	----	----	38,300,000	----	----	----	----
U4-MW-11D	12/6/2022	N	EM04	UMCf	97.4 - 107.4	0.0 U	16.9	21.4	<4.07 UJ	<4.26 UJ	215	27,000,000	----	----	----	----
U4-MW-11D	1/12/2023	N	EM05	UMCf	97.4 - 107.4	0.0 U	21.5	254.4	----	----	----	24,800,000	----	----	----	----
U4-MW-11D	2/14/2023	N	EM06	UMCf	97.4 - 107.4	0.0 U	21.3	55.2	----	----	----	25,800,000	----	----	----	----
U4-MW-11D	3/16/2023	N	EM07	UMCf	97.4 - 107.4	0.0 U	20.0	303.2	<4.07	<4.26	19,400	22,900,000	----	----	----	----
U4-MW-11D	4/18/2023	N	EM08	UMCf	97.4 - 107.4	0.0 U	25.2	154.0	----	----	----	23,800,000	----	----	----	----
U4-MW-11D	5/17/2023	N	EM09	UMCf	97.4 - 107.4	0.0 U	24.2	83.1	----	----	----	647,000	----	----	----	----
U4-MW-11D	6/16/2023	N	EM10	UMCf	97.4 - 107.4	0.0 U	22.1	4.2	<4.07	<4.26	29,300	25,900,000	----	----	----	----
U4-MW-11D	7/14/2023	N	EM11	UMCf	97.4 - 107.4	0.0 U	27.2	52.9	----	----	----	22,400,000	----	----	----	----
U4-MW-11D	8/14/2023	N	EM12	UMCf	97.4 - 107.4	0 U	27.6	132.3	----	----	----	24,900,000	----	----	----	----
U4-MW-11D	9/13/2023	N	EM13	UMCf	97.4 - 107.4	0 U	28.6	35	<4.07	<4.26	24,000	22,400,000	----	----	----	----
U4-MW-11D	10/18/2023	N	EM14	UMCf	97.4 - 107.4	0 U	25.6	278.7	----	----	----	19,200,000	----	----	----	----
U4-MW-11D	11/16/2023	N	EM15	UMCf	97.4 - 107.4	0 U	24.8	664.2	----	----	----	20,100,000	----	----	----	----
U4-MW-11D	12/13/2023	N	EM16	UMCf	97.4 - 107.4	0.0 U	22.2	1492.2	<4.07	<4.26	15,800	21,900,000	----	----	----	----
U4-MW-11D	1/25/2024	N	EM17	UMCf	97.4 - 107.4	0.0 U	20.8	380.1	----	----	----	20,900,000	----	----	----	----
U4-MW-11D	2/14/2024	N	EM18	UMCf	97.4 - 107.4	0.0 U	20.7	4503.5	----	----	----	20,400,000	----	----	----	----
U4-MW-11D	3/12/2024	N	EM19	UMCf	97.4 - 107.4	0.0 U	18.3	43.5	<4.07	<4.26	19,700	23,200,000	----	----	----	----
U4-MW-11D	6/12/2024	N	EM20	UMCf	97.4 - 107.4	0.0 U	32.9	174.3	<4.07	<4.26	9,220	29,300,000	----	----	----	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	FIELD TESTS	FIELD TESTS	FIELD TESTS	RSK175	RSK175	RSK175	SM2540C	SM2540G	SW6010B	SW6010B	SW6010B
						Sulfide	Temperature	Turbidity	Ethane	Ethene	Methane	Total Dissolved Solids	Solids, Percent	Aluminum	Calcium	Iron
						mg/L	C	NTU	µg/L	µg/L	µg/L	µg/L	Percent	µg/L	µg/L	µg/L
U4-MW-11D	9/23/2024	N	EM21	UMCf	97.4 - 107.4	0.0 U	26.6	48.5	<3.40	<3.40	14,800	29,500,000	----	----	----	----
U4-MW-11I	4/14/2022	N	BL02	UMCf	77.0 - 87.0	0.0 U	26.3	99.8	<4.07	<4.26	<2.91	2,730,000	----	----	----	----
U4-MW-11I	9/26/2022	N	EM01	UMCf	77.0 - 87.0	0.0 U	27.0	384.2	----	----	----	2,470,000	----	----	----	----
U4-MW-11I	9/26/2022	FD	EM01	UMCf	77.0 - 87.0	----	----	----	----	----	----	2,690,000	----	----	----	----
U4-MW-11I	10/10/2022	N	EM02	UMCf	77.0 - 87.0	0.0 U	24.4	170.6	----	----	----	2,200,000	----	----	----	----
U4-MW-11I	10/10/2022	FD	EM02	UMCf	77.0 - 87.0	----	----	----	----	----	----	2,450,000	----	----	----	----
U4-MW-11I	10/31/2022	N	EM03	UMCf	77.0 - 87.0	0.6	23.3	36.5	----	----	----	2,390,000	----	----	----	----
U4-MW-11I	10/31/2022	FD	EM03	UMCf	77.0 - 87.0	----	----	----	----	----	----	2,340,000	----	----	----	----
U4-MW-11I	12/6/2022	N	EM04	UMCf	77.0 - 87.0	0.6	23.8	41.5	<4.07 UJ	<4.26 UJ	5,160	2,550,000	----	----	----	----
U4-MW-11I	12/6/2022	FD	EM04	UMCf	77.0 - 87.0	----	----	----	<4.07 UJ	<4.26 UJ	5,360	2,610,000	----	----	----	----
U4-MW-11I	1/12/2023	N	EM05	UMCf	77.0 - 87.0	0.0 U	23.3	169.3	----	----	----	1,610,000	----	----	----	----
U4-MW-11I	1/12/2023	FD	EM05	UMCf	77.0 - 87.0	----	----	----	----	----	----	1,750,000	----	----	----	----
U4-MW-11I	2/14/2023	N	EM06	UMCf	77.0 - 87.0	0.0 U	20.1	50.9	----	----	----	8,560,000	----	----	----	----
U4-MW-11I	2/14/2023	FD	EM06	UMCf	77.0 - 87.0	----	----	----	----	----	----	7,900,000	----	----	----	----
U4-MW-11I	3/16/2023	N	EM07	UMCf	77.0 - 87.0	0.8	20.3	130.6	<4.07	<4.26	23,600	2,020,000	----	----	----	----
U4-MW-11I	3/16/2023	FD	EM07	UMCf	77.0 - 87.0	----	----	----	<4.07	<4.26	21,400	2,030,000	----	----	----	----
U4-MW-11I	4/18/2023	N	EM08	UMCf	77.0 - 87.0	0.5	24.3	377.3	----	----	----	1,950,000	----	----	----	----
U4-MW-11I	4/18/2023	FD	EM08	UMCf	77.0 - 87.0	----	----	----	----	----	----	2,070,000	----	----	----	----
U4-MW-11I	5/19/2023	N	EM09	UMCf	77.0 - 87.0	0.0 U	26.7	1679.2	----	----	----	2,390,000	----	----	----	----
U4-MW-11I	5/19/2023	FD	EM09	UMCf	77.0 - 87.0	----	----	----	----	----	----	2,430,000	----	----	----	----
U4-MW-11I	6/15/2023	N	EM10	UMCf	77.0 - 87.0	2.0	32.3	63.7	<4.07	<4.26	23,000	1,960,000	----	----	----	----
U4-MW-11I	6/15/2023	FD	EM10	UMCf	77.0 - 87.0	----	----	----	<4.07	<4.26	24,000	1,910,000	----	----	----	----
U4-MW-11I	7/13/2023	N	EM11	UMCf	77.0 - 87.0	2.4	27.1	39.7	----	----	----	2,070,000 J	----	----	----	----
U4-MW-11I	7/13/2023	FD	EM11	UMCf	77.0 - 87.0	----	----	----	----	----	----	2,070,000 J	----	----	----	----
U4-MW-11I	8/14/2023	N	EM12	UMCf	77.0 - 87.0	0 U	27	69.7	----	----	----	9,340,000	----	----	----	----
U4-MW-11I	8/14/2023	FD	EM12	UMCf	77.0 - 87.0	----	----	----	----	----	----	10,100,000	----	----	----	----
U4-MW-11I	9/13/2023	N	EM13	UMCf	77.0 - 87.0	0 U	33.4	15.2	<4.07	<4.26	24,100	7,240,000	----	----	----	----
U4-MW-11I	9/13/2023	FD	EM13	UMCf	77.0 - 87.0	----	----	----	<4.07	<4.26	21,000	7,060,000	----	----	----	----
U4-MW-11I	10/19/2023	N	EM14	UMCf	77.0 - 87.0	0 U	24.5	115.7	----	----	----	19,800,000 J-	----	----	----	----
U4-MW-11I	10/19/2023	FD	EM14	UMCf	77.0 - 87.0	----	----	----	----	----	----	16,200,000 J-	----	----	----	----
U4-MW-11I	11/16/2023	N	EM15	UMCf	77.0 - 87.0	0 U	24.5	103.5	----	----	----	10,900,000 J	----	----	----	----
U4-MW-11I	11/16/2023	FD	EM15	UMCf	77.0 - 87.0	----	----	----	----	----	----	16,500,000 J	----	----	----	----
U4-MW-11I	12/13/2023	N	EM16	UMCf	77.0 - 87.0	0.0 U	19.0	93.0	<4.07	<4.26	18,700	13,700,000	----	----	----	----
U4-MW-11I	12/13/2023	FD	EM16	UMCf	77.0 - 87.0	----	----	----	<4.07	<4.26	20,100	11,200,000	----	----	----	----
U4-MW-11I	1/25/2024	N	EM17	UMCf	77.0 - 87.0	0.0 U	19.6	85.5	----	----	----	11,400,000	----	----	----	----
U4-MW-11I	1/25/2024	FD	EM17	UMCf	77.0 - 87.0	----	----	----	----	----	----	12,900,000	----	----	----	----
U4-MW-11I	2/14/2024	N	EM18	UMCf	77.0 - 87.0	0.0 U	20.2	96.6	----	----	----	14,700,000 J	----	----	----	----
U4-MW-11I	2/14/2024	FD	EM18	UMCf	77.0 - 87.0	----	----	----	----	----	----	10,500,000 J	----	----	----	----
U4-MW-11I	3/13/2024	N	EM19	UMCf	77.0 - 87.0	0.0 U	19.6	73.1	<4.07	<4.26	13,700	13,700,000	----	----	----	----
U4-MW-11I	3/13/2024	FD	EM19	UMCf	77.0 - 87.0	----	----	----	<4.07	<4.26	15,200	10,300,000	----	----	----	----
U4-MW-11I	6/12/2024	N	EM20	UMCf	77.0 - 87.0	0.0 U	29.1	34.2	<4.07	<4.26	15,800	16,600,000	----	----	----	----
U4-MW-11I	6/12/2024	FD	EM20	UMCf	77.0 - 87.0	----	----	----	<4.07	<4.26	17,200	18,500,000	----	----	----	----
U4-MW-11I	9/23/2024	N	EM21	UMCf	77.0 - 87.0	0.0 U	31.6	57.7	<3.40	<3.40	19,700	17,100,000	----	----	----	----
U4-MW-11I	9/23/2024	FD	EM21	UMCf	77.0 - 87.0	----	----	----	<3.40	3.54 J	18,800	17,000,000	----	----	----	----
U4-MW-12D	4/15/2022	N	BL02	UMCf	97.1 - 107.1	0.0 U	26.2	40.3	<4.07	<4.26	<2.91	29,700,000	----	----	----	----
U4-MW-12D	9/27/2022	N	EM01	UMCf	97.1 - 107.1	0.0 U	27.2	97.6	----	----	----	14,900,000	----	----	----	----
U4-MW-12D	10/12/2022	N	EM02	UMCf	97.1 - 107.1	0.0 U	23.4	141.7	----	----	----	19,300,000 J-	----	----	----	----

Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	FIELD TESTS	FIELD TESTS	FIELD TESTS	RSK175	RSK175	RSK175	SM2540C	SM2540G	SW6010B	SW6010B	SW6010B
						Sulfide	Temperature	Turbidity	Ethane	Ethene	Methane	Total Dissolved Solids	Solids, Percent	Aluminum	Calcium	Iron
						mg/L	C	NTU	µg/L	µg/L	µg/L	µg/L	Percent	µg/L	µg/L	µg/L
U4-MW-12D	11/2/2022	N	EM03	UMCf	97.1 - 107.1	0.0 U	20.8	84.0	----	----	----	16,600,000	----	----	----	----
U4-MW-12D	12/7/2022	N	EM04	UMCf	97.1 - 107.1	0.0 U	17.7	89.2	<4.07	<4.26	410	13,400,000	----	----	----	----
U4-MW-12D	1/12/2023	N	EM05	UMCf	97.1 - 107.1	0.0 U	21.3	23.7	----	----	----	14,300,000	----	----	----	----
U4-MW-12D	2/15/2023	N	EM06	UMCf	97.1 - 107.1	0.0 U	22.0	44.6	----	----	----	13,800,000	----	----	----	----
U4-MW-12D	3/14/2023	N	EM07	UMCf	97.1 - 107.1	0.0 U	20.5	234.2	<4.07	<4.26	26,600	12,700,000	----	----	----	----
U4-MW-12D	4/17/2023	N	EM08	UMCf	97.1 - 107.1	0.0 U	27.5	32.0	----	----	----	9,900,000	----	----	----	----
U4-MW-12D	5/17/2023	N	EM09	UMCf	97.1 - 107.1	0.0 U	28.5	33.5	----	----	----	21,200,000	----	----	----	----
U4-MW-12D	6/16/2023	N	EM10	UMCf	97.1 - 107.1	0.0 U	21.3	53.6	<4.07	<4.26	20,600	8,760,000	----	----	----	----
U4-MW-12D	7/13/2023	N	EM11	UMCf	97.1 - 107.1	0.0 U	33.1	27.3	----	----	----	8,720,000	----	----	----	----
U4-MW-12D	8/14/2023	N	EM12	UMCf	97.1 - 107.1	0 U	28	87.7	----	----	----	7,950,000	----	----	----	----
U4-MW-12D	9/12/2023	N	EM13	UMCf	97.1 - 107.1	0 U	29.7	17.6	<4.07	<4.26	24,100	6,550,000	----	----	----	----
U4-MW-12D	10/17/2023	N	EM14	UMCf	97.1 - 107.1	0 U	24.4	405.8	----	----	----	6,920,000	----	----	----	----
U4-MW-12D	11/15/2023	N	EM15	UMCf	97.1 - 107.1	0 U	24.6	250.4	----	----	----	7,110,000	----	----	----	----
U4-MW-12D	12/12/2023	N	EM16	UMCf	97.1 - 107.1	0.0 U	20.3	55.6	<4.07	<4.26	26,000	6,000,000 J	----	----	----	----
U4-MW-12D	1/24/2024	N	EM17	UMCf	97.1 - 107.1	0.0 U	16.3	15.9	----	----	----	8,410,000	----	----	----	----
U4-MW-12D	2/13/2024	N	EM18	UMCf	97.1 - 107.1	0.0 U	16.5	24.5	----	----	----	5,160,000	----	----	----	----
U4-MW-12D	3/12/2024	N	EM19	UMCf	97.1 - 107.1	0.0 U	20.1	169.8	<4.07	<4.26	29,800	8,730,000	----	----	----	----
U4-MW-12D	6/12/2024	N	EM20	UMCf	97.1 - 107.1	0.0 U	38.9	82.5	<4.07	<4.26	17,000	13,300,000	----	----	----	----
U4-MW-12D	9/24/2024	N	EM21	UMCf	97.1 - 107.1	0.0 U	26.3	38.9	<3.40	<3.40	25,400	13,700,000	----	----	----	----
U4-MW-12I	4/14/2022	N	BL02	UMCf	76.8 - 86.8	----	26.1	988.9	<4.07	<4.26	<2.91	8,680,000	----	----	----	----
U4-MW-12I	4/14/2022	FD	BL02	UMCf	76.8 - 86.8	----	----	----	<4.07	<4.26	<2.91	8,670,000	----	----	----	----
U4-MW-12I	9/27/2022	N	EM01	UMCf	76.8 - 86.8	0.0 U	27.4	70.6	----	----	----	2,360,000	----	----	----	----
U4-MW-12I	10/12/2022	N	EM02	UMCf	76.8 - 86.8	0.0 U	23.5	343.0	----	----	----	2,410,000 J-	----	----	----	----
U4-MW-12I	11/2/2022	N	EM03	UMCf	76.8 - 86.8	0.0 U	22.6	123.8	----	----	----	4,360,000	----	----	----	----
U4-MW-12I	12/7/2022	N	EM04	UMCf	76.8 - 86.8	0.6	20.5	20.9	<4.07	<4.26	1,070	1,370,000	----	----	----	----
U4-MW-12I	12/7/2022	FD	EM04	UMCf	76.8 - 86.8	----	----	----	<4.07	<4.26	1,110	----	----	----	----	----
U4-MW-12I	1/13/2023	N	EM05	UMCf	76.8 - 86.8	0.0 U	----	----	----	----	----	1,580,000	----	----	----	----
U4-MW-12I	2/15/2023	N	EM06	UMCf	76.8 - 86.8	0.0 U	20.6	2.3	----	----	----	3,010,000	----	----	----	----
U4-MW-12I	3/13/2023	N	EM07	UMCf	76.8 - 86.8	1.4	21.4	4.0	<4.07	<4.26	35,200	2,270,000	----	----	----	----
U4-MW-12I	4/17/2023	N	EM08	UMCf	76.8 - 86.8	0.4	26.1	18.8	----	----	----	2,040,000	----	----	----	----
U4-MW-12I	5/17/2023	N	EM09	UMCf	76.8 - 86.8	0.4	27.6	10.9	----	----	----	3,020,000	----	----	----	----
U4-MW-12I	6/16/2023	N	EM10	UMCf	76.8 - 86.8	0.0 U	22.3	53.8	<4.07	<4.26	25,600	2,180,000	----	----	----	----
U4-MW-12I	7/11/2023	N	EM11	UMCf	76.8 - 86.8	0.4	30.0	43.8	----	----	----	2,250,000 J	----	----	----	----
U4-MW-12I	8/14/2023	N	EM12	UMCf	76.8 - 86.8	0 U	27.7	30.6	----	----	----	4,790,000	----	----	----	----
U4-MW-12I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	0 U	34	5	<4.07	<4.26	31,400	2,660,000	----	----	----	----
U4-MW-12I	10/17/2023	N	EM14	UMCf	76.8 - 86.8	0.4	24.6	159.1	----	----	----	2,280,000 J-	----	----	----	----
U4-MW-12I	11/16/2023	N	EM15	UMCf	76.8 - 86.8	0 U	23.4	64.4	----	----	----	4,940,000	----	----	----	----
U4-MW-12I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	0.0 U	21.7	51.5	<4.07	<4.26	25,600	4,710,000	----	----	----	----
U4-MW-12I	1/24/2024	N	EM17	UMCf	76.8 - 86.8	0.0 U	18.1	163.7	----	----	----	5,990,000	----	----	----	----
U4-MW-12I	2/13/2024	N	EM18	UMCf	76.8 - 86.8	0.0 U	16.8	298.2	----	----	----	6,100,000 J-	----	----	----	----
U4-MW-12I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	0.0 U	22.8	609.1	<4.07	<4.26	25,200	6,530,000	----	----	----	----
U4-MW-12I	6/13/2024	N	EM20	UMCf	76.8 - 86.8	0.0 U	30.7	1465.7	<4.07	<4.26	18,600	10,700,000	----	----	----	----
U4-MW-12I	9/23/2024	N	EM21	UMCf	76.8 - 86.8	0.0 U	26.9	38.4	<3.40	<3.40	19,800	12,900,000	----	----	----	----
U4-MW-13D	4/14/2022	N	BL02	UMCf	98.2 - 108.2	0.0 U	25.2	85.7	<4.07	<4.26	<2.91	30,300,000	----	----	----	----
U4-MW-13D	9/28/2022	N	EM01	UMCf	98.2 - 108.2	0.0 U	28.9	50.9	----	----	----	6,280,000 J+	----	----	----	----
U4-MW-13D	10/11/2022	N	EM02	UMCf	98.2 - 108.2	0.0 U	23.5	22.7	----	----	----	6,140,000	----	----	----	----
U4-MW-13D	11/3/2022	N	EM03	UMCf	98.2 - 108.2	0.0 U	21.5	138.4	----	----	----	9,360,000 J	----	----	----	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	FIELD TESTS	FIELD TESTS	FIELD TESTS	RSK175	RSK175	RSK175	SM2540C	SM2540G	SW6010B	SW6010B	SW6010B
						Sulfide	Temperature	Turbidity	Ethane	Ethene	Methane	Total Dissolved Solids	Solids, Percent	Aluminum	Calcium	Iron
						mg/L	C	NTU	µg/L	µg/L	µg/L	µg/L	Percent	µg/L	µg/L	µg/L
U4-MW-13D	12/7/2022	N	EM04	UMCf	98.2 - 108.2	0.0 U	16.8	55.9	<4.07	<4.26	7,020	7,430,000	----	----	----	----
U4-MW-13D	1/12/2023	N	EM05	UMCf	98.2 - 108.2	0.0 U	21.4	76.1	----	----	----	5,460,000	----	----	----	----
U4-MW-13D	2/15/2023	N	EM06	UMCf	98.2 - 108.2	0.0 U	20.6	58.9	----	----	----	6,380,000	----	----	----	----
U4-MW-13D	3/17/2023	N	EM07	UMCf	98.2 - 108.2	0.0 U	18.5	202.8	<4.07	<4.26	5,480	7,680,000	----	----	----	----
U4-MW-13D	4/18/2023	N	EM08	UMCf	98.2 - 108.2	0.0 U	26.3	119.0	----	----	----	5,400,000	----	----	----	----
U4-MW-13D	5/17/2023	N	EM09	UMCf	98.2 - 108.2	0.0 U	29.8	63.6	----	----	----	4,570,000	----	----	----	----
U4-MW-13D	6/15/2023	N	EM10	UMCf	98.2 - 108.2	0.0 U	26.8	1.8	<4.07	<4.26	3,790	4,240,000	----	----	----	----
U4-MW-13D	7/12/2023	N	EM11	UMCf	98.2 - 108.2	0.0 U	32.5	67.5	----	----	----	4,940,000	----	----	----	----
U4-MW-13D	8/11/2023	N	EM12	UMCf	98.2 - 108.2	0 U	27.8	225.5	----	----	----	5,220,000	----	----	----	----
U4-MW-13D	9/11/2023	N	EM13	UMCf	98.2 - 108.2	0 U	29.6	22.8	<4.07	<4.26	9,280	7,100,000	----	----	----	----
U4-MW-13D	10/18/2023	N	EM14	UMCf	98.2 - 108.2	0 U	24.8	179.3	----	----	----	6,860,000	----	----	----	----
U4-MW-13D	11/15/2023	N	EM15	UMCf	98.2 - 108.2	0 U	24.5	214.3	----	----	----	7,950,000 J-	----	----	----	----
U4-MW-13D	12/11/2023	N	EM16	UMCf	98.2 - 108.2	0.0 U	21.7	514.5	<4.07	<4.26	11,600	5,120,000	----	----	----	----
U4-MW-13D	1/23/2024	N	EM17	UMCf	98.2 - 108.2	0.0 U	18.2	141.3	----	----	----	7,630,000	----	----	----	----
U4-MW-13D	2/12/2024	N	EM18	UMCf	98.2 - 108.2	0.0 U	17.4	77.6	----	----	----	5,030,000	----	----	----	----
U4-MW-13D	3/11/2024	N	EM19	UMCf	98.2 - 108.2	0.0 U	22.1	84.6	<4.07	<4.26	25,700	8,550,000	----	----	----	----
U4-MW-13D	6/13/2024	N	EM20	UMCf	98.2 - 108.2	0.0 U	33.8	480.2	<4.07	<4.26	12,200	13,500,000	----	----	----	----
U4-MW-13D	9/20/2024	N	EM21	UMCf	98.2 - 108.2	0.0 U	30.0	75.7	<3.40	<3.40	14,300	14,900,000	----	----	----	----
U4-MW-13I	4/14/2022	N	BL02	UMCf	77.1 - 87.1	0.0 U	23.7	2478.1	<4.07	<4.26	<2.91	8,680,000	----	----	----	----
U4-MW-13I	9/28/2022	N	EM01	UMCf	77.1 - 87.1	0.0 U	27.2	70.5	----	----	----	2,540,000 J+	----	----	----	----
U4-MW-13I	10/10/2022	N	EM02	UMCf	77.1 - 87.1	0.0 U	27.9	142.6	----	----	----	2,660,000	----	----	----	----
U4-MW-13I	11/3/2022	N	EM03	UMCf	77.1 - 87.1	0.0 U	20.1	119.3	----	----	----	3,340,000 J	----	----	----	----
U4-MW-13I	12/6/2022	N	EM04	UMCf	77.1 - 87.1	0.1	19.9	94.5	<4.07 UJ	<4.26 UJ	1,300	2,710,000	----	----	----	----
U4-MW-13I	1/12/2023	N	EM05	UMCf	77.1 - 87.1	0.0 U	20.1	118.8	----	----	----	1,960,000	----	----	----	----
U4-MW-13I	2/14/2023	N	EM06	UMCf	77.1 - 87.1	0.0 U	20.7	552.4	----	----	----	3,420,000	----	----	----	----
U4-MW-13I	3/16/2023	N	EM07	UMCf	77.1 - 87.1	0.0 U	19.2	114.6	<4.07	<4.26	20,300	1,550,000	----	----	----	----
U4-MW-13I	4/19/2023	N	EM08	UMCf	77.1 - 87.1	0.4	23.5	23.1	----	----	----	1,690,000	----	----	----	----
U4-MW-13I	5/17/2023	N	EM09	UMCf	77.1 - 87.1	0.4	29.7	55.5	----	----	----	1,970,000	----	----	----	----
U4-MW-13I	6/15/2023	N	EM10	UMCf	77.1 - 87.1	0.0 U	27.5	10.7	<4.07	<4.26	23,600	1,680,000	----	----	----	----
U4-MW-13I	7/12/2023	N	EM11	UMCf	77.1 - 87.1	0.0 U	35.1	121.0	----	----	----	1,580,000 J	----	----	----	----
U4-MW-13I	8/11/2023	N	EM12	UMCf	77.1 - 87.1	0 U	35.2	174.7	----	----	----	5,810,000	----	----	----	----
U4-MW-13I	9/11/2023	N	EM13	UMCf	77.1 - 87.1	0 U	34.6	44	<4.07	<4.26	9,520	7,040,000	----	----	----	----
U4-MW-13I	10/17/2023	N	EM14	UMCf	77.1 - 87.1	0 U	25.5	136.9	----	----	----	8,440,000 J-	----	----	----	----
U4-MW-13I	11/15/2023	N	EM15	UMCf	77.1 - 87.1	0 U	24.0	5951.8	----	----	----	9,010,000 J-	----	----	----	----
U4-MW-13I	12/11/2023	N	EM16	UMCf	77.1 - 87.1	0.0 U	17.1	8253.6	<4.07	<4.26	11,300	5,700,000	----	----	----	----
U4-MW-13I	1/23/2024	N	EM17	UMCf	77.1 - 87.1	0.0 U	16.1	9392.9	----	----	----	9,860,000	----	----	----	----
U4-MW-13I	2/12/2024	N	EM18	UMCf	77.1 - 87.1	0.0 U	16.8	5590.5	----	----	----	8,220,000	----	----	----	----
U4-MW-13I	3/11/2024	N	EM19	UMCf	77.1 - 87.1	0.0 U	22.1	2260.1	<4.07	<4.26	16,700	11,800,000	----	----	----	----
U4-MW-13I	6/13/2024	N	EM20	UMCf	77.1 - 87.1	0.0 U	39.7	1004.5	5.88 J	<4.26	13,000	13,700,000	----	----	----	----
U4-MW-13I	9/20/2024	N	EM21	UMCf	77.1 - 87.1	0.0 U	30.0	85.4	<3.40	<3.40	15,400	14,000,000	----	----	----	----
U4-MW-14D	4/13/2022	N	BL02	UMCf	97.3 - 107.3	0.0 U	26.5	50.4	<4.07	<4.26	<2.91	2,550,000	----	----	----	----
U4-MW-14D	12/6/2022	N	EM04	UMCf	97.3 - 107.3	0.0 U	20.7	58.1	<4.07 UJ	<4.26 UJ	<2.91 UJ	4,530,000	----	----	----	----
U4-MW-14D	3/16/2023	N	EM07	UMCf	97.3 - 107.3	0.0 U	21.8	115.4	<4.07	<4.26	15.0 J+	2,650,000	----	----	----	----
U4-MW-14D	6/15/2023	N	EM10	UMCf	97.3 - 107.3	0.0 U	30.3	59.1	<4.07	<4.26	619	2,750,000	----	----	----	----
U4-MW-14D	9/14/2023	N	EM13	UMCf	97.3 - 107.3	0 U	28.2	13.8	<4.07	<4.26	15,500	2,320,000	----	----	----	----
U4-MW-14D	12/15/2023	N	EM16	UMCf	97.3 - 107.3	0.0 U	16.0	7.9	<4.07	7.68 J	12,400	3,700,000	----	----	----	----
U4-MW-14D	3/13/2024	N	EM19	UMCf	97.3 - 107.3	0.0 U	24.3	28.7	<4.07	<4.26	4,500	3,230,000	----	----	----	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	FIELD TESTS	FIELD TESTS	FIELD TESTS	RSK175	RSK175	RSK175	SM2540C	SM2540G	SW6010B	SW6010B	SW6010B
						Sulfide	Temperature	Turbidity	Ethane	Ethene	Methane	Total Dissolved Solids	Solids, Percent	Aluminum	Calcium	Iron
						mg/L	C	NTU	µg/L	µg/L	µg/L	µg/L	Percent	µg/L	µg/L	µg/L
U4-MW-14D	6/13/2024	N	EM20	UMCf	97.3 - 107.3	0.0 U	39.8	17.8	<4.07	<4.26	4,260	2,980,000	----	----	----	----
U4-MW-14D	9/19/2024	N	EM21	UMCf	97.3 - 107.3	0.0 U	25.9	10.8	<3.40	4.25 J	4,820	2,700,000	----	----	----	----
U4-MW-14I	4/14/2022	N	BL02	UMCf	77.3 - 87.3	0.0 U	22.8	57.4	<4.07	<4.26	<2.91	3,220,000	----	----	----	----
U4-MW-14I	12/6/2022	N	EM04	UMCf	77.3 - 87.3	0.0 U	16.8	23.4	<4.07 UJ	<4.26 UJ	29.8	5,260,000	----	----	----	----
U4-MW-14I	3/16/2023	N	EM07	UMCf	77.3 - 87.3	0.0 U	21.5	-48.0	<4.07	<4.26	123 J+	3,130,000	----	----	----	----
U4-MW-14I	6/15/2023	N	EM10	UMCf	77.3 - 87.3	0.0 U	26.9	11.4	<4.07	<4.26	5,640	3,260,000	----	----	----	----
U4-MW-14I	9/14/2023	N	EM13	UMCf	77.3 - 87.3	0 U	30.5	18.8	<4.07	<4.26	12,800	2,590,000	----	----	----	----
U4-MW-14I	12/14/2023	N	EM16	UMCf	77.3 - 87.3	0.0 U	19.9	60.0	<4.07	<4.26	14,400	3,900,000 J	----	----	----	----
U4-MW-14I	3/13/2024	N	EM19	UMCf	77.3 - 87.3	0.0 U	20.9	83.5	<4.07	<4.26	13,700	3,140,000	----	----	----	----
U4-MW-14I	6/14/2024	N	EM20	UMCf	77.3 - 87.3	0.0 U	28.9	160.3	<4.07	<4.26	11,000	4,570,000	----	----	----	----
U4-MW-14I	9/19/2024	N	EM21	UMCf	77.3 - 87.3	0.0 U	28.1	12.0	<3.40	<3.40	8,600	4,860,000	----	----	----	----
U4-MW-15D	4/13/2022	N	BL02	UMCf	96.0 - 106.0	0.0 U	20.7	76.6	<4.07	<4.26	<2.91	3,490,000	----	----	----	----
U4-MW-15D	12/5/2022	N	EM04	UMCf	96.0 - 106.0	0.0 U	22.3	435.5	<4.07	<4.26	<2.91	2,880,000	----	----	----	----
U4-MW-15D	3/20/2023	N	EM07	UMCf	96.0 - 106.0	0.0 U	20.8	20.3	<4.07	<4.26	324	3,030,000	----	----	----	----
U4-MW-15D	6/14/2023	N	EM10	UMCf	96.0 - 106.0	0.0 U	26.4	119.9	<4.07	<4.26	8,050	3,680,000	----	----	----	----
U4-MW-15D	9/13/2023	N	EM13	UMCf	96.0 - 106.0	0 U	26	146.2	<4.07	<4.26	47,400	2,460,000	----	----	----	----
U4-MW-15D	12/12/2023	N	EM16	UMCf	96.0 - 106.0	0.0 U	20.1	115.4	<4.07	<4.26	32,000	2,750,000	----	----	----	----
U4-MW-15D	3/12/2024	N	EM19	UMCf	96.0 - 106.0	0.0 U	20.6	2085.0	<4.07	<4.26	41,500	3,350,000	----	----	----	----
U4-MW-15D	6/14/2024	N	EM20	UMCf	96.0 - 106.0	0.0 U	34.8	252.5	<4.07	<4.26	23,500	2,800,000	----	----	----	----
U4-MW-15D	9/24/2024	N	EM21	UMCf	96.0 - 106.0	0.0 U	26.4	105.6	<3.40	<3.40	21,000	2,270,000	----	----	----	----
U4-MW-15DD	4/13/2022	N	BL02	UMCf	120.3 - 130.3	0.0 U	18.6	82.3	<4.07	<4.26	<2.91	677,000	----	----	----	----
U4-MW-15DD	12/5/2022	N	EM04	UMCf	120.3 - 130.3	0.0 U	21.5	51.1	<4.07	<4.26	<2.91	553,000	----	----	----	----
U4-MW-15DD	3/15/2023	N	EM07	UMCf	120.3 - 130.3	0.0 U	22.2	99.0	<4.07	<4.26	<2.91	548,000	----	----	----	----
U4-MW-15DD	6/13/2023	N	EM10	UMCf	120.3 - 130.3	0.0 U	28.2	779.0	<4.07	<4.26	<2.91	589,000	----	----	----	----
U4-MW-15DD	9/14/2023	N	EM13	UMCf	120.3 - 130.3	0 U	28.1	479.8	<4.07	<4.26	<2.91	551,000	----	----	----	----
U4-MW-15DD	12/13/2023	N	EM16	UMCf	120.3 - 130.3	0.0 U	12.2	62.9	<4.07	<4.26	<2.91	517,000	----	----	----	----
U4-MW-15DD	3/12/2024	N	EM19	UMCf	120.3 - 130.3	0.0 U	18.0	62.5	<4.07	<4.26	<2.91	618,000	----	----	----	----
U4-MW-15DD	6/14/2024	N	EM20	UMCf	120.3 - 130.3	0.0 U	33.0	1022.8	<4.07	<4.26	<2.91	591,000	----	----	----	----
U4-MW-15DD	9/24/2024	N	EM21	UMCf	120.3 - 130.3	0.0 U	26.7	727.9	<3.40	<3.40	<5.10	596,000	----	----	----	----
U4-MW-15I	4/12/2022	N	BL02	UMCf	76.8 - 86.8	0.0 U	22.6	20895.7 E	<4.07	<4.26	<2.91	4,080,000	----	----	----	----
U4-MW-15I	12/5/2022	N	EM04	UMCf	76.8 - 86.8	0.0 U	23.0	137.7	<4.07	<4.26	3,490	3,130,000	----	----	----	----
U4-MW-15I	3/17/2023	N	EM07	UMCf	76.8 - 86.8	6.0	21.6	-223.4	<4.07	<4.26	10,900	3,730,000	----	----	----	----
U4-MW-15I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	0.0 U	24.3	30.1	<40.7	<42.6	21,400	2,280,000	----	----	----	----
U4-MW-15I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	0 U	27.2	308.6	<4.07	<4.26	14,600	3,370,000	----	----	----	----
U4-MW-15I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	0.0 U	21.9	181.0	<4.07	<4.26	28,400	4,190,000	----	----	----	----
U4-MW-15I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	0.0 U	21.1	118.8	<4.07	<4.26	7,250	8,110,000	----	----	----	----
U4-MW-15I	6/17/2024	N	EM20	UMCf	76.8 - 86.8	0.0 U	26.2	464.5	<4.07	<4.26	12,900	8,680,000	----	----	----	----
U4-MW-15I	9/25/2024	N	EM21	UMCf	76.8 - 86.8	0.0 U	25.7	87.1	9.50 J	<3.40	31,400	8,200,000	----	----	----	----
U4-MW-15S	4/13/2022	N	BL02	UMCf	54.8 - 64.8	0.0 U	21.5	71.7	<4.07	<4.26	<2.91	1,450,000	----	----	----	----
U4-MW-15S	12/5/2022	N	EM04	UMCf	54.8 - 64.8	0.0 U	22.0	32.2	<4.07	<4.26	20,200	1,850,000	----	----	----	----
U4-MW-15S	3/13/2023	N	EM07	UMCf	54.8 - 64.8	0.0 U	20.4	38.9	<4.07	<4.26	24,500	1,250,000	----	----	----	----
U4-MW-15S	6/13/2023	N	EM10	UMCf	54.8 - 64.8	0.0 U	32.8	2.4	<4.07	<4.26	34,800	1,600,000	----	----	----	----
U4-MW-15S	9/14/2023	N	EM13	UMCf	54.8 - 64.8	0 U	25.6	8.2	<4.07	<4.26	21,000	1,450,000	----	----	----	----
U4-MW-15S	12/11/2023	N	EM16	UMCf	54.8 - 64.8	0.0 U	20.7	8.1	<4.07	<4.26	13,000	1,320,000	----	----	----	----
U4-MW-15S	3/12/2024	N	EM19	UMCf	54.8 - 64.8	0.0 U	23.2	27.1	<4.07	<4.26	7,110	2,270,000	----	----	----	----
U4-MW-15S	3/26/2024	N	EM19	UMCf	54.8 - 64.8	0.0 U	21.9	113.5	<4.07	<4.26	17,900	1,810,000	----	----	----	----
U4-MW-15S	6/14/2024	N	EM20	UMCf	54.8 - 64.8	0.2	35.5	324.8	<4.07	<4.26	18,200	1,800,000	----	----	----	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	FIELD TESTS	FIELD TESTS	FIELD TESTS	RSK175	RSK175	RSK175	SM2540C	SM2540G	SW6010B	SW6010B	SW6010B
						Sulfide	Temperature	Turbidity	Ethane	Ethene	Methane	Total Dissolved Solids	Solids, Percent	Aluminum	Calcium	Iron
						mg/L	C	NTU	µg/L	µg/L	µg/L	µg/L	Percent	µg/L	µg/L	µg/L
U4-MW-15S	9/20/2024	N	EM21	UMCf	54.8 - 64.8	0.0 U	25.3	313.1	<3.40	<3.40	17,200	1,790,000	----	----	----	----
U4-MW-16D	4/11/2022	N	BL02	UMCf	96.8 - 106.8	0.0 U	23.7	84.8 E	<4.07	<4.26	<2.91	30,500,000	----	----	----	----
U4-MW-16D	12/5/2022	N	EM04	UMCf	96.8 - 106.8	0.0 U	21.8	84.8	<4.07	<4.26	374	13,400,000	----	----	----	----
U4-MW-16D	3/14/2023	N	EM07	UMCf	96.8 - 106.8	0.0 U	17.8	12.1	<4.07	<4.26	6,230	10,300,000	----	----	----	----
U4-MW-16D	6/13/2023	N	EM10	UMCf	96.8 - 106.8	0.0 U	25.2	34.1	<4.07	<4.26	11,800	28,600,000	----	----	----	----
U4-MW-16D	9/15/2023	N	EM13	UMCf	96.8 - 106.8	0 U	24.7	15.7	<4.07	<4.26	7,240	7,180,000 J-	----	----	----	----
U4-MW-16D	12/14/2023	N	EM16	UMCf	96.8 - 106.8	0.0 U	18.6	35.7	<4.07	<4.26	22,800	11,200,000	----	----	----	----
U4-MW-16D	3/14/2024	N	EM19	UMCf	96.8 - 106.8	0.0 U	18.4	238.5	<4.07	<4.26	17,100	10,900,000	----	----	----	----
U4-MW-16D	6/17/2024	N	EM20	UMCf	96.8 - 106.8	0.0 U	33.0	35.4	<4.07	<4.26	6,580	10,100,000 J-	----	----	----	----
U4-MW-16D	9/20/2024	N	EM21	UMCf	96.8 - 106.8	0.0 U	25.0	10.0	<3.40	<3.40	9,700	17,100,000	----	----	----	----
U4-MW-16DD	4/12/2022	N	BL02	UMCf	120.8 - 130.8	0.0 U	18.3	35.4	<4.07	<4.26	<2.91	1,940,000	----	----	----	----
U4-MW-16DD	12/5/2022	N	EM04	UMCf	120.8 - 130.8	0.0 U	21.7	18.9	<4.07	<4.26	<2.91	1,220,000	----	----	----	----
U4-MW-16DD	3/15/2023	N	EM07	UMCf	120.8 - 130.8	0.0 U	18.6	11.4	<4.07	<4.26	<2.91	1,160,000	----	----	----	----
U4-MW-16DD	6/13/2023	N	EM10	UMCf	120.8 - 130.8	0.0 U	27.3	12.0	<4.07	<4.26	55.6	1,130,000	----	----	----	----
U4-MW-16DD	9/14/2023	N	EM13	UMCf	120.8 - 130.8	0 U	28.2	14	<4.07	<4.26	<2.91	972,000 J	----	----	----	----
U4-MW-16DD	12/13/2023	N	EM16	UMCf	120.8 - 130.8	0.0 U	18.1	17.9	<4.07	<4.26	<2.91	808,000	----	----	----	----
U4-MW-16DD	3/14/2024	N	EM19	UMCf	120.8 - 130.8	0.0 U	13.8	13.7	<4.07	<4.26	<2.91	976,000	----	----	----	----
U4-MW-16DD	6/17/2024	N	EM20	UMCf	120.8 - 130.8	0.0 U	31.0	33.7	<4.07	<4.26	<2.91	916,000	----	----	----	----
U4-MW-16DD	9/19/2024	N	EM21	UMCf	120.8 - 130.8	0.0 U	25.4	35.4	<3.40	<3.40	<5.10	885,000	----	----	----	----
U4-MW-16I	4/11/2022	N	BL02	UMCf	77.0 - 87.0	0.0 U	23.5	-449448.0 E	<4.07	<4.26	<2.91	5,220,000	----	----	----	----
U4-MW-16I	12/5/2022	N	EM04	UMCf	77.0 - 87.0	0.5	22.2	5.3	<4.07	<4.26	2,930	2,120,000	----	----	----	----
U4-MW-16I	12/5/2022	FD	EM04	UMCf	77.0 - 87.0	----	----	----	<4.07	<4.26	3,090	2,000,000	----	----	----	----
U4-MW-16I	3/13/2023	N	EM07	UMCf	77.0 - 87.0	----	20.6	5.3	<4.07	<4.26	28,900	2,930,000	----	----	----	----
U4-MW-16I	3/13/2023	FD	EM07	UMCf	77.0 - 87.0	----	----	----	<4.07	<4.26	26,500	2,980,000	----	----	----	----
U4-MW-16I	6/12/2023	N	EM10	UMCf	77.0 - 87.0	0.1	25.4	12.6	<4.07	<4.26	34,000	2,200,000 J	----	----	----	----
U4-MW-16I	6/12/2023	FD	EM10	UMCf	77.0 - 87.0	----	----	----	<4.07	<4.26	32,700	2,130,000 J	----	----	----	----
U4-MW-16I	9/11/2023	N	EM13	UMCf	77.0 - 87.0	0 U	26.2	38.9	<4.07	<4.26	22,900	15,900,000	----	----	----	----
U4-MW-16I	9/11/2023	FD	EM13	UMCf	77.0 - 87.0	----	----	----	<4.07	<4.26	22,500	13,200,000	----	----	----	----
U4-MW-16I	12/11/2023	N	EM16	UMCf	77.0 - 87.0	0.0 U	23.3	78.6	<4.07	<4.26	19,700	8,980,000	----	----	----	----
U4-MW-16I	12/11/2023	FD	EM16	UMCf	77.0 - 87.0	----	----	----	<4.07	<4.26	16,500	12,100,000	----	----	----	----
U4-MW-16I	3/11/2024	N	EM19	UMCf	77.0 - 87.0	0.0 U	20.5	110.7	<4.07	<4.26	13,500	19,000,000	----	----	----	----
U4-MW-16I	3/11/2024	FD	EM19	UMCf	77.0 - 87.0	----	----	----	<4.07	<4.26	14,600	18,800,000	----	----	----	----
U4-MW-16I	6/18/2024	N	EM20	UMCf	77.0 - 87.0	0.0 U	26.6	40.1	<4.07	<4.26	16,700	9,600,000	----	----	----	----
U4-MW-16I	6/18/2024	FD	EM20	UMCf	77.0 - 87.0	----	----	----	<4.07	<4.26	14,300	9,760,000	----	----	----	----
U4-MW-16I	9/19/2024	N	EM21	UMCf	77.0 - 87.0	0.0 U	25.9	-8.6	<3.40	<3.40	14,300	16,000,000	----	----	----	----
U4-MW-16I	9/19/2024	FD	EM21	UMCf	77.0 - 87.0	----	----	----	<3.40	<3.40	14,900	16,000,000	----	----	----	----
U4-MW-16S	4/12/2022	N	BL02	UMCf	54.8 - 64.8	0.0 U	22.3	-8.5	<4.07	8.07 J	19.8	1,990,000	----	----	----	----
U4-MW-16S	4/12/2022	FD	BL02	UMCf	54.8 - 64.8	----	----	----	<4.07	<4.26	<2.91	2,000,000	----	----	----	----
U4-MW-16S	12/6/2022	N	EM04	UMCf	54.8 - 64.8	0.0 U	22.5	35.4	<4.07 UJ	<4.26 UJ	134	1,630,000	----	----	----	----
U4-MW-16S	3/15/2023	N	EM07	UMCf	54.8 - 64.8	0.4	20.5	74.4	<4.07	<4.26	26,300	3,050,000	----	----	----	----
U4-MW-16S	6/13/2023	N	EM10	UMCf	54.8 - 64.8	0.6	25.3	87.7	<4.07	<4.26	25,200	3,330,000	----	----	----	----
U4-MW-16S	9/11/2023	N	EM13	UMCf	54.8 - 64.8	2.5	27.8	60.4	<4.07	<4.26	25,400	1,400,000 J	----	----	----	----
U4-MW-16S	12/11/2023	N	EM16	UMCf	54.8 - 64.8	0.0 U	23.7	70.8	<4.07	<4.26	23,500	1,310,000	----	----	----	----
U4-MW-16S	3/11/2024	N	EM19	UMCf	54.8 - 64.8	5.0	21.9	238.8	<4.07	<4.26	16,500	2,360,000	----	----	----	----
U4-MW-16S	6/17/2024	N	EM20	UMCf	54.8 - 64.8	0.1	28.9	27.8	<4.07	<4.26	21,700	1,520,000	----	----	----	----
U4-MW-16S	9/20/2024	N	EM21	UMCf	54.8 - 64.8	0.0 U	24.8	16.4	<3.40	<3.40	24,100	1,230,000	----	----	----	----
U4-SLMW	11/10/2022	N	EM03	-	-	----	----	----	----	----	----	588,000	----	----	----	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	FIELD TESTS	FIELD TESTS	FIELD TESTS	RSK175	RSK175	RSK175	SM2540C	SM2540G	SW6010B	SW6010B	SW6010B
						Sulfide	Temperature	Turbidity	Ethane	Ethene	Methane	Total Dissolved Solids	Solids, Percent	Aluminum	Calcium	Iron
						mg/L	C	NTU	µg/L	µg/L	µg/L	µg/L	Percent	µg/L	µg/L	µg/L
U4-T3	10/13/2022	N	EM02	-	-	----	----	----	----	----	----	16,100,000 J-	----	----	----	----
U4-T3	11/3/2022	N	EM03	-	-	----	20.4	169.1	----	----	----	15,400,000	----	----	----	----
U4-T3	12/6/2022	N	EM04	-	-	----	21.4	30.1	----	----	----	12,600,000	----	----	----	----
U4-T3	1/9/2023	N	EM05	-	-	----	19.9	0.0	----	----	----	12,200,000	----	----	----	----
U4-T3	2/13/2023	N	EM06	-	-	----	23.6	3.3	----	----	----	13,200,000	----	----	----	----
U4-T3	3/13/2023	N	EM07	-	-	----	23.5	1.9	----	----	----	11,700,000	----	----	----	----
U4-T3	4/19/2023	N	EM08	-	-	----	22.6	3.7	----	----	----	7,080,000	----	----	----	----
U4-T3	5/18/2023	N	EM09	-	-	----	30.9	5.5	----	----	----	10,800,000	----	----	----	----
U4-T3	6/12/2023	N	EM10	-	-	----	33.8	1.9	----	----	----	9,060,000	----	----	----	----
U4-T3	7/11/2023	N	EM11	-	-	----	35.0	111.4	----	----	----	9,260,000 J-	----	----	----	----
U4-T3	8/10/2023	N	EM12	-	-	----	36.3	38.6	----	----	----	3,850,000	----	----	----	----
U4-T3	9/11/2023	N	EM13	-	-	----	29.2	95.4	----	----	----	6,800,000	----	----	----	----
U4-T3	10/16/2023	N	EM14	-	-	----	36.5	45.8	----	----	----	3,840,000 J-	----	----	----	----

Notes:
FD - Field duplicate
E - Field instrument error.
J - The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J- - The result is an estimated quantity, but the result may be biased low.
J+ - The result is an estimated quantity, but the result may be biased high.
N/A - Not Applicable
mg/L - milligrams per liter
µg/L - micrograms per liter
N - Normal field sample

R - The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

UMCf- Upper Muddy Creek Formation
< - The analyte was analyzed for, but was not detected above the level of the reported
-- Not tested.
U4-E-08D has been abandoned.
M-252 damaged/obstructed when checked on June 14, 2023 and September 14, 2023.
U4-MW-08S and U4-MW-15S were purged and resampled for EM19 on March 25-26, 2024; Original EM19 samples were collected via bailer due to well condition.
Lab was unable to analyze and report TDS for samples L1782240-20 (U4-E-09I-EM21) and -21 (U4-E-09I-EM21-FD) due to the thickness of the sample matrix.

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	SW6010B Magnesium µg/L	SW6010B Manganese µg/L	SW6010B Potassium µg/L	SW6010B Sodium µg/L	SW6020 Antimony µg/L	SW6020 Arsenic µg/L	SW6020 Barium µg/L	SW6020 Beryllium µg/L	SW6020 Cadmium µg/L	SW6020 Chromium µg/L	SW6020 Cobalt µg/L
M-247-100	4/20/2022	N	BL02	UMCf	100.5 - 110.5	----	----	----	----	----	----	----	----	----	----	----
M-249-100	4/20/2022	N	BL02	UMCf	99.6 - 109.6	----	----	----	----	----	----	----	----	----	----	----
M-251-100	4/19/2022	N	BL02	UMCf	92.5 - 102.5	----	----	----	----	----	----	----	----	----	----	----
M-251-100	10/13/2022	N	EM02	UMCf	92.5 - 102.5	----	----	----	----	----	----	----	----	----	----	----
M-251-100	11/2/2022	N	EM03	UMCf	92.5 - 102.5	----	----	----	----	----	----	----	----	----	----	----
M-251-100	12/8/2022	N	EM04	UMCf	92.5 - 102.5	----	----	----	----	----	----	----	----	----	----	----
M-251-100	1/11/2023	N	EM05	UMCf	92.5 - 102.5	----	----	----	----	----	----	----	----	----	----	----
M-251-100	2/13/2023	N	EM06	UMCf	92.5 - 102.5	----	----	----	----	----	----	----	----	----	----	----
M-251-100	3/17/2023	N	EM07	UMCf	92.5 - 102.5	----	----	----	----	----	----	----	----	----	----	----
M-251-100	4/21/2023	N	EM08	UMCf	92.5 - 102.5	----	----	----	----	----	----	----	----	----	----	----
M-251-100	5/9/2023	N	EM09	UMCf	92.5 - 102.5	----	----	----	----	----	----	----	----	----	----	----
M-251-100	6/14/2023	N	EM10	UMCf	92.5 - 102.5	----	----	----	----	----	----	----	----	----	----	----
M-251-100	7/14/2023	N	EM11	UMCf	92.5 - 102.5	----	----	----	----	----	----	----	----	----	----	----
M-251-100	8/10/2023	N	EM12	UMCf	92.5 - 102.5	----	----	----	----	----	----	----	----	----	----	----
M-251-100	9/14/2023	N	EM13	UMCf	92.5 - 102.5	----	----	----	----	----	----	----	----	----	----	----
M-251-100	10/19/2023	N	EM14	UMCf	92.5 - 102.5	----	----	----	----	----	----	----	----	----	----	----
M-251-100	11/16/2023	N	EM15	UMCf	92.5 - 102.5	----	----	----	----	----	----	----	----	----	----	----
M-251-100	12/12/2023	N	EM16	UMCf	92.5 - 102.5	----	----	----	----	----	----	----	----	----	----	----
M-251-100	1/25/2024	N	EM17	UMCf	92.5 - 102.5	----	----	----	----	----	----	----	----	----	----	----
M-251-100	2/13/2024	N	EM18	UMCf	92.5 - 102.5	----	----	----	----	----	----	----	----	----	----	----
M-251-100	3/11/2024	N	EM19	UMCf	92.5 - 102.5	----	----	----	----	----	----	----	----	----	----	----
M-251-100	6/17/2024	N	EM20	UMCf	92.5 - 102.5	----	----	----	----	----	----	----	----	----	----	----
M-251-100	9/23/2024	N	EM21	UMCf	92.5 - 102.5	----	----	----	----	----	----	----	----	----	----	----
M-251-60	4/18/2022	N	BL02	UMCf	52.3 - 62.3	----	----	----	----	----	----	----	----	----	----	----
M-251-60	3/15/2023	N	EM07	UMCf	52.3 - 62.3	----	----	----	----	----	----	----	----	----	----	----
M-251-60	6/14/2023	N	EM10	UMCf	52.3 - 62.3	----	----	----	----	----	----	----	----	----	----	----
M-251-60	9/14/2023	N	EM13	UMCf	52.3 - 62.3	----	----	----	----	----	----	----	----	----	----	----
M-251-60	12/11/2023	N	EM16	UMCf	52.3 - 62.3	----	----	----	----	----	----	----	----	----	----	----
M-251-60	3/12/2024	N	EM19	UMCf	52.3 - 62.3	----	----	----	----	----	----	----	----	----	----	----
M-251-60	6/19/2024	N	EM20	UMCf	52.3 - 62.3	----	----	----	----	----	----	----	----	----	----	----
M-251-60	9/20/2024	N	EM21	UMCf	52.3 - 62.3	----	----	----	----	----	----	----	----	----	----	----
M-252	4/21/2022	N	BL02	UMCf	132.3 - 142.3	----	----	----	----	----	----	----	----	----	----	----
M-252	3/15/2023	N	EM07	UMCf	132.3 - 142.3	----	----	----	----	----	----	----	----	----	----	----
M-252	9/19/2023	N	EM13	UMCf	132.3 - 142.3	----	----	----	----	----	----	----	----	----	----	----
M-252	12/18/2023	N	EM16	UMCf	132.3 - 142.3	----	----	----	----	----	----	----	----	----	----	----
M-252	3/12/2024	N	EM19	UMCf	132.3 - 142.3	----	----	----	----	----	----	----	----	----	----	----
M-252	6/19/2024	N	EM20	UMCf	132.3 - 142.3	----	----	----	----	----	----	----	----	----	----	----
M-252	9/24/2024	N	EM21	UMCf	132.3 - 142.3	----	----	----	----	----	----	----	----	----	----	----
M-253-100	4/20/2022	N	BL02	UMCf	100.8 - 110.8	----	----	----	----	----	----	----	----	----	----	----
M-255-100	4/20/2022	N	BL02	UMCf	100.2 - 110.2	----	----	----	----	----	----	----	----	----	----	----
U4-E-01D	4/18/2022	N	BL02	UMCf	94.7 - 109.7	----	----	----	----	----	----	----	----	----	----	----
U4-E-01D	3/14/2023	N	EM07	UMCf	94.7 - 109.7	----	----	----	----	----	----	----	----	----	----	----
U4-E-01D	6/20/2024	N	EM20	UMCf	94.7 - 109.7	----	----	----	----	----	----	----	----	----	----	----
U4-E-01D	9/25/2024	N	EM21	UMCf	94.7 - 109.7	----	----	----	----	----	----	----	----	----	----	----
U4-E-01I	4/19/2022	N	BL02	UMCf	74.6 - 89.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-01I	4/19/2022	FD	BL02	UMCf	74.6 - 89.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-01I	3/14/2023	N	EM07	UMCf	74.6 - 89.6	----	----	----	----	----	----	----	----	----	----	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	SW6010B Magnesium µg/L	SW6010B Manganese µg/L	SW6010B Potassium µg/L	SW6010B Sodium µg/L	SW6020 Antimony µg/L	SW6020 Arsenic µg/L	SW6020 Barium µg/L	SW6020 Beryllium µg/L	SW6020 Cadmium µg/L	SW6020 Chromium µg/L	SW6020 Cobalt µg/L
U4-E-01I	4/20/2023	N	EM08	UMCf	74.6 - 89.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-01I	5/10/2023	N	EM09	UMCf	74.6 - 89.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-01I	6/12/2023	N	EM10	UMCf	74.6 - 89.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-01I	7/11/2023	N	EM11	UMCf	74.6 - 89.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-01I	8/10/2023	N	EM12	UMCf	74.6 - 89.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-01I	9/11/2023	N	EM13	UMCf	74.6 - 89.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-01I	10/16/2023	N	EM14	UMCf	74.6 - 89.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-01I	12/13/2023	N	EM16	UMCf	74.6 - 89.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-01I	1/24/2024	N	EM17	UMCf	74.6 - 89.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-01I	2/14/2024	N	EM18	UMCf	74.6 - 89.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-01I	3/12/2024	N	EM19	UMCf	74.6 - 89.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-01I	6/20/2024	N	EM20	UMCf	74.6 - 89.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-01I	9/25/2024	N	EM21	UMCf	74.6 - 89.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-02D	4/20/2022	N	BL02	UMCf	94.4 - 109.4	----	----	----	----	----	----	----	----	----	----	----
U4-E-02D	3/14/2023	N	EM07	UMCf	94.4 - 109.4	----	----	----	----	----	----	----	----	----	----	----
U4-E-02D	6/19/2024	N	EM20	UMCf	94.4 - 109.4	----	----	----	----	----	----	----	----	----	----	----
U4-E-02D	9/27/2024	N	EM21	UMCf	94.4 - 109.4	----	----	----	----	----	----	----	----	----	----	----
U4-E-02I	4/18/2022	N	BL02	UMCf	74.4 - 89.4	----	----	----	----	----	----	----	----	----	----	----
U4-E-02I	3/14/2023	N	EM07	UMCf	74.4 - 89.4	----	----	----	----	----	----	----	----	----	----	----
U4-E-02I	4/20/2023	N	EM08	UMCf	74.4 - 89.4	----	----	----	----	----	----	----	----	----	----	----
U4-E-02I	5/11/2023	N	EM09	UMCf	74.4 - 89.4	----	----	----	----	----	----	----	----	----	----	----
U4-E-02I	6/12/2023	N	EM10	UMCf	74.4 - 89.4	----	----	----	----	----	----	----	----	----	----	----
U4-E-02I	7/11/2023	N	EM11	UMCf	74.4 - 89.4	----	----	----	----	----	----	----	----	----	----	----
U4-E-02I	8/10/2023	N	EM12	UMCf	74.4 - 89.4	----	----	----	----	----	----	----	----	----	----	----
U4-E-02I	9/11/2023	N	EM13	UMCf	74.4 - 89.4	----	----	----	----	----	----	----	----	----	----	----
U4-E-02I	10/16/2023	N	EM14	UMCf	74.4 - 89.4	----	----	----	----	----	----	----	----	----	----	----
U4-E-02I	12/14/2023	N	EM16	UMCf	74.4 - 89.4	----	----	----	----	----	----	----	----	----	----	----
U4-E-02I	1/22/2024	N	EM17	UMCf	74.4 - 89.4	----	----	----	----	----	----	----	----	----	----	----
U4-E-02I	2/13/2024	N	EM18	UMCf	74.4 - 89.4	----	----	----	----	----	----	----	----	----	----	----
U4-E-02I	3/13/2024	N	EM19	UMCf	74.4 - 89.4	----	----	----	----	----	----	----	----	----	----	----
U4-E-02I	6/19/2024	N	EM20	UMCf	74.4 - 89.4	----	----	----	----	----	----	----	----	----	----	----
U4-E-02I	9/24/2024	N	EM21	UMCf	74.4 - 89.4	----	----	----	----	----	----	----	----	----	----	----
U4-E-03D	4/19/2022	N	BL02	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	----
U4-E-03D	10/13/2022	N	EM02	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	----
U4-E-03D	11/3/2022	N	EM03	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	----
U4-E-03D	12/6/2022	N	EM04	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	----
U4-E-03D	1/9/2023	N	EM05	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	----
U4-E-03D	2/13/2023	N	EM06	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	----
U4-E-03D	3/13/2023	N	EM07	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	----
U4-E-03D	3/14/2023	N	EM07	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	----
U4-E-03D	4/19/2023	N	EM08	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	----
U4-E-03D	5/11/2023	N	EM09	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	----
U4-E-03D	6/12/2023	N	EM10	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	----
U4-E-03D	7/11/2023	N	EM11	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	----
U4-E-03D	8/10/2023	N	EM12	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	----
U4-E-03D	9/11/2023	N	EM13	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	----
U4-E-03D	10/16/2023	N	EM14	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	SW6010B Magnesium µg/L	SW6010B Manganese µg/L	SW6010B Potassium µg/L	SW6010B Sodium µg/L	SW6020 Antimony µg/L	SW6020 Arsenic µg/L	SW6020 Barium µg/L	SW6020 Beryllium µg/L	SW6020 Cadmium µg/L	SW6020 Chromium µg/L	SW6020 Cobalt µg/L
U4-E-03D	6/10/2024	N	EM20	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	----
U4-E-03D	6/10/2024	FD	EM20	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	----
U4-E-03D	9/27/2024	N	EM21	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	----
U4-E-03D	9/27/2024	FD	EM21	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	----
U4-E-04D	4/19/2022	N	BL02	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	----
U4-E-04D	3/14/2023	N	EM07	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	----
U4-E-04D	6/20/2024	N	EM20	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	----
U4-E-04D	9/26/2024	N	EM21	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	----
U4-E-04I	4/18/2022	N	BL02	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-E-04I	3/14/2023	N	EM07	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-E-04I	6/20/2024	N	EM20	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-E-04I	9/26/2024	N	EM21	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-E-05D	4/19/2022	N	BL02	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	----
U4-E-05D	3/16/2023	N	EM07	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	----
U4-E-05D	6/10/2024	N	EM20	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	----
U4-E-05D	9/27/2024	N	EM21	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	----
U4-E-05I	4/19/2022	N	BL02	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-E-05I	3/15/2023	N	EM07	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-E-05I	6/19/2024	N	EM20	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-E-05I	9/27/2024	N	EM21	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-E-06D	4/11/2022	N	BL02	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	----
U4-E-06D	6/20/2024	N	EM20	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	----
U4-E-06D	9/27/2024	N	EM21	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	----
U4-E-06I	4/11/2022	N	BL02	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	----
U4-E-06I	4/11/2022	FD	BL02	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	----
U4-E-06I	10/12/2022	N	EM02	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	----
U4-E-06I	11/3/2022	N	EM03	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	----
U4-E-06I	12/6/2022	N	EM04	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	----
U4-E-06I	1/9/2023	N	EM05	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	----
U4-E-06I	2/13/2023	N	EM06	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	----
U4-E-06I	3/13/2023	N	EM07	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	----
U4-E-06I	4/17/2023	N	EM08	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	----
U4-E-06I	5/15/2023	N	EM09	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	----
U4-E-06I	6/12/2023	N	EM10	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	----
U4-E-06I	7/11/2023	N	EM11	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	----
U4-E-06I	8/11/2023	N	EM12	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	----
U4-E-06I	9/11/2023	N	EM13	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	----
U4-E-06I	10/16/2023	N	EM14	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	----
U4-E-06I	12/13/2023	N	EM16	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	----
U4-E-06I	1/22/2024	N	EM17	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	----
U4-E-06I	2/13/2024	N	EM18	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	----
U4-E-06I	3/11/2024	N	EM19	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	----
U4-E-06I	6/11/2024	N	EM20	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	----
U4-E-06I	9/27/2024	N	EM21	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	----
U4-E-07D	4/12/2022	N	BL02	UMCf	94.6 - 109.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-07D	6/20/2024	N	EM20	UMCf	94.6 - 109.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-07D	9/26/2024	N	EM21	UMCf	94.6 - 109.6	----	----	----	----	----	----	----	----	----	----	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	SW6010B	SW6010B	SW6010B	SW6010B	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020
						Magnesium	Manganese	Potassium	Sodium	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-E-07I	4/12/2022	N	BL02	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	----
U4-E-07I	10/11/2022	N	EM02	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	----
U4-E-07I	11/3/2022	N	EM03	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	----
U4-E-07I	12/6/2022	N	EM04	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	----
U4-E-07I	1/9/2023	N	EM05	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	----
U4-E-07I	2/13/2023	N	EM06	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	----
U4-E-07I	3/13/2023	N	EM07	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	----
U4-E-07I	4/19/2023	N	EM08	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	----
U4-E-07I	5/15/2023	N	EM09	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	----
U4-E-07I	6/12/2023	N	EM10	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	----
U4-E-07I	7/11/2023	N	EM11	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	----
U4-E-07I	8/11/2023	N	EM12	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	----
U4-E-07I	9/11/2023	N	EM13	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	----
U4-E-07I	10/16/2023	N	EM14	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	----
U4-E-07I	12/13/2023	N	EM16	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	----
U4-E-07I	1/23/2024	N	EM17	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	----
U4-E-07I	2/13/2024	N	EM18	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	----
U4-E-07I	3/11/2024	N	EM19	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	----
U4-E-07I	6/11/2024	N	EM20	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	----
U4-E-07I	9/26/2024	N	EM21	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	----
U4-E-08D	4/12/2022	N	BL02	UMCf	94.6 - 109.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-08D	10/11/2022	N	EM02	UMCf	94.6 - 109.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-08D	11/3/2022	N	EM03	UMCf	94.6 - 109.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-08D	12/6/2022	N	EM04	UMCf	94.6 - 109.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-08D	1/9/2023	N	EM05	UMCf	94.6 - 109.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-08D	2/13/2023	N	EM06	UMCf	94.6 - 109.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-08D	3/13/2023	N	EM07	UMCf	94.6 - 109.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-08D	4/19/2023	N	EM08	UMCf	94.6 - 109.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-08D	5/17/2023	N	EM09	UMCf	94.6 - 109.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-08D	6/12/2023	N	EM10	UMCf	94.6 - 109.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-08D	7/11/2023	N	EM11	UMCf	94.6 - 109.6	----	----	----	----	----	----	----	----	----	----	----
U4-E-09D	4/15/2022	N	BL02	UMCf	94.5 - 109.5	----	----	----	----	----	----	----	----	----	----	----
U4-E-09D	6/10/2024	N	EM20	UMCf	94.5 - 109.5	----	----	----	----	----	----	----	----	----	----	----
U4-E-09D	9/27/2024	N	EM21	UMCf	94.5 - 109.5	----	----	----	----	----	----	----	----	----	----	----
U4-E-09I	4/14/2022	N	BL02	UMCf	74.9 - 89.9	----	----	----	----	----	----	----	----	----	----	----
U4-E-09I	6/10/2024	N	EM20	UMCf	74.9 - 89.9	----	----	----	----	----	----	----	----	----	----	----
U4-E-09I	6/10/2024	FD	EM20	UMCf	74.9 - 89.9	----	----	----	----	----	----	----	----	----	----	----
U4-E-09I	9/26/2024	N	EM21	UMCf	74.9 - 89.9	456,000 J-	423 J-	340,000 J-	767,000 J-	<9.27 UJ	128 J-	29.5 J-	<1.71 UJ	<1.35 UJ	175 J	38.3 J-
U4-E-09I	9/26/2024	FD	EM21	UMCf	74.9 - 89.9	417,000 J-	392 J-	315,000 J-	707,000 J-	<9.27 UJ	95.0 J-	22.6 J-	<1.71 UJ	<1.35 UJ	129 J	29.0 J-
U4-E-10D	4/13/2022	N	BL02	UMCf	94.5 - 109.5	----	----	----	----	----	----	----	----	----	----	----
U4-E-10D	6/19/2024	N	EM20	UMCf	94.5 - 109.5	----	----	----	----	----	----	----	----	----	----	----
U4-E-10D	9/25/2024	N	EM21	UMCf	94.5 - 109.5	----	----	----	----	----	----	----	----	----	----	----
U4-E-10I	4/13/2022	N	BL02	UMCf	74.2 - 89.2	----	----	----	----	----	----	----	----	----	----	----
U4-E-10I	6/11/2024	N	EM20	UMCf	74.2 - 89.2	----	----	----	----	----	----	----	----	----	----	----
U4-E-10I	9/26/2024	N	EM21	UMCf	74.2 - 89.2	615,000 J-	1,480 J-	293,000 J-	917,000 J-	<9.27 UJ	152 J-	224 J-	<1.71 UJ	<1.35 UJ	258 J-	12.5 J
U4-MW-01D	4/19/2022	N	BL02	UMCf	96.7 - 106.7	----	----	----	----	----	----	----	----	----	----	----
U4-MW-01D	2/16/2023	N	EM06	UMCf	96.7 - 106.7	----	----	----	----	----	----	----	----	----	----	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	SW6010B	SW6010B	SW6010B	SW6010B	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020
						Magnesium	Manganese	Potassium	Sodium	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-01D	3/20/2023	N	EM07	UMCf	96.7 - 106.7	----	----	----	----	----	----	----	----	----	----	----
U4-MW-01D	6/13/2023	N	EM10	UMCf	96.7 - 106.7	----	----	----	----	----	----	----	----	----	----	----
U4-MW-01D	9/14/2023	N	EM13	UMCf	96.7 - 106.7	----	----	----	----	----	----	----	----	----	----	----
U4-MW-01D	12/14/2023	N	EM16	UMCf	96.7 - 106.7	----	----	----	----	----	----	----	----	----	----	----
U4-MW-01D	3/13/2024	N	EM19	UMCf	96.7 - 106.7	----	----	----	----	----	----	----	----	----	----	----
U4-MW-01D	6/18/2024	N	EM20	UMCf	96.7 - 106.7	----	----	----	----	----	----	----	----	----	----	----
U4-MW-01D	9/19/2024	N	EM21	UMCf	96.7 - 106.7	----	----	----	----	----	----	----	----	----	----	----
U4-MW-01DD	4/19/2022	N	BL02	UMCf	119.9 - 129.9	----	----	----	----	----	----	----	----	----	----	----
U4-MW-01DD	4/19/2022	FD	BL02	UMCf	119.9 - 129.9	----	----	----	----	----	----	----	----	----	----	----
U4-MW-01DD	3/15/2023	N	EM07	UMCf	119.9 - 129.9	----	----	----	----	----	----	----	----	----	----	----
U4-MW-01DD	6/13/2023	N	EM10	UMCf	119.9 - 129.9	----	----	----	----	----	----	----	----	----	----	----
U4-MW-01DD	9/14/2023	N	EM13	UMCf	119.9 - 129.9	----	----	----	----	----	----	----	----	----	----	----
U4-MW-01DD	12/15/2023	N	EM16	UMCf	119.9 - 129.9	----	----	----	----	----	----	----	----	----	----	----
U4-MW-01DD	3/12/2024	N	EM19	UMCf	119.9 - 129.9	----	----	----	----	----	----	----	----	----	----	----
U4-MW-01DD	6/18/2024	N	EM20	UMCf	119.9 - 129.9	----	----	----	----	----	----	----	----	----	----	----
U4-MW-01DD	9/20/2024	N	EM21	UMCf	119.9 - 129.9	----	----	----	----	----	----	----	----	----	----	----
U4-MW-01I	4/19/2022	N	BL02	UMCf	76.7 - 86.7	----	----	----	----	----	----	----	----	----	----	----
U4-MW-01I	3/20/2023	N	EM07	UMCf	76.7 - 86.7	----	----	----	----	----	----	----	----	----	----	----
U4-MW-01I	6/12/2023	N	EM10	UMCf	76.7 - 86.7	----	----	----	----	----	----	----	----	----	----	----
U4-MW-01I	9/14/2023	N	EM13	UMCf	76.7 - 86.7	----	----	----	----	----	----	----	----	----	----	----
U4-MW-01I	12/15/2023	N	EM16	UMCf	76.7 - 86.7	----	----	----	----	----	----	----	----	----	----	----
U4-MW-01I	3/13/2024	N	EM19	UMCf	76.7 - 86.7	----	----	----	----	----	----	----	----	----	----	----
U4-MW-01I	6/18/2024	N	EM20	UMCf	76.7 - 86.7	----	----	----	----	----	----	----	----	----	----	----
U4-MW-01I	9/19/2024	N	EM21	UMCf	76.7 - 86.7	----	----	----	----	----	----	----	----	----	----	----
U4-MW-01S	4/18/2022	N	BL02	UMCf	54.7 - 64.7	----	----	----	----	----	----	----	----	----	----	----
U4-MW-01S	3/15/2023	N	EM07	UMCf	54.7 - 64.7	----	----	----	----	----	----	----	----	----	----	----
U4-MW-01S	6/13/2023	N	EM10	UMCf	54.7 - 64.7	----	----	----	----	----	----	----	----	----	----	----
U4-MW-01S	9/15/2023	N	EM13	UMCf	54.7 - 64.7	----	----	----	----	----	----	----	----	----	----	----
U4-MW-01S	12/13/2023	N	EM16	UMCf	54.7 - 64.7	----	----	----	----	----	----	----	----	----	----	----
U4-MW-01S	3/13/2024	N	EM19	UMCf	54.7 - 64.7	----	----	----	----	----	----	----	----	----	----	----
U4-MW-01S	6/18/2024	N	EM20	UMCf	54.7 - 64.7	----	----	----	----	----	----	----	----	----	----	----
U4-MW-01S	9/20/2024	N	EM21	UMCf	54.7 - 64.7	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02D	4/14/2022	N	BL02	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02D	10/11/2022	N	EM02	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02D	11/1/2022	N	EM03	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02D	12/7/2022	N	EM04	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02D	1/10/2023	N	EM05	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02D	2/13/2023	N	EM06	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02D	3/17/2023	N	EM07	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02D	4/19/2023	N	EM08	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02D	5/9/2023	N	EM09	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02D	6/13/2023	N	EM10	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02D	7/18/2023	N	EM11	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02D	8/14/2023	N	EM12	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02D	9/11/2023	N	EM13	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02D	10/19/2023	N	EM14	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02D	11/15/2023	N	EM15	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	SW6010B Magnesium µg/L	SW6010B Manganese µg/L	SW6010B Potassium µg/L	SW6010B Sodium µg/L	SW6020 Antimony µg/L	SW6020 Arsenic µg/L	SW6020 Barium µg/L	SW6020 Beryllium µg/L	SW6020 Cadmium µg/L	SW6020 Chromium µg/L	SW6020 Cobalt µg/L
U4-MW-02D	12/14/2023	N	EM16	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02D	1/25/2024	N	EM17	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02D	2/12/2024	N	EM18	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02D	3/13/2024	N	EM19	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02D	6/17/2024	N	EM20	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02D	9/23/2024	N	EM21	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	4/14/2022	N	BL02	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	10/11/2022	N	EM02	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	11/2/2022	N	EM03	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	11/2/2022	FD	EM03	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	12/8/2022	N	EM04	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	12/8/2022	FD	EM04	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	1/13/2023	N	EM05	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	1/13/2023	FD	EM05	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	2/15/2023	N	EM06	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	2/15/2023	FD	EM06	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	3/17/2023	N	EM07	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	3/17/2023	FD	EM07	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	4/20/2023	N	EM08	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	4/20/2023	FD	EM08	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	5/9/2023	N	EM09	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	5/9/2023	FD	EM09	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	6/12/2023	N	EM10	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	6/12/2023	FD	EM10	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	7/18/2023	N	EM11	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	7/18/2023	FD	EM11	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	8/11/2023	N	EM12	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	8/11/2023	FD	EM12	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	9/11/2023	N	EM13	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	9/11/2023	FD	EM13	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	10/19/2023	N	EM14	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	10/19/2023	FD	EM14	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	11/15/2023	N	EM15	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	11/15/2023	FD	EM15	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	12/14/2023	N	EM16	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	12/14/2023	FD	EM16	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	1/25/2024	N	EM17	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	1/25/2024	FD	EM17	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	2/12/2024	N	EM18	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	2/12/2024	FD	EM18	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	3/13/2024	N	EM19	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	3/13/2024	FD	EM19	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	6/17/2024	N	EM20	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	6/17/2024	FD	EM20	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	9/23/2024	N	EM21	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	9/23/2024	FD	EM21	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-03D	4/20/2022	N	BL02	UMCf	96.6 - 106.6	----	----	----	----	----	----	----	----	----	----	----

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Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	SW6010B	SW6010B	SW6010B	SW6010B	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020
						Magnesium	Manganese	Potassium	Sodium	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-03D	2/16/2023	N	EM06	UMCf	96.6 - 106.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-03D	3/16/2023	N	EM07	UMCf	96.6 - 106.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-03D	3/16/2023	FD	EM07	UMCf	96.6 - 106.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-03D	6/15/2023	N	EM10	UMCf	96.6 - 106.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-03D	9/14/2023	N	EM13	UMCf	96.6 - 106.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-03D	12/13/2023	N	EM16	UMCf	96.6 - 106.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-03D	3/15/2024	N	EM19	UMCf	96.6 - 106.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-03D	6/17/2024	N	EM20	UMCf	96.6 - 106.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-03D	9/18/2024	N	EM21	UMCf	96.6 - 106.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-03DD	4/20/2022	N	BL02	UMCf	119.7 - 129.7	----	----	----	----	----	----	----	----	----	----	----
U4-MW-03DD	3/15/2023	N	EM07	UMCf	119.7 - 129.7	----	----	----	----	----	----	----	----	----	----	----
U4-MW-03DD	6/15/2023	N	EM10	UMCf	119.7 - 129.7	----	----	----	----	----	----	----	----	----	----	----
U4-MW-03DD	9/14/2023	N	EM13	UMCf	119.7 - 129.7	----	----	----	----	----	----	----	----	----	----	----
U4-MW-03DD	12/14/2023	N	EM16	UMCf	119.7 - 129.7	----	----	----	----	----	----	----	----	----	----	----
U4-MW-03DD	3/14/2024	N	EM19	UMCf	119.7 - 129.7	----	----	----	----	----	----	----	----	----	----	----
U4-MW-03DD	6/17/2024	N	EM20	UMCf	119.7 - 129.7	----	----	----	----	----	----	----	----	----	----	----
U4-MW-03DD	9/18/2024	N	EM21	UMCf	119.7 - 129.7	----	----	----	----	----	----	----	----	----	----	----
U4-MW-03I	4/19/2022	N	BL02	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-03I	3/15/2023	N	EM07	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-03I	6/14/2023	N	EM10	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-03I	6/14/2023	FD	EM10	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-03I	9/11/2023	N	EM13	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-03I	9/11/2023	FD	EM13	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-03I	12/13/2023	N	EM16	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-03I	12/13/2023	FD	EM16	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-03I	3/14/2024	N	EM19	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-03I	3/14/2024	FD	EM19	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-03I	6/19/2024	N	EM20	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-03I	6/19/2024	FD	EM20	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-03I	9/20/2024	N	EM21	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-03I	9/20/2024	FD	EM21	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-03S	4/18/2022	N	BL02	UMCf	54.5 - 64.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-03S	4/18/2022	FD	BL02	UMCf	54.5 - 64.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-03S	3/15/2023	N	EM07	UMCf	54.5 - 64.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-03S	6/15/2023	N	EM10	UMCf	54.5 - 64.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-03S	9/14/2023	N	EM13	UMCf	54.5 - 64.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-03S	12/13/2023	N	EM16	UMCf	54.5 - 64.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-03S	3/14/2024	N	EM19	UMCf	54.5 - 64.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-03S	6/14/2024	N	EM20	UMCf	54.5 - 64.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-03S	9/18/2024	N	EM21	UMCf	54.5 - 64.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-04D	4/19/2022	N	BL02	UMCf	97.0 - 107.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-04D	2/16/2023	N	EM06	UMCf	97.0 - 107.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-04D	3/21/2023	N	EM07	UMCf	97.0 - 107.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-04D	6/14/2023	N	EM10	UMCf	97.0 - 107.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-04D	9/15/2023	N	EM13	UMCf	97.0 - 107.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-04D	12/12/2023	N	EM16	UMCf	97.0 - 107.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-04D	3/12/2024	N	EM19	UMCf	97.0 - 107.0	----	----	----	----	----	----	----	----	----	----	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	SW6010B	SW6010B	SW6010B	SW6010B	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020
						Magnesium	Manganese	Potassium	Sodium	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-04D	6/19/2024	N	EM20	UMCf	97.0 - 107.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-04D	9/24/2024	N	EM21	UMCf	97.0 - 107.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-04I	4/19/2022	N	BL02	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-04I	3/20/2023	N	EM07	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-04I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-04I	9/14/2023	N	EM13	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-04I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-04I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-04I	6/18/2024	N	EM20	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-04I	9/24/2024	N	EM21	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05D	4/15/2022	N	BL02	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05D	10/13/2022	N	EM02	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05D	11/3/2022	N	EM03	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05D	12/7/2022	N	EM04	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05D	1/11/2023	N	EM05	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05D	2/14/2023	N	EM06	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05D	3/16/2023	N	EM07	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05D	4/20/2023	N	EM08	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05D	5/10/2023	N	EM09	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05D	6/15/2023	N	EM10	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05D	7/18/2023	N	EM11	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05D	8/14/2023	N	EM12	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05D	9/12/2023	N	EM13	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05D	10/18/2023	N	EM14	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05D	11/16/2023	N	EM15	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05D	12/14/2023	N	EM16	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05D	1/26/2024	N	EM17	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05D	2/14/2024	N	EM18	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05D	3/12/2024	N	EM19	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05D	6/18/2024	N	EM20	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05D	9/25/2024	N	EM21	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05I	4/15/2022	N	BL02	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05I	10/13/2022	N	EM02	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05I	11/3/2022	N	EM03	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05I	12/8/2022	N	EM04	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05I	1/11/2023	N	EM05	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05I	2/14/2023	N	EM06	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05I	3/14/2023	N	EM07	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05I	4/21/2023	N	EM08	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05I	5/10/2023	N	EM09	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05I	6/15/2023	N	EM10	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05I	7/17/2023	N	EM11	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05I	8/14/2023	N	EM12	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05I	9/13/2023	N	EM13	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05I	10/18/2023	N	EM14	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05I	11/15/2023	N	EM15	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05I	12/12/2023	N	EM16	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	SW6010B	SW6010B	SW6010B	SW6010B	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020
						Magnesium	Manganese	Potassium	Sodium	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-05I	1/26/2024	N	EM17	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05I	2/14/2024	N	EM18	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05I	3/11/2024	N	EM19	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05I	6/18/2024	N	EM20	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-05I	9/25/2024	N	EM21	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-06D	4/19/2022	N	BL02	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-06D	2/15/2023	N	EM06	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-06D	3/21/2023	N	EM07	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-06D	6/16/2023	N	EM10	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-06D	9/13/2023	N	EM13	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-06D	12/13/2023	N	EM16	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-06D	3/14/2024	N	EM19	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-06D	6/12/2024	N	EM20	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-06D	9/20/2024	N	EM21	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-06I	4/19/2022	N	BL02	UMCf	76.5 - 86.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-06I	3/14/2023	N	EM07	UMCf	76.5 - 86.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-06I	6/16/2023	N	EM10	UMCf	76.5 - 86.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-06I	9/12/2023	N	EM13	UMCf	76.5 - 86.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-06I	12/12/2023	N	EM16	UMCf	76.5 - 86.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-06I	3/14/2024	N	EM19	UMCf	76.5 - 86.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-06I	6/11/2024	N	EM20	UMCf	76.5 - 86.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-06I	9/20/2024	N	EM21	UMCf	76.5 - 86.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	4/15/2022	N	BL02	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	10/12/2022	N	EM02	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	10/12/2022	FD	EM02	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	11/3/2022	N	EM03	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	12/7/2022	N	EM04	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	1/11/2023	N	EM05	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	2/14/2023	N	EM06	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	3/16/2023	N	EM07	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	4/21/2023	N	EM08	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	5/11/2023	N	EM09	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	6/13/2023	N	EM10	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	7/17/2023	N	EM11	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	8/11/2023	N	EM12	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	9/13/2023	N	EM13	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	10/18/2023	N	EM14	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	11/16/2023	N	EM15	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	12/12/2023	N	EM16	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	1/26/2024	N	EM17	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	2/13/2024	N	EM18	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	3/11/2024	N	EM19	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	6/12/2024	N	EM20	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	9/18/2024	N	EM21	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07I	4/15/2022	N	BL02	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07I	10/12/2022	N	EM02	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07I	11/3/2022	N	EM03	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	SW6010B	SW6010B	SW6010B	SW6010B	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020
						Magnesium	Manganese	Potassium	Sodium	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-07I	12/7/2022	N	EM04	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07I	1/11/2023	N	EM05	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07I	2/15/2023	N	EM06	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07I	3/16/2023	N	EM07	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07I	4/21/2023	N	EM08	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07I	5/11/2023	N	EM09	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07I	7/17/2023	N	EM11	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07I	8/11/2023	N	EM12	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07I	9/13/2023	N	EM13	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07I	10/18/2023	N	EM14	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07I	11/16/2023	N	EM15	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07I	12/11/2023	N	EM16	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07I	1/26/2024	N	EM17	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07I	2/13/2024	N	EM18	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07I	3/11/2024	N	EM19	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07I	6/12/2024	N	EM20	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-07I	9/18/2024	N	EM21	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-08D	4/13/2022	N	BL02	UMCf	98.6 - 108.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-08D	12/7/2022	N	EM04	UMCf	98.6 - 108.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-08D	3/17/2023	N	EM07	UMCf	98.6 - 108.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-08D	6/13/2023	N	EM10	UMCf	98.6 - 108.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-08D	9/13/2023	N	EM13	UMCf	98.6 - 108.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-08D	12/11/2023	N	EM16	UMCf	98.6 - 108.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-08D	3/12/2024	N	EM19	UMCf	98.6 - 108.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-08D	6/14/2024	N	EM20	UMCf	98.6 - 108.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-08D	9/23/2024	N	EM21	UMCf	98.6 - 108.6	----	----	----	----	----	----	----	----	----	----	----
U4-MW-08DD	4/20/2022	N	BL02	UMCf	119.8 - 129.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-08DD	4/20/2022	FD	BL02	UMCf	119.8 - 129.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-08DD	12/8/2022	N	EM04	UMCf	119.8 - 129.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-08DD	3/15/2023	N	EM07	UMCf	119.8 - 129.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-08DD	6/14/2023	N	EM10	UMCf	119.8 - 129.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-08DD	9/14/2023	N	EM13	UMCf	119.8 - 129.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-08DD	12/14/2023	N	EM16	UMCf	119.8 - 129.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-08DD	3/14/2024	N	EM19	UMCf	119.8 - 129.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-08DD	6/12/2024	N	EM20	UMCf	119.8 - 129.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-08DD	9/20/2024	N	EM21	UMCf	119.8 - 129.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-08I	4/13/2022	N	BL02	UMCf	78.0 - 88.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-08I	12/7/2022	N	EM04	UMCf	78.0 - 88.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-08I	12/7/2022	FD	EM04	UMCf	78.0 - 88.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-08I	3/17/2023	N	EM07	UMCf	78.0 - 88.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-08I	6/13/2023	N	EM10	UMCf	78.0 - 88.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-08I	9/13/2023	N	EM13	UMCf	78.0 - 88.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-08I	12/11/2023	N	EM16	UMCf	78.0 - 88.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-08I	3/12/2024	N	EM19	UMCf	78.0 - 88.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-08I	6/14/2024	N	EM20	UMCf	78.0 - 88.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-08I	9/23/2024	N	EM21	UMCf	78.0 - 88.0	----	----	----	----	----	----	----	----	----	----	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	SW6010B	SW6010B	SW6010B	SW6010B	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020
						Magnesium	Manganese	Potassium	Sodium	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-08S	4/15/2022	N	BL02	UMCf	54.9 - 64.9	----	----	----	----	----	----	----	----	----	----	----
U4-MW-08S	12/7/2022	N	EM04	UMCf	54.9 - 64.9	----	----	----	----	----	----	----	----	----	----	----
U4-MW-08S	12/7/2022	FD	EM04	UMCf	54.9 - 64.9	----	----	----	----	----	----	----	----	----	----	----
U4-MW-08S	3/13/2023	N	EM07	UMCf	54.9 - 64.9	----	----	----	----	----	----	----	----	----	----	----
U4-MW-08S	3/13/2023	FD	EM07	UMCf	54.9 - 64.9	----	----	----	----	----	----	----	----	----	----	----
U4-MW-08S	6/13/2023	N	EM10	UMCf	54.9 - 64.9	----	----	----	----	----	----	----	----	----	----	----
U4-MW-08S	6/13/2023	FD	EM10	UMCf	54.9 - 64.9	----	----	----	----	----	----	----	----	----	----	----
U4-MW-08S	9/13/2023	N	EM13	UMCf	54.9 - 64.9	----	----	----	----	----	----	----	----	----	----	----
U4-MW-08S	9/13/2023	FD	EM13	UMCf	54.9 - 64.9	----	----	----	----	----	----	----	----	----	----	----
U4-MW-08S	12/14/2023	N	EM16	UMCf	54.9 - 64.9	----	----	----	----	----	----	----	----	----	----	----
U4-MW-08S	12/14/2023	FD	EM16	UMCf	54.9 - 64.9	----	----	----	----	----	----	----	----	----	----	----
U4-MW-08S	3/14/2024	N	EM19	UMCf	54.9 - 64.9	----	----	----	----	----	----	----	----	----	----	----
U4-MW-08S	3/14/2024	FD	EM19	UMCf	54.9 - 64.9	----	----	----	----	----	----	----	----	----	----	----
U4-MW-08S	3/25/2024	N	EM19	UMCf	54.9 - 64.9	----	----	----	----	----	----	----	----	----	----	----
U4-MW-08S	3/25/2024	FD	EM19	UMCf	54.9 - 64.9	----	----	----	----	----	----	----	----	----	----	----
U4-MW-08S	6/14/2024	N	EM20	UMCf	54.9 - 64.9	----	----	----	----	----	----	----	----	----	----	----
U4-MW-08S	6/14/2024	FD	EM20	UMCf	54.9 - 64.9	----	----	----	----	----	----	----	----	----	----	----
U4-MW-08S	9/20/2024	N	EM21	UMCf	54.9 - 64.9	----	----	----	----	----	----	----	----	----	----	----
U4-MW-08S	9/20/2024	FD	EM21	UMCf	54.9 - 64.9	----	----	----	----	----	----	----	----	----	----	----
U4-MW-09D	4/14/2022	N	BL02	UMCf	96.9 - 106.9	----	----	----	----	----	----	----	----	----	----	----
U4-MW-09D	12/6/2022	N	EM04	UMCf	96.9 - 106.9	----	----	----	----	----	----	----	----	----	----	----
U4-MW-09D	3/16/2023	N	EM07	UMCf	96.9 - 106.9	----	----	----	----	----	----	----	----	----	----	----
U4-MW-09D	6/14/2023	N	EM10	UMCf	96.9 - 106.9	----	----	----	----	----	----	----	----	----	----	----
U4-MW-09D	9/12/2023	N	EM13	UMCf	96.9 - 106.9	----	----	----	----	----	----	----	----	----	----	----
U4-MW-09D	12/15/2023	N	EM16	UMCf	96.9 - 106.9	----	----	----	----	----	----	----	----	----	----	----
U4-MW-09D	3/13/2024	N	EM19	UMCf	96.9 - 106.9	----	----	----	----	----	----	----	----	----	----	----
U4-MW-09D	6/13/2024	N	EM20	UMCf	96.9 - 106.9	----	----	----	----	----	----	----	----	----	----	----
U4-MW-09D	9/19/2024	N	EM21	UMCf	96.9 - 106.9	----	----	----	----	----	----	----	----	----	----	----
U4-MW-09DD	4/14/2022	N	BL02	UMCf	119.8 - 129.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-09DD	12/6/2022	N	EM04	UMCf	119.8 - 129.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-09DD	3/21/2023	N	EM07	UMCf	119.8 - 129.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-09DD	6/15/2023	N	EM10	UMCf	119.8 - 129.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-09DD	9/13/2023	N	EM13	UMCf	119.8 - 129.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-09DD	12/13/2023	N	EM16	UMCf	119.8 - 129.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-09DD	3/14/2024	N	EM19	UMCf	119.8 - 129.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-09DD	6/13/2024	N	EM20	UMCf	119.8 - 129.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-09DD	9/20/2024	N	EM21	UMCf	119.8 - 129.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-09I	4/14/2022	N	BL02	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-09I	12/6/2022	N	EM04	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-09I	3/16/2023	N	EM07	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-09I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-09I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-09I	12/15/2023	N	EM16	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-09I	3/13/2024	N	EM19	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-09I	6/13/2024	N	EM20	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-09I	9/19/2024	N	EM21	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-09S	4/14/2022	N	BL02	UMCf	55.3 - 65.3	----	----	----	----	----	----	----	----	----	----	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	SW6010B	SW6010B	SW6010B	SW6010B	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020
						Magnesium	Manganese	Potassium	Sodium	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-09S	12/6/2022	N	EM04	UMCf	55.3 - 65.3	----	----	----	----	----	----	----	----	----	----	----
U4-MW-09S	3/17/2023	N	EM07	UMCf	55.3 - 65.3	----	----	----	----	----	----	----	----	----	----	----
U4-MW-09S	6/15/2023	N	EM10	UMCf	55.3 - 65.3	----	----	----	----	----	----	----	----	----	----	----
U4-MW-09S	9/13/2023	N	EM13	UMCf	55.3 - 65.3	----	----	----	----	----	----	----	----	----	----	----
U4-MW-09S	12/12/2023	N	EM16	UMCf	55.3 - 65.3	----	----	----	----	----	----	----	----	----	----	----
U4-MW-09S	3/13/2024	N	EM19	UMCf	55.3 - 65.3	----	----	----	----	----	----	----	----	----	----	----
U4-MW-09S	6/13/2024	N	EM20	UMCf	55.3 - 65.3	----	----	----	----	----	----	----	----	----	----	----
U4-MW-09S	9/19/2024	N	EM21	UMCf	55.3 - 65.3	----	----	----	----	----	----	----	----	----	----	----
U4-MW-10D	4/14/2022	N	BL02	UMCf	96.9 - 106.9	----	----	----	----	----	----	----	----	----	----	----
U4-MW-10D	12/5/2022	N	EM04	UMCf	96.9 - 106.9	----	----	----	----	----	----	----	----	----	----	----
U4-MW-10D	3/17/2023	N	EM07	UMCf	96.9 - 106.9	----	----	----	----	----	----	----	----	----	----	----
U4-MW-10D	6/14/2023	N	EM10	UMCf	96.9 - 106.9	----	----	----	----	----	----	----	----	----	----	----
U4-MW-10D	9/13/2023	N	EM13	UMCf	96.9 - 106.9	----	----	----	----	----	----	----	----	----	----	----
U4-MW-10D	12/14/2023	N	EM16	UMCf	96.9 - 106.9	----	----	----	----	----	----	----	----	----	----	----
U4-MW-10D	3/14/2024	N	EM19	UMCf	96.9 - 106.9	----	----	----	----	----	----	----	----	----	----	----
U4-MW-10D	6/11/2024	N	EM20	UMCf	96.9 - 106.9	----	----	----	----	----	----	----	----	----	----	----
U4-MW-10D	9/26/2024	N	EM21	UMCf	96.9 - 106.9	----	----	----	----	----	----	----	----	----	----	----
U4-MW-10I	4/14/2022	N	BL02	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-10I	12/5/2022	N	EM04	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-10I	3/17/2023	N	EM07	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-10I	6/14/2023	N	EM10	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-10I	9/13/2023	N	EM13	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-10I	12/14/2023	N	EM16	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-10I	3/13/2024	N	EM19	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-10I	6/11/2024	N	EM20	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-10I	9/25/2024	N	EM21	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11D	4/15/2022	N	BL02	UMCf	97.4 - 107.4	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11D	9/26/2022	N	EM01	UMCf	97.4 - 107.4	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11D	10/11/2022	N	EM02	UMCf	97.4 - 107.4	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11D	11/1/2022	N	EM03	UMCf	97.4 - 107.4	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11D	12/6/2022	N	EM04	UMCf	97.4 - 107.4	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11D	1/12/2023	N	EM05	UMCf	97.4 - 107.4	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11D	2/14/2023	N	EM06	UMCf	97.4 - 107.4	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11D	3/16/2023	N	EM07	UMCf	97.4 - 107.4	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11D	4/18/2023	N	EM08	UMCf	97.4 - 107.4	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11D	5/17/2023	N	EM09	UMCf	97.4 - 107.4	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11D	6/16/2023	N	EM10	UMCf	97.4 - 107.4	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11D	7/14/2023	N	EM11	UMCf	97.4 - 107.4	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11D	8/14/2023	N	EM12	UMCf	97.4 - 107.4	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11D	9/13/2023	N	EM13	UMCf	97.4 - 107.4	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11D	10/18/2023	N	EM14	UMCf	97.4 - 107.4	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11D	11/16/2023	N	EM15	UMCf	97.4 - 107.4	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11D	12/13/2023	N	EM16	UMCf	97.4 - 107.4	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11D	1/25/2024	N	EM17	UMCf	97.4 - 107.4	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11D	2/14/2024	N	EM18	UMCf	97.4 - 107.4	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11D	3/12/2024	N	EM19	UMCf	97.4 - 107.4	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11D	6/12/2024	N	EM20	UMCf	97.4 - 107.4	----	----	----	----	----	----	----	----	----	----	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	SW6010B Magnesium µg/L	SW6010B Manganese µg/L	SW6010B Potassium µg/L	SW6010B Sodium µg/L	SW6020 Antimony µg/L	SW6020 Arsenic µg/L	SW6020 Barium µg/L	SW6020 Beryllium µg/L	SW6020 Cadmium µg/L	SW6020 Chromium µg/L	SW6020 Cobalt µg/L
U4-MW-11D	9/23/2024	N	EM21	UMCf	97.4 - 107.4	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	4/14/2022	N	BL02	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	9/26/2022	N	EM01	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	9/26/2022	FD	EM01	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	10/10/2022	N	EM02	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	10/10/2022	FD	EM02	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	10/31/2022	N	EM03	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	10/31/2022	FD	EM03	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	12/6/2022	N	EM04	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	12/6/2022	FD	EM04	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	1/12/2023	N	EM05	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	1/12/2023	FD	EM05	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	2/14/2023	N	EM06	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	2/14/2023	FD	EM06	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	3/16/2023	N	EM07	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	3/16/2023	FD	EM07	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	4/18/2023	N	EM08	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	4/18/2023	FD	EM08	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	5/19/2023	N	EM09	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	5/19/2023	FD	EM09	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	6/15/2023	N	EM10	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	6/15/2023	FD	EM10	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	7/13/2023	N	EM11	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	7/13/2023	FD	EM11	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	8/14/2023	N	EM12	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	8/14/2023	FD	EM12	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	9/13/2023	N	EM13	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	9/13/2023	FD	EM13	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	10/19/2023	N	EM14	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	10/19/2023	FD	EM14	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	11/16/2023	N	EM15	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	11/16/2023	FD	EM15	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	12/13/2023	N	EM16	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	12/13/2023	FD	EM16	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	1/25/2024	N	EM17	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	1/25/2024	FD	EM17	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	2/14/2024	N	EM18	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	2/14/2024	FD	EM18	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	3/13/2024	N	EM19	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	3/13/2024	FD	EM19	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	6/12/2024	N	EM20	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	6/12/2024	FD	EM20	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	9/23/2024	N	EM21	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	9/23/2024	FD	EM21	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12D	4/15/2022	N	BL02	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12D	9/27/2022	N	EM01	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12D	10/12/2022	N	EM02	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	SW6010B	SW6010B	SW6010B	SW6010B	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020
						Magnesium	Manganese	Potassium	Sodium	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-12D	11/2/2022	N	EM03	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12D	12/7/2022	N	EM04	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12D	1/12/2023	N	EM05	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12D	2/15/2023	N	EM06	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12D	3/14/2023	N	EM07	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12D	4/17/2023	N	EM08	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12D	5/17/2023	N	EM09	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12D	6/16/2023	N	EM10	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12D	7/13/2023	N	EM11	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12D	8/14/2023	N	EM12	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12D	9/12/2023	N	EM13	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12D	10/17/2023	N	EM14	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12D	11/15/2023	N	EM15	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12D	12/12/2023	N	EM16	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12D	1/24/2024	N	EM17	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12D	2/13/2024	N	EM18	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12D	3/12/2024	N	EM19	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12D	6/12/2024	N	EM20	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12D	9/24/2024	N	EM21	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12I	4/14/2022	N	BL02	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12I	4/14/2022	FD	BL02	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12I	9/27/2022	N	EM01	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12I	10/12/2022	N	EM02	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12I	11/2/2022	N	EM03	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12I	12/7/2022	N	EM04	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12I	12/7/2022	FD	EM04	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12I	1/13/2023	N	EM05	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12I	2/15/2023	N	EM06	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12I	3/13/2023	N	EM07	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12I	4/17/2023	N	EM08	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12I	5/17/2023	N	EM09	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12I	6/16/2023	N	EM10	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12I	7/11/2023	N	EM11	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12I	8/14/2023	N	EM12	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12I	10/17/2023	N	EM14	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12I	11/16/2023	N	EM15	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12I	1/24/2024	N	EM17	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12I	2/13/2024	N	EM18	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12I	6/13/2024	N	EM20	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-12I	9/23/2024	N	EM21	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13D	4/14/2022	N	BL02	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13D	9/28/2022	N	EM01	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13D	10/11/2022	N	EM02	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13D	11/3/2022	N	EM03	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	SW6010B	SW6010B	SW6010B	SW6010B	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020
						Magnesium	Manganese	Potassium	Sodium	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-13D	12/7/2022	N	EM04	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13D	1/12/2023	N	EM05	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13D	2/15/2023	N	EM06	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13D	3/17/2023	N	EM07	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13D	4/18/2023	N	EM08	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13D	5/17/2023	N	EM09	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13D	6/15/2023	N	EM10	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13D	7/12/2023	N	EM11	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13D	8/11/2023	N	EM12	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13D	9/11/2023	N	EM13	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13D	10/18/2023	N	EM14	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13D	11/15/2023	N	EM15	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13D	12/11/2023	N	EM16	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13D	1/23/2024	N	EM17	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13D	2/12/2024	N	EM18	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13D	3/11/2024	N	EM19	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13D	6/13/2024	N	EM20	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13D	9/20/2024	N	EM21	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13I	4/14/2022	N	BL02	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13I	9/28/2022	N	EM01	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13I	10/10/2022	N	EM02	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13I	11/3/2022	N	EM03	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13I	12/6/2022	N	EM04	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13I	1/12/2023	N	EM05	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13I	2/14/2023	N	EM06	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13I	3/16/2023	N	EM07	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13I	4/19/2023	N	EM08	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13I	5/17/2023	N	EM09	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13I	6/15/2023	N	EM10	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13I	7/12/2023	N	EM11	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13I	8/11/2023	N	EM12	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13I	9/11/2023	N	EM13	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13I	10/17/2023	N	EM14	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13I	11/15/2023	N	EM15	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13I	12/11/2023	N	EM16	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13I	1/23/2024	N	EM17	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13I	2/12/2024	N	EM18	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13I	3/11/2024	N	EM19	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13I	6/13/2024	N	EM20	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-13I	9/20/2024	N	EM21	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	----
U4-MW-14D	4/13/2022	N	BL02	UMCf	97.3 - 107.3	----	----	----	----	----	----	----	----	----	----	----
U4-MW-14D	12/6/2022	N	EM04	UMCf	97.3 - 107.3	----	----	----	----	----	----	----	----	----	----	----
U4-MW-14D	3/16/2023	N	EM07	UMCf	97.3 - 107.3	----	----	----	----	----	----	----	----	----	----	----
U4-MW-14D	6/15/2023	N	EM10	UMCf	97.3 - 107.3	----	----	----	----	----	----	----	----	----	----	----
U4-MW-14D	9/14/2023	N	EM13	UMCf	97.3 - 107.3	----	----	----	----	----	----	----	----	----	----	----
U4-MW-14D	12/15/2023	N	EM16	UMCf	97.3 - 107.3	----	----	----	----	----	----	----	----	----	----	----
U4-MW-14D	3/13/2024	N	EM19	UMCf	97.3 - 107.3	----	----	----	----	----	----	----	----	----	----	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	SW6010B Magnesium µg/L	SW6010B Manganese µg/L	SW6010B Potassium µg/L	SW6010B Sodium µg/L	SW6020 Antimony µg/L	SW6020 Arsenic µg/L	SW6020 Barium µg/L	SW6020 Beryllium µg/L	SW6020 Cadmium µg/L	SW6020 Chromium µg/L	SW6020 Cobalt µg/L
U4-MW-14D	6/13/2024	N	EM20	UMCf	97.3 - 107.3	----	----	----	----	----	----	----	----	----	----	----
U4-MW-14D	9/19/2024	N	EM21	UMCf	97.3 - 107.3	----	----	----	----	----	----	----	----	----	----	----
U4-MW-14I	4/14/2022	N	BL02	UMCf	77.3 - 87.3	----	----	----	----	----	----	----	----	----	----	----
U4-MW-14I	12/6/2022	N	EM04	UMCf	77.3 - 87.3	----	----	----	----	----	----	----	----	----	----	----
U4-MW-14I	3/16/2023	N	EM07	UMCf	77.3 - 87.3	----	----	----	----	----	----	----	----	----	----	----
U4-MW-14I	6/15/2023	N	EM10	UMCf	77.3 - 87.3	----	----	----	----	----	----	----	----	----	----	----
U4-MW-14I	9/14/2023	N	EM13	UMCf	77.3 - 87.3	----	----	----	----	----	----	----	----	----	----	----
U4-MW-14I	12/14/2023	N	EM16	UMCf	77.3 - 87.3	----	----	----	----	----	----	----	----	----	----	----
U4-MW-14I	3/13/2024	N	EM19	UMCf	77.3 - 87.3	----	----	----	----	----	----	----	----	----	----	----
U4-MW-14I	6/14/2024	N	EM20	UMCf	77.3 - 87.3	----	----	----	----	----	----	----	----	----	----	----
U4-MW-14I	9/19/2024	N	EM21	UMCf	77.3 - 87.3	----	----	----	----	----	----	----	----	----	----	----
U4-MW-15D	4/13/2022	N	BL02	UMCf	96.0 - 106.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-15D	12/5/2022	N	EM04	UMCf	96.0 - 106.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-15D	3/20/2023	N	EM07	UMCf	96.0 - 106.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-15D	6/14/2023	N	EM10	UMCf	96.0 - 106.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-15D	9/13/2023	N	EM13	UMCf	96.0 - 106.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-15D	12/12/2023	N	EM16	UMCf	96.0 - 106.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-15D	3/12/2024	N	EM19	UMCf	96.0 - 106.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-15D	6/14/2024	N	EM20	UMCf	96.0 - 106.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-15D	9/24/2024	N	EM21	UMCf	96.0 - 106.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-15DD	4/13/2022	N	BL02	UMCf	120.3 - 130.3	----	----	----	----	----	----	----	----	----	----	----
U4-MW-15DD	12/5/2022	N	EM04	UMCf	120.3 - 130.3	----	----	----	----	----	----	----	----	----	----	----
U4-MW-15DD	3/15/2023	N	EM07	UMCf	120.3 - 130.3	----	----	----	----	----	----	----	----	----	----	----
U4-MW-15DD	6/13/2023	N	EM10	UMCf	120.3 - 130.3	----	----	----	----	----	----	----	----	----	----	----
U4-MW-15DD	9/14/2023	N	EM13	UMCf	120.3 - 130.3	----	----	----	----	----	----	----	----	----	----	----
U4-MW-15DD	12/13/2023	N	EM16	UMCf	120.3 - 130.3	----	----	----	----	----	----	----	----	----	----	----
U4-MW-15DD	3/12/2024	N	EM19	UMCf	120.3 - 130.3	----	----	----	----	----	----	----	----	----	----	----
U4-MW-15DD	6/14/2024	N	EM20	UMCf	120.3 - 130.3	----	----	----	----	----	----	----	----	----	----	----
U4-MW-15DD	9/24/2024	N	EM21	UMCf	120.3 - 130.3	----	----	----	----	----	----	----	----	----	----	----
U4-MW-15I	4/12/2022	N	BL02	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-15I	12/5/2022	N	EM04	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-15I	3/17/2023	N	EM07	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-15I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-15I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-15I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-15I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-15I	6/17/2024	N	EM20	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-15I	9/25/2024	N	EM21	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-15S	4/13/2022	N	BL02	UMCf	54.8 - 64.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-15S	12/5/2022	N	EM04	UMCf	54.8 - 64.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-15S	3/13/2023	N	EM07	UMCf	54.8 - 64.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-15S	6/13/2023	N	EM10	UMCf	54.8 - 64.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-15S	9/14/2023	N	EM13	UMCf	54.8 - 64.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-15S	12/11/2023	N	EM16	UMCf	54.8 - 64.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-15S	3/12/2024	N	EM19	UMCf	54.8 - 64.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-15S	3/26/2024	N	EM19	UMCf	54.8 - 64.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-15S	6/14/2024	N	EM20	UMCf	54.8 - 64.8	----	----	----	----	----	----	----	----	----	----	----

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Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	SW6010B Magnesium µg/L	SW6010B Manganese µg/L	SW6010B Potassium µg/L	SW6010B Sodium µg/L	SW6020 Antimony µg/L	SW6020 Arsenic µg/L	SW6020 Barium µg/L	SW6020 Beryllium µg/L	SW6020 Cadmium µg/L	SW6020 Chromium µg/L	SW6020 Cobalt µg/L
U4-MW-15S	9/20/2024	N	EM21	UMCf	54.8 - 64.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-16D	4/11/2022	N	BL02	UMCf	96.8 - 106.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-16D	12/5/2022	N	EM04	UMCf	96.8 - 106.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-16D	3/14/2023	N	EM07	UMCf	96.8 - 106.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-16D	6/13/2023	N	EM10	UMCf	96.8 - 106.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-16D	9/15/2023	N	EM13	UMCf	96.8 - 106.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-16D	12/14/2023	N	EM16	UMCf	96.8 - 106.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-16D	3/14/2024	N	EM19	UMCf	96.8 - 106.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-16D	6/17/2024	N	EM20	UMCf	96.8 - 106.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-16D	9/20/2024	N	EM21	UMCf	96.8 - 106.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-16DD	4/12/2022	N	BL02	UMCf	120.8 - 130.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-16DD	12/5/2022	N	EM04	UMCf	120.8 - 130.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-16DD	3/15/2023	N	EM07	UMCf	120.8 - 130.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-16DD	6/13/2023	N	EM10	UMCf	120.8 - 130.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-16DD	9/14/2023	N	EM13	UMCf	120.8 - 130.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-16DD	12/13/2023	N	EM16	UMCf	120.8 - 130.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-16DD	3/14/2024	N	EM19	UMCf	120.8 - 130.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-16DD	6/17/2024	N	EM20	UMCf	120.8 - 130.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-16DD	9/19/2024	N	EM21	UMCf	120.8 - 130.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-16I	4/11/2022	N	BL02	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-16I	12/5/2022	N	EM04	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-16I	12/5/2022	FD	EM04	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-16I	3/13/2023	N	EM07	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-16I	3/13/2023	FD	EM07	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-16I	6/12/2023	N	EM10	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-16I	6/12/2023	FD	EM10	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-16I	9/11/2023	N	EM13	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-16I	9/11/2023	FD	EM13	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-16I	12/11/2023	N	EM16	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-16I	12/11/2023	FD	EM16	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-16I	3/11/2024	N	EM19	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-16I	3/11/2024	FD	EM19	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-16I	6/18/2024	N	EM20	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-16I	6/18/2024	FD	EM20	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-16I	9/19/2024	N	EM21	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-16I	9/19/2024	FD	EM21	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	----
U4-MW-16S	4/12/2022	N	BL02	UMCf	54.8 - 64.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-16S	4/12/2022	FD	BL02	UMCf	54.8 - 64.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-16S	12/6/2022	N	EM04	UMCf	54.8 - 64.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-16S	3/15/2023	N	EM07	UMCf	54.8 - 64.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-16S	6/13/2023	N	EM10	UMCf	54.8 - 64.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-16S	9/11/2023	N	EM13	UMCf	54.8 - 64.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-16S	12/11/2023	N	EM16	UMCf	54.8 - 64.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-16S	3/11/2024	N	EM19	UMCf	54.8 - 64.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-16S	6/17/2024	N	EM20	UMCf	54.8 - 64.8	----	----	----	----	----	----	----	----	----	----	----
U4-MW-16S	9/20/2024	N	EM21	UMCf	54.8 - 64.8	----	----	----	----	----	----	----	----	----	----	----
U4-SLMW	11/10/2022	N	EM03	-	-	----	----	----	----	----	----	----	----	----	----	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	SW6010B	SW6010B	SW6010B	SW6010B	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020
						Magnesium	Manganese	Potassium	Sodium	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-T3	10/13/2022	N	EM02	-	-	----	----	----	----	----	----	----	----	----	----	----
U4-T3	11/3/2022	N	EM03	-	-	----	----	----	----	----	----	----	----	----	----	----
U4-T3	12/6/2022	N	EM04	-	-	----	----	----	----	----	----	----	----	----	----	----
U4-T3	1/9/2023	N	EM05	-	-	----	----	----	----	----	----	----	----	----	----	----
U4-T3	2/13/2023	N	EM06	-	-	----	----	----	----	----	----	----	----	----	----	----
U4-T3	3/13/2023	N	EM07	-	-	----	----	----	----	----	----	----	----	----	----	----
U4-T3	4/19/2023	N	EM08	-	-	----	----	----	----	----	----	----	----	----	----	----
U4-T3	5/18/2023	N	EM09	-	-	----	----	----	----	----	----	----	----	----	----	----
U4-T3	6/12/2023	N	EM10	-	-	----	----	----	----	----	----	----	----	----	----	----
U4-T3	7/11/2023	N	EM11	-	-	----	----	----	----	----	----	----	----	----	----	----
U4-T3	8/10/2023	N	EM12	-	-	----	----	----	----	----	----	----	----	----	----	----
U4-T3	9/11/2023	N	EM13	-	-	----	----	----	----	----	----	----	----	----	----	----
U4-T3	10/16/2023	N	EM14	-	-	----	----	----	----	----	----	----	----	----	----	----

Notes:
FD - Field duplicate
E - Field instrument error.
J - The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J- - The result is an estimated quantity, but the result may be biased low.
J+ - The result is an estimated quantity, but the result may be biased high.
N/A - Not Applicable
mg/L - milligrams per liter
µg/L - micrograms per liter
N - Normal field sample

R - The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

UMCf- Upper Muddy Creek Formation
< - The analyte was analyzed for, but was not detected above the level of the reported
-- Not tested.
U4-E-08D has been abandoned.
M-252 damaged/obstructed when checked on June 14, 2023 and September 14, 2023.
U4-MW-08S and U4-MW-15S were purged and resampled for EM19 on March 25-26, 2024; Original EM19 samples were collected via bailer due to well condition.
Lab was unable to analyze and report TDS for samples L1782240-20 (U4-E-09I-EM21) and -21 (U4-E-09I-EM21-FD) due to the thickness of the sample matrix.

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW7199
						Copper	Lead	Molybdenum	Nickel	Selenium	Silver	Thallium	Uranium	Vanadium	Zinc	Chromium, Hexavalent
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
M-247-100	4/20/2022	N	BL02	UMCf	100.5 - 110.5	----	----	----	----	----	----	----	----	----	----	<150
M-249-100	4/20/2022	N	BL02	UMCf	99.6 - 109.6	----	----	----	----	----	----	----	----	----	----	77,000
M-251-100	4/19/2022	N	BL02	UMCf	92.5 - 102.5	----	----	----	----	----	----	----	----	----	----	96,900 J-
M-251-100	10/13/2022	N	EM02	UMCf	92.5 - 102.5	----	----	----	----	----	----	----	----	----	----	57,600
M-251-100	11/2/2022	N	EM03	UMCf	92.5 - 102.5	----	----	----	----	----	----	----	----	----	----	39,500
M-251-100	12/8/2022	N	EM04	UMCf	92.5 - 102.5	----	----	----	----	----	----	----	----	----	----	32,300
M-251-100	1/11/2023	N	EM05	UMCf	92.5 - 102.5	----	----	----	----	----	----	----	----	----	----	43,900
M-251-100	2/13/2023	N	EM06	UMCf	92.5 - 102.5	----	----	----	----	----	----	----	----	----	----	42,700
M-251-100	3/17/2023	N	EM07	UMCf	92.5 - 102.5	----	----	----	----	----	----	----	----	----	----	23,100
M-251-100	4/21/2023	N	EM08	UMCf	92.5 - 102.5	----	----	----	----	----	----	----	----	----	----	34,100
M-251-100	5/9/2023	N	EM09	UMCf	92.5 - 102.5	----	----	----	----	----	----	----	----	----	----	34,200
M-251-100	6/14/2023	N	EM10	UMCf	92.5 - 102.5	----	----	----	----	----	----	----	----	----	----	16,600
M-251-100	7/14/2023	N	EM11	UMCf	92.5 - 102.5	----	----	----	----	----	----	----	----	----	----	43,900 J-
M-251-100	8/10/2023	N	EM12	UMCf	92.5 - 102.5	----	----	----	----	----	----	----	----	----	----	30,800
M-251-100	9/14/2023	N	EM13	UMCf	92.5 - 102.5	----	----	----	----	----	----	----	----	----	----	31,600
M-251-100	10/19/2023	N	EM14	UMCf	92.5 - 102.5	----	----	----	----	----	----	----	----	----	----	28,500
M-251-100	11/16/2023	N	EM15	UMCf	92.5 - 102.5	----	----	----	----	----	----	----	----	----	----	32,300
M-251-100	12/12/2023	N	EM16	UMCf	92.5 - 102.5	----	----	----	----	----	----	----	----	----	----	31,600
M-251-100	1/25/2024	N	EM17	UMCf	92.5 - 102.5	----	----	----	----	----	----	----	----	----	----	32,100
M-251-100	2/13/2024	N	EM18	UMCf	92.5 - 102.5	----	----	----	----	----	----	----	----	----	----	<150
M-251-100	3/11/2024	N	EM19	UMCf	92.5 - 102.5	----	----	----	----	----	----	----	----	----	----	52.0
M-251-100	6/17/2024	N	EM20	UMCf	92.5 - 102.5	----	----	----	----	----	----	----	----	----	----	3.34 J
M-251-100	9/23/2024	N	EM21	UMCf	92.5 - 102.5	----	----	----	----	----	----	----	----	----	----	0.523
M-251-60	4/18/2022	N	BL02	UMCf	52.3 - 62.3	----	----	----	----	----	----	----	----	----	----	1,510 J-
M-251-60	3/15/2023	N	EM07	UMCf	52.3 - 62.3	----	----	----	----	----	----	----	----	----	----	1,590
M-251-60	6/14/2023	N	EM10	UMCf	52.3 - 62.3	----	----	----	----	----	----	----	----	----	----	1,780
M-251-60	9/14/2023	N	EM13	UMCf	52.3 - 62.3	----	----	----	----	----	----	----	----	----	----	1,740
M-251-60	12/11/2023	N	EM16	UMCf	52.3 - 62.3	----	----	----	----	----	----	----	----	----	----	1,640
M-251-60	3/12/2024	N	EM19	UMCf	52.3 - 62.3	----	----	----	----	----	----	----	----	----	----	325
M-251-60	6/19/2024	N	EM20	UMCf	52.3 - 62.3	----	----	----	----	----	----	----	----	----	----	<0.200
M-251-60	9/20/2024	N	EM21	UMCf	52.3 - 62.3	----	----	----	----	----	----	----	----	----	----	<0.200
M-252	4/21/2022	N	BL02	UMCf	132.3 - 142.3	----	----	----	----	----	----	----	----	----	----	32.5 J
M-252	3/15/2023	N	EM07	UMCf	132.3 - 142.3	----	----	----	----	----	----	----	----	----	----	45.8
M-252	9/19/2023	N	EM13	UMCf	132.3 - 142.3	----	----	----	----	----	----	----	----	----	----	23.5
M-252	12/18/2023	N	EM16	UMCf	132.3 - 142.3	----	----	----	----	----	----	----	----	----	----	6.26
M-252	3/12/2024	N	EM19	UMCf	132.3 - 142.3	----	----	----	----	----	----	----	----	----	----	11.2
M-252	6/19/2024	N	EM20	UMCf	132.3 - 142.3	----	----	----	----	----	----	----	----	----	----	0.361 J
M-252	9/24/2024	N	EM21	UMCf	132.3 - 142.3	----	----	----	----	----	----	----	----	----	----	15.5
M-253-100	4/20/2022	N	BL02	UMCf	100.8 - 110.8	----	----	----	----	----	----	----	----	----	----	598
M-255-100	4/20/2022	N	BL02	UMCf	100.2 - 110.2	----	----	----	----	----	----	----	----	----	----	1,350
U4-E-01D	4/18/2022	N	BL02	UMCf	94.7 - 109.7	----	----	----	----	----	----	----	----	----	----	87,000 J-
U4-E-01D	3/14/2023	N	EM07	UMCf	94.7 - 109.7	----	----	----	----	----	----	----	----	----	----	1.43
U4-E-01D	6/20/2024	N	EM20	UMCf	94.7 - 109.7	----	----	----	----	----	----	----	----	----	----	<200
U4-E-01D	9/25/2024	N	EM21	UMCf	94.7 - 109.7	----	----	----	----	----	----	----	----	----	----	<0.200
U4-E-01I	4/19/2022	N	BL02	UMCf	74.6 - 89.6	----	----	----	----	----	----	----	----	----	----	6,190 J-
U4-E-01I	4/19/2022	FD	BL02	UMCf	74.6 - 89.6	----	----	----	----	----	----	----	----	----	----	7,860 J-
U4-E-01I	3/14/2023	N	EM07	UMCf	74.6 - 89.6	----	----	----	----	----	----	----	----	----	----	16,300

DRAFT

Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW7199
						Copper	Lead	Molybdenum	Nickel	Selenium	Silver	Thallium	Uranium	Vanadium	Zinc	Chromium, Hexavalent
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-E-01I	4/20/2023	N	EM08	UMCf	74.6 - 89.6	----	----	----	----	----	----	----	----	----	----	9,830
U4-E-01I	5/10/2023	N	EM09	UMCf	74.6 - 89.6	----	----	----	----	----	----	----	----	----	----	9,400 J-
U4-E-01I	6/12/2023	N	EM10	UMCf	74.6 - 89.6	----	----	----	----	----	----	----	----	----	----	17,400
U4-E-01I	7/11/2023	N	EM11	UMCf	74.6 - 89.6	----	----	----	----	----	----	----	----	----	----	<30.0
U4-E-01I	8/10/2023	N	EM12	UMCf	74.6 - 89.6	----	----	----	----	----	----	----	----	----	----	0.992
U4-E-01I	9/11/2023	N	EM13	UMCf	74.6 - 89.6	----	----	----	----	----	----	----	----	----	----	22.3
U4-E-01I	10/16/2023	N	EM14	UMCf	74.6 - 89.6	----	----	----	----	----	----	----	----	----	----	10.1
U4-E-01I	12/13/2023	N	EM16	UMCf	74.6 - 89.6	----	----	----	----	----	----	----	----	----	----	17.8
U4-E-01I	1/24/2024	N	EM17	UMCf	74.6 - 89.6	----	----	----	----	----	----	----	----	----	----	71.4
U4-E-01I	2/14/2024	N	EM18	UMCf	74.6 - 89.6	----	----	----	----	----	----	----	----	----	----	6.42
U4-E-01I	3/12/2024	N	EM19	UMCf	74.6 - 89.6	----	----	----	----	----	----	----	----	----	----	16.0 J
U4-E-01I	6/20/2024	N	EM20	UMCf	74.6 - 89.6	----	----	----	----	----	----	----	----	----	----	<200
U4-E-01I	9/25/2024	N	EM21	UMCf	74.6 - 89.6	----	----	----	----	----	----	----	----	----	----	<0.200
U4-E-02D	4/20/2022	N	BL02	UMCf	94.4 - 109.4	----	----	----	----	----	----	----	----	----	----	17,400
U4-E-02D	3/14/2023	N	EM07	UMCf	94.4 - 109.4	----	----	----	----	----	----	----	----	----	----	7.77
U4-E-02D	6/19/2024	N	EM20	UMCf	94.4 - 109.4	----	----	----	----	----	----	----	----	----	----	<200
U4-E-02D	9/27/2024	N	EM21	UMCf	94.4 - 109.4	----	----	----	----	----	----	----	----	----	----	<0.200
U4-E-02I	4/18/2022	N	BL02	UMCf	74.4 - 89.4	----	----	----	----	----	----	----	----	----	----	8,910 J-
U4-E-02I	3/14/2023	N	EM07	UMCf	74.4 - 89.4	----	----	----	----	----	----	----	----	----	----	1,980 J-
U4-E-02I	4/20/2023	N	EM08	UMCf	74.4 - 89.4	----	----	----	----	----	----	----	----	----	----	6,860
U4-E-02I	5/11/2023	N	EM09	UMCf	74.4 - 89.4	----	----	----	----	----	----	----	----	----	----	5,730
U4-E-02I	6/12/2023	N	EM10	UMCf	74.4 - 89.4	----	----	----	----	----	----	----	----	----	----	2,190
U4-E-02I	7/11/2023	N	EM11	UMCf	74.4 - 89.4	----	----	----	----	----	----	----	----	----	----	3,130
U4-E-02I	8/10/2023	N	EM12	UMCf	74.4 - 89.4	----	----	----	----	----	----	----	----	----	----	1.16
U4-E-02I	9/11/2023	N	EM13	UMCf	74.4 - 89.4	----	----	----	----	----	----	----	----	----	----	11.0
U4-E-02I	10/16/2023	N	EM14	UMCf	74.4 - 89.4	----	----	----	----	----	----	----	----	----	----	4.10
U4-E-02I	12/14/2023	N	EM16	UMCf	74.4 - 89.4	----	----	----	----	----	----	----	----	----	----	69.1
U4-E-02I	1/22/2024	N	EM17	UMCf	74.4 - 89.4	----	----	----	----	----	----	----	----	----	----	182
U4-E-02I	2/13/2024	N	EM18	UMCf	74.4 - 89.4	----	----	----	----	----	----	----	----	----	----	143
U4-E-02I	3/13/2024	N	EM19	UMCf	74.4 - 89.4	----	----	----	----	----	----	----	----	----	----	84.0
U4-E-02I	6/19/2024	N	EM20	UMCf	74.4 - 89.4	----	----	----	----	----	----	----	----	----	----	690
U4-E-02I	9/24/2024	N	EM21	UMCf	74.4 - 89.4	----	----	----	----	----	----	----	----	----	----	58.4
U4-E-03D	4/19/2022	N	BL02	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	77,900 J-
U4-E-03D	10/13/2022	N	EM02	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	48,700
U4-E-03D	11/3/2022	N	EM03	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	44,000
U4-E-03D	12/6/2022	N	EM04	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	37,000 J-
U4-E-03D	1/9/2023	N	EM05	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	36,100
U4-E-03D	2/13/2023	N	EM06	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	34,100
U4-E-03D	3/13/2023	N	EM07	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	35,600
U4-E-03D	3/14/2023	N	EM07	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	35,400
U4-E-03D	4/19/2023	N	EM08	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	35,400
U4-E-03D	5/11/2023	N	EM09	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	28,600
U4-E-03D	6/12/2023	N	EM10	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	35,500
U4-E-03D	7/11/2023	N	EM11	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	38,500
U4-E-03D	8/10/2023	N	EM12	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	36,200
U4-E-03D	9/11/2023	N	EM13	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	35,700
U4-E-03D	10/16/2023	N	EM14	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	35,100

DRAFT

Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW7199
						Copper	Lead	Molybdenum	Nickel	Selenium	Silver	Thallium	Uranium	Vanadium	Zinc	Chromium, Hexavalent
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-E-03D	6/10/2024	N	EM20	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	<200
U4-E-03D	6/10/2024	FD	EM20	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	<200
U4-E-03D	9/27/2024	N	EM21	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	<0.200
U4-E-03D	9/27/2024	FD	EM21	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	<0.200
U4-E-04D	4/19/2022	N	BL02	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	37,500 J-
U4-E-04D	3/14/2023	N	EM07	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	0.538
U4-E-04D	6/20/2024	N	EM20	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	<200
U4-E-04D	9/26/2024	N	EM21	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	<0.200
U4-E-04I	4/18/2022	N	BL02	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	3,380 J-
U4-E-04I	3/14/2023	N	EM07	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	60,300
U4-E-04I	6/20/2024	N	EM20	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	<200
U4-E-04I	9/26/2024	N	EM21	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	<0.200
U4-E-05D	4/19/2022	N	BL02	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	47,900 J-
U4-E-05D	3/16/2023	N	EM07	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	0.272 J
U4-E-05D	6/10/2024	N	EM20	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	<200
U4-E-05D	9/27/2024	N	EM21	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	<0.200
U4-E-05I	4/19/2022	N	BL02	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	5,710 J-
U4-E-05I	3/15/2023	N	EM07	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	8,200
U4-E-05I	6/19/2024	N	EM20	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	<20.0
U4-E-05I	9/27/2024	N	EM21	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	<0.200
U4-E-06D	4/11/2022	N	BL02	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	10,800
U4-E-06D	6/20/2024	N	EM20	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	<200
U4-E-06D	9/27/2024	N	EM21	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----	----	<0.200
U4-E-06I	4/11/2022	N	BL02	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	2,420
U4-E-06I	4/11/2022	FD	BL02	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	3,210
U4-E-06I	10/12/2022	N	EM02	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	9,930
U4-E-06I	11/3/2022	N	EM03	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	3,080
U4-E-06I	12/6/2022	N	EM04	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	1,860 J-
U4-E-06I	1/9/2023	N	EM05	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	17,700
U4-E-06I	2/13/2023	N	EM06	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	158 J-
U4-E-06I	3/13/2023	N	EM07	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	34.3 J-
U4-E-06I	4/17/2023	N	EM08	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	1,190
U4-E-06I	5/15/2023	N	EM09	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	37,200
U4-E-06I	6/12/2023	N	EM10	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	25,300
U4-E-06I	7/11/2023	N	EM11	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	22,800
U4-E-06I	8/11/2023	N	EM12	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	28,200
U4-E-06I	9/11/2023	N	EM13	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	7.42
U4-E-06I	10/16/2023	N	EM14	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	30.1
U4-E-06I	12/13/2023	N	EM16	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	28.7
U4-E-06I	1/22/2024	N	EM17	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	0.676
U4-E-06I	2/13/2024	N	EM18	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	8.67
U4-E-06I	3/11/2024	N	EM19	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	<3.00
U4-E-06I	6/11/2024	N	EM20	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	9.80
U4-E-06I	9/27/2024	N	EM21	UMCf	73.2 - 88.2	----	----	----	----	----	----	----	----	----	----	<0.200
U4-E-07D	4/12/2022	N	BL02	UMCf	94.6 - 109.6	----	----	----	----	----	----	----	----	----	----	76,300 J-
U4-E-07D	6/20/2024	N	EM20	UMCf	94.6 - 109.6	----	----	----	----	----	----	----	----	----	----	<200
U4-E-07D	9/26/2024	N	EM21	UMCf	94.6 - 109.6	----	----	----	----	----	----	----	----	----	----	<0.200

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW7199
						Copper	Lead	Molybdenum	Nickel	Selenium	Silver	Thallium	Uranium	Vanadium	Zinc	Chromium, Hexavalent
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-E-07I	4/12/2022	N	BL02	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	12,200 J
U4-E-07I	10/11/2022	N	EM02	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	48,700
U4-E-07I	11/3/2022	N	EM03	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	42,300 J-
U4-E-07I	12/6/2022	N	EM04	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	38,500
U4-E-07I	1/9/2023	N	EM05	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	39,800
U4-E-07I	2/13/2023	N	EM06	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	43,200
U4-E-07I	3/13/2023	N	EM07	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	41,600
U4-E-07I	4/19/2023	N	EM08	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	35,400
U4-E-07I	5/15/2023	N	EM09	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	31,700
U4-E-07I	6/12/2023	N	EM10	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	29,400
U4-E-07I	7/11/2023	N	EM11	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	33,100
U4-E-07I	8/11/2023	N	EM12	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	30,400
U4-E-07I	9/11/2023	N	EM13	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	36,500
U4-E-07I	10/16/2023	N	EM14	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	37,600
U4-E-07I	12/13/2023	N	EM16	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	36,600
U4-E-07I	1/23/2024	N	EM17	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	35,200
U4-E-07I	2/13/2024	N	EM18	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	36,400
U4-E-07I	3/11/2024	N	EM19	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	33,100
U4-E-07I	6/11/2024	N	EM20	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	28,400
U4-E-07I	9/26/2024	N	EM21	UMCf	74.7 - 89.7	----	----	----	----	----	----	----	----	----	----	29,300 J-
U4-E-08D	4/12/2022	N	BL02	UMCf	94.6 - 109.6	----	----	----	----	----	----	----	----	----	----	85,100 J-
U4-E-08D	10/11/2022	N	EM02	UMCf	94.6 - 109.6	----	----	----	----	----	----	----	----	----	----	69,700
U4-E-08D	11/3/2022	N	EM03	UMCf	94.6 - 109.6	----	----	----	----	----	----	----	----	----	----	60,100 J-
U4-E-08D	12/6/2022	N	EM04	UMCf	94.6 - 109.6	----	----	----	----	----	----	----	----	----	----	52,600 J-
U4-E-08D	1/9/2023	N	EM05	UMCf	94.6 - 109.6	----	----	----	----	----	----	----	----	----	----	52,500
U4-E-08D	2/13/2023	N	EM06	UMCf	94.6 - 109.6	----	----	----	----	----	----	----	----	----	----	51,000
U4-E-08D	3/13/2023	N	EM07	UMCf	94.6 - 109.6	----	----	----	----	----	----	----	----	----	----	47,800
U4-E-08D	4/19/2023	N	EM08	UMCf	94.6 - 109.6	----	----	----	----	----	----	----	----	----	----	42,700
U4-E-08D	5/17/2023	N	EM09	UMCf	94.6 - 109.6	----	----	----	----	----	----	----	----	----	----	37,700
U4-E-08D	6/12/2023	N	EM10	UMCf	94.6 - 109.6	----	----	----	----	----	----	----	----	----	----	36,800
U4-E-08D	7/11/2023	N	EM11	UMCf	94.6 - 109.6	----	----	----	----	----	----	----	----	----	----	42,100
U4-E-09D	4/15/2022	N	BL02	UMCf	94.5 - 109.5	----	----	----	----	----	----	----	----	----	----	26,400 J-
U4-E-09D	6/10/2024	N	EM20	UMCf	94.5 - 109.5	----	----	----	----	----	----	----	----	----	----	<200
U4-E-09D	9/27/2024	N	EM21	UMCf	94.5 - 109.5	----	----	----	----	----	----	----	----	----	----	<0.200
U4-E-09I	4/14/2022	N	BL02	UMCf	74.9 - 89.9	----	----	----	----	----	----	----	----	----	----	13,000
U4-E-09I	6/10/2024	N	EM20	UMCf	74.9 - 89.9	----	----	----	----	----	----	----	----	----	----	<200
U4-E-09I	6/10/2024	FD	EM20	UMCf	74.9 - 89.9	----	----	----	----	----	----	----	----	----	----	<200
U4-E-09I	9/26/2024	N	EM21	UMCf	74.9 - 89.9	27.3 J	<7.64 UJ	8.74 J	7.85 J	3.58 J	<0.630 UJ	<1.09 UJ	0.719 J	15.6 J	<27.2 UJ	<0.200 UJ
U4-E-09I	9/26/2024	FD	EM21	UMCf	74.9 - 89.9	13.8 J	<7.64 UJ	5.17 J	<7.34 UJ	<2.70 UJ	<0.630 UJ	<1.09 UJ	<0.710 UJ	11.2 J	<27.2 UJ	23.0 J
U4-E-10D	4/13/2022	N	BL02	UMCf	94.5 - 109.5	----	----	----	----	----	----	----	----	----	----	9,360
U4-E-10D	6/19/2024	N	EM20	UMCf	94.5 - 109.5	----	----	----	----	----	----	----	----	----	----	<20.0
U4-E-10D	9/25/2024	N	EM21	UMCf	94.5 - 109.5	----	----	----	----	----	----	----	----	----	----	<0.200
U4-E-10I	4/13/2022	N	BL02	UMCf	74.2 - 89.2	----	----	----	----	----	----	----	----	----	----	17,000
U4-E-10I	6/11/2024	N	EM20	UMCf	74.2 - 89.2	----	----	----	----	----	----	----	----	----	----	<200
U4-E-10I	9/26/2024	N	EM21	UMCf	74.2 - 89.2	17.4 J	<7.64 UJ	13.8 J	<7.34 UJ	5.37 J	<0.630 UJ	<1.09 UJ	0.844 J	16.8 J	<27.2 UJ	0.608
U4-MW-01D	4/19/2022	N	BL02	UMCf	96.7 - 106.7	----	----	----	----	----	----	----	----	----	----	16,500 J-
U4-MW-01D	2/16/2023	N	EM06	UMCf	96.7 - 106.7	----	----	----	----	----	----	----	----	----	----	31,700

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW7199
						Copper	Lead	Molybdenum	Nickel	Selenium	Silver	Thallium	Uranium	Vanadium	Zinc	Chromium, Hexavalent
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-01D	3/20/2023	N	EM07	UMCf	96.7 - 106.7	----	----	----	----	----	----	----	----	----	----	26,300
U4-MW-01D	6/13/2023	N	EM10	UMCf	96.7 - 106.7	----	----	----	----	----	----	----	----	----	----	19,500
U4-MW-01D	9/14/2023	N	EM13	UMCf	96.7 - 106.7	----	----	----	----	----	----	----	----	----	----	18,300
U4-MW-01D	12/14/2023	N	EM16	UMCf	96.7 - 106.7	----	----	----	----	----	----	----	----	----	----	16,000
U4-MW-01D	3/13/2024	N	EM19	UMCf	96.7 - 106.7	----	----	----	----	----	----	----	----	----	----	13,900
U4-MW-01D	6/18/2024	N	EM20	UMCf	96.7 - 106.7	----	----	----	----	----	----	----	----	----	----	12,900
U4-MW-01D	9/19/2024	N	EM21	UMCf	96.7 - 106.7	----	----	----	----	----	----	----	----	----	----	13,200
U4-MW-01DD	4/19/2022	N	BL02	UMCf	119.9 - 129.9	----	----	----	----	----	----	----	----	----	----	477 J
U4-MW-01DD	4/19/2022	FD	BL02	UMCf	119.9 - 129.9	----	----	----	----	----	----	----	----	----	----	458 J
U4-MW-01DD	3/15/2023	N	EM07	UMCf	119.9 - 129.9	----	----	----	----	----	----	----	----	----	----	11,400
U4-MW-01DD	6/13/2023	N	EM10	UMCf	119.9 - 129.9	----	----	----	----	----	----	----	----	----	----	9,380
U4-MW-01DD	9/14/2023	N	EM13	UMCf	119.9 - 129.9	----	----	----	----	----	----	----	----	----	----	11,000
U4-MW-01DD	12/15/2023	N	EM16	UMCf	119.9 - 129.9	----	----	----	----	----	----	----	----	----	----	5,040
U4-MW-01DD	3/12/2024	N	EM19	UMCf	119.9 - 129.9	----	----	----	----	----	----	----	----	----	----	6,510
U4-MW-01DD	6/18/2024	N	EM20	UMCf	119.9 - 129.9	----	----	----	----	----	----	----	----	----	----	4,490
U4-MW-01DD	9/20/2024	N	EM21	UMCf	119.9 - 129.9	----	----	----	----	----	----	----	----	----	----	2,830
U4-MW-01I	4/19/2022	N	BL02	UMCf	76.7 - 86.7	----	----	----	----	----	----	----	----	----	----	<150 UJ
U4-MW-01I	3/20/2023	N	EM07	UMCf	76.7 - 86.7	----	----	----	----	----	----	----	----	----	----	26,500
U4-MW-01I	6/12/2023	N	EM10	UMCf	76.7 - 86.7	----	----	----	----	----	----	----	----	----	----	18,000
U4-MW-01I	9/14/2023	N	EM13	UMCf	76.7 - 86.7	----	----	----	----	----	----	----	----	----	----	19,300
U4-MW-01I	12/15/2023	N	EM16	UMCf	76.7 - 86.7	----	----	----	----	----	----	----	----	----	----	19,600
U4-MW-01I	3/13/2024	N	EM19	UMCf	76.7 - 86.7	----	----	----	----	----	----	----	----	----	----	18,200
U4-MW-01I	6/18/2024	N	EM20	UMCf	76.7 - 86.7	----	----	----	----	----	----	----	----	----	----	16,400
U4-MW-01I	9/19/2024	N	EM21	UMCf	76.7 - 86.7	----	----	----	----	----	----	----	----	----	----	16,900
U4-MW-01S	4/18/2022	N	BL02	UMCf	54.7 - 64.7	----	----	----	----	----	----	----	----	----	----	1,770 J-
U4-MW-01S	3/15/2023	N	EM07	UMCf	54.7 - 64.7	----	----	----	----	----	----	----	----	----	----	1,330
U4-MW-01S	6/13/2023	N	EM10	UMCf	54.7 - 64.7	----	----	----	----	----	----	----	----	----	----	1,440
U4-MW-01S	9/15/2023	N	EM13	UMCf	54.7 - 64.7	----	----	----	----	----	----	----	----	----	----	1,460
U4-MW-01S	12/13/2023	N	EM16	UMCf	54.7 - 64.7	----	----	----	----	----	----	----	----	----	----	1,160
U4-MW-01S	3/13/2024	N	EM19	UMCf	54.7 - 64.7	----	----	----	----	----	----	----	----	----	----	760
U4-MW-01S	6/18/2024	N	EM20	UMCf	54.7 - 64.7	----	----	----	----	----	----	----	----	----	----	263
U4-MW-01S	9/20/2024	N	EM21	UMCf	54.7 - 64.7	----	----	----	----	----	----	----	----	----	----	<20.0
U4-MW-02D	4/14/2022	N	BL02	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	95,800
U4-MW-02D	10/11/2022	N	EM02	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	148,000
U4-MW-02D	11/1/2022	N	EM03	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	139,000
U4-MW-02D	12/7/2022	N	EM04	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	152,000 J-
U4-MW-02D	1/10/2023	N	EM05	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	110,000
U4-MW-02D	2/13/2023	N	EM06	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	120,000 J-
U4-MW-02D	3/17/2023	N	EM07	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	106,000
U4-MW-02D	4/19/2023	N	EM08	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	122,000
U4-MW-02D	5/9/2023	N	EM09	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	107,000 J-
U4-MW-02D	6/13/2023	N	EM10	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	95,500
U4-MW-02D	7/18/2023	N	EM11	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	109,000
U4-MW-02D	8/14/2023	N	EM12	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	96,200
U4-MW-02D	9/11/2023	N	EM13	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	92,700
U4-MW-02D	10/19/2023	N	EM14	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	115,000
U4-MW-02D	11/15/2023	N	EM15	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	87,500

Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW7199
						Copper	Lead	Molybdenum	Nickel	Selenium	Silver	Thallium	Uranium	Vanadium	Zinc	Chromium, Hexavalent
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-02D	12/14/2023	N	EM16	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	84,100
U4-MW-02D	1/25/2024	N	EM17	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	76,700
U4-MW-02D	2/12/2024	N	EM18	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	77,500
U4-MW-02D	3/13/2024	N	EM19	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	76,000
U4-MW-02D	6/17/2024	N	EM20	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	62,500
U4-MW-02D	9/23/2024	N	EM21	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----	----	75,800 J-
U4-MW-02I	4/14/2022	N	BL02	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	12,800
U4-MW-02I	10/11/2022	N	EM02	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	33,900
U4-MW-02I	11/2/2022	N	EM03	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	48,200
U4-MW-02I	11/2/2022	FD	EM03	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	46,600
U4-MW-02I	12/8/2022	N	EM04	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	3,720 J-
U4-MW-02I	12/8/2022	FD	EM04	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	3,620
U4-MW-02I	1/13/2023	N	EM05	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	21,700
U4-MW-02I	1/13/2023	FD	EM05	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	21,900
U4-MW-02I	2/15/2023	N	EM06	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	69,100 J-
U4-MW-02I	2/15/2023	FD	EM06	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	69,400 J-
U4-MW-02I	3/17/2023	N	EM07	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	69,400
U4-MW-02I	3/17/2023	FD	EM07	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	68,600
U4-MW-02I	4/20/2023	N	EM08	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	3.98 J-
U4-MW-02I	4/20/2023	FD	EM08	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	4.15 J-
U4-MW-02I	5/9/2023	N	EM09	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	4.96
U4-MW-02I	5/9/2023	FD	EM09	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	5.57
U4-MW-02I	6/12/2023	N	EM10	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	1.15
U4-MW-02I	6/12/2023	FD	EM10	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	1.28
U4-MW-02I	7/18/2023	N	EM11	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	0.301 J
U4-MW-02I	7/18/2023	FD	EM11	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	0.573
U4-MW-02I	8/11/2023	N	EM12	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	6,390
U4-MW-02I	8/11/2023	FD	EM12	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	5,680
U4-MW-02I	9/11/2023	N	EM13	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	867
U4-MW-02I	9/11/2023	FD	EM13	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	869
U4-MW-02I	10/19/2023	N	EM14	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	24,700
U4-MW-02I	10/19/2023	FD	EM14	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	25,000
U4-MW-02I	11/15/2023	N	EM15	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	20,000
U4-MW-02I	11/15/2023	FD	EM15	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	19,300
U4-MW-02I	12/14/2023	N	EM16	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	24,300
U4-MW-02I	12/14/2023	FD	EM16	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	24,700
U4-MW-02I	1/25/2024	N	EM17	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	35,900
U4-MW-02I	1/25/2024	FD	EM17	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	35,800
U4-MW-02I	2/12/2024	N	EM18	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	36,200
U4-MW-02I	2/12/2024	FD	EM18	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	36,000
U4-MW-02I	3/13/2024	N	EM19	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	32,800
U4-MW-02I	3/13/2024	FD	EM19	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	32,800
U4-MW-02I	6/17/2024	N	EM20	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	1,090
U4-MW-02I	6/17/2024	FD	EM20	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	1,070
U4-MW-02I	9/23/2024	N	EM21	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	6,550
U4-MW-02I	9/23/2024	FD	EM21	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----	----	----	5,230
U4-MW-03D	4/20/2022	N	BL02	UMCf	96.6 - 106.6	----	----	----	----	----	----	----	----	----	----	42,100

DRAFT

Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW7199
						Copper	Lead	Molybdenum	Nickel	Selenium	Silver	Thallium	Uranium	Vanadium	Zinc	Chromium, Hexavalent
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-03D	2/16/2023	N	EM06	UMCf	96.6 - 106.6	----	----	----	----	----	----	----	----	----	----	31,800
U4-MW-03D	3/16/2023	N	EM07	UMCf	96.6 - 106.6	----	----	----	----	----	----	----	----	----	----	28,100
U4-MW-03D	3/16/2023	FD	EM07	UMCf	96.6 - 106.6	----	----	----	----	----	----	----	----	----	----	27,200
U4-MW-03D	6/15/2023	N	EM10	UMCf	96.6 - 106.6	----	----	----	----	----	----	----	----	----	----	28,000
U4-MW-03D	9/14/2023	N	EM13	UMCf	96.6 - 106.6	----	----	----	----	----	----	----	----	----	----	34,700 J
U4-MW-03D	12/13/2023	N	EM16	UMCf	96.6 - 106.6	----	----	----	----	----	----	----	----	----	----	25,300
U4-MW-03D	3/15/2024	N	EM19	UMCf	96.6 - 106.6	----	----	----	----	----	----	----	----	----	----	14,800
U4-MW-03D	6/17/2024	N	EM20	UMCf	96.6 - 106.6	----	----	----	----	----	----	----	----	----	----	5,300
U4-MW-03D	9/18/2024	N	EM21	UMCf	96.6 - 106.6	----	----	----	----	----	----	----	----	----	----	8,260
U4-MW-03DD	4/20/2022	N	BL02	UMCf	119.7 - 129.7	----	----	----	----	----	----	----	----	----	----	2,660
U4-MW-03DD	3/15/2023	N	EM07	UMCf	119.7 - 129.7	----	----	----	----	----	----	----	----	----	----	60.5
U4-MW-03DD	6/15/2023	N	EM10	UMCf	119.7 - 129.7	----	----	----	----	----	----	----	----	----	----	42.9
U4-MW-03DD	9/14/2023	N	EM13	UMCf	119.7 - 129.7	----	----	----	----	----	----	----	----	----	----	20.7
U4-MW-03DD	12/14/2023	N	EM16	UMCf	119.7 - 129.7	----	----	----	----	----	----	----	----	----	----	33.8
U4-MW-03DD	3/14/2024	N	EM19	UMCf	119.7 - 129.7	----	----	----	----	----	----	----	----	----	----	35.6
U4-MW-03DD	6/17/2024	N	EM20	UMCf	119.7 - 129.7	----	----	----	----	----	----	----	----	----	----	25.0
U4-MW-03DD	9/18/2024	N	EM21	UMCf	119.7 - 129.7	----	----	----	----	----	----	----	----	----	----	23.6
U4-MW-03I	4/19/2022	N	BL02	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	<150 UJ
U4-MW-03I	3/15/2023	N	EM07	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	24,500
U4-MW-03I	6/14/2023	N	EM10	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	11,400
U4-MW-03I	6/14/2023	FD	EM10	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	11,500
U4-MW-03I	9/11/2023	N	EM13	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	26,400
U4-MW-03I	9/11/2023	FD	EM13	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	26,700
U4-MW-03I	12/13/2023	N	EM16	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	22,900
U4-MW-03I	12/13/2023	FD	EM16	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	22,800
U4-MW-03I	3/14/2024	N	EM19	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	13,000
U4-MW-03I	3/14/2024	FD	EM19	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	13,100
U4-MW-03I	6/19/2024	N	EM20	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	605
U4-MW-03I	6/19/2024	FD	EM20	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	576
U4-MW-03I	9/20/2024	N	EM21	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	<200
U4-MW-03I	9/20/2024	FD	EM21	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	<0.200
U4-MW-03S	4/18/2022	N	BL02	UMCf	54.5 - 64.5	----	----	----	----	----	----	----	----	----	----	1,390 J-
U4-MW-03S	4/18/2022	FD	BL02	UMCf	54.5 - 64.5	----	----	----	----	----	----	----	----	----	----	1,390 J-
U4-MW-03S	3/15/2023	N	EM07	UMCf	54.5 - 64.5	----	----	----	----	----	----	----	----	----	----	2,300
U4-MW-03S	6/15/2023	N	EM10	UMCf	54.5 - 64.5	----	----	----	----	----	----	----	----	----	----	2,470
U4-MW-03S	9/14/2023	N	EM13	UMCf	54.5 - 64.5	----	----	----	----	----	----	----	----	----	----	1,840
U4-MW-03S	12/13/2023	N	EM16	UMCf	54.5 - 64.5	----	----	----	----	----	----	----	----	----	----	1,210
U4-MW-03S	3/14/2024	N	EM19	UMCf	54.5 - 64.5	----	----	----	----	----	----	----	----	----	----	641
U4-MW-03S	6/14/2024	N	EM20	UMCf	54.5 - 64.5	----	----	----	----	----	----	----	----	----	----	363
U4-MW-03S	9/18/2024	N	EM21	UMCf	54.5 - 64.5	----	----	----	----	----	----	----	----	----	----	32.4
U4-MW-04D	4/19/2022	N	BL02	UMCf	97.0 - 107.0	----	----	----	----	----	----	----	----	----	----	103,000 J
U4-MW-04D	2/16/2023	N	EM06	UMCf	97.0 - 107.0	----	----	----	----	----	----	----	----	----	----	18,300
U4-MW-04D	3/21/2023	N	EM07	UMCf	97.0 - 107.0	----	----	----	----	----	----	----	----	----	----	14,300
U4-MW-04D	6/14/2023	N	EM10	UMCf	97.0 - 107.0	----	----	----	----	----	----	----	----	----	----	5,350
U4-MW-04D	9/15/2023	N	EM13	UMCf	97.0 - 107.0	----	----	----	----	----	----	----	----	----	----	19,800
U4-MW-04D	12/12/2023	N	EM16	UMCf	97.0 - 107.0	----	----	----	----	----	----	----	----	----	----	12,000
U4-MW-04D	3/12/2024	N	EM19	UMCf	97.0 - 107.0	----	----	----	----	----	----	----	----	----	----	13,300

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Copper	Lead	Molybdenum	Nickel	Selenium	Silver	Thallium	Uranium	Vanadium	Zinc	Chromium, Hexavalent
						SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW7199
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-04D	6/19/2024	N	EM20	UMCf	97.0 - 107.0	----	----	----	----	----	----	----	----	----	----	16,800
U4-MW-04D	9/24/2024	N	EM21	UMCf	97.0 - 107.0	----	----	----	----	----	----	----	----	----	----	27,500
U4-MW-04I	4/19/2022	N	BL02	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	34,300 J-
U4-MW-04I	3/20/2023	N	EM07	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	38,600
U4-MW-04I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	34,300
U4-MW-04I	9/14/2023	N	EM13	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	63,400
U4-MW-04I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	59,900
U4-MW-04I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	64,000
U4-MW-04I	6/18/2024	N	EM20	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	61,800
U4-MW-04I	9/24/2024	N	EM21	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	64,700
U4-MW-05D	4/15/2022	N	BL02	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	73,100 J-
U4-MW-05D	10/13/2022	N	EM02	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	69,500
U4-MW-05D	11/3/2022	N	EM03	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	46,500
U4-MW-05D	12/7/2022	N	EM04	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	44,900
U4-MW-05D	1/11/2023	N	EM05	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	44,700
U4-MW-05D	2/14/2023	N	EM06	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	31,800
U4-MW-05D	3/16/2023	N	EM07	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	28,200
U4-MW-05D	4/20/2023	N	EM08	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	18,900
U4-MW-05D	5/10/2023	N	EM09	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	10,400
U4-MW-05D	6/15/2023	N	EM10	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	5,460
U4-MW-05D	7/18/2023	N	EM11	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	7,530
U4-MW-05D	8/14/2023	N	EM12	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	15,300
U4-MW-05D	9/12/2023	N	EM13	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	2,260
U4-MW-05D	10/18/2023	N	EM14	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	10,200
U4-MW-05D	11/16/2023	N	EM15	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	10,800
U4-MW-05D	12/14/2023	N	EM16	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	697
U4-MW-05D	1/26/2024	N	EM17	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	4,790
U4-MW-05D	2/14/2024	N	EM18	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	4,090
U4-MW-05D	3/12/2024	N	EM19	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	3,640
U4-MW-05D	6/18/2024	N	EM20	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	2,550
U4-MW-05D	9/25/2024	N	EM21	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	8,300
U4-MW-05I	4/15/2022	N	BL02	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	42,800 J-
U4-MW-05I	10/13/2022	N	EM02	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	70,800
U4-MW-05I	11/3/2022	N	EM03	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	61,900 J-
U4-MW-05I	12/8/2022	N	EM04	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	49,600
U4-MW-05I	1/11/2023	N	EM05	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	45,300
U4-MW-05I	2/14/2023	N	EM06	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	36,900
U4-MW-05I	3/14/2023	N	EM07	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	30,400
U4-MW-05I	4/21/2023	N	EM08	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	5,170
U4-MW-05I	5/10/2023	N	EM09	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	1.83
U4-MW-05I	6/15/2023	N	EM10	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	4.86
U4-MW-05I	7/17/2023	N	EM11	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	5,340
U4-MW-05I	8/14/2023	N	EM12	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	1,150
U4-MW-05I	9/13/2023	N	EM13	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	293
U4-MW-05I	10/18/2023	N	EM14	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	390
U4-MW-05I	11/15/2023	N	EM15	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	279
U4-MW-05I	12/12/2023	N	EM16	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	607

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW7199
						Copper	Lead	Molybdenum	Nickel	Selenium	Silver	Thallium	Uranium	Vanadium	Zinc	Chromium, Hexavalent
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-05I	1/26/2024	N	EM17	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	33.0 J
U4-MW-05I	2/14/2024	N	EM18	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	97.6
U4-MW-05I	3/11/2024	N	EM19	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	103
U4-MW-05I	6/18/2024	N	EM20	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	5,910
U4-MW-05I	9/25/2024	N	EM21	UMCf	76.6 - 86.6	----	----	----	----	----	----	----	----	----	----	1,350
U4-MW-06D	4/19/2022	N	BL02	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	73,100 J-
U4-MW-06D	2/15/2023	N	EM06	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	36,900 J-
U4-MW-06D	3/21/2023	N	EM07	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	36,500
U4-MW-06D	6/16/2023	N	EM10	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	29,300
U4-MW-06D	9/13/2023	N	EM13	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	31,500
U4-MW-06D	12/13/2023	N	EM16	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	39,100
U4-MW-06D	3/14/2024	N	EM19	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	27,100
U4-MW-06D	6/12/2024	N	EM20	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	28,500
U4-MW-06D	9/20/2024	N	EM21	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	8,930
U4-MW-06I	4/19/2022	N	BL02	UMCf	76.5 - 86.5	----	----	----	----	----	----	----	----	----	----	3,070 J-
U4-MW-06I	3/14/2023	N	EM07	UMCf	76.5 - 86.5	----	----	----	----	----	----	----	----	----	----	42,800
U4-MW-06I	6/16/2023	N	EM10	UMCf	76.5 - 86.5	----	----	----	----	----	----	----	----	----	----	29,000
U4-MW-06I	9/12/2023	N	EM13	UMCf	76.5 - 86.5	----	----	----	----	----	----	----	----	----	----	35,200
U4-MW-06I	12/12/2023	N	EM16	UMCf	76.5 - 86.5	----	----	----	----	----	----	----	----	----	----	40,300
U4-MW-06I	3/14/2024	N	EM19	UMCf	76.5 - 86.5	----	----	----	----	----	----	----	----	----	----	26,900
U4-MW-06I	6/11/2024	N	EM20	UMCf	76.5 - 86.5	----	----	----	----	----	----	----	----	----	----	5,730
U4-MW-06I	9/20/2024	N	EM21	UMCf	76.5 - 86.5	----	----	----	----	----	----	----	----	----	----	1,290
U4-MW-07D	4/15/2022	N	BL02	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	23,900 J+
U4-MW-07D	10/12/2022	N	EM02	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	2,080
U4-MW-07D	10/12/2022	FD	EM02	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	2,120
U4-MW-07D	11/3/2022	N	EM03	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	1,610 J-
U4-MW-07D	12/7/2022	N	EM04	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	1,080 J-
U4-MW-07D	1/11/2023	N	EM05	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	1,380 J-
U4-MW-07D	2/14/2023	N	EM06	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	1,250 J-
U4-MW-07D	3/16/2023	N	EM07	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	922
U4-MW-07D	4/21/2023	N	EM08	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	5,020
U4-MW-07D	5/11/2023	N	EM09	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	692
U4-MW-07D	6/13/2023	N	EM10	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	1,160 J-
U4-MW-07D	7/17/2023	N	EM11	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	29,900
U4-MW-07D	8/11/2023	N	EM12	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	26,900
U4-MW-07D	9/13/2023	N	EM13	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	15,700
U4-MW-07D	10/18/2023	N	EM14	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	23,100
U4-MW-07D	11/16/2023	N	EM15	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	22,500
U4-MW-07D	12/12/2023	N	EM16	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	3,150
U4-MW-07D	1/26/2024	N	EM17	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	722
U4-MW-07D	2/13/2024	N	EM18	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	<15.0
U4-MW-07D	3/11/2024	N	EM19	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	46.1 J
U4-MW-07D	6/12/2024	N	EM20	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	4.78 J
U4-MW-07D	9/18/2024	N	EM21	UMCf	96.8 - 106.5	----	----	----	----	----	----	----	----	----	----	<0.200
U4-MW-07I	4/15/2022	N	BL02	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	4,810 J+
U4-MW-07I	10/12/2022	N	EM02	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	2,720
U4-MW-07I	11/3/2022	N	EM03	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	1,650 J-

Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	SW6020 Copper µg/L	SW6020 Lead µg/L	SW6020 Molybdenum µg/L	SW6020 Nickel µg/L	SW6020 Selenium µg/L	SW6020 Silver µg/L	SW6020 Thallium µg/L	SW6020 Uranium µg/L	SW6020 Vanadium µg/L	SW6020 Zinc µg/L	SW7199 Chromium, Hexavalent µg/L
U4-MW-07I	12/7/2022	N	EM04	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	1,360 J-
U4-MW-07I	1/11/2023	N	EM05	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	1,810 J-
U4-MW-07I	2/15/2023	N	EM06	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	2,640 J-
U4-MW-07I	3/16/2023	N	EM07	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	2,670 J-
U4-MW-07I	4/21/2023	N	EM08	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	4,860
U4-MW-07I	5/11/2023	N	EM09	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	0.158 J
U4-MW-07I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	<15.0
U4-MW-07I	7/17/2023	N	EM11	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	1,900
U4-MW-07I	8/11/2023	N	EM12	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	7,420 J-
U4-MW-07I	9/13/2023	N	EM13	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	4,220
U4-MW-07I	10/18/2023	N	EM14	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	340
U4-MW-07I	11/16/2023	N	EM15	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	4,230
U4-MW-07I	12/11/2023	N	EM16	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	2,720
U4-MW-07I	1/26/2024	N	EM17	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	116
U4-MW-07I	2/13/2024	N	EM18	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	255
U4-MW-07I	3/11/2024	N	EM19	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	<15.0
U4-MW-07I	6/12/2024	N	EM20	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	7.67
U4-MW-07I	9/18/2024	N	EM21	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	<0.200
U4-MW-08D	4/13/2022	N	BL02	UMCf	98.6 - 108.6	----	----	----	----	----	----	----	----	----	----	106,000
U4-MW-08D	12/7/2022	N	EM04	UMCf	98.6 - 108.6	----	----	----	----	----	----	----	----	----	----	52,900 J-
U4-MW-08D	3/17/2023	N	EM07	UMCf	98.6 - 108.6	----	----	----	----	----	----	----	----	----	----	44,800
U4-MW-08D	6/13/2023	N	EM10	UMCf	98.6 - 108.6	----	----	----	----	----	----	----	----	----	----	55,900
U4-MW-08D	9/13/2023	N	EM13	UMCf	98.6 - 108.6	----	----	----	----	----	----	----	----	----	----	85,600
U4-MW-08D	12/11/2023	N	EM16	UMCf	98.6 - 108.6	----	----	----	----	----	----	----	----	----	----	75,900
U4-MW-08D	3/12/2024	N	EM19	UMCf	98.6 - 108.6	----	----	----	----	----	----	----	----	----	----	49,100
U4-MW-08D	6/14/2024	N	EM20	UMCf	98.6 - 108.6	----	----	----	----	----	----	----	----	----	----	78,900
U4-MW-08D	9/23/2024	N	EM21	UMCf	98.6 - 108.6	----	----	----	----	----	----	----	----	----	----	74,700
U4-MW-08DD	4/20/2022	N	BL02	UMCf	119.8 - 129.8	----	----	----	----	----	----	----	----	----	----	694
U4-MW-08DD	4/20/2022	FD	BL02	UMCf	119.8 - 129.8	----	----	----	----	----	----	----	----	----	----	723
U4-MW-08DD	12/8/2022	N	EM04	UMCf	119.8 - 129.8	----	----	----	----	----	----	----	----	----	----	384
U4-MW-08DD	3/15/2023	N	EM07	UMCf	119.8 - 129.8	----	----	----	----	----	----	----	----	----	----	1,280
U4-MW-08DD	6/14/2023	N	EM10	UMCf	119.8 - 129.8	----	----	----	----	----	----	----	----	----	----	1,270
U4-MW-08DD	9/14/2023	N	EM13	UMCf	119.8 - 129.8	----	----	----	----	----	----	----	----	----	----	504
U4-MW-08DD	12/14/2023	N	EM16	UMCf	119.8 - 129.8	----	----	----	----	----	----	----	----	----	----	513
U4-MW-08DD	3/14/2024	N	EM19	UMCf	119.8 - 129.8	----	----	----	----	----	----	----	----	----	----	387
U4-MW-08DD	6/12/2024	N	EM20	UMCf	119.8 - 129.8	----	----	----	----	----	----	----	----	----	----	382
U4-MW-08DD	9/20/2024	N	EM21	UMCf	119.8 - 129.8	----	----	----	----	----	----	----	----	----	----	266
U4-MW-08I	4/13/2022	N	BL02	UMCf	78.0 - 88.0	----	----	----	----	----	----	----	----	----	----	7,950
U4-MW-08I	12/7/2022	N	EM04	UMCf	78.0 - 88.0	----	----	----	----	----	----	----	----	----	----	33,700
U4-MW-08I	12/7/2022	FD	EM04	UMCf	78.0 - 88.0	----	----	----	----	----	----	----	----	----	----	34,200 J-
U4-MW-08I	3/17/2023	N	EM07	UMCf	78.0 - 88.0	----	----	----	----	----	----	----	----	----	----	54,200
U4-MW-08I	6/13/2023	N	EM10	UMCf	78.0 - 88.0	----	----	----	----	----	----	----	----	----	----	11,600
U4-MW-08I	9/13/2023	N	EM13	UMCf	78.0 - 88.0	----	----	----	----	----	----	----	----	----	----	30,800
U4-MW-08I	12/11/2023	N	EM16	UMCf	78.0 - 88.0	----	----	----	----	----	----	----	----	----	----	32,200 J-
U4-MW-08I	3/12/2024	N	EM19	UMCf	78.0 - 88.0	----	----	----	----	----	----	----	----	----	----	30,300
U4-MW-08I	6/14/2024	N	EM20	UMCf	78.0 - 88.0	----	----	----	----	----	----	----	----	----	----	28,400
U4-MW-08I	9/23/2024	N	EM21	UMCf	78.0 - 88.0	----	----	----	----	----	----	----	----	----	----	22,400

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW7199
						Copper	Lead	Molybdenum	Nickel	Selenium	Silver	Thallium	Uranium	Vanadium	Zinc	Chromium, Hexavalent
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-08S	4/15/2022	N	BL02	UMCf	54.9 - 64.9	----	----	----	----	----	----	----	----	----	----	506 J+
U4-MW-08S	12/7/2022	N	EM04	UMCf	54.9 - 64.9	----	----	----	----	----	----	----	----	----	----	254 J-
U4-MW-08S	12/7/2022	FD	EM04	UMCf	54.9 - 64.9	----	----	----	----	----	----	----	----	----	----	265 J-
U4-MW-08S	3/13/2023	N	EM07	UMCf	54.9 - 64.9	----	----	----	----	----	----	----	----	----	----	<0.150
U4-MW-08S	3/13/2023	FD	EM07	UMCf	54.9 - 64.9	----	----	----	----	----	----	----	----	----	----	<0.750 UJ
U4-MW-08S	6/13/2023	N	EM10	UMCf	54.9 - 64.9	----	----	----	----	----	----	----	----	----	----	<15.0
U4-MW-08S	6/13/2023	FD	EM10	UMCf	54.9 - 64.9	----	----	----	----	----	----	----	----	----	----	<15.0
U4-MW-08S	9/13/2023	N	EM13	UMCf	54.9 - 64.9	----	----	----	----	----	----	----	----	----	----	<0.150
U4-MW-08S	9/13/2023	FD	EM13	UMCf	54.9 - 64.9	----	----	----	----	----	----	----	----	----	----	<0.150
U4-MW-08S	12/14/2023	N	EM16	UMCf	54.9 - 64.9	----	----	----	----	----	----	----	----	----	----	1.99
U4-MW-08S	12/14/2023	FD	EM16	UMCf	54.9 - 64.9	----	----	----	----	----	----	----	----	----	----	1.97
U4-MW-08S	3/14/2024	N	EM19	UMCf	54.9 - 64.9	----	----	----	----	----	----	----	----	----	----	<3.00
U4-MW-08S	3/14/2024	FD	EM19	UMCf	54.9 - 64.9	----	----	----	----	----	----	----	----	----	----	<3.00
U4-MW-08S	3/25/2024	N	EM19	UMCf	54.9 - 64.9	----	----	----	----	----	----	----	----	----	----	<0.150 UJ
U4-MW-08S	3/25/2024	FD	EM19	UMCf	54.9 - 64.9	----	----	----	----	----	----	----	----	----	----	<0.150 UJ
U4-MW-08S	6/14/2024	N	EM20	UMCf	54.9 - 64.9	----	----	----	----	----	----	----	----	----	----	0.448 J
U4-MW-08S	6/14/2024	FD	EM20	UMCf	54.9 - 64.9	----	----	----	----	----	----	----	----	----	----	0.229 J
U4-MW-08S	9/20/2024	N	EM21	UMCf	54.9 - 64.9	----	----	----	----	----	----	----	----	----	----	<0.200
U4-MW-08S	9/20/2024	FD	EM21	UMCf	54.9 - 64.9	----	----	----	----	----	----	----	----	----	----	<0.200
U4-MW-09D	4/14/2022	N	BL02	UMCf	96.9 - 106.9	----	----	----	----	----	----	----	----	----	----	67,800
U4-MW-09D	12/6/2022	N	EM04	UMCf	96.9 - 106.9	----	----	----	----	----	----	----	----	----	----	7,060 J-
U4-MW-09D	3/16/2023	N	EM07	UMCf	96.9 - 106.9	----	----	----	----	----	----	----	----	----	----	3,520
U4-MW-09D	6/14/2023	N	EM10	UMCf	96.9 - 106.9	----	----	----	----	----	----	----	----	----	----	1,490
U4-MW-09D	9/12/2023	N	EM13	UMCf	96.9 - 106.9	----	----	----	----	----	----	----	----	----	----	2,990
U4-MW-09D	12/15/2023	N	EM16	UMCf	96.9 - 106.9	----	----	----	----	----	----	----	----	----	----	2,200
U4-MW-09D	3/13/2024	N	EM19	UMCf	96.9 - 106.9	----	----	----	----	----	----	----	----	----	----	855
U4-MW-09D	6/13/2024	N	EM20	UMCf	96.9 - 106.9	----	----	----	----	----	----	----	----	----	----	<20.0
U4-MW-09D	9/19/2024	N	EM21	UMCf	96.9 - 106.9	----	----	----	----	----	----	----	----	----	----	921
U4-MW-09DD	4/14/2022	N	BL02	UMCf	119.8 - 129.8	----	----	----	----	----	----	----	----	----	----	121
U4-MW-09DD	12/6/2022	N	EM04	UMCf	119.8 - 129.8	----	----	----	----	----	----	----	----	----	----	134
U4-MW-09DD	3/21/2023	N	EM07	UMCf	119.8 - 129.8	----	----	----	----	----	----	----	----	----	----	215 J-
U4-MW-09DD	6/15/2023	N	EM10	UMCf	119.8 - 129.8	----	----	----	----	----	----	----	----	----	----	94.8
U4-MW-09DD	9/13/2023	N	EM13	UMCf	119.8 - 129.8	----	----	----	----	----	----	----	----	----	----	<0.300
U4-MW-09DD	12/13/2023	N	EM16	UMCf	119.8 - 129.8	----	----	----	----	----	----	----	----	----	----	17.3
U4-MW-09DD	3/14/2024	N	EM19	UMCf	119.8 - 129.8	----	----	----	----	----	----	----	----	----	----	<0.150
U4-MW-09DD	6/13/2024	N	EM20	UMCf	119.8 - 129.8	----	----	----	----	----	----	----	----	----	----	<0.200
U4-MW-09DD	9/20/2024	N	EM21	UMCf	119.8 - 129.8	----	----	----	----	----	----	----	----	----	----	<0.200
U4-MW-09I	4/14/2022	N	BL02	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	2,320
U4-MW-09I	12/6/2022	N	EM04	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	13,500 J-
U4-MW-09I	3/16/2023	N	EM07	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	7,920
U4-MW-09I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	1,130
U4-MW-09I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	5,850
U4-MW-09I	12/15/2023	N	EM16	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	3,150
U4-MW-09I	3/13/2024	N	EM19	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	1,570
U4-MW-09I	6/13/2024	N	EM20	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	4,000
U4-MW-09I	9/19/2024	N	EM21	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	7,510
U4-MW-09S	4/14/2022	N	BL02	UMCf	55.3 - 65.3	----	----	----	----	----	----	----	----	----	----	387

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW7199
						Copper	Lead	Molybdenum	Nickel	Selenium	Silver	Thallium	Uranium	Vanadium	Zinc	Chromium, Hexavalent
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-09S	12/6/2022	N	EM04	UMCf	55.3 - 65.3	----	----	----	----	----	----	----	----	----	----	2,740 J-
U4-MW-09S	3/17/2023	N	EM07	UMCf	55.3 - 65.3	----	----	----	----	----	----	----	----	----	----	2,630
U4-MW-09S	6/15/2023	N	EM10	UMCf	55.3 - 65.3	----	----	----	----	----	----	----	----	----	----	<15.0
U4-MW-09S	9/13/2023	N	EM13	UMCf	55.3 - 65.3	----	----	----	----	----	----	----	----	----	----	<0.150 UJ
U4-MW-09S	12/12/2023	N	EM16	UMCf	55.3 - 65.3	----	----	----	----	----	----	----	----	----	----	9.36
U4-MW-09S	3/13/2024	N	EM19	UMCf	55.3 - 65.3	----	----	----	----	----	----	----	----	----	----	6.40 J
U4-MW-09S	6/13/2024	N	EM20	UMCf	55.3 - 65.3	----	----	----	----	----	----	----	----	----	----	<4.00
U4-MW-09S	9/19/2024	N	EM21	UMCf	55.3 - 65.3	----	----	----	----	----	----	----	----	----	----	<4.00 UJ
U4-MW-10D	4/14/2022	N	BL02	UMCf	96.9 - 106.9	----	----	----	----	----	----	----	----	----	----	5,450
U4-MW-10D	12/5/2022	N	EM04	UMCf	96.9 - 106.9	----	----	----	----	----	----	----	----	----	----	3,640 J-
U4-MW-10D	3/17/2023	N	EM07	UMCf	96.9 - 106.9	----	----	----	----	----	----	----	----	----	----	1.22
U4-MW-10D	6/14/2023	N	EM10	UMCf	96.9 - 106.9	----	----	----	----	----	----	----	----	----	----	0.228 J
U4-MW-10D	9/13/2023	N	EM13	UMCf	96.9 - 106.9	----	----	----	----	----	----	----	----	----	----	<0.150
U4-MW-10D	12/14/2023	N	EM16	UMCf	96.9 - 106.9	----	----	----	----	----	----	----	----	----	----	0.153 J
U4-MW-10D	3/14/2024	N	EM19	UMCf	96.9 - 106.9	----	----	----	----	----	----	----	----	----	----	<0.150
U4-MW-10D	6/11/2024	N	EM20	UMCf	96.9 - 106.9	----	----	----	----	----	----	----	----	----	----	10.7
U4-MW-10D	9/26/2024	N	EM21	UMCf	96.9 - 106.9	----	----	----	----	----	----	----	----	----	----	<0.200
U4-MW-10I	4/14/2022	N	BL02	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	6,160
U4-MW-10I	12/5/2022	N	EM04	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	566 J-
U4-MW-10I	3/17/2023	N	EM07	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	1.11
U4-MW-10I	6/14/2023	N	EM10	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	0.333 J
U4-MW-10I	9/13/2023	N	EM13	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	0.261 J
U4-MW-10I	12/14/2023	N	EM16	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	15,200
U4-MW-10I	3/13/2024	N	EM19	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	25,900
U4-MW-10I	6/11/2024	N	EM20	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	1,260
U4-MW-10I	9/25/2024	N	EM21	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	447
U4-MW-11D	4/15/2022	N	BL02	UMCf	97.4 - 107.4	----	----	----	----	----	----	----	----	----	----	90,100 J+
U4-MW-11D	9/26/2022	N	EM01	UMCf	97.4 - 107.4	----	----	----	----	----	----	----	----	----	----	93,300
U4-MW-11D	10/11/2022	N	EM02	UMCf	97.4 - 107.4	----	----	----	----	----	----	----	----	----	----	96,300
U4-MW-11D	11/1/2022	N	EM03	UMCf	97.4 - 107.4	----	----	----	----	----	----	----	----	----	----	91,100
U4-MW-11D	12/6/2022	N	EM04	UMCf	97.4 - 107.4	----	----	----	----	----	----	----	----	----	----	32,300 J-
U4-MW-11D	1/12/2023	N	EM05	UMCf	97.4 - 107.4	----	----	----	----	----	----	----	----	----	----	74,400
U4-MW-11D	2/14/2023	N	EM06	UMCf	97.4 - 107.4	----	----	----	----	----	----	----	----	----	----	76,700
U4-MW-11D	3/16/2023	N	EM07	UMCf	97.4 - 107.4	----	----	----	----	----	----	----	----	----	----	55,600 J-
U4-MW-11D	4/18/2023	N	EM08	UMCf	97.4 - 107.4	----	----	----	----	----	----	----	----	----	----	45,700
U4-MW-11D	5/17/2023	N	EM09	UMCf	97.4 - 107.4	----	----	----	----	----	----	----	----	----	----	47,300
U4-MW-11D	6/16/2023	N	EM10	UMCf	97.4 - 107.4	----	----	----	----	----	----	----	----	----	----	71,900
U4-MW-11D	7/14/2023	N	EM11	UMCf	97.4 - 107.4	----	----	----	----	----	----	----	----	----	----	62,600 J-
U4-MW-11D	8/14/2023	N	EM12	UMCf	97.4 - 107.4	----	----	----	----	----	----	----	----	----	----	59,700 J-
U4-MW-11D	9/13/2023	N	EM13	UMCf	97.4 - 107.4	----	----	----	----	----	----	----	----	----	----	58,100
U4-MW-11D	10/18/2023	N	EM14	UMCf	97.4 - 107.4	----	----	----	----	----	----	----	----	----	----	53,700
U4-MW-11D	11/16/2023	N	EM15	UMCf	97.4 - 107.4	----	----	----	----	----	----	----	----	----	----	47,600
U4-MW-11D	12/13/2023	N	EM16	UMCf	97.4 - 107.4	----	----	----	----	----	----	----	----	----	----	47,400
U4-MW-11D	1/25/2024	N	EM17	UMCf	97.4 - 107.4	----	----	----	----	----	----	----	----	----	----	44,300
U4-MW-11D	2/14/2024	N	EM18	UMCf	97.4 - 107.4	----	----	----	----	----	----	----	----	----	----	46,800
U4-MW-11D	3/12/2024	N	EM19	UMCf	97.4 - 107.4	----	----	----	----	----	----	----	----	----	----	44,600
U4-MW-11D	6/12/2024	N	EM20	UMCf	97.4 - 107.4	----	----	----	----	----	----	----	----	----	----	58,200

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	SW6020 Copper µg/L	SW6020 Lead µg/L	SW6020 Molybdenum µg/L	SW6020 Nickel µg/L	SW6020 Selenium µg/L	SW6020 Silver µg/L	SW6020 Thallium µg/L	SW6020 Uranium µg/L	SW6020 Vanadium µg/L	SW6020 Zinc µg/L	SW7199 Chromium, Hexavalent µg/L
U4-MW-11D	9/23/2024	N	EM21	UMCf	97.4 - 107.4	----	----	----	----	----	----	----	----	----	----	57,600
U4-MW-11I	4/14/2022	N	BL02	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	6,370
U4-MW-11I	9/26/2022	N	EM01	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	1,320 J
U4-MW-11I	9/26/2022	FD	EM01	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	1,330 J
U4-MW-11I	10/10/2022	N	EM02	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	0.753 J-
U4-MW-11I	10/10/2022	FD	EM02	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	0.886
U4-MW-11I	10/31/2022	N	EM03	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	1.95
U4-MW-11I	10/31/2022	FD	EM03	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	2.25
U4-MW-11I	12/6/2022	N	EM04	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	1.79 J
U4-MW-11I	12/6/2022	FD	EM04	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	0.403 J
U4-MW-11I	1/12/2023	N	EM05	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	0.800
U4-MW-11I	1/12/2023	FD	EM05	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	0.556
U4-MW-11I	2/14/2023	N	EM06	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	<0.150
U4-MW-11I	2/14/2023	FD	EM06	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	0.324 J
U4-MW-11I	3/16/2023	N	EM07	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	<0.150 UJ
U4-MW-11I	3/16/2023	FD	EM07	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	<0.150 UJ
U4-MW-11I	4/18/2023	N	EM08	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	<0.150
U4-MW-11I	4/18/2023	FD	EM08	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	0.158 J
U4-MW-11I	5/19/2023	N	EM09	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	<0.150 R
U4-MW-11I	5/19/2023	FD	EM09	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	<0.150 R
U4-MW-11I	6/15/2023	N	EM10	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	<0.150
U4-MW-11I	6/15/2023	FD	EM10	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	<0.150
U4-MW-11I	7/13/2023	N	EM11	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	<0.150
U4-MW-11I	7/13/2023	FD	EM11	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	<0.150
U4-MW-11I	8/14/2023	N	EM12	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	556
U4-MW-11I	8/14/2023	FD	EM12	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	299
U4-MW-11I	9/13/2023	N	EM13	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	2,050
U4-MW-11I	9/13/2023	FD	EM13	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	2,050
U4-MW-11I	10/19/2023	N	EM14	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	29,500
U4-MW-11I	10/19/2023	FD	EM14	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	29,500
U4-MW-11I	11/16/2023	N	EM15	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	19,200
U4-MW-11I	11/16/2023	FD	EM15	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	19,600
U4-MW-11I	12/13/2023	N	EM16	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	17,900
U4-MW-11I	12/13/2023	FD	EM16	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	17,800
U4-MW-11I	1/25/2024	N	EM17	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	19,400
U4-MW-11I	1/25/2024	FD	EM17	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	19,400
U4-MW-11I	2/14/2024	N	EM18	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	19,100
U4-MW-11I	2/14/2024	FD	EM18	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	19,000
U4-MW-11I	3/13/2024	N	EM19	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	20,700 J-
U4-MW-11I	3/13/2024	FD	EM19	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	20,900 J-
U4-MW-11I	6/12/2024	N	EM20	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	21,400
U4-MW-11I	6/12/2024	FD	EM20	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	20,900
U4-MW-11I	9/23/2024	N	EM21	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	17,600
U4-MW-11I	9/23/2024	FD	EM21	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	17,500
U4-MW-12D	4/15/2022	N	BL02	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	63,700 J-
U4-MW-12D	9/27/2022	N	EM01	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	41,900
U4-MW-12D	10/12/2022	N	EM02	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	50,700

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW7199
						Copper	Lead	Molybdenum	Nickel	Selenium	Silver	Thallium	Uranium	Vanadium	Zinc	Chromium, Hexavalent
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-12D	11/2/2022	N	EM03	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	47,900
U4-MW-12D	12/7/2022	N	EM04	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	39,900
U4-MW-12D	1/12/2023	N	EM05	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	39,300
U4-MW-12D	2/15/2023	N	EM06	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	37,000 J-
U4-MW-12D	3/14/2023	N	EM07	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	28,700
U4-MW-12D	4/17/2023	N	EM08	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	43,400
U4-MW-12D	5/17/2023	N	EM09	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	46,500
U4-MW-12D	6/16/2023	N	EM10	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	35,200
U4-MW-12D	7/13/2023	N	EM11	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	16,800
U4-MW-12D	8/14/2023	N	EM12	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	15,600
U4-MW-12D	9/12/2023	N	EM13	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	11,900
U4-MW-12D	10/17/2023	N	EM14	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	9,270 J-
U4-MW-12D	11/15/2023	N	EM15	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	8,440
U4-MW-12D	12/12/2023	N	EM16	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	8,390
U4-MW-12D	1/24/2024	N	EM17	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	7,750
U4-MW-12D	2/13/2024	N	EM18	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	6,060
U4-MW-12D	3/12/2024	N	EM19	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	6,950
U4-MW-12D	6/12/2024	N	EM20	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	15,400
U4-MW-12D	9/24/2024	N	EM21	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----	----	18,800
U4-MW-12I	4/14/2022	N	BL02	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	21,200
U4-MW-12I	4/14/2022	FD	BL02	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	19,400
U4-MW-12I	9/27/2022	N	EM01	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	2,880 J-
U4-MW-12I	10/12/2022	N	EM02	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	2,060
U4-MW-12I	11/2/2022	N	EM03	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	1,520
U4-MW-12I	12/7/2022	N	EM04	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	<0.150 UJ
U4-MW-12I	12/7/2022	FD	EM04	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	2.33 J
U4-MW-12I	1/13/2023	N	EM05	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	0.446 J
U4-MW-12I	2/15/2023	N	EM06	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	<7.50 UJ
U4-MW-12I	3/13/2023	N	EM07	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	<1.50
U4-MW-12I	4/17/2023	N	EM08	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	<0.150
U4-MW-12I	5/17/2023	N	EM09	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	<0.150
U4-MW-12I	6/16/2023	N	EM10	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	<0.150
U4-MW-12I	7/11/2023	N	EM11	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	<0.150
U4-MW-12I	8/14/2023	N	EM12	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	372
U4-MW-12I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	1.65
U4-MW-12I	10/17/2023	N	EM14	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	0.720 J-
U4-MW-12I	11/16/2023	N	EM15	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	<0.150
U4-MW-12I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	143 J-
U4-MW-12I	1/24/2024	N	EM17	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	104
U4-MW-12I	2/13/2024	N	EM18	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	192
U4-MW-12I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	673
U4-MW-12I	6/13/2024	N	EM20	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	11,900
U4-MW-12I	9/23/2024	N	EM21	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	17,700
U4-MW-13D	4/14/2022	N	BL02	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	56,200
U4-MW-13D	9/28/2022	N	EM01	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	45,000
U4-MW-13D	10/11/2022	N	EM02	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	19,800
U4-MW-13D	11/3/2022	N	EM03	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	1,860

Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW7199
						Copper	Lead	Molybdenum	Nickel	Selenium	Silver	Thallium	Uranium	Vanadium	Zinc	Chromium, Hexavalent
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-13D	12/7/2022	N	EM04	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	16,100
U4-MW-13D	1/12/2023	N	EM05	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	15,100
U4-MW-13D	2/15/2023	N	EM06	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	15,600 J-
U4-MW-13D	3/17/2023	N	EM07	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	14,200
U4-MW-13D	4/18/2023	N	EM08	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	9,530
U4-MW-13D	5/17/2023	N	EM09	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	8,150
U4-MW-13D	6/15/2023	N	EM10	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	8,680
U4-MW-13D	7/12/2023	N	EM11	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	8,450
U4-MW-13D	8/11/2023	N	EM12	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	10,400
U4-MW-13D	9/11/2023	N	EM13	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	12,500
U4-MW-13D	10/18/2023	N	EM14	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	13,600
U4-MW-13D	11/15/2023	N	EM15	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	13,400
U4-MW-13D	12/11/2023	N	EM16	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	14,300
U4-MW-13D	1/23/2024	N	EM17	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	14,300
U4-MW-13D	2/12/2024	N	EM18	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	14,200
U4-MW-13D	3/11/2024	N	EM19	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	13,700
U4-MW-13D	6/13/2024	N	EM20	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	16,900
U4-MW-13D	9/20/2024	N	EM21	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----	----	----	22,000
U4-MW-13I	4/14/2022	N	BL02	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	21,900
U4-MW-13I	9/28/2022	N	EM01	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	17,000
U4-MW-13I	10/10/2022	N	EM02	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	8,000
U4-MW-13I	11/3/2022	N	EM03	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	5,840 J-
U4-MW-13I	12/6/2022	N	EM04	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	<0.150 UJ
U4-MW-13I	1/12/2023	N	EM05	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	4.48
U4-MW-13I	2/14/2023	N	EM06	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	0.250 J
U4-MW-13I	3/16/2023	N	EM07	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	1.05 J
U4-MW-13I	4/19/2023	N	EM08	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	0.606
U4-MW-13I	5/17/2023	N	EM09	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	0.178 J
U4-MW-13I	6/15/2023	N	EM10	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	0.559
U4-MW-13I	7/12/2023	N	EM11	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	99.0
U4-MW-13I	8/11/2023	N	EM12	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	9,230
U4-MW-13I	9/11/2023	N	EM13	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	13,100
U4-MW-13I	10/17/2023	N	EM14	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	15,300
U4-MW-13I	11/15/2023	N	EM15	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	16,500
U4-MW-13I	12/11/2023	N	EM16	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	18,900
U4-MW-13I	1/23/2024	N	EM17	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	20,500
U4-MW-13I	2/12/2024	N	EM18	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	19,600
U4-MW-13I	3/11/2024	N	EM19	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	20,900
U4-MW-13I	6/13/2024	N	EM20	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	20,500
U4-MW-13I	9/20/2024	N	EM21	UMCf	77.1 - 87.1	----	----	----	----	----	----	----	----	----	----	23,700
U4-MW-14D	4/13/2022	N	BL02	UMCf	97.3 - 107.3	----	----	----	----	----	----	----	----	----	----	239
U4-MW-14D	12/6/2022	N	EM04	UMCf	97.3 - 107.3	----	----	----	----	----	----	----	----	----	----	5,860
U4-MW-14D	3/16/2023	N	EM07	UMCf	97.3 - 107.3	----	----	----	----	----	----	----	----	----	----	4,450
U4-MW-14D	6/15/2023	N	EM10	UMCf	97.3 - 107.3	----	----	----	----	----	----	----	----	----	----	3,980
U4-MW-14D	9/14/2023	N	EM13	UMCf	97.3 - 107.3	----	----	----	----	----	----	----	----	----	----	2,670
U4-MW-14D	12/15/2023	N	EM16	UMCf	97.3 - 107.3	----	----	----	----	----	----	----	----	----	----	26,300
U4-MW-14D	3/13/2024	N	EM19	UMCf	97.3 - 107.3	----	----	----	----	----	----	----	----	----	----	2,630

DRAFT

Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW7199
						Copper	Lead	Molybdenum	Nickel	Selenium	Silver	Thallium	Uranium	Vanadium	Zinc	Chromium, Hexavalent
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-14D	6/13/2024	N	EM20	UMCf	97.3 - 107.3	----	----	----	----	----	----	----	----	----	----	2,410
U4-MW-14D	9/19/2024	N	EM21	UMCf	97.3 - 107.3	----	----	----	----	----	----	----	----	----	----	2,970
U4-MW-14I	4/14/2022	N	BL02	UMCf	77.3 - 87.3	----	----	----	----	----	----	----	----	----	----	2,270
U4-MW-14I	12/6/2022	N	EM04	UMCf	77.3 - 87.3	----	----	----	----	----	----	----	----	----	----	4,360 J-
U4-MW-14I	3/16/2023	N	EM07	UMCf	77.3 - 87.3	----	----	----	----	----	----	----	----	----	----	4,560
U4-MW-14I	6/15/2023	N	EM10	UMCf	77.3 - 87.3	----	----	----	----	----	----	----	----	----	----	782
U4-MW-14I	9/14/2023	N	EM13	UMCf	77.3 - 87.3	----	----	----	----	----	----	----	----	----	----	2,240
U4-MW-14I	12/14/2023	N	EM16	UMCf	77.3 - 87.3	----	----	----	----	----	----	----	----	----	----	2,160
U4-MW-14I	3/13/2024	N	EM19	UMCf	77.3 - 87.3	----	----	----	----	----	----	----	----	----	----	2,110
U4-MW-14I	6/14/2024	N	EM20	UMCf	77.3 - 87.3	----	----	----	----	----	----	----	----	----	----	27,500
U4-MW-14I	9/19/2024	N	EM21	UMCf	77.3 - 87.3	----	----	----	----	----	----	----	----	----	----	3,770
U4-MW-15D	4/13/2022	N	BL02	UMCf	96.0 - 106.0	----	----	----	----	----	----	----	----	----	----	5,240
U4-MW-15D	12/5/2022	N	EM04	UMCf	96.0 - 106.0	----	----	----	----	----	----	----	----	----	----	3,380 J-
U4-MW-15D	3/20/2023	N	EM07	UMCf	96.0 - 106.0	----	----	----	----	----	----	----	----	----	----	3,630
U4-MW-15D	6/14/2023	N	EM10	UMCf	96.0 - 106.0	----	----	----	----	----	----	----	----	----	----	4,490
U4-MW-15D	9/13/2023	N	EM13	UMCf	96.0 - 106.0	----	----	----	----	----	----	----	----	----	----	3,270
U4-MW-15D	12/12/2023	N	EM16	UMCf	96.0 - 106.0	----	----	----	----	----	----	----	----	----	----	3,380
U4-MW-15D	3/12/2024	N	EM19	UMCf	96.0 - 106.0	----	----	----	----	----	----	----	----	----	----	3,260
U4-MW-15D	6/14/2024	N	EM20	UMCf	96.0 - 106.0	----	----	----	----	----	----	----	----	----	----	2,560
U4-MW-15D	9/24/2024	N	EM21	UMCf	96.0 - 106.0	----	----	----	----	----	----	----	----	----	----	2,190
U4-MW-15DD	4/13/2022	N	BL02	UMCf	120.3 - 130.3	----	----	----	----	----	----	----	----	----	----	67.5
U4-MW-15DD	12/5/2022	N	EM04	UMCf	120.3 - 130.3	----	----	----	----	----	----	----	----	----	----	14.5
U4-MW-15DD	3/15/2023	N	EM07	UMCf	120.3 - 130.3	----	----	----	----	----	----	----	----	----	----	12.5 J-
U4-MW-15DD	6/13/2023	N	EM10	UMCf	120.3 - 130.3	----	----	----	----	----	----	----	----	----	----	2.29 J
U4-MW-15DD	9/14/2023	N	EM13	UMCf	120.3 - 130.3	----	----	----	----	----	----	----	----	----	----	0.817
U4-MW-15DD	12/13/2023	N	EM16	UMCf	120.3 - 130.3	----	----	----	----	----	----	----	----	----	----	4.37
U4-MW-15DD	3/12/2024	N	EM19	UMCf	120.3 - 130.3	----	----	----	----	----	----	----	----	----	----	1.09
U4-MW-15DD	6/14/2024	N	EM20	UMCf	120.3 - 130.3	----	----	----	----	----	----	----	----	----	----	6.99
U4-MW-15DD	9/24/2024	N	EM21	UMCf	120.3 - 130.3	----	----	----	----	----	----	----	----	----	----	22.6
U4-MW-15I	4/12/2022	N	BL02	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	5,010
U4-MW-15I	12/5/2022	N	EM04	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	4,730 J-
U4-MW-15I	3/17/2023	N	EM07	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	2.22
U4-MW-15I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	<0.750
U4-MW-15I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	6.35
U4-MW-15I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	768
U4-MW-15I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	4,610
U4-MW-15I	6/17/2024	N	EM20	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	4,150
U4-MW-15I	9/25/2024	N	EM21	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----	----	----	4,120
U4-MW-15S	4/13/2022	N	BL02	UMCf	54.8 - 64.8	----	----	----	----	----	----	----	----	----	----	262
U4-MW-15S	12/5/2022	N	EM04	UMCf	54.8 - 64.8	----	----	----	----	----	----	----	----	----	----	0.995
U4-MW-15S	3/13/2023	N	EM07	UMCf	54.8 - 64.8	----	----	----	----	----	----	----	----	----	----	<0.150
U4-MW-15S	6/13/2023	N	EM10	UMCf	54.8 - 64.8	----	----	----	----	----	----	----	----	----	----	<15.0
U4-MW-15S	9/14/2023	N	EM13	UMCf	54.8 - 64.8	----	----	----	----	----	----	----	----	----	----	<0.150
U4-MW-15S	12/11/2023	N	EM16	UMCf	54.8 - 64.8	----	----	----	----	----	----	----	----	----	----	<150
U4-MW-15S	3/12/2024	N	EM19	UMCf	54.8 - 64.8	----	----	----	----	----	----	----	----	----	----	<15.0
U4-MW-15S	3/26/2024	N	EM19	UMCf	54.8 - 64.8	----	----	----	----	----	----	----	----	----	----	<0.150
U4-MW-15S	6/14/2024	N	EM20	UMCf	54.8 - 64.8	----	----	----	----	----	----	----	----	----	----	<0.200

DRAFT

Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW7199
						Copper	Lead	Molybdenum	Nickel	Selenium	Silver	Thallium	Uranium	Vanadium	Zinc	Chromium, Hexavalent
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-15S	9/20/2024	N	EM21	UMCf	54.8 - 64.8	----	----	----	----	----	----	----	----	----	----	<0.200
U4-MW-16D	4/11/2022	N	BL02	UMCf	96.8 - 106.8	----	----	----	----	----	----	----	----	----	----	61,300
U4-MW-16D	12/5/2022	N	EM04	UMCf	96.8 - 106.8	----	----	----	----	----	----	----	----	----	----	21,900
U4-MW-16D	3/14/2023	N	EM07	UMCf	96.8 - 106.8	----	----	----	----	----	----	----	----	----	----	13,800
U4-MW-16D	6/13/2023	N	EM10	UMCf	96.8 - 106.8	----	----	----	----	----	----	----	----	----	----	38,700
U4-MW-16D	9/15/2023	N	EM13	UMCf	96.8 - 106.8	----	----	----	----	----	----	----	----	----	----	17,600
U4-MW-16D	12/14/2023	N	EM16	UMCf	96.8 - 106.8	----	----	----	----	----	----	----	----	----	----	17,900
U4-MW-16D	3/14/2024	N	EM19	UMCf	96.8 - 106.8	----	----	----	----	----	----	----	----	----	----	15,000
U4-MW-16D	6/17/2024	N	EM20	UMCf	96.8 - 106.8	----	----	----	----	----	----	----	----	----	----	23,700
U4-MW-16D	9/20/2024	N	EM21	UMCf	96.8 - 106.8	----	----	----	----	----	----	----	----	----	----	25,600
U4-MW-16DD	4/12/2022	N	BL02	UMCf	120.8 - 130.8	----	----	----	----	----	----	----	----	----	----	682
U4-MW-16DD	12/5/2022	N	EM04	UMCf	120.8 - 130.8	----	----	----	----	----	----	----	----	----	----	215 J-
U4-MW-16DD	3/15/2023	N	EM07	UMCf	120.8 - 130.8	----	----	----	----	----	----	----	----	----	----	149 J-
U4-MW-16DD	6/13/2023	N	EM10	UMCf	120.8 - 130.8	----	----	----	----	----	----	----	----	----	----	183
U4-MW-16DD	9/14/2023	N	EM13	UMCf	120.8 - 130.8	----	----	----	----	----	----	----	----	----	----	153
U4-MW-16DD	12/13/2023	N	EM16	UMCf	120.8 - 130.8	----	----	----	----	----	----	----	----	----	----	89.1
U4-MW-16DD	3/14/2024	N	EM19	UMCf	120.8 - 130.8	----	----	----	----	----	----	----	----	----	----	9.19
U4-MW-16DD	6/17/2024	N	EM20	UMCf	120.8 - 130.8	----	----	----	----	----	----	----	----	----	----	12.9
U4-MW-16DD	9/19/2024	N	EM21	UMCf	120.8 - 130.8	----	----	----	----	----	----	----	----	----	----	12.7
U4-MW-16I	4/11/2022	N	BL02	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	9,350
U4-MW-16I	12/5/2022	N	EM04	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	0.467 J
U4-MW-16I	12/5/2022	FD	EM04	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	0.735
U4-MW-16I	3/13/2023	N	EM07	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	<0.750 UJ
U4-MW-16I	3/13/2023	FD	EM07	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	<0.750
U4-MW-16I	6/12/2023	N	EM10	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	<1.50
U4-MW-16I	6/12/2023	FD	EM10	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	<1.50
U4-MW-16I	9/11/2023	N	EM13	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	14,100
U4-MW-16I	9/11/2023	FD	EM13	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	14,100
U4-MW-16I	12/11/2023	N	EM16	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	29,500
U4-MW-16I	12/11/2023	FD	EM16	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	29,600
U4-MW-16I	3/11/2024	N	EM19	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	31,400
U4-MW-16I	3/11/2024	FD	EM19	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	31,500
U4-MW-16I	6/18/2024	N	EM20	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	21,200
U4-MW-16I	6/18/2024	FD	EM20	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	20,900
U4-MW-16I	9/19/2024	N	EM21	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	20,600
U4-MW-16I	9/19/2024	FD	EM21	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----	----	20,400
U4-MW-16S	4/12/2022	N	BL02	UMCf	54.8 - 64.8	----	----	----	----	----	----	----	----	----	----	365 J-
U4-MW-16S	4/12/2022	FD	BL02	UMCf	54.8 - 64.8	----	----	----	----	----	----	----	----	----	----	361 J-
U4-MW-16S	12/6/2022	N	EM04	UMCf	54.8 - 64.8	----	----	----	----	----	----	----	----	----	----	50.6
U4-MW-16S	3/15/2023	N	EM07	UMCf	54.8 - 64.8	----	----	----	----	----	----	----	----	----	----	<0.150 UJ
U4-MW-16S	6/13/2023	N	EM10	UMCf	54.8 - 64.8	----	----	----	----	----	----	----	----	----	----	<0.150
U4-MW-16S	9/11/2023	N	EM13	UMCf	54.8 - 64.8	----	----	----	----	----	----	----	----	----	----	<0.150
U4-MW-16S	12/11/2023	N	EM16	UMCf	54.8 - 64.8	----	----	----	----	----	----	----	----	----	----	<0.150
U4-MW-16S	3/11/2024	N	EM19	UMCf	54.8 - 64.8	----	----	----	----	----	----	----	----	----	----	<3.00
U4-MW-16S	6/17/2024	N	EM20	UMCf	54.8 - 64.8	----	----	----	----	----	----	----	----	----	----	<0.200
U4-MW-16S	9/20/2024	N	EM21	UMCf	54.8 - 64.8	----	----	----	----	----	----	----	----	----	----	<0.200
U4-SLMW	11/10/2022	N	EM03	-	-	----	----	----	----	----	----	----	----	----	----	<0.150

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW6020	SW7199
						Copper	Lead	Molybdenum	Nickel	Selenium	Silver	Thallium	Uranium	Vanadium	Zinc	Chromium, Hexavalent
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-T3	10/13/2022	N	EM02	-	-	----	----	----	----	----	----	----	----	----	----	38,400
U4-T3	11/3/2022	N	EM03	-	-	----	----	----	----	----	----	----	----	----	----	36,900
U4-T3	12/6/2022	N	EM04	-	-	----	----	----	----	----	----	----	----	----	----	25,100 J-
U4-T3	1/9/2023	N	EM05	-	-	----	----	----	----	----	----	----	----	----	----	37,400
U4-T3	2/13/2023	N	EM06	-	-	----	----	----	----	----	----	----	----	----	----	36,600
U4-T3	3/13/2023	N	EM07	-	-	----	----	----	----	----	----	----	----	----	----	39,800
U4-T3	4/19/2023	N	EM08	-	-	----	----	----	----	----	----	----	----	----	----	14,900
U4-T3	5/18/2023	N	EM09	-	-	----	----	----	----	----	----	----	----	----	----	20,400
U4-T3	6/12/2023	N	EM10	-	-	----	----	----	----	----	----	----	----	----	----	20,700
U4-T3	7/11/2023	N	EM11	-	-	----	----	----	----	----	----	----	----	----	----	9,780
U4-T3	8/10/2023	N	EM12	-	-	----	----	----	----	----	----	----	----	----	----	4.61
U4-T3	9/11/2023	N	EM13	-	-	----	----	----	----	----	----	----	----	----	----	57.0
U4-T3	10/16/2023	N	EM14	-	-	----	----	----	----	----	----	----	----	----	----	2.08 J-

Notes:
FD - Field duplicate
E - Field instrument error.
J - The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J- - The result is an estimated quantity, but the result may be biased low.
J+ - The result is an estimated quantity, but the result may be biased high.
N/A - Not Applicable
mg/L - milligrams per liter
µg/L - micrograms per liter
N - Normal field sample

R - The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

UMCf- Upper Muddy Creek Formation
< - The analyte was analyzed for, but was not detected above the level of the reported
-- Not tested.
U4-E-08D has been abandoned.
M-252 damaged/obstructed when checked on June 14, 2023 and September 14, 2023.
U4-MW-08S and U4-MW-15S were purged and resampled for EM19 on March 25-26, 2024; Original EM19 samples were collected via bailer due to well condition.
Lab was unable to analyze and report TDS for samples L1782240-20 (U4-E-09I-EM21) and -21 (U4-E-09I-EM21-FD) due to the thickness of the sample matrix.

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	SW9060A/SM5 310B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Total Organic Carbon	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
M-247-100	4/20/2022	N	BL02	UMCf	100.5 - 110.5	----	----	----	----	----	----	----	----	----
M-249-100	4/20/2022	N	BL02	UMCf	99.6 - 109.6	----	----	----	----	----	----	----	----	----
M-251-100	4/19/2022	N	BL02	UMCf	92.5 - 102.5	1,410 J+	<0.147	<0.149	<0.133	<0.158	0.204 J	0.484 J	<0.142	<0.230
M-251-100	10/13/2022	N	EM02	UMCf	92.5 - 102.5	3,660 J+	<0.147	<0.149	<0.133	<0.158	<0.100	0.398 J	0.297 J	<0.230
M-251-100	11/2/2022	N	EM03	UMCf	92.5 - 102.5	1,030 J+	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30
M-251-100	12/8/2022	N	EM04	UMCf	92.5 - 102.5	1,720 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
M-251-100	1/11/2023	N	EM05	UMCf	92.5 - 102.5	1,240 J+	<0.147	<0.149	<0.133	<0.158	<0.100	0.206 J	<0.142	<0.230
M-251-100	2/13/2023	N	EM06	UMCf	92.5 - 102.5	1,130 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	0.158 J	<0.230
M-251-100	3/17/2023	N	EM07	UMCf	92.5 - 102.5	1,660 J+	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5
M-251-100	4/21/2023	N	EM08	UMCf	92.5 - 102.5	1,460 J+	<0.147	<0.149	<0.133	<0.158	<0.100	0.195 J	0.194 J	<0.230
M-251-100	5/9/2023	N	EM09	UMCf	92.5 - 102.5	1,540 J+	<0.147	<0.149	<0.133	<0.158	<0.100	0.242 J	<0.142	<0.230
M-251-100	6/14/2023	N	EM10	UMCf	92.5 - 102.5	957 J	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5
M-251-100	7/14/2023	N	EM11	UMCf	92.5 - 102.5	1,540	<0.147	<0.149	<0.133	<0.158	<0.100	0.228 J	0.251 J	<0.230
M-251-100	8/10/2023	N	EM12	UMCf	92.5 - 102.5	1,140 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
M-251-100	9/14/2023	N	EM13	UMCf	92.5 - 102.5	963 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
M-251-100	10/19/2023	N	EM14	UMCf	92.5 - 102.5	13,900	<0.147	<0.149	<0.133	<0.158	<0.100	0.276 J	<0.142	<0.230
M-251-100	11/16/2023	N	EM15	UMCf	92.5 - 102.5	37,600	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5
M-251-100	12/12/2023	N	EM16	UMCf	92.5 - 102.5	50,800	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
M-251-100	1/25/2024	N	EM17	UMCf	92.5 - 102.5	57,300	<0.147	<0.149	<0.133	<0.158	<0.100	0.200 J	<0.142	<0.230
M-251-100	2/13/2024	N	EM18	UMCf	92.5 - 102.5	2,380,000	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5
M-251-100	3/11/2024	N	EM19	UMCf	92.5 - 102.5	8,170,000	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5
M-251-100	6/17/2024	N	EM20	UMCf	92.5 - 102.5	3,000,000 J-	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5
M-251-100	9/23/2024	N	EM21	UMCf	92.5 - 102.5	1,980,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
M-251-60	4/18/2022	N	BL02	UMCf	52.3 - 62.3	1,590 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
M-251-60	3/15/2023	N	EM07	UMCf	52.3 - 62.3	3,420 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
M-251-60	6/14/2023	N	EM10	UMCf	52.3 - 62.3	1,290 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
M-251-60	9/14/2023	N	EM13	UMCf	52.3 - 62.3	1,430 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
M-251-60	12/11/2023	N	EM16	UMCf	52.3 - 62.3	5,240 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
M-251-60	3/12/2024	N	EM19	UMCf	52.3 - 62.3	14,400	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
M-251-60	6/19/2024	N	EM20	UMCf	52.3 - 62.3	91,200	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
M-251-60	9/20/2024	N	EM21	UMCf	52.3 - 62.3	127,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
M-252	4/21/2022	N	BL02	UMCf	132.3 - 142.3	520 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
M-252	3/15/2023	N	EM07	UMCf	132.3 - 142.3	1,020 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
M-252	9/19/2023	N	EM13	UMCf	132.3 - 142.3	1,480	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
M-252	12/18/2023	N	EM16	UMCf	132.3 - 142.3	996 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
M-252	3/12/2024	N	EM19	UMCf	132.3 - 142.3	529 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
M-252	6/19/2024	N	EM20	UMCf	132.3 - 142.3	1,810	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
M-252	9/24/2024	N	EM21	UMCf	132.3 - 142.3	5,130 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
M-253-100	4/20/2022	N	BL02	UMCf	100.8 - 110.8	----	----	----	----	----	----	----	----	----
M-255-100	4/20/2022	N	BL02	UMCf	100.2 - 110.2	----	----	----	----	----	----	----	----	----
U4-E-01D	4/18/2022	N	BL02	UMCf	94.7 - 109.7	1,030 J+	<0.735	<0.745	<0.665	<0.790	<0.500	<0.940	<0.710	<1.15
U4-E-01D	3/14/2023	N	EM07	UMCf	94.7 - 109.7	36,400	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-E-01D	6/20/2024	N	EM20	UMCf	94.7 - 109.7	9,800,000 J-	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30 UJ
U4-E-01D	9/25/2024	N	EM21	UMCf	94.7 - 109.7	4,220,000 J-	<1.47 UJ	<1.49 UJ	<1.33 UJ	<1.58 UJ	<1.00 UJ	<1.88 UJ	<1.42 UJ	<2.30 UJ
U4-E-01I	4/19/2022	N	BL02	UMCf	74.6 - 89.6	2,420 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-E-01I	4/19/2022	FD	BL02	UMCf	74.6 - 89.6	2,670 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-E-01I	3/14/2023	N	EM07	UMCf	74.6 - 89.6	2,230 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	SW9060A/SM5 310B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Total Organic Carbon	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-E-01I	4/20/2023	N	EM08	UMCf	74.6 - 89.6	12,700	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-E-01I	5/10/2023	N	EM09	UMCf	74.6 - 89.6	34,200	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-E-01I	6/12/2023	N	EM10	UMCf	74.6 - 89.6	94,200	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230 UJ
U4-E-01I	7/11/2023	N	EM11	UMCf	74.6 - 89.6	968,000	<0.735	<0.745	<0.665	<0.790	<0.500	<0.940	<0.710	<1.15
U4-E-01I	8/10/2023	N	EM12	UMCf	74.6 - 89.6	217,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-E-01I	9/11/2023	N	EM13	UMCf	74.6 - 89.6	3,310,000	<0.735	<0.745	<0.665	<0.790	<0.500	<0.940	<0.710	<1.15
U4-E-01I	10/16/2023	N	EM14	UMCf	74.6 - 89.6	3,350,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-E-01I	12/13/2023	N	EM16	UMCf	74.6 - 89.6	3,990,000	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30
U4-E-01I	1/24/2024	N	EM17	UMCf	74.6 - 89.6	4,870,000	<2.94	<2.98	<2.66	<3.16	<2.00	<3.76	<2.84	<4.60
U4-E-01I	2/14/2024	N	EM18	UMCf	74.6 - 89.6	2,290,000	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30
U4-E-01I	3/12/2024	N	EM19	UMCf	74.6 - 89.6	3,030,000	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30
U4-E-01I	6/20/2024	N	EM20	UMCf	74.6 - 89.6	6,250,000 J-	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30
U4-E-01I	9/25/2024	N	EM21	UMCf	74.6 - 89.6	487,000 J-	<1.47 UJ	<1.49 UJ	<1.33 UJ	<1.58 UJ	<1.00 UJ	<1.88 UJ	<1.42 UJ	<2.30 UJ
U4-E-02D	4/20/2022	N	BL02	UMCf	94.4 - 109.4	1,540 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-E-02D	3/14/2023	N	EM07	UMCf	94.4 - 109.4	2,720 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-E-02D	6/19/2024	N	EM20	UMCf	94.4 - 109.4	8,380,000 J-	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30
U4-E-02D	9/27/2024	N	EM21	UMCf	94.4 - 109.4	1,440,000 J-	<2.94 UJ	<2.98 UJ	<2.66 UJ	<3.16 UJ	<2.00 UJ	<3.76 UJ	<2.84 UJ	<4.60 UJ
U4-E-02I	4/18/2022	N	BL02	UMCf	74.4 - 89.4	1,240 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-E-02I	3/14/2023	N	EM07	UMCf	74.4 - 89.4	3,580 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-E-02I	4/20/2023	N	EM08	UMCf	74.4 - 89.4	53,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-E-02I	5/11/2023	N	EM09	UMCf	74.4 - 89.4	125,000	<0.147 UJ	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-E-02I	6/12/2023	N	EM10	UMCf	74.4 - 89.4	312,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230 UJ
U4-E-02I	7/11/2023	N	EM11	UMCf	74.4 - 89.4	315,000 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-E-02I	8/10/2023	N	EM12	UMCf	74.4 - 89.4	626,000 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-E-02I	9/11/2023	N	EM13	UMCf	74.4 - 89.4	845,000 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-E-02I	10/16/2023	N	EM14	UMCf	74.4 - 89.4	535 J	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30
U4-E-02I	12/14/2023	N	EM16	UMCf	74.4 - 89.4	3,540,000 J-	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30
U4-E-02I	1/22/2024	N	EM17	UMCf	74.4 - 89.4	3,340,000 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-E-02I	2/13/2024	N	EM18	UMCf	74.4 - 89.4	5,720,000 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-E-02I	3/13/2024	N	EM19	UMCf	74.4 - 89.4	11,400,000 J-	<3.68	<3.73	<3.33	<3.95	<2.50	<4.70	<3.55	<5.75
U4-E-02I	6/19/2024	N	EM20	UMCf	74.4 - 89.4	8,830,000 J-	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0
U4-E-02I	9/24/2024	N	EM21	UMCf	74.4 - 89.4	7,780,000 J-	<14.7 UJ	<14.9 UJ	<13.3 UJ	<15.8 UJ	<10.0 UJ	<18.8 UJ	<14.2 UJ	<23.0 UJ
U4-E-03D	4/19/2022	N	BL02	UMCf	95.1 - 110.1	1,660 J+	<0.147	<0.149	<0.133	<0.158	0.126 J	0.465 J	<0.142	<0.230
U4-E-03D	10/13/2022	N	EM02	UMCf	95.1 - 110.1	971 J	<29.4	<29.8	<26.6	<31.6	<20.0	<37.6	<28.4	<46.0
U4-E-03D	11/3/2022	N	EM03	UMCf	95.1 - 110.1	1,710 J+	<0.147	<0.149	<0.133	<0.158	<0.100	0.481 J	0.479 J	<0.230
U4-E-03D	12/6/2022	N	EM04	UMCf	95.1 - 110.1	1,380 J+	<2.94 UJ	<2.98 UJ	<2.66 UJ	<3.16 UJ	<2.00 UJ	<3.76 UJ	<2.84 UJ	<4.60 UJ
U4-E-03D	1/9/2023	N	EM05	UMCf	95.1 - 110.1	1,410 J+	<0.147	<0.149	<0.133	<0.158	<0.100	0.264 J	0.273 J	<0.230
U4-E-03D	2/13/2023	N	EM06	UMCf	95.1 - 110.1	1,260 J+	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0
U4-E-03D	3/13/2023	N	EM07	UMCf	95.1 - 110.1	1,920 J+	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0
U4-E-03D	3/14/2023	N	EM07	UMCf	95.1 - 110.1	1,520 J+	<29.4	<29.8	<26.6	<31.6	<20.0	<37.6	<28.4	<46.0
U4-E-03D	4/19/2023	N	EM08	UMCf	95.1 - 110.1	83,500	<0.735	<0.745	<0.665	<0.790	<0.500	<0.940	<0.710	<1.15
U4-E-03D	5/11/2023	N	EM09	UMCf	95.1 - 110.1	213,000	<0.147 UJ	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-E-03D	6/12/2023	N	EM10	UMCf	95.1 - 110.1	123,000	<0.147	<0.149	<0.133	<0.158	<0.100	0.331 J	0.346 J	<0.230 UJ
U4-E-03D	7/11/2023	N	EM11	UMCf	95.1 - 110.1	28,700	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	0.275 J	<0.230
U4-E-03D	8/10/2023	N	EM12	UMCf	95.1 - 110.1	12,200	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-E-03D	9/11/2023	N	EM13	UMCf	95.1 - 110.1	34,500	<0.147	<0.149	<0.133	<0.158	<0.100	0.270 J	0.373 J	<0.230
U4-E-03D	10/16/2023	N	EM14	UMCf	95.1 - 110.1	122,000	<29.4	<29.8	<26.6	<31.6	<20.0	<37.6	<28.4	<46.0

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	SW9060A/SM5310B Total Organic Carbon µg/L	Volatile Organic Compounds by SW8260B 1,1,1,2-Tetrachloroethane µg/L	Volatile Organic Compounds by SW8260B 1,1,1-Trichloroethane µg/L	Volatile Organic Compounds by SW8260B 1,1,2,2-Tetrachloroethane µg/L	Volatile Organic Compounds by SW8260B 1,1,2-Trichloroethane µg/L	Volatile Organic Compounds by SW8260B 1,1-Dichloroethane µg/L	Volatile Organic Compounds by SW8260B 1,1-Dichloroethene µg/L	Volatile Organic Compounds by SW8260B 1,1-Dichloropropene µg/L	Volatile Organic Compounds by SW8260B 1,2,3-Trichlorobenzene µg/L
U4-E-03D	6/10/2024	N	EM20	UMCf	95.1 - 110.1	6,590,000 J-	<2.94	<2.98	<2.66	<3.16	<2.00	<3.76	<2.84	<4.60
U4-E-03D	6/10/2024	FD	EM20	UMCf	95.1 - 110.1	6,450,000 J-	<2.94	<2.98	<2.66	<3.16	<2.00	<3.76	<2.84	<4.60
U4-E-03D	9/27/2024	N	EM21	UMCf	95.1 - 110.1	466,000	<0.735 UJ	<0.745 UJ	<0.665 UJ	<0.790 UJ	<0.500 UJ	<0.940 UJ	<0.710 UJ	<1.15 UJ
U4-E-03D	9/27/2024	FD	EM21	UMCf	95.1 - 110.1	458,000	<0.735 UJ	<0.745 UJ	<0.665 UJ	<0.790 UJ	<0.500 UJ	<0.940 UJ	<0.710 UJ	<1.15 UJ
U4-E-04D	4/19/2022	N	BL02	UMCf	95.0 - 110.0	1,380 J+	<0.147	<0.149	<0.133	<0.158	<0.100	0.223 J	<0.142	<0.230
U4-E-04D	3/14/2023	N	EM07	UMCf	95.0 - 110.0	3,170 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-E-04D	6/20/2024	N	EM20	UMCf	95.0 - 110.0	8,880,000 J-	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30
U4-E-04D	9/26/2024	N	EM21	UMCf	95.0 - 110.0	584,000 J-	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30
U4-E-04I	4/18/2022	N	BL02	UMCf	75.0 - 90.0	863 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-E-04I	3/14/2023	N	EM07	UMCf	75.0 - 90.0	1,580 J+	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5
U4-E-04I	6/20/2024	N	EM20	UMCf	75.0 - 90.0	7,720,000 J-	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30
U4-E-04I	9/26/2024	N	EM21	UMCf	75.0 - 90.0	471,000 J-	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30
U4-E-05D	4/19/2022	N	BL02	UMCf	95.0 - 110.0	1,070 J+	<0.147	<0.149	<0.133	<0.158	<0.100	0.271 J	<0.142	<0.230
U4-E-05D	3/16/2023	N	EM07	UMCf	95.0 - 110.0	2,450 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-E-05D	6/10/2024	N	EM20	UMCf	95.0 - 110.0	4,670,000 J-	<2.94	<2.98	<2.66	<3.16	<2.00	<3.76	<2.84	<4.60
U4-E-05D	9/27/2024	N	EM21	UMCf	95.0 - 110.0	451,000	<0.735 UJ	<0.745 UJ	<0.665 UJ	<0.790 UJ	<0.500 UJ	<0.940 UJ	<0.710 UJ	<1.15 UJ
U4-E-05I	4/19/2022	N	BL02	UMCf	75.0 - 90.0	1,110 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-E-05I	3/15/2023	N	EM07	UMCf	75.0 - 90.0	2,960 J+	<0.147 UJ	<0.149 UJ	<0.133 UJ	<0.158 UJ	<0.100 UJ	<0.188 UJ	<0.142 UJ	<0.230 UJ
U4-E-05I	6/19/2024	N	EM20	UMCf	75.0 - 90.0	6,690,000 J-	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5
U4-E-05I	9/27/2024	N	EM21	UMCf	75.0 - 90.0	811,000 J-	<1.47 UJ	<1.49 UJ	<1.33 UJ	<1.58 UJ	<1.00 UJ	<1.88 UJ	<1.42 UJ	<2.30 UJ
U4-E-06D	4/11/2022	N	BL02	UMCf	95.1 - 110.1	605 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-E-06D	6/20/2024	N	EM20	UMCf	95.1 - 110.1	327,000 J-	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30
U4-E-06D	9/27/2024	N	EM21	UMCf	95.1 - 110.1	490,000	<0.735 UJ	<0.745 UJ	<0.665 UJ	<0.790 UJ	<0.500 UJ	<0.940 UJ	<0.710 UJ	<1.15 UJ
U4-E-06I	4/11/2022	N	BL02	UMCf	73.2 - 88.2	863 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-E-06I	4/11/2022	FD	BL02	UMCf	73.2 - 88.2	909 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-E-06I	10/12/2022	N	EM02	UMCf	73.2 - 88.2	221,000	<0.147	<0.149	<0.133	<0.158	<0.100	0.210 J	0.258 J	<0.230
U4-E-06I	11/3/2022	N	EM03	UMCf	73.2 - 88.2	659,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	0.204 J	<0.230
U4-E-06I	12/6/2022	N	EM04	UMCf	73.2 - 88.2	69,200	<1.47 UJ	<1.49 UJ	<1.33 UJ	<1.58 UJ	<1.00 UJ	<1.88 UJ	<1.42 UJ	<2.30 UJ
U4-E-06I	1/9/2023	N	EM05	UMCf	73.2 - 88.2	117,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	0.224 J	<0.230
U4-E-06I	2/13/2023	N	EM06	UMCf	73.2 - 88.2	516,000	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0
U4-E-06I	3/13/2023	N	EM07	UMCf	73.2 - 88.2	399,000	<2.94	<2.98	<2.66	<3.16	<2.00	<3.76	<2.84	<4.60
U4-E-06I	4/17/2023	N	EM08	UMCf	73.2 - 88.2	198,000	<2.94	<2.98	<2.66	<3.16	<2.00	<3.76	<2.84	<4.60
U4-E-06I	5/15/2023	N	EM09	UMCf	73.2 - 88.2	29,900	<3.68	<3.73	<3.33	<3.95	<2.50	<4.70	<3.55	<5.75
U4-E-06I	6/12/2023	N	EM10	UMCf	73.2 - 88.2	66,900 J-	<0.147	<0.149	<0.133	<0.158	<0.100	0.235 J	0.288 J	<0.230 UJ
U4-E-06I	7/11/2023	N	EM11	UMCf	73.2 - 88.2	10,600	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-E-06I	8/11/2023	N	EM12	UMCf	73.2 - 88.2	54,700	<0.735	<0.745	<0.665	<0.790	<0.500	<0.940	<0.710	<1.15
U4-E-06I	9/11/2023	N	EM13	UMCf	73.2 - 88.2	1,270,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-E-06I	10/16/2023	N	EM14	UMCf	73.2 - 88.2	486,000	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5
U4-E-06I	12/13/2023	N	EM16	UMCf	73.2 - 88.2	513,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-E-06I	1/22/2024	N	EM17	UMCf	73.2 - 88.2	430,000 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-E-06I	2/13/2024	N	EM18	UMCf	73.2 - 88.2	155,000	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5
U4-E-06I	3/11/2024	N	EM19	UMCf	73.2 - 88.2	47,800	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5
U4-E-06I	6/11/2024	N	EM20	UMCf	73.2 - 88.2	90,900 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-E-06I	9/27/2024	N	EM21	UMCf	73.2 - 88.2	48,800	<2.94 UJ	<2.98 UJ	<2.66 UJ	<3.16 UJ	<2.00 UJ	<3.76 UJ	<2.84 UJ	<4.60 UJ
U4-E-07D	4/12/2022	N	BL02	UMCf	94.6 - 109.6	3,200 J	<0.147	<0.149	<0.133	<0.158	<0.100	0.682 J	0.594 J	<0.230
U4-E-07D	6/20/2024	N	EM20	UMCf	94.6 - 109.6	70,800	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30
U4-E-07D	9/26/2024	N	EM21	UMCf	94.6 - 109.6	83,300	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	SW9060A/SM5310B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Total Organic Carbon	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-E-07I	4/12/2022	N	BL02	UMCf	74.7 - 89.7	2,760 J	<0.147	<0.149	<0.133	<0.158	0.122 J	0.424 J	<0.142	<0.230
U4-E-07I	10/11/2022	N	EM02	UMCf	74.7 - 89.7	12,500	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30
U4-E-07I	11/3/2022	N	EM03	UMCf	74.7 - 89.7	18,800	<0.147	<0.149	<0.133	<0.158	<0.100	0.225 J	0.316 J	<0.230
U4-E-07I	12/6/2022	N	EM04	UMCf	74.7 - 89.7	17,100	<3.68 UJ	<3.73 UJ	<3.33 UJ	<3.95 UJ	<2.50 UJ	<4.70 UJ	<3.55 UJ	<5.75 UJ
U4-E-07I	1/9/2023	N	EM05	UMCf	74.7 - 89.7	4,110	<0.147	<0.149	<0.133	<0.158	<0.100	0.281 J	<0.142	<0.230
U4-E-07I	2/13/2023	N	EM06	UMCf	74.7 - 89.7	10,100	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0
U4-E-07I	3/13/2023	N	EM07	UMCf	74.7 - 89.7	6,770	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0
U4-E-07I	4/19/2023	N	EM08	UMCf	74.7 - 89.7	8,630	<0.735	<0.745	<0.665	<0.790	<0.500	<0.940	<0.710	<1.15
U4-E-07I	5/15/2023	N	EM09	UMCf	74.7 - 89.7	6,020	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0
U4-E-07I	6/12/2023	N	EM10	UMCf	74.7 - 89.7	7,650 J+	<0.147	<0.149	<0.133	<0.158	<0.100	0.315 J	0.338 J	<0.230 UJ
U4-E-07I	7/11/2023	N	EM11	UMCf	74.7 - 89.7	11,400	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-E-07I	8/11/2023	N	EM12	UMCf	74.7 - 89.7	10,700	<0.735	<0.745	<0.665	<0.790	<0.500	<0.940	<0.710	<1.15
U4-E-07I	9/11/2023	N	EM13	UMCf	74.7 - 89.7	15,700	<0.147	<0.149	<0.133	<0.158	<0.100	0.277 J	0.388 J	<0.230
U4-E-07I	10/16/2023	N	EM14	UMCf	74.7 - 89.7	13,800	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0
U4-E-07I	12/13/2023	N	EM16	UMCf	74.7 - 89.7	8,740	<0.147	<0.149	<0.133	<0.158	<0.100	0.275 J	0.428 J	<0.230
U4-E-07I	1/23/2024	N	EM17	UMCf	74.7 - 89.7	7,810	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-E-07I	2/13/2024	N	EM18	UMCf	74.7 - 89.7	8,210 J-	<29.4	<29.8	<26.6	<31.6	<20.0	<37.6	<28.4	<46.0
U4-E-07I	3/11/2024	N	EM19	UMCf	74.7 - 89.7	8,790	<29.4	<29.8	<26.6	<31.6	<20.0	<37.6	<28.4	<46.0
U4-E-07I	6/11/2024	N	EM20	UMCf	74.7 - 89.7	10,700	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	0.290 J	<0.230
U4-E-07I	9/26/2024	N	EM21	UMCf	74.7 - 89.7	8,980	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0
U4-E-08D	4/12/2022	N	BL02	UMCf	94.6 - 109.6	3,170 J	<0.147	<0.149	<0.133	<0.158	<0.100	0.759 J	0.631 J	<0.230
U4-E-08D	10/11/2022	N	EM02	UMCf	94.6 - 109.6	2,450	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30
U4-E-08D	11/3/2022	N	EM03	UMCf	94.6 - 109.6	2,770 J+	<0.147	<0.149	<0.133	<0.158	<0.100	0.501 J	0.528 J	<0.230
U4-E-08D	12/6/2022	N	EM04	UMCf	94.6 - 109.6	2,490 J+	<3.68 UJ	<3.73 UJ	<3.33 UJ	<3.95 UJ	<2.50 UJ	<4.70 UJ	<3.55 UJ	<5.75 UJ
U4-E-08D	1/9/2023	N	EM05	UMCf	94.6 - 109.6	2,610 J+	<0.147	<0.149	<0.133	<0.158	<0.100	0.285 J	0.335 J	<0.230
U4-E-08D	2/13/2023	N	EM06	UMCf	94.6 - 109.6	2,770	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0
U4-E-08D	3/13/2023	N	EM07	UMCf	94.6 - 109.6	3,510 J+	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0
U4-E-08D	4/19/2023	N	EM08	UMCf	94.6 - 109.6	3,960	<0.735	<0.745	<0.665	<0.790	<0.500	<0.940	<0.710	<1.15
U4-E-08D	5/17/2023	N	EM09	UMCf	94.6 - 109.6	5,820 J+	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0
U4-E-08D	6/12/2023	N	EM10	UMCf	94.6 - 109.6	3,530	<0.147	<0.149	<0.133	<0.158	<0.100	0.250 J	0.284 J	<0.230 UJ
U4-E-08D	7/11/2023	N	EM11	UMCf	94.6 - 109.6	3,900 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-E-09D	4/15/2022	N	BL02	UMCf	94.5 - 109.5	875 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-E-09D	6/10/2024	N	EM20	UMCf	94.5 - 109.5	6,560,000	<2.94	<2.98	<2.66	<3.16	<2.00	<3.76	<2.84	<4.60
U4-E-09D	9/27/2024	N	EM21	UMCf	94.5 - 109.5	710,000	<2.94 UJ	<2.98 UJ	<2.66 UJ	<3.16 UJ	<2.00 UJ	<3.76 UJ	<2.84 UJ	<4.60 UJ
U4-E-09I	4/14/2022	N	BL02	UMCf	74.9 - 89.9	1,280 J	<0.147	<0.149	<0.133	<0.158	<0.100	0.401 J	<0.142	<0.230
U4-E-09I	6/10/2024	N	EM20	UMCf	74.9 - 89.9	6,880,000 J-	<2.94	<2.98	<2.66	<3.16	<2.00	<3.76	<2.84	<4.60
U4-E-09I	6/10/2024	FD	EM20	UMCf	74.9 - 89.9	6,270,000 J-	<2.94	<2.98	<2.66	<3.16	<2.00	<3.76	<2.84	<4.60
U4-E-09I	9/26/2024	N	EM21	UMCf	74.9 - 89.9	664,000 J-	<2.94	<2.98	<2.66	<3.16	<2.00	<3.76	<2.84	<4.60
U4-E-09I	9/26/2024	FD	EM21	UMCf	74.9 - 89.9	669,000 J-	<2.94	<2.98	<2.66	<3.16	<2.00	<3.76	<2.84	<4.60
U4-E-10D	4/13/2022	N	BL02	UMCf	94.5 - 109.5	766 J	<0.147	<0.149	<0.133	<0.158	<0.100	0.398 J	<0.142	<0.230
U4-E-10D	6/19/2024	N	EM20	UMCf	94.5 - 109.5	8,390,000 J-	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30
U4-E-10D	9/25/2024	N	EM21	UMCf	94.5 - 109.5	6,030	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30
U4-E-10I	4/13/2022	N	BL02	UMCf	74.2 - 89.2	1,790 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-E-10I	6/11/2024	N	EM20	UMCf	74.2 - 89.2	7,560,000	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0
U4-E-10I	9/26/2024	N	EM21	UMCf	74.2 - 89.2	4,140,000 J-	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0
U4-MW-01D	4/19/2022	N	BL02	UMCf	96.7 - 106.7	952 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-01D	2/16/2023	N	EM06	UMCf	96.7 - 106.7	----	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	SW9060A/SM5 310B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Total Organic Carbon	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-01D	3/20/2023	N	EM07	UMCf	96.7 - 106.7	768 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-01D	6/13/2023	N	EM10	UMCf	96.7 - 106.7	742 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-01D	9/14/2023	N	EM13	UMCf	96.7 - 106.7	456 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-01D	12/14/2023	N	EM16	UMCf	96.7 - 106.7	563 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-01D	3/13/2024	N	EM19	UMCf	96.7 - 106.7	850 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-01D	6/18/2024	N	EM20	UMCf	96.7 - 106.7	775 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-01D	9/19/2024	N	EM21	UMCf	96.7 - 106.7	1,580 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-01DD	4/19/2022	N	BL02	UMCf	119.9 - 129.9	1,120 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-01DD	4/19/2022	FD	BL02	UMCf	119.9 - 129.9	1,080 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-01DD	3/15/2023	N	EM07	UMCf	119.9 - 129.9	1,100 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-01DD	6/13/2023	N	EM10	UMCf	119.9 - 129.9	1,010 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-01DD	9/14/2023	N	EM13	UMCf	119.9 - 129.9	447 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-01DD	12/15/2023	N	EM16	UMCf	119.9 - 129.9	462 J	<0.735	<0.745	<0.665	<0.790	<0.500	<0.940	<0.710	<1.15
U4-MW-01DD	3/12/2024	N	EM19	UMCf	119.9 - 129.9	374 J	<0.735	<0.745	<0.665	<0.790	<0.500	<0.940	<0.710	<1.15
U4-MW-01DD	6/18/2024	N	EM20	UMCf	119.9 - 129.9	377 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-01DD	9/20/2024	N	EM21	UMCf	119.9 - 129.9	739 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-01I	4/19/2022	N	BL02	UMCf	76.7 - 86.7	1,160 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-01I	3/20/2023	N	EM07	UMCf	76.7 - 86.7	751 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-01I	6/12/2023	N	EM10	UMCf	76.7 - 86.7	706 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230 UJ
U4-MW-01I	9/14/2023	N	EM13	UMCf	76.7 - 86.7	494 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-01I	12/15/2023	N	EM16	UMCf	76.7 - 86.7	570 J	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5
U4-MW-01I	3/13/2024	N	EM19	UMCf	76.7 - 86.7	1,310 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-01I	6/18/2024	N	EM20	UMCf	76.7 - 86.7	1,210	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-01I	9/19/2024	N	EM21	UMCf	76.7 - 86.7	1,870 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-01S	4/18/2022	N	BL02	UMCf	54.7 - 64.7	972 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-01S	3/15/2023	N	EM07	UMCf	54.7 - 64.7	1,420 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-01S	6/13/2023	N	EM10	UMCf	54.7 - 64.7	803 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-01S	9/15/2023	N	EM13	UMCf	54.7 - 64.7	963 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-01S	12/13/2023	N	EM16	UMCf	54.7 - 64.7	1,810	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-01S	3/13/2024	N	EM19	UMCf	54.7 - 64.7	5,520	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-01S	6/18/2024	N	EM20	UMCf	54.7 - 64.7	6,350	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-01S	9/20/2024	N	EM21	UMCf	54.7 - 64.7	7,880	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-02D	4/14/2022	N	BL02	UMCf	95.0 - 110.0	1,570 J	<0.147	<0.149	<0.133	<0.158	0.135 J	0.735 J	<0.142	<0.230
U4-MW-02D	10/11/2022	N	EM02	UMCf	95.0 - 110.0	787 J	<0.147	<0.149	<0.133	<0.158	<0.100	0.517 J	<0.142	<0.230
U4-MW-02D	11/1/2022	N	EM03	UMCf	95.0 - 110.0	558 J	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5
U4-MW-02D	12/7/2022	N	EM04	UMCf	95.0 - 110.0	924 J	<0.147	<0.149	<0.133	<0.158	0.165 J	0.832 J	0.619 J	<0.230
U4-MW-02D	1/10/2023	N	EM05	UMCf	95.0 - 110.0	1,850 J	<0.147	<0.149	<0.133	<0.158	0.118 J	0.763 J	0.566 J	<0.230 UJ
U4-MW-02D	2/13/2023	N	EM06	UMCf	95.0 - 110.0	869 J	<0.147	<0.149	<0.133	<0.158	0.124 J	0.902 J	0.663 J	<0.230
U4-MW-02D	3/17/2023	N	EM07	UMCf	95.0 - 110.0	1,830 J+	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0
U4-MW-02D	4/19/2023	N	EM08	UMCf	95.0 - 110.0	1,620	<0.735	<0.745	<0.665	<0.790	<0.500	<0.940	<0.710	<1.15
U4-MW-02D	5/9/2023	N	EM09	UMCf	95.0 - 110.0	1,930 J+	<0.735	<0.745	<0.665	<0.790	<0.500	<0.940	<0.710	<1.15
U4-MW-02D	6/13/2023	N	EM10	UMCf	95.0 - 110.0	1,140 J+	<0.147	<0.149	<0.133	<0.158	<0.100	0.382 J	0.188 J	<0.230
U4-MW-02D	7/18/2023	N	EM11	UMCf	95.0 - 110.0	1,680 J+	<0.147	<0.149	<0.133	<0.158	0.108 J	0.768 J	<0.142	<0.230
U4-MW-02D	8/14/2023	N	EM12	UMCf	95.0 - 110.0	1,380 J+	<36.8	<37.3	<33.3	<39.5	<25.0	<47.0	<35.5	<57.5
U4-MW-02D	9/11/2023	N	EM13	UMCf	95.0 - 110.0	1,570 J+	<0.147	<0.149	<0.133	<0.158	0.113 J	0.594 J	0.313 J	<0.230
U4-MW-02D	10/19/2023	N	EM14	UMCf	95.0 - 110.0	1,070	<0.147	<0.149	<0.133	<0.158	0.161 J	0.745 J	<0.142	<0.230
U4-MW-02D	11/15/2023	N	EM15	UMCf	95.0 - 110.0	2,910	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	SW9060A/SM5310B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Total Organic Carbon	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-02D	12/14/2023	N	EM16	UMCf	95.0 - 110.0	819 J	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0
U4-MW-02D	1/25/2024	N	EM17	UMCf	95.0 - 110.0	1,120	<0.147	<0.149	<0.133	<0.158	<0.100	0.444 J	<0.142	<0.230
U4-MW-02D	2/12/2024	N	EM18	UMCf	95.0 - 110.0	1,260 J+	<0.147	<0.149	<0.133	<0.158	<0.100	0.420 J	<0.142	<0.230
U4-MW-02D	3/13/2024	N	EM19	UMCf	95.0 - 110.0	1,130 J+	<0.147	<0.149	<0.133	<0.158	<0.100	0.518 J	0.387 J	<0.230
U4-MW-02D	6/17/2024	N	EM20	UMCf	95.0 - 110.0	2,460 J+	<0.147	<0.149	<0.133	<0.158	<0.100	0.266 J	<0.142	<0.230
U4-MW-02D	9/23/2024	N	EM21	UMCf	95.0 - 110.0	1,450	<0.147	<0.149	<0.133	<0.158	<0.100	0.504 J	0.318 J	<0.230
U4-MW-02I	4/14/2022	N	BL02	UMCf	75.0 - 90.0	1,100 J+	<0.147	<0.149	<0.133	<0.158	<0.100	0.431 J	<0.142	<0.230
U4-MW-02I	10/11/2022	N	EM02	UMCf	75.0 - 90.0	8,510	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-02I	11/2/2022	N	EM03	UMCf	75.0 - 90.0	88,500	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30
U4-MW-02I	11/2/2022	FD	EM03	UMCf	75.0 - 90.0	75,900	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30
U4-MW-02I	12/8/2022	N	EM04	UMCf	75.0 - 90.0	31,600 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-02I	12/8/2022	FD	EM04	UMCf	75.0 - 90.0	161,000 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-02I	1/13/2023	N	EM05	UMCf	75.0 - 90.0	76,100	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30
U4-MW-02I	1/13/2023	FD	EM05	UMCf	75.0 - 90.0	74,900 J-	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30
U4-MW-02I	2/15/2023	N	EM06	UMCf	75.0 - 90.0	10,700	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30 UJ
U4-MW-02I	2/15/2023	FD	EM06	UMCf	75.0 - 90.0	13,300	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30 UJ
U4-MW-02I	3/17/2023	N	EM07	UMCf	75.0 - 90.0	12,000	<29.4	<29.8	<26.6	<31.6	<20.0	<37.6	<28.4	<46.0
U4-MW-02I	3/17/2023	FD	EM07	UMCf	75.0 - 90.0	12,700	<29.4	<29.8	<26.6	<31.6	<20.0	<37.6	<28.4	<46.0
U4-MW-02I	4/20/2023	N	EM08	UMCf	75.0 - 90.0	104,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-02I	4/20/2023	FD	EM08	UMCf	75.0 - 90.0	105,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-02I	5/9/2023	N	EM09	UMCf	75.0 - 90.0	141,000 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-02I	5/9/2023	FD	EM09	UMCf	75.0 - 90.0	35,900 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-02I	6/12/2023	N	EM10	UMCf	75.0 - 90.0	159,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230 UJ
U4-MW-02I	6/12/2023	FD	EM10	UMCf	75.0 - 90.0	157,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230 UJ
U4-MW-02I	7/18/2023	N	EM11	UMCf	75.0 - 90.0	255,000 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-02I	7/18/2023	FD	EM11	UMCf	75.0 - 90.0	291,000 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-02I	8/11/2023	N	EM12	UMCf	75.0 - 90.0	19,700	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-02I	8/11/2023	FD	EM12	UMCf	75.0 - 90.0	19,500	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-02I	9/11/2023	N	EM13	UMCf	75.0 - 90.0	253,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-02I	9/11/2023	FD	EM13	UMCf	75.0 - 90.0	253,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-02I	10/19/2023	N	EM14	UMCf	75.0 - 90.0	25,000	<0.147 UJ	<0.149 UJ	<0.133 UJ	<0.158 UJ	<0.100 UJ	0.377 J	0.286 J	<0.230 UJ
U4-MW-02I	10/19/2023	FD	EM14	UMCf	75.0 - 90.0	24,900	<0.147	<0.149	<0.133	<0.158	<0.100	0.396 J	<0.142	<0.230
U4-MW-02I	11/15/2023	N	EM15	UMCf	75.0 - 90.0	128,000	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5
U4-MW-02I	11/15/2023	FD	EM15	UMCf	75.0 - 90.0	128,000	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5
U4-MW-02I	12/14/2023	N	EM16	UMCf	75.0 - 90.0	293,000	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5
U4-MW-02I	12/14/2023	FD	EM16	UMCf	75.0 - 90.0	293,000	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5
U4-MW-02I	1/25/2024	N	EM17	UMCf	75.0 - 90.0	257,000	<0.147	<0.149	<0.133	<0.158	<0.100	0.333 J	0.488 J	<0.230
U4-MW-02I	1/25/2024	FD	EM17	UMCf	75.0 - 90.0	255,000	<0.147	<0.149	<0.133	<0.158	<0.100	0.342 J	0.434 J	<0.230
U4-MW-02I	2/12/2024	N	EM18	UMCf	75.0 - 90.0	286,000	<0.147	<0.149	<0.133	<0.158	<0.100	0.281 J	0.325 J	<0.230
U4-MW-02I	2/12/2024	FD	EM18	UMCf	75.0 - 90.0	285,000 J	<0.147	<0.149	<0.133	<0.158	<0.100	0.277 J	0.393 J	<0.230
U4-MW-02I	3/13/2024	N	EM19	UMCf	75.0 - 90.0	252,000	<0.147	<0.149	<0.133	<0.158	<0.100	0.260 J	<0.142	<0.230
U4-MW-02I	3/13/2024	FD	EM19	UMCf	75.0 - 90.0	247,000	<0.147	<0.149	<0.133	<0.158	<0.100	0.341 J	0.439 J	<0.230
U4-MW-02I	6/17/2024	N	EM20	UMCf	75.0 - 90.0	256,000 J-	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5
U4-MW-02I	6/17/2024	FD	EM20	UMCf	75.0 - 90.0	247,000 J-	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5
U4-MW-02I	9/23/2024	N	EM21	UMCf	75.0 - 90.0	22,400	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	0.182 J	<0.230
U4-MW-02I	9/23/2024	FD	EM21	UMCf	75.0 - 90.0	22,300	<0.147	<0.149	<0.133	<0.158	<0.100	0.235 J	0.192 J	<0.230
U4-MW-03D	4/20/2022	N	BL02	UMCf	96.6 - 106.6	964 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	SW9060A/SM5310B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Total Organic Carbon	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-03D	2/16/2023	N	EM06	UMCf	96.6 - 106.6	----	<0.735	<0.745	<0.665	<0.790	<0.500	<0.940	<0.710	<1.15
U4-MW-03D	3/16/2023	N	EM07	UMCf	96.6 - 106.6	816 J	<2.94	<2.98	<2.66	<3.16	<2.00	<3.76	<2.84	<4.60
U4-MW-03D	3/16/2023	FD	EM07	UMCf	96.6 - 106.6	831 J	<0.735	<0.745	<0.665	<0.790	<0.500	<0.940	<0.710	<1.15
U4-MW-03D	6/15/2023	N	EM10	UMCf	96.6 - 106.6	538 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-03D	9/14/2023	N	EM13	UMCf	96.6 - 106.6	1,900	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-03D	12/13/2023	N	EM16	UMCf	96.6 - 106.6	64,500	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-03D	3/15/2024	N	EM19	UMCf	96.6 - 106.6	15,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-03D	6/17/2024	N	EM20	UMCf	96.6 - 106.6	32,800	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5
U4-MW-03D	9/18/2024	N	EM21	UMCf	96.6 - 106.6	6,530	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-03DD	4/20/2022	N	BL02	UMCf	119.7 - 129.7	999 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-03DD	3/15/2023	N	EM07	UMCf	119.7 - 129.7	846 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-03DD	6/15/2023	N	EM10	UMCf	119.7 - 129.7	274 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-03DD	9/14/2023	N	EM13	UMCf	119.7 - 129.7	161 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-03DD	12/14/2023	N	EM16	UMCf	119.7 - 129.7	156 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-03DD	3/14/2024	N	EM19	UMCf	119.7 - 129.7	293 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-03DD	6/17/2024	N	EM20	UMCf	119.7 - 129.7	350 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-03DD	9/18/2024	N	EM21	UMCf	119.7 - 129.7	243 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-03I	4/19/2022	N	BL02	UMCf	76.6 - 86.6	3,300 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-03I	3/15/2023	N	EM07	UMCf	76.6 - 86.6	1,260 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-03I	6/14/2023	N	EM10	UMCf	76.6 - 86.6	607 J	<2.94	<2.98	<2.66	<3.16	<2.00	<3.76	<2.84	<4.60
U4-MW-03I	6/14/2023	FD	EM10	UMCf	76.6 - 86.6	620 J	<3.68	<3.73	<3.33	<3.95	<2.50	<4.70	<3.55	<5.75
U4-MW-03I	9/11/2023	N	EM13	UMCf	76.6 - 86.6	1,120 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	0.165 J	<0.230
U4-MW-03I	9/11/2023	FD	EM13	UMCf	76.6 - 86.6	1,190 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-03I	12/13/2023	N	EM16	UMCf	76.6 - 86.6	4,540	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-03I	12/13/2023	FD	EM16	UMCf	76.6 - 86.6	4,600	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-03I	3/14/2024	N	EM19	UMCf	76.6 - 86.6	78,000	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5
U4-MW-03I	3/14/2024	FD	EM19	UMCf	76.6 - 86.6	77,500	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5
U4-MW-03I	6/19/2024	N	EM20	UMCf	76.6 - 86.6	375,000 J-	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5
U4-MW-03I	6/19/2024	FD	EM20	UMCf	76.6 - 86.6	379,000 J-	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5
U4-MW-03I	9/20/2024	N	EM21	UMCf	76.6 - 86.6	39,100	<0.735	<0.745	<0.665	<0.790	<0.500	<0.940	<0.710	<1.15
U4-MW-03I	9/20/2024	FD	EM21	UMCf	76.6 - 86.6	125,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-03S	4/18/2022	N	BL02	UMCf	54.5 - 64.5	1,200 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-03S	4/18/2022	FD	BL02	UMCf	54.5 - 64.5	1,320 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-03S	3/15/2023	N	EM07	UMCf	54.5 - 64.5	1,480 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-03S	6/15/2023	N	EM10	UMCf	54.5 - 64.5	2,310 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-03S	9/14/2023	N	EM13	UMCf	54.5 - 64.5	5,950	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-03S	12/13/2023	N	EM16	UMCf	54.5 - 64.5	3,280	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-03S	3/14/2024	N	EM19	UMCf	54.5 - 64.5	5,120	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-03S	6/14/2024	N	EM20	UMCf	54.5 - 64.5	5,840	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-03S	9/18/2024	N	EM21	UMCf	54.5 - 64.5	11,500	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-04D	4/19/2022	N	BL02	UMCf	97.0 - 107.0	7,260 J+	<0.147	<0.149	<0.133	<0.158	<0.100	0.560 J	<0.142	<0.230
U4-MW-04D	2/16/2023	N	EM06	UMCf	97.0 - 107.0	----	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5
U4-MW-04D	3/21/2023	N	EM07	UMCf	97.0 - 107.0	1,210 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-04D	6/14/2023	N	EM10	UMCf	97.0 - 107.0	57,600	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-04D	9/15/2023	N	EM13	UMCf	97.0 - 107.0	4,430	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-04D	12/12/2023	N	EM16	UMCf	97.0 - 107.0	127,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-04D	3/12/2024	N	EM19	UMCf	97.0 - 107.0	69,000	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	SW9060A/SM5310B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Total Organic Carbon	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-04D	6/19/2024	N	EM20	UMCf	97.0 - 107.0	7,510	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5
U4-MW-04D	9/24/2024	N	EM21	UMCf	97.0 - 107.0	3,940 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-04I	4/19/2022	N	BL02	UMCf	76.8 - 86.8	1,530 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-04I	3/20/2023	N	EM07	UMCf	76.8 - 86.8	1,200 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	0.158 J	<0.230
U4-MW-04I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	39,000	<0.735	<0.745	<0.665	<0.790	<0.500	<0.940	<0.710	<1.15
U4-MW-04I	9/14/2023	N	EM13	UMCf	76.8 - 86.8	1,630	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-04I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	7,380	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-04I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	2,780	<29.4	<29.8	<26.6	<31.6	<20.0	<37.6	<28.4	<46.0
U4-MW-04I	6/18/2024	N	EM20	UMCf	76.8 - 86.8	3,110	<0.735	<0.745	<0.665	<0.790	<0.500	<0.940	<0.710	<1.15
U4-MW-04I	9/24/2024	N	EM21	UMCf	76.8 - 86.8	2,580 J+	<0.147	<0.149	<0.133	<0.158	<0.100	0.341 J	<0.142	<0.230
U4-MW-05D	4/15/2022	N	BL02	UMCf	98.2 - 108.2	1,710 J	<0.147	<0.149	<0.133	<0.158	0.181 J	0.659 J	0.565 J	<0.230
U4-MW-05D	10/13/2022	N	EM02	UMCf	98.2 - 108.2	1,300 J	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0
U4-MW-05D	11/3/2022	N	EM03	UMCf	98.2 - 108.2	1,450 J+	<0.147	<0.149	<0.133	<0.158	0.118 J	0.278 J	0.297 J	<0.230
U4-MW-05D	12/7/2022	N	EM04	UMCf	98.2 - 108.2	1,200 J+	<0.147	<0.149	<0.133	<0.158	0.116 J	0.436 J	0.544 J	<0.230
U4-MW-05D	1/11/2023	N	EM05	UMCf	98.2 - 108.2	1,200 J+	<0.147	<0.149	<0.133	<0.158	0.106 J	0.330 J	0.362 J	<0.230
U4-MW-05D	2/14/2023	N	EM06	UMCf	98.2 - 108.2	1,090	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0
U4-MW-05D	3/16/2023	N	EM07	UMCf	98.2 - 108.2	1,370 J+	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0
U4-MW-05D	4/20/2023	N	EM08	UMCf	98.2 - 108.2	4,520	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	0.187 J	<0.230
U4-MW-05D	5/10/2023	N	EM09	UMCf	98.2 - 108.2	94,100	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	0.197 J	<0.230
U4-MW-05D	6/15/2023	N	EM10	UMCf	98.2 - 108.2	129,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-05D	7/18/2023	N	EM11	UMCf	98.2 - 108.2	22,100	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-05D	8/14/2023	N	EM12	UMCf	98.2 - 108.2	50,700	<3.68	<3.73	<3.33	<3.95	<2.50	<4.70	<3.55	<5.75
U4-MW-05D	9/12/2023	N	EM13	UMCf	98.2 - 108.2	127,000	<3.68	<3.73	<3.33	<3.95	<2.50	<4.70	<3.55	<5.75
U4-MW-05D	10/18/2023	N	EM14	UMCf	98.2 - 108.2	185,000 J-	<3.68	<3.73	<3.33	<3.95	<2.50	<4.70	<3.55	<5.75
U4-MW-05D	11/16/2023	N	EM15	UMCf	98.2 - 108.2	215,000	<3.68	<3.73	<3.33	<3.95	<2.50	<4.70	<3.55	<5.75
U4-MW-05D	12/14/2023	N	EM16	UMCf	98.2 - 108.2	3,170,000 J-	<3.68	<3.73	<3.33	<3.95	<2.50	<4.70	<3.55	<5.75
U4-MW-05D	1/26/2024	N	EM17	UMCf	98.2 - 108.2	1,390,000 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-05D	2/14/2024	N	EM18	UMCf	98.2 - 108.2	647,000 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-05D	3/12/2024	N	EM19	UMCf	98.2 - 108.2	700,000	<3.68	<3.73	<3.33	<3.95	<2.50	<4.70	<3.55	<5.75
U4-MW-05D	6/18/2024	N	EM20	UMCf	98.2 - 108.2	151,000 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-05D	9/25/2024	N	EM21	UMCf	98.2 - 108.2	140,000	<7.35 UJ	<7.45 UJ	<6.65 UJ	<7.90 UJ	<5.00 UJ	<9.40 UJ	<7.10 UJ	<11.5 UJ
U4-MW-05I	4/15/2022	N	BL02	UMCf	76.6 - 86.6	1,460 J+	<0.147	<0.149	<0.133	<0.158	<0.100	0.359 J	0.311 J	<0.230
U4-MW-05I	10/13/2022	N	EM02	UMCf	76.6 - 86.6	1,180 J	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0
U4-MW-05I	11/3/2022	N	EM03	UMCf	76.6 - 86.6	1,370 J+	<0.147	<0.149	<0.133	<0.158	0.154 J	0.448 J	0.557 J	<0.230
U4-MW-05I	12/8/2022	N	EM04	UMCf	76.6 - 86.6	1,630 J+	<0.147	<0.149	<0.133	<0.158	0.135 J	0.345 J	<0.142	<0.230
U4-MW-05I	1/11/2023	N	EM05	UMCf	76.6 - 86.6	1,400 J+	<0.147	<0.149	<0.133	<0.158	<0.100	0.289 J	0.462 J	<0.230
U4-MW-05I	2/14/2023	N	EM06	UMCf	76.6 - 86.6	1,260 J+	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0
U4-MW-05I	3/14/2023	N	EM07	UMCf	76.6 - 86.6	1,990 J+	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0
U4-MW-05I	4/21/2023	N	EM08	UMCf	76.6 - 86.6	379,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-05I	5/10/2023	N	EM09	UMCf	76.6 - 86.6	531,000 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-05I	6/15/2023	N	EM10	UMCf	76.6 - 86.6	485,000 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-05I	7/17/2023	N	EM11	UMCf	76.6 - 86.6	54,600 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-05I	8/14/2023	N	EM12	UMCf	76.6 - 86.6	131,000	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5
U4-MW-05I	9/13/2023	N	EM13	UMCf	76.6 - 86.6	98,100 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-05I	10/18/2023	N	EM14	UMCf	76.6 - 86.6	66,000 J-	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5
U4-MW-05I	11/15/2023	N	EM15	UMCf	76.6 - 86.6	166,000 J-	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5
U4-MW-05I	12/12/2023	N	EM16	UMCf	76.6 - 86.6	403 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	SW9060A/SM5 310B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Total Organic Carbon	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-05I	1/26/2024	N	EM17	UMCf	76.6 - 86.6	651,000 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-05I	2/14/2024	N	EM18	UMCf	76.6 - 86.6	361,000 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-05I	3/11/2024	N	EM19	UMCf	76.6 - 86.6	188,000 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-05I	6/18/2024	N	EM20	UMCf	76.6 - 86.6	141,000 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-05I	9/25/2024	N	EM21	UMCf	76.6 - 86.6	58,000	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0
U4-MW-06D	4/19/2022	N	BL02	UMCf	97.1 - 107.1	1,350 J+	<0.147	<0.149	<0.133	<0.158	0.134 J	0.315 J	<0.142	<0.230
U4-MW-06D	2/15/2023	N	EM06	UMCf	97.1 - 107.1	----	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5
U4-MW-06D	3/21/2023	N	EM07	UMCf	97.1 - 107.1	919 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-06D	6/16/2023	N	EM10	UMCf	97.1 - 107.1	863 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-06D	9/13/2023	N	EM13	UMCf	97.1 - 107.1	180,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-06D	12/13/2023	N	EM16	UMCf	97.1 - 107.1	359,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-06D	3/14/2024	N	EM19	UMCf	97.1 - 107.1	763,000	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5
U4-MW-06D	6/12/2024	N	EM20	UMCf	97.1 - 107.1	397,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-06D	9/20/2024	N	EM21	UMCf	97.1 - 107.1	229,000	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30
U4-MW-06I	4/19/2022	N	BL02	UMCf	76.5 - 86.5	1,190 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-06I	3/14/2023	N	EM07	UMCf	76.5 - 86.5	1,660 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-06I	6/16/2023	N	EM10	UMCf	76.5 - 86.5	4,040	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-06I	9/12/2023	N	EM13	UMCf	76.5 - 86.5	73,800	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5
U4-MW-06I	12/12/2023	N	EM16	UMCf	76.5 - 86.5	150,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-06I	3/14/2024	N	EM19	UMCf	76.5 - 86.5	544,000	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0
U4-MW-06I	6/11/2024	N	EM20	UMCf	76.5 - 86.5	333,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	0.187 J	<0.230
U4-MW-06I	9/20/2024	N	EM21	UMCf	76.5 - 86.5	31,900	<3.68	<3.73	<3.33	<3.95	<2.50	<4.70	<3.55	<5.75
U4-MW-07D	4/15/2022	N	BL02	UMCf	96.8 - 106.5	631 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-07D	10/12/2022	N	EM02	UMCf	96.8 - 106.5	1,630 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-07D	10/12/2022	FD	EM02	UMCf	96.8 - 106.5	1,490 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-07D	11/3/2022	N	EM03	UMCf	96.8 - 106.5	1,680 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-07D	12/7/2022	N	EM04	UMCf	96.8 - 106.5	1,580 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-07D	1/11/2023	N	EM05	UMCf	96.8 - 106.5	1,480 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-07D	2/14/2023	N	EM06	UMCf	96.8 - 106.5	1,320	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-07D	3/16/2023	N	EM07	UMCf	96.8 - 106.5	1,930 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-07D	4/21/2023	N	EM08	UMCf	96.8 - 106.5	416,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-07D	5/11/2023	N	EM09	UMCf	96.8 - 106.5	1,390 J+	<0.147 UJ	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-07D	6/13/2023	N	EM10	UMCf	96.8 - 106.5	392,000 J-	<0.147 UJ	<0.149 UJ	<0.133 UJ	<0.158 UJ	<0.100 UJ	<0.188 UJ	<0.142 UJ	<0.230 UJ
U4-MW-07D	7/17/2023	N	EM11	UMCf	96.8 - 106.5	38,900	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-07D	8/11/2023	N	EM12	UMCf	96.8 - 106.5	192,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-07D	9/13/2023	N	EM13	UMCf	96.8 - 106.5	129,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-07D	10/18/2023	N	EM14	UMCf	96.8 - 106.5	282,000 J-	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0
U4-MW-07D	11/16/2023	N	EM15	UMCf	96.8 - 106.5	592,000 J-	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0
U4-MW-07D	12/12/2023	N	EM16	UMCf	96.8 - 106.5	1,210 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-07D	1/26/2024	N	EM17	UMCf	96.8 - 106.5	1,880,000 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-07D	2/13/2024	N	EM18	UMCf	96.8 - 106.5	4,510,000 J-	<3.68	<3.73	<3.33	<3.95	<2.50	<4.70	<3.55	<5.75
U4-MW-07D	3/11/2024	N	EM19	UMCf	96.8 - 106.5	2,530,000	<3.68	<3.73	<3.33	<3.95	<2.50	<4.70	<3.55	<5.75
U4-MW-07D	6/12/2024	N	EM20	UMCf	96.8 - 106.5	3,220,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-07D	9/18/2024	N	EM21	UMCf	96.8 - 106.5	2,560,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-07I	4/15/2022	N	BL02	UMCf	76.8 - 86.8	2,760 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-07I	10/12/2022	N	EM02	UMCf	76.8 - 86.8	1,370 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-07I	11/3/2022	N	EM03	UMCf	76.8 - 86.8	1,530 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	SW9060A/SM5 310B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Total Organic Carbon	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-07I	12/7/2022	N	EM04	UMCf	76.8 - 86.8	1,630 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-07I	1/11/2023	N	EM05	UMCf	76.8 - 86.8	1,420 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-07I	2/15/2023	N	EM06	UMCf	76.8 - 86.8	1,250	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230 UJ
U4-MW-07I	3/16/2023	N	EM07	UMCf	76.8 - 86.8	25,900 J-	<0.735	<0.745	<0.665	<0.790	<0.500	<0.940	<0.710	<1.15
U4-MW-07I	4/21/2023	N	EM08	UMCf	76.8 - 86.8	113,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-07I	5/11/2023	N	EM09	UMCf	76.8 - 86.8	352,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-07I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	171,000	<0.735	<0.745	<0.665	<0.790	<0.500	<0.940	<0.710	<1.15
U4-MW-07I	7/17/2023	N	EM11	UMCf	76.8 - 86.8	47,900	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-07I	8/11/2023	N	EM12	UMCf	76.8 - 86.8	255,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-07I	9/13/2023	N	EM13	UMCf	76.8 - 86.8	409,000 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-07I	10/18/2023	N	EM14	UMCf	76.8 - 86.8	271 J	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5
U4-MW-07I	11/16/2023	N	EM15	UMCf	76.8 - 86.8	613,000 J-	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5
U4-MW-07I	12/11/2023	N	EM16	UMCf	76.8 - 86.8	937,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-07I	1/26/2024	N	EM17	UMCf	76.8 - 86.8	1,430,000 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-07I	2/13/2024	N	EM18	UMCf	76.8 - 86.8	3,700,000	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5
U4-MW-07I	3/11/2024	N	EM19	UMCf	76.8 - 86.8	1,170,000 J-	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5
U4-MW-07I	6/12/2024	N	EM20	UMCf	76.8 - 86.8	1,030,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-07I	9/18/2024	N	EM21	UMCf	76.8 - 86.8	929,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-08D	4/13/2022	N	BL02	UMCf	98.6 - 108.6	3,420 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-08D	12/7/2022	N	EM04	UMCf	98.6 - 108.6	6,460	<0.147	<0.149	<0.133	<0.158	<0.100	0.391 J	<0.142	<0.230
U4-MW-08D	3/17/2023	N	EM07	UMCf	98.6 - 108.6	10,900 J-	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0
U4-MW-08D	6/13/2023	N	EM10	UMCf	98.6 - 108.6	9,200 J+	<0.147	<0.149	<0.133	<0.158	<0.100	0.303 J	0.210 J	<0.230
U4-MW-08D	9/13/2023	N	EM13	UMCf	98.6 - 108.6	1,930 J+	<0.147	<0.149	<0.133	<0.158	<0.100	0.671 J	0.485 J	<0.230
U4-MW-08D	12/11/2023	N	EM16	UMCf	98.6 - 108.6	4,540	<0.147	<0.149	<0.133	<0.158	<0.100	0.303 J	<0.142	<0.230
U4-MW-08D	3/12/2024	N	EM19	UMCf	98.6 - 108.6	50,100	<29.4	<29.8	<26.6	<31.6	<20.0	<37.6	<28.4	<46.0
U4-MW-08D	6/14/2024	N	EM20	UMCf	98.6 - 108.6	10,500	<29.4	<29.8	<26.6	<31.6	<20.0	<37.6	<28.4	<46.0
U4-MW-08D	9/23/2024	N	EM21	UMCf	98.6 - 108.6	7,510	<0.147	<0.149	<0.133	<0.158	<0.100	0.196 J	<0.142	<0.230
U4-MW-08DD	4/20/2022	N	BL02	UMCf	119.8 - 129.8	670 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-08DD	4/20/2022	FD	BL02	UMCf	119.8 - 129.8	672 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-08DD	12/8/2022	N	EM04	UMCf	119.8 - 129.8	1,170 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-08DD	3/15/2023	N	EM07	UMCf	119.8 - 129.8	935 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-08DD	6/14/2023	N	EM10	UMCf	119.8 - 129.8	550 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-08DD	9/14/2023	N	EM13	UMCf	119.8 - 129.8	214 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-08DD	12/14/2023	N	EM16	UMCf	119.8 - 129.8	873 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-08DD	3/14/2024	N	EM19	UMCf	119.8 - 129.8	337 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-08DD	6/12/2024	N	EM20	UMCf	119.8 - 129.8	908 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-08DD	9/20/2024	N	EM21	UMCf	119.8 - 129.8	791 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-08I	4/13/2022	N	BL02	UMCf	78.0 - 88.0	1,740 J	<0.147	<0.149	<0.133	<0.158	<0.100	1.02	<0.142	<0.230
U4-MW-08I	12/7/2022	N	EM04	UMCf	78.0 - 88.0	1,790 J+	<0.147	<0.149	<0.133	<0.158	<0.100	0.223 J	<0.142	<0.230
U4-MW-08I	12/7/2022	FD	EM04	UMCf	78.0 - 88.0	1,310 J+	<0.147	<0.149	<0.133	<0.158	<0.100	0.232 J	0.238 J	<0.230
U4-MW-08I	3/17/2023	N	EM07	UMCf	78.0 - 88.0	1,640 J+	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5
U4-MW-08I	6/13/2023	N	EM10	UMCf	78.0 - 88.0	12,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	0.152 J	<0.230
U4-MW-08I	9/13/2023	N	EM13	UMCf	78.0 - 88.0	5,260	<0.147	<0.149	<0.133	<0.158	<0.100	0.259 J	0.285 J	<0.230
U4-MW-08I	12/11/2023	N	EM16	UMCf	78.0 - 88.0	18,000	<0.147	<0.149	<0.133	<0.158	<0.100	0.233 J	<0.142	<0.230
U4-MW-08I	3/12/2024	N	EM19	UMCf	78.0 - 88.0	12,600	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0
U4-MW-08I	6/14/2024	N	EM20	UMCf	78.0 - 88.0	10,400 J-	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0
U4-MW-08I	9/23/2024	N	EM21	UMCf	78.0 - 88.0	9,220	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	SW9060A/SM5310B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Total Organic Carbon	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-08S	4/15/2022	N	BL02	UMCf	54.9 - 64.9	1,190 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-08S	12/7/2022	N	EM04	UMCf	54.9 - 64.9	3,390 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-08S	12/7/2022	FD	EM04	UMCf	54.9 - 64.9	2,830 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-08S	3/13/2023	N	EM07	UMCf	54.9 - 64.9	9,910	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-08S	3/13/2023	FD	EM07	UMCf	54.9 - 64.9	12,800 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-08S	6/13/2023	N	EM10	UMCf	54.9 - 64.9	190,000 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-08S	6/13/2023	FD	EM10	UMCf	54.9 - 64.9	201,000 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-08S	9/13/2023	N	EM13	UMCf	54.9 - 64.9	52,200 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-08S	9/13/2023	FD	EM13	UMCf	54.9 - 64.9	51,600 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-08S	12/14/2023	N	EM16	UMCf	54.9 - 64.9	1,050,000 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-08S	12/14/2023	FD	EM16	UMCf	54.9 - 64.9	1,010,000 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-08S	3/14/2024	N	EM19	UMCf	54.9 - 64.9	41,700 J-	<0.294 UJ	<0.298 UJ	<0.266 UJ	<0.316 UJ	<0.200 UJ	<0.376 UJ	<0.284 UJ	<0.460 UJ
U4-MW-08S	3/14/2024	FD	EM19	UMCf	54.9 - 64.9	43,000 J-	<0.294 UJ	<0.298 UJ	<0.266 UJ	<0.316 UJ	<0.200 UJ	<0.376 UJ	<0.284 UJ	<0.460 UJ
U4-MW-08S	3/25/2024	N	EM19	UMCf	54.9 - 64.9	234,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-08S	3/25/2024	FD	EM19	UMCf	54.9 - 64.9	220,000 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-08S	6/14/2024	N	EM20	UMCf	54.9 - 64.9	41,500	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-08S	6/14/2024	FD	EM20	UMCf	54.9 - 64.9	40,500 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-08S	9/20/2024	N	EM21	UMCf	54.9 - 64.9	42,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-08S	9/20/2024	FD	EM21	UMCf	54.9 - 64.9	45,100	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-09D	4/14/2022	N	BL02	UMCf	96.9 - 106.9	1,590 J	<0.147	<0.149	<0.133	<0.158	<0.100	0.455 J	<0.142	<0.230
U4-MW-09D	12/6/2022	N	EM04	UMCf	96.9 - 106.9	751 J	<1.47 UJ	<1.49 UJ	<1.33 UJ	<1.58 UJ	<1.00 UJ	<1.88 UJ	<1.42 UJ	<2.30 UJ
U4-MW-09D	3/16/2023	N	EM07	UMCf	96.9 - 106.9	146,000	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30
U4-MW-09D	6/14/2023	N	EM10	UMCf	96.9 - 106.9	223,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-09D	9/12/2023	N	EM13	UMCf	96.9 - 106.9	87,700	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-09D	12/15/2023	N	EM16	UMCf	96.9 - 106.9	168,000	<3.68 UJ	<3.73 UJ	<3.33 UJ	<3.95 UJ	<2.50 UJ	<4.70 UJ	<3.55 UJ	<5.75 UJ
U4-MW-09D	3/13/2024	N	EM19	UMCf	96.9 - 106.9	40,700	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-09D	6/13/2024	N	EM20	UMCf	96.9 - 106.9	117,000 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-09D	9/19/2024	N	EM21	UMCf	96.9 - 106.9	48,800	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-09DD	4/14/2022	N	BL02	UMCf	119.8 - 129.8	493 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-09DD	12/6/2022	N	EM04	UMCf	119.8 - 129.8	398 J	<0.147 UJ	<0.149 UJ	<0.133 UJ	<0.158 UJ	<0.100 UJ	<0.188 UJ	<0.142 UJ	<0.230 UJ
U4-MW-09DD	3/21/2023	N	EM07	UMCf	119.8 - 129.8	310 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-09DD	6/15/2023	N	EM10	UMCf	119.8 - 129.8	699 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-09DD	9/13/2023	N	EM13	UMCf	119.8 - 129.8	9,120	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-09DD	12/13/2023	N	EM16	UMCf	119.8 - 129.8	2,950	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-09DD	3/14/2024	N	EM19	UMCf	119.8 - 129.8	48,200	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-09DD	6/13/2024	N	EM20	UMCf	119.8 - 129.8	14,100 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-09DD	9/20/2024	N	EM21	UMCf	119.8 - 129.8	9,180	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-09I	4/14/2022	N	BL02	UMCf	76.8 - 86.8	1,090 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-09I	12/6/2022	N	EM04	UMCf	76.8 - 86.8	1,040 J+	<1.47 UJ	<1.49 UJ	<1.33 UJ	<1.58 UJ	<1.00 UJ	<1.88 UJ	<1.42 UJ	<2.30 UJ
U4-MW-09I	3/16/2023	N	EM07	UMCf	76.8 - 86.8	43,900	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30
U4-MW-09I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	33,900	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-09I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	33,600	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-09I	12/15/2023	N	EM16	UMCf	76.8 - 86.8	63,000	<3.68 UJ	<3.73 UJ	<3.33 UJ	<3.95 UJ	<2.50 UJ	<4.70 UJ	<3.55 UJ	<5.75 UJ
U4-MW-09I	3/13/2024	N	EM19	UMCf	76.8 - 86.8	37,400	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-09I	6/13/2024	N	EM20	UMCf	76.8 - 86.8	46,300 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-09I	9/19/2024	N	EM21	UMCf	76.8 - 86.8	15,300	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-09S	4/14/2022	N	BL02	UMCf	55.3 - 65.3	892 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	SW9060A/SM5310B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Total Organic Carbon	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-09S	12/6/2022	N	EM04	UMCf	55.3 - 65.3	999 J	<0.147 UJ	<0.149 UJ	<0.133 UJ	<0.158 UJ	<0.100 UJ	<0.188 UJ	<0.142 UJ	<0.230 UJ
U4-MW-09S	3/17/2023	N	EM07	UMCf	55.3 - 65.3	2,440 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-09S	6/15/2023	N	EM10	UMCf	55.3 - 65.3	724,000 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-09S	9/13/2023	N	EM13	UMCf	55.3 - 65.3	895,000 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-09S	12/12/2023	N	EM16	UMCf	55.3 - 65.3	1,190 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-09S	3/13/2024	N	EM19	UMCf	55.3 - 65.3	599,000 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-09S	6/13/2024	N	EM20	UMCf	55.3 - 65.3	76,100 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-09S	9/19/2024	N	EM21	UMCf	55.3 - 65.3	24,600	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-10D	4/14/2022	N	BL02	UMCf	96.9 - 106.9	1,020 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-10D	12/5/2022	N	EM04	UMCf	96.9 - 106.9	868 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-10D	3/17/2023	N	EM07	UMCf	96.9 - 106.9	225,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-10D	6/14/2023	N	EM10	UMCf	96.9 - 106.9	234,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-10D	9/13/2023	N	EM13	UMCf	96.9 - 106.9	10,700	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-10D	12/14/2023	N	EM16	UMCf	96.9 - 106.9	9,960	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-10D	3/14/2024	N	EM19	UMCf	96.9 - 106.9	11,200	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-10D	6/11/2024	N	EM20	UMCf	96.9 - 106.9	9,940	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-10D	9/26/2024	N	EM21	UMCf	96.9 - 106.9	5,970	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-10I	4/14/2022	N	BL02	UMCf	77.1 - 87.1	1,200 J+	<0.147	<0.149	<0.133	<0.158	<0.100	0.373 J	<0.142	<0.230
U4-MW-10I	12/5/2022	N	EM04	UMCf	77.1 - 87.1	3,630 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-10I	3/17/2023	N	EM07	UMCf	77.1 - 87.1	11,400	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-10I	6/14/2023	N	EM10	UMCf	77.1 - 87.1	257,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-10I	9/13/2023	N	EM13	UMCf	77.1 - 87.1	43,800	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-10I	12/14/2023	N	EM16	UMCf	77.1 - 87.1	8,050	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-10I	3/13/2024	N	EM19	UMCf	77.1 - 87.1	4,300	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-10I	6/11/2024	N	EM20	UMCf	77.1 - 87.1	3,770	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-10I	9/25/2024	N	EM21	UMCf	77.1 - 87.1	2,250	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-11D	4/15/2022	N	BL02	UMCf	97.4 - 107.4	3,440 J+	<0.147	<0.149	<0.133	<0.158	<0.100	0.543 J	0.380 J	<0.230
U4-MW-11D	9/26/2022	N	EM01	UMCf	97.4 - 107.4	20,200 J+	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5
U4-MW-11D	10/11/2022	N	EM02	UMCf	97.4 - 107.4	1,360 J+	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30
U4-MW-11D	11/1/2022	N	EM03	UMCf	97.4 - 107.4	1,820 J+	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5
U4-MW-11D	12/6/2022	N	EM04	UMCf	97.4 - 107.4	33,300	<3.68 UJ	<3.73 UJ	<3.33 UJ	<3.95 UJ	<2.50 UJ	<4.70 UJ	<3.55 UJ	<5.75 UJ
U4-MW-11D	1/12/2023	N	EM05	UMCf	97.4 - 107.4	5,100	<29.4	<29.8	<26.6	<31.6	<20.0	<37.6	<28.4	<46.0
U4-MW-11D	2/14/2023	N	EM06	UMCf	97.4 - 107.4	6,540	<29.4	<29.8	<26.6	<31.6	<20.0	<37.6	<28.4	<46.0
U4-MW-11D	3/16/2023	N	EM07	UMCf	97.4 - 107.4	5,970 J-	<29.4	<29.8	<26.6	<31.6	<20.0	<37.6	<28.4	<46.0
U4-MW-11D	4/18/2023	N	EM08	UMCf	97.4 - 107.4	8,540	<0.735	<0.745	<0.665	<0.790	<0.500	<0.940	<0.710	<1.15
U4-MW-11D	5/17/2023	N	EM09	UMCf	97.4 - 107.4	3,860	<2.94 UJ	<2.98 UJ	<2.66 UJ	<3.16 UJ	<2.00 UJ	<3.76 UJ	<2.84 UJ	<4.60 UJ
U4-MW-11D	6/16/2023	N	EM10	UMCf	97.4 - 107.4	5,300	<0.147	<0.149	<0.133	<0.158	<0.100	0.456 J	<0.142	<0.230
U4-MW-11D	7/14/2023	N	EM11	UMCf	97.4 - 107.4	6,680	<0.147	<0.149	<0.133	<0.158	<0.100	0.370 J	0.445 J	<0.230
U4-MW-11D	8/14/2023	N	EM12	UMCf	97.4 - 107.4	30,700	<29.4	<29.8	<26.6	<31.6	<20.0	<37.6	<28.4	<46.0
U4-MW-11D	9/13/2023	N	EM13	UMCf	97.4 - 107.4	13,200	<0.147	<0.149	<0.133	<0.158	<0.100	0.407 J	0.234 J	<0.230
U4-MW-11D	10/18/2023	N	EM14	UMCf	97.4 - 107.4	181,000 J	<29.4	<29.8	<26.6	<31.6	<20.0	<37.6	<28.4	<46.0
U4-MW-11D	11/16/2023	N	EM15	UMCf	97.4 - 107.4	191,000 J+	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5
U4-MW-11D	12/13/2023	N	EM16	UMCf	97.4 - 107.4	173,000	<0.147	<0.149	<0.133	<0.158	<0.100	0.283 J	0.152 J	<0.230
U4-MW-11D	1/25/2024	N	EM17	UMCf	97.4 - 107.4	206,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	0.193 J	<0.230
U4-MW-11D	2/14/2024	N	EM18	UMCf	97.4 - 107.4	173,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-11D	3/12/2024	N	EM19	UMCf	97.4 - 107.4	145,000	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0
U4-MW-11D	6/12/2024	N	EM20	UMCf	97.4 - 107.4	10,300	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	SW9060A/SM5310B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Total Organic Carbon	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-11D	9/23/2024	N	EM21	UMCf	97.4 - 107.4	7,680	<0.147	<0.149	<0.133	<0.158	<0.100	0.366 J	0.292 J	<0.230
U4-MW-11I	4/14/2022	N	BL02	UMCf	77.0 - 87.0	1,040 J+	<0.147	<0.149	<0.133	<0.158	<0.100	0.385 J	<0.142	<0.230
U4-MW-11I	9/26/2022	N	EM01	UMCf	77.0 - 87.0	208,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-11I	9/26/2022	FD	EM01	UMCf	77.0 - 87.0	201,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-11I	10/10/2022	N	EM02	UMCf	77.0 - 87.0	61,800 J	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30
U4-MW-11I	10/10/2022	FD	EM02	UMCf	77.0 - 87.0	306,000 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-11I	10/31/2022	N	EM03	UMCf	77.0 - 87.0	364,000	<0.735	<0.745	<0.665	<0.790	<0.500	<0.940	<0.710	<1.15
U4-MW-11I	10/31/2022	FD	EM03	UMCf	77.0 - 87.0	370,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-11I	12/6/2022	N	EM04	UMCf	77.0 - 87.0	55,800 J	<0.147 UJ	<0.149 UJ	<0.133 UJ	<0.158 UJ	<0.100 UJ	<0.188 UJ	<0.142 UJ	<0.230 UJ
U4-MW-11I	12/6/2022	FD	EM04	UMCf	77.0 - 87.0	276,000 J	<0.147 UJ	<0.149 UJ	<0.133 UJ	<0.158 UJ	<0.100 UJ	<0.188 UJ	<0.142 UJ	<0.230 UJ
U4-MW-11I	1/12/2023	N	EM05	UMCf	77.0 - 87.0	189,000 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-11I	1/12/2023	FD	EM05	UMCf	77.0 - 87.0	195,000 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-11I	2/14/2023	N	EM06	UMCf	77.0 - 87.0	165,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-11I	2/14/2023	FD	EM06	UMCf	77.0 - 87.0	186,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-11I	3/16/2023	N	EM07	UMCf	77.0 - 87.0	188,000 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-11I	3/16/2023	FD	EM07	UMCf	77.0 - 87.0	197,000 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-11I	4/18/2023	N	EM08	UMCf	77.0 - 87.0	146,000 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-11I	4/18/2023	FD	EM08	UMCf	77.0 - 87.0	147,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-11I	5/19/2023	N	EM09	UMCf	77.0 - 87.0	89,600 J-	<0.147 UJ	<0.149 UJ	<0.133 UJ	<0.158 UJ	<0.100 UJ	<0.188 UJ	<0.142 UJ	<0.230 UJ
U4-MW-11I	5/19/2023	FD	EM09	UMCf	77.0 - 87.0	89,600 J-	<0.147 UJ	<0.149 UJ	<0.133 UJ	<0.158 UJ	<0.100 UJ	<0.188 UJ	<0.142 UJ	<0.230 UJ
U4-MW-11I	6/15/2023	N	EM10	UMCf	77.0 - 87.0	103,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-11I	6/15/2023	FD	EM10	UMCf	77.0 - 87.0	103,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-11I	7/13/2023	N	EM11	UMCf	77.0 - 87.0	79,100 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-11I	7/13/2023	FD	EM11	UMCf	77.0 - 87.0	82,900 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-11I	8/14/2023	N	EM12	UMCf	77.0 - 87.0	11,700	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-11I	8/14/2023	FD	EM12	UMCf	77.0 - 87.0	12,800	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	0.155 J	<0.230
U4-MW-11I	9/13/2023	N	EM13	UMCf	77.0 - 87.0	12,500	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-11I	9/13/2023	FD	EM13	UMCf	77.0 - 87.0	12,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-11I	10/19/2023	N	EM14	UMCf	77.0 - 87.0	10,500	<0.147	<0.149	<0.133	<0.158	<0.100	0.400 J	0.303 J	<0.230
U4-MW-11I	10/19/2023	FD	EM14	UMCf	77.0 - 87.0	10,700	<0.147	<0.149	<0.133	<0.158	<0.100	0.394 J	<0.142	<0.230
U4-MW-11I	11/16/2023	N	EM15	UMCf	77.0 - 87.0	13,400	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5
U4-MW-11I	11/16/2023	FD	EM15	UMCf	77.0 - 87.0	13,500	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5
U4-MW-11I	12/13/2023	N	EM16	UMCf	77.0 - 87.0	14,100	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-11I	12/13/2023	FD	EM16	UMCf	77.0 - 87.0	14,300	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-11I	1/25/2024	N	EM17	UMCf	77.0 - 87.0	13,700	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-11I	1/25/2024	FD	EM17	UMCf	77.0 - 87.0	13,900	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-11I	2/14/2024	N	EM18	UMCf	77.0 - 87.0	11,900	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5
U4-MW-11I	2/14/2024	FD	EM18	UMCf	77.0 - 87.0	15,400	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5
U4-MW-11I	3/13/2024	N	EM19	UMCf	77.0 - 87.0	13,700	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-11I	3/13/2024	FD	EM19	UMCf	77.0 - 87.0	13,500	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-11I	6/12/2024	N	EM20	UMCf	77.0 - 87.0	10,200	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-11I	6/12/2024	FD	EM20	UMCf	77.0 - 87.0	10,200	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	0.161 J	<0.230
U4-MW-11I	9/23/2024	N	EM21	UMCf	77.0 - 87.0	9,260	<0.147	<0.149	<0.133	<0.158	<0.100	0.257 J	0.198 J	<0.230
U4-MW-11I	9/23/2024	FD	EM21	UMCf	77.0 - 87.0	9,320	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	0.177 J	<0.230
U4-MW-12D	4/15/2022	N	BL02	UMCf	97.1 - 107.1	1,440 J+	<0.147	<0.149	<0.133	<0.158	<0.100	0.417 J	0.374 J	<0.230
U4-MW-12D	9/27/2022	N	EM01	UMCf	97.1 - 107.1	903 J	<2.94	<2.98	<2.66	<3.16	<2.00	<3.76	<2.84	<4.60
U4-MW-12D	10/12/2022	N	EM02	UMCf	97.1 - 107.1	1,020 J+	<0.147	<0.149	<0.133	<0.158	<0.100	0.326 J	0.350 J	<0.230

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	SW9060A/SM5310B Total Organic Carbon µg/L	Volatile Organic Compounds by SW8260B 1,1,1,2-Tetrachloroethane µg/L	Volatile Organic Compounds by SW8260B 1,1,1-Trichloroethane µg/L	Volatile Organic Compounds by SW8260B 1,1,2,2-Tetrachloroethane µg/L	Volatile Organic Compounds by SW8260B 1,1,2-Trichloroethane µg/L	Volatile Organic Compounds by SW8260B 1,1-Dichloroethane µg/L	Volatile Organic Compounds by SW8260B 1,1-Dichloroethene µg/L	Volatile Organic Compounds by SW8260B 1,1-Dichloropropene µg/L	Volatile Organic Compounds by SW8260B 1,2,3-Trichlorobenzene µg/L
U4-MW-12D	11/2/2022	N	EM03	UMCf	97.1 - 107.1	469 J	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30
U4-MW-12D	12/7/2022	N	EM04	UMCf	97.1 - 107.1	2,090 J+	<0.147	<0.149	<0.133	<0.158	<0.100	0.351 J	0.507 J	<0.230
U4-MW-12D	1/12/2023	N	EM05	UMCf	97.1 - 107.1	1,970 J+	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0
U4-MW-12D	2/15/2023	N	EM06	UMCf	97.1 - 107.1	2,920	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0
U4-MW-12D	3/14/2023	N	EM07	UMCf	97.1 - 107.1	34,300	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5
U4-MW-12D	4/17/2023	N	EM08	UMCf	97.1 - 107.1	14,800	<0.735 UJ	<0.745 UJ	<0.665 UJ	<0.790 UJ	<0.500 UJ	<0.940 UJ	<0.710 UJ	<1.15 UJ
U4-MW-12D	5/17/2023	N	EM09	UMCf	97.1 - 107.1	5,670 J+	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0
U4-MW-12D	6/16/2023	N	EM10	UMCf	97.1 - 107.1	2,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-12D	7/13/2023	N	EM11	UMCf	97.1 - 107.1	13,700	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-12D	8/14/2023	N	EM12	UMCf	97.1 - 107.1	3,810	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5
U4-MW-12D	9/12/2023	N	EM13	UMCf	97.1 - 107.1	7,900	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5
U4-MW-12D	10/17/2023	N	EM14	UMCf	97.1 - 107.1	98,800	<0.735	<0.745	<0.665	<0.790	<0.500	<0.940	<0.710	<1.15
U4-MW-12D	11/15/2023	N	EM15	UMCf	97.1 - 107.1	158,000	<0.735	<0.745	<0.665	<0.790	<0.500	<0.940	<0.710	<1.15
U4-MW-12D	12/12/2023	N	EM16	UMCf	97.1 - 107.1	328,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-12D	1/24/2024	N	EM17	UMCf	97.1 - 107.1	513,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-12D	2/13/2024	N	EM18	UMCf	97.1 - 107.1	551,000	<2.94	<2.98	<2.66	<3.16	<2.00	<3.76	<2.84	<4.60
U4-MW-12D	3/12/2024	N	EM19	UMCf	97.1 - 107.1	351,000	<2.94	<2.98	<2.66	<3.16	<2.00	<3.76	<2.84	<4.60
U4-MW-12D	6/12/2024	N	EM20	UMCf	97.1 - 107.1	47,700	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-12D	9/24/2024	N	EM21	UMCf	97.1 - 107.1	23,700	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-12I	4/14/2022	N	BL02	UMCf	76.8 - 86.8	1,630 J	<0.147	<0.149	<0.133	<0.158	<0.100	0.465 J	<0.142	<0.230
U4-MW-12I	4/14/2022	FD	BL02	UMCf	76.8 - 86.8	1,930 J	<0.147	<0.149	<0.133	<0.158	<0.100	0.461 J	<0.142	<0.230
U4-MW-12I	9/27/2022	N	EM01	UMCf	76.8 - 86.8	1,440 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-12I	10/12/2022	N	EM02	UMCf	76.8 - 86.8	4,410 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-12I	11/2/2022	N	EM03	UMCf	76.8 - 86.8	11,100	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-12I	12/7/2022	N	EM04	UMCf	76.8 - 86.8	95,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-12I	12/7/2022	FD	EM04	UMCf	76.8 - 86.8	84,500	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-12I	1/13/2023	N	EM05	UMCf	76.8 - 86.8	229,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-12I	2/15/2023	N	EM06	UMCf	76.8 - 86.8	356,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230 UJ
U4-MW-12I	3/13/2023	N	EM07	UMCf	76.8 - 86.8	407,000 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-12I	4/17/2023	N	EM08	UMCf	76.8 - 86.8	354,000	<0.147 UJ	<0.149 UJ	<0.133 UJ	<0.158 UJ	<0.100 UJ	<0.188 UJ	<0.142 UJ	<0.230 UJ
U4-MW-12I	5/17/2023	N	EM09	UMCf	76.8 - 86.8	374,000 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-12I	6/16/2023	N	EM10	UMCf	76.8 - 86.8	189,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-12I	7/11/2023	N	EM11	UMCf	76.8 - 86.8	126,000 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-12I	8/14/2023	N	EM12	UMCf	76.8 - 86.8	6,100	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-12I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	14,300	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-12I	10/17/2023	N	EM14	UMCf	76.8 - 86.8	123,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-12I	11/16/2023	N	EM15	UMCf	76.8 - 86.8	13,700	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-12I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	16,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-12I	1/24/2024	N	EM17	UMCf	76.8 - 86.8	36,500	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-12I	2/13/2024	N	EM18	UMCf	76.8 - 86.8	24,900	<2.94	<2.98	<2.66	<3.16	<2.00	<3.76	<2.84	<4.60
U4-MW-12I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	12,900	<2.94	<2.98	<2.66	<3.16	<2.00	<3.76	<2.84	<4.60
U4-MW-12I	6/13/2024	N	EM20	UMCf	76.8 - 86.8	7,990 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-12I	9/23/2024	N	EM21	UMCf	76.8 - 86.8	6,150	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-13D	4/14/2022	N	BL02	UMCf	98.2 - 108.2	1,640 J	<0.147	<0.149	<0.133	<0.158	<0.100	0.565 J	<0.142	<0.230
U4-MW-13D	9/28/2022	N	EM01	UMCf	98.2 - 108.2	58,400	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30
U4-MW-13D	10/11/2022	N	EM02	UMCf	98.2 - 108.2	55,200	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-13D	11/3/2022	N	EM03	UMCf	98.2 - 108.2	7,010	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	SW9060A/SM5 310B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Total Organic Carbon	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-13D	12/7/2022	N	EM04	UMCf	98.2 - 108.2	2,790 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-13D	1/12/2023	N	EM05	UMCf	98.2 - 108.2	2,110 J+	<2.94	<2.98	<2.66	<3.16	<2.00	<3.76	<2.84	<4.60
U4-MW-13D	2/15/2023	N	EM06	UMCf	98.2 - 108.2	2,000 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-13D	3/17/2023	N	EM07	UMCf	98.2 - 108.2	1,730 J+	<2.94	<2.98	<2.66	<3.16	<2.00	<3.76	<2.84	<4.60
U4-MW-13D	4/18/2023	N	EM08	UMCf	98.2 - 108.2	1,240	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-13D	5/17/2023	N	EM09	UMCf	98.2 - 108.2	1,670	<2.94	<2.98	<2.66	<3.16	<2.00	<3.76	<2.84	<4.60
U4-MW-13D	6/15/2023	N	EM10	UMCf	98.2 - 108.2	2,210 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-13D	7/12/2023	N	EM11	UMCf	98.2 - 108.2	3,020	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-13D	8/11/2023	N	EM12	UMCf	98.2 - 108.2	2,050 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-13D	9/11/2023	N	EM13	UMCf	98.2 - 108.2	1,750 J+	<3.68	<3.73	<3.33	<3.95	<2.50	<4.70	<3.55	<5.75
U4-MW-13D	10/18/2023	N	EM14	UMCf	98.2 - 108.2	2,510 J+	<3.68	<3.73	<3.33	<3.95	<2.50	<4.70	<3.55	<5.75
U4-MW-13D	11/15/2023	N	EM15	UMCf	98.2 - 108.2	2,810	<3.68	<3.73	<3.33	<3.95	<2.50	<4.70	<3.55	<5.75
U4-MW-13D	12/11/2023	N	EM16	UMCf	98.2 - 108.2	2,810 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-13D	1/23/2024	N	EM17	UMCf	98.2 - 108.2	2,580	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-13D	2/12/2024	N	EM18	UMCf	98.2 - 108.2	3,170 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-13D	3/11/2024	N	EM19	UMCf	98.2 - 108.2	2,410 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-13D	6/13/2024	N	EM20	UMCf	98.2 - 108.2	2,300 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-13D	9/20/2024	N	EM21	UMCf	98.2 - 108.2	1,650 J+	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5
U4-MW-13I	4/14/2022	N	BL02	UMCf	77.1 - 87.1	1,080 J+	<0.147	<0.149	<0.133	<0.158	<0.100	0.403 J	<0.142	<0.230
U4-MW-13I	9/28/2022	N	EM01	UMCf	77.1 - 87.1	2,450 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-13I	10/10/2022	N	EM02	UMCf	77.1 - 87.1	1,900 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-13I	11/3/2022	N	EM03	UMCf	77.1 - 87.1	2,000 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-13I	12/6/2022	N	EM04	UMCf	77.1 - 87.1	37,400	<0.735 UJ	<0.745 UJ	<0.665 UJ	<0.790 UJ	<0.500 UJ	<0.940 UJ	<0.710 UJ	<1.15 UJ
U4-MW-13I	1/12/2023	N	EM05	UMCf	77.1 - 87.1	67,800	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-13I	2/14/2023	N	EM06	UMCf	77.1 - 87.1	43,400	<0.735	<0.745	<0.665	<0.790	<0.500	<0.940	<0.710	<1.15
U4-MW-13I	3/16/2023	N	EM07	UMCf	77.1 - 87.1	43,900	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-13I	4/19/2023	N	EM08	UMCf	77.1 - 87.1	25,800 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-13I	5/17/2023	N	EM09	UMCf	77.1 - 87.1	19,800	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-13I	6/15/2023	N	EM10	UMCf	77.1 - 87.1	21,100	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-13I	7/12/2023	N	EM11	UMCf	77.1 - 87.1	21,300	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-13I	8/11/2023	N	EM12	UMCf	77.1 - 87.1	2,880 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-13I	9/11/2023	N	EM13	UMCf	77.1 - 87.1	2,560 J+	<3.68	<3.73	<3.33	<3.95	<2.50	<4.70	<3.55	<5.75
U4-MW-13I	10/17/2023	N	EM14	UMCf	77.1 - 87.1	2,780	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-13I	11/15/2023	N	EM15	UMCf	77.1 - 87.1	2,840	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-13I	12/11/2023	N	EM16	UMCf	77.1 - 87.1	3,260 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-13I	1/23/2024	N	EM17	UMCf	77.1 - 87.1	3,080	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-13I	2/12/2024	N	EM18	UMCf	77.1 - 87.1	3,230 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-13I	3/11/2024	N	EM19	UMCf	77.1 - 87.1	2,260 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-13I	6/13/2024	N	EM20	UMCf	77.1 - 87.1	3,220 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-13I	9/20/2024	N	EM21	UMCf	77.1 - 87.1	3,170 J+	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5
U4-MW-14D	4/13/2022	N	BL02	UMCf	97.3 - 107.3	1,220 J+	<0.147	<0.149	<0.133	<0.158	<0.100	0.409 J	<0.142	<0.230
U4-MW-14D	12/6/2022	N	EM04	UMCf	97.3 - 107.3	570 J	<0.735 UJ	<0.745 UJ	<0.665 UJ	<0.790 UJ	<0.500 UJ	<0.940 UJ	<0.710 UJ	<1.15 UJ
U4-MW-14D	3/16/2023	N	EM07	UMCf	97.3 - 107.3	1,010 J+	<0.735	<0.745	<0.665	<0.790	<0.500	<0.940	<0.710	<1.15
U4-MW-14D	6/15/2023	N	EM10	UMCf	97.3 - 107.3	1,710 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-14D	9/14/2023	N	EM13	UMCf	97.3 - 107.3	6,160	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-14D	12/15/2023	N	EM16	UMCf	97.3 - 107.3	5,390	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-14D	3/13/2024	N	EM19	UMCf	97.3 - 107.3	8,790	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230

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Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	SW9060A/SM5310B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Total Organic Carbon	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-14D	6/13/2024	N	EM20	UMCf	97.3 - 107.3	2,930 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-14D	9/19/2024	N	EM21	UMCf	97.3 - 107.3	3,470 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-14I	4/14/2022	N	BL02	UMCf	77.3 - 87.3	1,090 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-14I	12/6/2022	N	EM04	UMCf	77.3 - 87.3	786 J	<0.735 UJ	<0.745 UJ	<0.665 UJ	<0.790 UJ	<0.500 UJ	<0.940 UJ	<0.710 UJ	<1.15 UJ
U4-MW-14I	3/16/2023	N	EM07	UMCf	77.3 - 87.3	1,030 J+	<0.735	<0.745	<0.665	<0.790	<0.500	<0.940	<0.710	<1.15
U4-MW-14I	6/15/2023	N	EM10	UMCf	77.3 - 87.3	3,660	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-14I	9/14/2023	N	EM13	UMCf	77.3 - 87.3	4,970	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-14I	12/14/2023	N	EM16	UMCf	77.3 - 87.3	8,570	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-14I	3/13/2024	N	EM19	UMCf	77.3 - 87.3	6,420	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-14I	6/14/2024	N	EM20	UMCf	77.3 - 87.3	4,320	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-14I	9/19/2024	N	EM21	UMCf	77.3 - 87.3	3,140 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-15D	4/13/2022	N	BL02	UMCf	96.0 - 106.0	1,240 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-15D	12/5/2022	N	EM04	UMCf	96.0 - 106.0	922 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-15D	3/20/2023	N	EM07	UMCf	96.0 - 106.0	362 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-15D	6/14/2023	N	EM10	UMCf	96.0 - 106.0	818 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-15D	9/13/2023	N	EM13	UMCf	96.0 - 106.0	447 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-15D	12/12/2023	N	EM16	UMCf	96.0 - 106.0	1,180 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-15D	3/12/2024	N	EM19	UMCf	96.0 - 106.0	743 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-15D	6/14/2024	N	EM20	UMCf	96.0 - 106.0	306 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-15D	9/24/2024	N	EM21	UMCf	96.0 - 106.0	669 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-15DD	4/13/2022	N	BL02	UMCf	120.3 - 130.3	532 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-15DD	12/5/2022	N	EM04	UMCf	120.3 - 130.3	505 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-15DD	3/15/2023	N	EM07	UMCf	120.3 - 130.3	224 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-15DD	6/13/2023	N	EM10	UMCf	120.3 - 130.3	337 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-15DD	9/14/2023	N	EM13	UMCf	120.3 - 130.3	109 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-15DD	12/13/2023	N	EM16	UMCf	120.3 - 130.3	<102	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-15DD	3/12/2024	N	EM19	UMCf	120.3 - 130.3	111 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-15DD	6/14/2024	N	EM20	UMCf	120.3 - 130.3	<102	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-15DD	9/24/2024	N	EM21	UMCf	120.3 - 130.3	<102	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-15I	4/12/2022	N	BL02	UMCf	76.8 - 86.8	1,440 J	<0.147	<0.149	<0.133	<0.158	<0.100	0.367 J	<0.142	<0.230
U4-MW-15I	12/5/2022	N	EM04	UMCf	76.8 - 86.8	60,700	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-15I	3/17/2023	N	EM07	UMCf	76.8 - 86.8	565,000	<2.94	<2.98	<2.66	<3.16	<2.00	<3.76	<2.84	<4.60
U4-MW-15I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	306,000 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-15I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	11,900	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-15I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	38,500	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-15I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	6,880	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5
U4-MW-15I	6/17/2024	N	EM20	UMCf	76.8 - 86.8	11,200	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5
U4-MW-15I	9/25/2024	N	EM21	UMCf	76.8 - 86.8	874,000 J-	<7.35 UJ	<7.45 UJ	<6.65 UJ	<7.90 UJ	<5.00 UJ	<9.40 UJ	<7.10 UJ	<11.5 UJ
U4-MW-15S	4/13/2022	N	BL02	UMCf	54.8 - 64.8	848 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-15S	12/5/2022	N	EM04	UMCf	54.8 - 64.8	499,000	<3.68	<3.73	<3.33	<3.95	<2.50	<4.70	<3.55	<5.75
U4-MW-15S	3/13/2023	N	EM07	UMCf	54.8 - 64.8	116,000 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-15S	6/13/2023	N	EM10	UMCf	54.8 - 64.8	95,700 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-15S	9/14/2023	N	EM13	UMCf	54.8 - 64.8	41,400 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-15S	12/11/2023	N	EM16	UMCf	54.8 - 64.8	28,500 J-	<0.294	<0.298	<0.266	<0.316	<0.200	<0.376	<0.284	<0.460
U4-MW-15S	3/12/2024	N	EM19	UMCf	54.8 - 64.8	24,600 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-15S	3/26/2024	N	EM19	UMCf	54.8 - 64.8	25,100	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-15S	6/14/2024	N	EM20	UMCf	54.8 - 64.8	8,680	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	SW9060A/SM5310B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Total Organic Carbon	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-15S	9/20/2024	N	EM21	UMCf	54.8 - 64.8	6,730	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-16D	4/11/2022	N	BL02	UMCf	96.8 - 106.8	1,340 J	<0.147	<0.149	<0.133	<0.158	<0.100	0.237 J	<0.142	<0.230
U4-MW-16D	12/5/2022	N	EM04	UMCf	96.8 - 106.8	3,980 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-16D	3/14/2023	N	EM07	UMCf	96.8 - 106.8	25,100	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-16D	6/13/2023	N	EM10	UMCf	96.8 - 106.8	10,500 J+	<0.147	<0.149	<0.133	<0.158	<0.100	0.189 J	0.196 J	<0.230
U4-MW-16D	9/15/2023	N	EM13	UMCf	96.8 - 106.8	4,300	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-16D	12/14/2023	N	EM16	UMCf	96.8 - 106.8	463 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-16D	3/14/2024	N	EM19	UMCf	96.8 - 106.8	1,940	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5
U4-MW-16D	6/17/2024	N	EM20	UMCf	96.8 - 106.8	1,160 J+	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5
U4-MW-16D	9/20/2024	N	EM21	UMCf	96.8 - 106.8	1,230 J+	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5
U4-MW-16DD	4/12/2022	N	BL02	UMCf	120.8 - 130.8	827 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-16DD	12/5/2022	N	EM04	UMCf	120.8 - 130.8	852 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-16DD	3/15/2023	N	EM07	UMCf	120.8 - 130.8	1,350 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-16DD	6/13/2023	N	EM10	UMCf	120.8 - 130.8	825 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-16DD	9/14/2023	N	EM13	UMCf	120.8 - 130.8	151 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-16DD	12/13/2023	N	EM16	UMCf	120.8 - 130.8	128 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-16DD	3/14/2024	N	EM19	UMCf	120.8 - 130.8	<102	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-16DD	6/17/2024	N	EM20	UMCf	120.8 - 130.8	1,270 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-16DD	9/19/2024	N	EM21	UMCf	120.8 - 130.8	690 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-16I	4/11/2022	N	BL02	UMCf	77.0 - 87.0	950 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-16I	12/5/2022	N	EM04	UMCf	77.0 - 87.0	515,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-16I	12/5/2022	FD	EM04	UMCf	77.0 - 87.0	515,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-16I	3/13/2023	N	EM07	UMCf	77.0 - 87.0	747,000 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-16I	3/13/2023	FD	EM07	UMCf	77.0 - 87.0	731,000 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-16I	6/12/2023	N	EM10	UMCf	77.0 - 87.0	363,000 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230 UJ
U4-MW-16I	6/12/2023	FD	EM10	UMCf	77.0 - 87.0	372,000 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230 UJ
U4-MW-16I	9/11/2023	N	EM13	UMCf	77.0 - 87.0	6,750	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-16I	9/11/2023	FD	EM13	UMCf	77.0 - 87.0	6,830	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-16I	12/11/2023	N	EM16	UMCf	77.0 - 87.0	3,990 J+	<0.147	<0.149	<0.133	<0.158	<0.100	0.201 J	<0.142	<0.230
U4-MW-16I	12/11/2023	FD	EM16	UMCf	77.0 - 87.0	4,090 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-16I	3/11/2024	N	EM19	UMCf	77.0 - 87.0	2,880 J+	<0.147	<0.149	<0.133	<0.158	<0.100	0.447 J	<0.142	<0.230
U4-MW-16I	3/11/2024	FD	EM19	UMCf	77.0 - 87.0	2,970 J+	<0.147	<0.149	<0.133	<0.158	<0.100	0.405 J	<0.142	<0.230
U4-MW-16I	6/18/2024	N	EM20	UMCf	77.0 - 87.0	3,550	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-16I	6/18/2024	FD	EM20	UMCf	77.0 - 87.0	3,320	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-16I	9/19/2024	N	EM21	UMCf	77.0 - 87.0	30,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-16I	9/19/2024	FD	EM21	UMCf	77.0 - 87.0	3,490 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-16S	4/12/2022	N	BL02	UMCf	54.8 - 64.8	1,070 J+	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-16S	4/12/2022	FD	BL02	UMCf	54.8 - 64.8	931 J	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-16S	12/6/2022	N	EM04	UMCf	54.8 - 64.8	23,300	<0.147 UJ	<0.149 UJ	<0.133 UJ	<0.158 UJ	<0.100 UJ	<0.188 UJ	<0.142 UJ	<0.230 UJ
U4-MW-16S	3/15/2023	N	EM07	UMCf	54.8 - 64.8	726,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-16S	6/13/2023	N	EM10	UMCf	54.8 - 64.8	710,000 J-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-16S	9/11/2023	N	EM13	UMCf	54.8 - 64.8	41,600	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-16S	12/11/2023	N	EM16	UMCf	54.8 - 64.8	140,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-16S	3/11/2024	N	EM19	UMCf	54.8 - 64.8	240,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-16S	6/17/2024	N	EM20	UMCf	54.8 - 64.8	32,300	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-MW-16S	9/20/2024	N	EM21	UMCf	54.8 - 64.8	11,900	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-SLMW	11/10/2022	N	EM03	-	-	3,660 J+	<0.735	<0.745	<0.665	<0.790	<0.500	<0.940	<0.710	<1.15

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	SW9060A/SM5 310B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Total Organic Carbon	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-T3	10/13/2022	N	EM02	-	-	114,000	<0.147	<0.149	<0.133	<0.158	<0.100	0.284 J	0.271 J	<0.230
U4-T3	11/3/2022	N	EM03	-	-	61,500	<0.147	<0.149	<0.133	<0.158	<0.100	0.293 J	0.376 J	<0.230
U4-T3	12/6/2022	N	EM04	-	-	76,300	<2.94 UJ	<2.98 UJ	<2.66 UJ	<3.16 UJ	<2.00 UJ	<3.76 UJ	<2.84 UJ	<4.60 UJ
U4-T3	1/9/2023	N	EM05	-	-	17,100	<0.147	<0.149	<0.133	<0.158	<0.100	0.236 J	0.273 J	<0.230
U4-T3	2/13/2023	N	EM06	-	-	17,700	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0
U4-T3	3/13/2023	N	EM07	-	-	2,980 J+	<3.68	<3.73	<3.33	<3.95	<2.50	<4.70	<3.55	<5.75
U4-T3	4/19/2023	N	EM08	-	-	31,800	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	0.143 J	<0.230
U4-T3	5/18/2023	N	EM09	-	-	89,500	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-T3	6/12/2023	N	EM10	-	-	150,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230 UJ
U4-T3	7/11/2023	N	EM11	-	-	388,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-T3	8/10/2023	N	EM12	-	-	278,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-T3	9/11/2023	N	EM13	-	-	1,400,000	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230
U4-T3	10/16/2023	N	EM14	-	-	324,000	<3.68	<3.73	<3.33	<3.95	<2.50	<4.70	<3.55	<5.75

Notes:
FD - Field duplicate
E - Field instrument error.
J - The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J- - The result is an estimated quantity, but the result may be biased low.
J+ - The result is an estimated quantity, but the result may be biased high.
N/A - Not Applicable
mg/L - milligrams per liter
µg/L - micrograms per liter
N - Normal field sample

R - The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

UMCf- Upper Muddy Creek Formation
< - The analyte was analyzed for, but was not detected above the level of the reported
-- Not tested.
U4-E-08D has been abandoned.
M-252 damaged/obstructed when checked on June 14, 2023 and September 14, 2023.
U4-MW-08S and U4-MW-15S were purged and resampled for EM19 on March 25-26, 2024; Original EM19 samples were collected via bailer due to well condition.
Lab was unable to analyze and report TDS for samples L1782240-20 (U4-E-09I-EM21) and -21 (U4-E-09I-EM21-FD) due to the thickness of the sample matrix.

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene (Mesitylene)
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
M-247-100	4/20/2022	N	BL02	UMCf	100.5 - 110.5	----	----	----	----	----	----	----	----	----
M-249-100	4/20/2022	N	BL02	UMCf	99.6 - 109.6	----	----	----	----	----	----	----	----	----
M-251-100	4/19/2022	N	BL02	UMCf	92.5 - 102.5	0.428 J	<0.481	<0.322	<0.276	<0.126	<0.107	0.346 J	<0.149	<0.104
M-251-100	10/13/2022	N	EM02	UMCf	92.5 - 102.5	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
M-251-100	11/2/2022	N	EM03	UMCf	92.5 - 102.5	<2.37	<4.81	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04
M-251-100	12/8/2022	N	EM04	UMCf	92.5 - 102.5	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
M-251-100	1/11/2023	N	EM05	UMCf	92.5 - 102.5	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
M-251-100	2/13/2023	N	EM06	UMCf	92.5 - 102.5	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
M-251-100	3/17/2023	N	EM07	UMCf	92.5 - 102.5	<11.9	<24.1	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20
M-251-100	4/21/2023	N	EM08	UMCf	92.5 - 102.5	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	0.142 J	<0.149	<0.104
M-251-100	5/9/2023	N	EM09	UMCf	92.5 - 102.5	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	0.171 J	<0.149	<0.104
M-251-100	6/14/2023	N	EM10	UMCf	92.5 - 102.5	<11.9	<24.1	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20
M-251-100	7/14/2023	N	EM11	UMCf	92.5 - 102.5	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	0.126 J	<0.149	<0.104
M-251-100	8/10/2023	N	EM12	UMCf	92.5 - 102.5	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
M-251-100	9/14/2023	N	EM13	UMCf	92.5 - 102.5	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
M-251-100	10/19/2023	N	EM14	UMCf	92.5 - 102.5	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
M-251-100	11/16/2023	N	EM15	UMCf	92.5 - 102.5	<11.9	<24.1	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20
M-251-100	12/12/2023	N	EM16	UMCf	92.5 - 102.5	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
M-251-100	1/25/2024	N	EM17	UMCf	92.5 - 102.5	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
M-251-100	2/13/2024	N	EM18	UMCf	92.5 - 102.5	<11.9	<24.1	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20
M-251-100	3/11/2024	N	EM19	UMCf	92.5 - 102.5	<11.9	<24.1	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20
M-251-100	6/17/2024	N	EM20	UMCf	92.5 - 102.5	<11.9	<24.1	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20
M-251-100	9/23/2024	N	EM21	UMCf	92.5 - 102.5	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
M-251-60	4/18/2022	N	BL02	UMCf	52.3 - 62.3	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
M-251-60	3/15/2023	N	EM07	UMCf	52.3 - 62.3	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
M-251-60	6/14/2023	N	EM10	UMCf	52.3 - 62.3	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
M-251-60	9/14/2023	N	EM13	UMCf	52.3 - 62.3	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
M-251-60	12/11/2023	N	EM16	UMCf	52.3 - 62.3	<0.237	<0.481	<0.322	<0.276 UJ	<0.126	<0.107	<0.0819	<0.149	<0.104
M-251-60	3/12/2024	N	EM19	UMCf	52.3 - 62.3	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
M-251-60	6/19/2024	N	EM20	UMCf	52.3 - 62.3	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
M-251-60	9/20/2024	N	EM21	UMCf	52.3 - 62.3	<0.237	<0.481	<0.322	<0.276 UJ	<0.126	<0.107	<0.0819	<0.149	<0.104
M-252	4/21/2022	N	BL02	UMCf	132.3 - 142.3	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
M-252	3/15/2023	N	EM07	UMCf	132.3 - 142.3	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
M-252	9/19/2023	N	EM13	UMCf	132.3 - 142.3	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
M-252	12/18/2023	N	EM16	UMCf	132.3 - 142.3	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
M-252	3/12/2024	N	EM19	UMCf	132.3 - 142.3	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
M-252	6/19/2024	N	EM20	UMCf	132.3 - 142.3	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
M-252	9/24/2024	N	EM21	UMCf	132.3 - 142.3	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
M-253-100	4/20/2022	N	BL02	UMCf	100.8 - 110.8	----	----	----	----	----	----	----	----	----
M-255-100	4/20/2022	N	BL02	UMCf	100.2 - 110.2	----	----	----	----	----	----	----	----	----
U4-E-01D	4/18/2022	N	BL02	UMCf	94.7 - 109.7	<1.19	<2.41	<1.61	<1.38	<0.630	<0.535	<0.409	<0.745	<0.520
U4-E-01D	3/14/2023	N	EM07	UMCf	94.7 - 109.7	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-E-01D	6/20/2024	N	EM20	UMCf	94.7 - 109.7	<2.37	<4.81	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04
U4-E-01D	9/25/2024	N	EM21	UMCf	94.7 - 109.7	<2.37 UJ	<4.81 UJ	<3.22 UJ	<2.76 UJ	<1.26 UJ	<1.07 UJ	<0.819 UJ	<1.49 UJ	<1.04 UJ
U4-E-01I	4/19/2022	N	BL02	UMCf	74.6 - 89.6	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-E-01I	4/19/2022	FD	BL02	UMCf	74.6 - 89.6	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-E-01I	3/14/2023	N	EM07	UMCf	74.6 - 89.6	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	0.0909 J	<0.149	<0.104

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene (Mesitylene)
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-E-01I	4/20/2023	N	EM08	UMCf	74.6 - 89.6	<0.237	<0.481 UJ	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-E-01I	5/10/2023	N	EM09	UMCf	74.6 - 89.6	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-E-01I	6/12/2023	N	EM10	UMCf	74.6 - 89.6	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-E-01I	7/11/2023	N	EM11	UMCf	74.6 - 89.6	<1.19	<2.41	<1.61	<1.38	<0.630	<0.535	<0.409	<0.745	<0.520
U4-E-01I	8/10/2023	N	EM12	UMCf	74.6 - 89.6	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-E-01I	9/11/2023	N	EM13	UMCf	74.6 - 89.6	<1.19	<2.41	<1.61	<1.38	<0.630	<0.535	<0.409	<0.745	<0.520
U4-E-01I	10/16/2023	N	EM14	UMCf	74.6 - 89.6	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-E-01I	12/13/2023	N	EM16	UMCf	74.6 - 89.6	<2.37	<4.81	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04
U4-E-01I	1/24/2024	N	EM17	UMCf	74.6 - 89.6	<4.74	<9.62	<6.44	<5.52	<2.52	<2.14	<1.64	<2.98	<2.08
U4-E-01I	2/14/2024	N	EM18	UMCf	74.6 - 89.6	<2.37	<4.81	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04
U4-E-01I	3/12/2024	N	EM19	UMCf	74.6 - 89.6	<2.37	<4.81	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04
U4-E-01I	6/20/2024	N	EM20	UMCf	74.6 - 89.6	<2.37	<4.81	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04
U4-E-01I	9/25/2024	N	EM21	UMCf	74.6 - 89.6	<2.37 UJ	<4.81 UJ	<3.22 UJ	<2.76 UJ	<1.26 UJ	<1.07 UJ	<0.819 UJ	<1.49 UJ	<1.04 UJ
U4-E-02D	4/20/2022	N	BL02	UMCf	94.4 - 109.4	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-E-02D	3/14/2023	N	EM07	UMCf	94.4 - 109.4	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-E-02D	6/19/2024	N	EM20	UMCf	94.4 - 109.4	<2.37	<4.81	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04
U4-E-02D	9/27/2024	N	EM21	UMCf	94.4 - 109.4	<4.74 UJ	<9.62 UJ	<6.44 UJ	<5.52 UJ	<2.52 UJ	<2.14 UJ	<1.64 UJ	<2.98 UJ	<2.08 UJ
U4-E-02I	4/18/2022	N	BL02	UMCf	74.4 - 89.4	<0.237	<0.481	<0.322 UJ	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104 R
U4-E-02I	3/14/2023	N	EM07	UMCf	74.4 - 89.4	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-E-02I	4/20/2023	N	EM08	UMCf	74.4 - 89.4	<0.237	<0.481 UJ	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-E-02I	5/11/2023	N	EM09	UMCf	74.4 - 89.4	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-E-02I	6/12/2023	N	EM10	UMCf	74.4 - 89.4	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-E-02I	7/11/2023	N	EM11	UMCf	74.4 - 89.4	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-E-02I	8/10/2023	N	EM12	UMCf	74.4 - 89.4	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-E-02I	9/11/2023	N	EM13	UMCf	74.4 - 89.4	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-E-02I	10/16/2023	N	EM14	UMCf	74.4 - 89.4	<2.37	<4.81	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04
U4-E-02I	12/14/2023	N	EM16	UMCf	74.4 - 89.4	<2.37	<4.81	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04
U4-E-02I	1/22/2024	N	EM17	UMCf	74.4 - 89.4	<0.237	<0.481	<0.322	<0.276 UJ	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-E-02I	2/13/2024	N	EM18	UMCf	74.4 - 89.4	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-E-02I	3/13/2024	N	EM19	UMCf	74.4 - 89.4	<5.93	<12.0	<8.05	<6.90	<3.15	<2.68	<2.05	<3.73	<2.60
U4-E-02I	6/19/2024	N	EM20	UMCf	74.4 - 89.4	<23.7	<48.1	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4
U4-E-02I	9/24/2024	N	EM21	UMCf	74.4 - 89.4	<23.7 UJ	<48.1 UJ	<32.2 UJ	<27.6 UJ	<12.6 UJ	<10.7 UJ	<8.19 UJ	<14.9 UJ	<10.4 UJ
U4-E-03D	4/19/2022	N	BL02	UMCf	95.1 - 110.1	0.293 J	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-E-03D	10/13/2022	N	EM02	UMCf	95.1 - 110.1	<47.4	<96.2	<64.4	<55.2	<25.2	<21.4	<16.4	<29.8	<20.8
U4-E-03D	11/3/2022	N	EM03	UMCf	95.1 - 110.1	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-E-03D	12/6/2022	N	EM04	UMCf	95.1 - 110.1	<4.74 UJ	<9.62 UJ	<6.44 UJ	<5.52 UJ	<2.52 UJ	<2.14 UJ	<1.64 UJ	<2.98 UJ	<2.08 UJ
U4-E-03D	1/9/2023	N	EM05	UMCf	95.1 - 110.1	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-E-03D	2/13/2023	N	EM06	UMCf	95.1 - 110.1	<23.7	<48.1	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4
U4-E-03D	3/13/2023	N	EM07	UMCf	95.1 - 110.1	<23.7	<48.1	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4
U4-E-03D	3/14/2023	N	EM07	UMCf	95.1 - 110.1	<47.4	<96.2	<64.4	<55.2	<25.2	<21.4	<16.4	<29.8	<20.8
U4-E-03D	4/19/2023	N	EM08	UMCf	95.1 - 110.1	<1.19	<2.41	<1.61	<1.38	<0.630	<0.535	<0.409	<0.745	<0.520
U4-E-03D	5/11/2023	N	EM09	UMCf	95.1 - 110.1	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-E-03D	6/12/2023	N	EM10	UMCf	95.1 - 110.1	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-E-03D	7/11/2023	N	EM11	UMCf	95.1 - 110.1	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-E-03D	8/10/2023	N	EM12	UMCf	95.1 - 110.1	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-E-03D	9/11/2023	N	EM13	UMCf	95.1 - 110.1	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	0.131 J	0.183 J	<0.104
U4-E-03D	10/16/2023	N	EM14	UMCf	95.1 - 110.1	<47.4	<96.2	<64.4	<55.2	<25.2	<21.4	<16.4	<29.8	<20.8

Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene (Mesitylene)
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-E-03D	6/10/2024	N	EM20	UMCf	95.1 - 110.1	<4.74	<9.62	<6.44	<5.52	<2.52	<2.14	<1.64	<2.98	<2.08
U4-E-03D	6/10/2024	FD	EM20	UMCf	95.1 - 110.1	<4.74	<9.62	<6.44	<5.52	<2.52	<2.14	<1.64	<2.98	<2.08
U4-E-03D	9/27/2024	N	EM21	UMCf	95.1 - 110.1	<1.19 UJ	<2.41 UJ	<1.61 UJ	<1.38 UJ	<0.630 UJ	<0.535 UJ	<0.409 UJ	<0.745 UJ	<0.520 UJ
U4-E-03D	9/27/2024	FD	EM21	UMCf	95.1 - 110.1	<1.19 UJ	<2.41 UJ	<1.61 UJ	<1.38 UJ	<0.630 UJ	<0.535 UJ	<0.409 UJ	<0.745 UJ	<0.520 UJ
U4-E-04D	4/19/2022	N	BL02	UMCf	95.0 - 110.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-E-04D	3/14/2023	N	EM07	UMCf	95.0 - 110.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-E-04D	6/20/2024	N	EM20	UMCf	95.0 - 110.0	<2.37	<4.81	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04
U4-E-04D	9/26/2024	N	EM21	UMCf	95.0 - 110.0	<2.37	<4.81	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04
U4-E-04I	4/18/2022	N	BL02	UMCf	75.0 - 90.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-E-04I	3/14/2023	N	EM07	UMCf	75.0 - 90.0	<11.9	<24.1	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20
U4-E-04I	6/20/2024	N	EM20	UMCf	75.0 - 90.0	<2.37	<4.81	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04
U4-E-04I	9/26/2024	N	EM21	UMCf	75.0 - 90.0	<2.37	<4.81	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04
U4-E-05D	4/19/2022	N	BL02	UMCf	95.0 - 110.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-E-05D	3/16/2023	N	EM07	UMCf	95.0 - 110.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-E-05D	6/10/2024	N	EM20	UMCf	95.0 - 110.0	<4.74	<9.62	<6.44	<5.52	<2.52	<2.14	<1.64	<2.98	<2.08
U4-E-05D	9/27/2024	N	EM21	UMCf	95.0 - 110.0	<1.19 UJ	<2.41 UJ	<1.61 UJ	<1.38 UJ	<0.630 UJ	<0.535 UJ	<0.409 UJ	<0.745 UJ	<0.520 UJ
U4-E-05I	4/19/2022	N	BL02	UMCf	75.0 - 90.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-E-05I	3/15/2023	N	EM07	UMCf	75.0 - 90.0	<0.237 UJ	<0.481 UJ	<0.322 UJ	<0.276 UJ	<0.126 UJ	<0.107 UJ	<0.0819 UJ	<0.149 UJ	<0.104 UJ
U4-E-05I	6/19/2024	N	EM20	UMCf	75.0 - 90.0	<11.9	<24.1	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20
U4-E-05I	9/27/2024	N	EM21	UMCf	75.0 - 90.0	<2.37 UJ	<4.81 UJ	<3.22 UJ	<2.76 UJ	<1.26 UJ	<1.07 UJ	<0.819 UJ	<1.49 UJ	<1.04 UJ
U4-E-06D	4/11/2022	N	BL02	UMCf	95.1 - 110.1	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-E-06D	6/20/2024	N	EM20	UMCf	95.1 - 110.1	<2.37	<4.81	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04
U4-E-06D	9/27/2024	N	EM21	UMCf	95.1 - 110.1	<1.19 UJ	<2.41 UJ	<1.61 UJ	<1.38 UJ	<0.630 UJ	<0.535 UJ	<0.409 UJ	<0.745 UJ	<0.520 UJ
U4-E-06I	4/11/2022	N	BL02	UMCf	73.2 - 88.2	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-E-06I	4/11/2022	FD	BL02	UMCf	73.2 - 88.2	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-E-06I	10/12/2022	N	EM02	UMCf	73.2 - 88.2	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-E-06I	11/3/2022	N	EM03	UMCf	73.2 - 88.2	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-E-06I	12/6/2022	N	EM04	UMCf	73.2 - 88.2	<2.37 UJ	<4.81 UJ	<3.22 UJ	<2.76 UJ	<1.26 UJ	<1.07 UJ	<0.819 UJ	<1.49 UJ	<1.04 UJ
U4-E-06I	1/9/2023	N	EM05	UMCf	73.2 - 88.2	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-E-06I	2/13/2023	N	EM06	UMCf	73.2 - 88.2	<23.7	<48.1	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4
U4-E-06I	3/13/2023	N	EM07	UMCf	73.2 - 88.2	<4.74	<9.62	<6.44	<5.52	<2.52	<2.14	<1.64	<2.98	<2.08
U4-E-06I	4/17/2023	N	EM08	UMCf	73.2 - 88.2	<4.74	<9.62	<6.44	<5.52	<2.52	<2.14	<1.64	<2.98	<2.08
U4-E-06I	5/15/2023	N	EM09	UMCf	73.2 - 88.2	<5.93	<12.0	<8.05	<6.90	<3.15	<2.68	<2.05	<3.73	<2.60
U4-E-06I	6/12/2023	N	EM10	UMCf	73.2 - 88.2	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-E-06I	7/11/2023	N	EM11	UMCf	73.2 - 88.2	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-E-06I	8/11/2023	N	EM12	UMCf	73.2 - 88.2	<1.19	<2.41	<1.61	<1.38	<0.630	<0.535	<0.409	<0.745	<0.520
U4-E-06I	9/11/2023	N	EM13	UMCf	73.2 - 88.2	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-E-06I	10/16/2023	N	EM14	UMCf	73.2 - 88.2	<11.9	<24.1	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20
U4-E-06I	12/13/2023	N	EM16	UMCf	73.2 - 88.2	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-E-06I	1/22/2024	N	EM17	UMCf	73.2 - 88.2	<0.237	<0.481	<0.322	<0.276 UJ	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-E-06I	2/13/2024	N	EM18	UMCf	73.2 - 88.2	<11.9	<24.1	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20
U4-E-06I	3/11/2024	N	EM19	UMCf	73.2 - 88.2	<11.9	<24.1	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20
U4-E-06I	6/11/2024	N	EM20	UMCf	73.2 - 88.2	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-E-06I	9/27/2024	N	EM21	UMCf	73.2 - 88.2	<4.74 UJ	<9.62 UJ	<6.44 UJ	<5.52 UJ	<2.52 UJ	<2.14 UJ	<1.64 UJ	<2.98 UJ	<2.08 UJ
U4-E-07D	4/12/2022	N	BL02	UMCf	94.6 - 109.6	0.393 J	<0.481	<0.322	<0.276	<0.126	<0.107	0.205 J	<0.149	<0.104
U4-E-07D	6/20/2024	N	EM20	UMCf	94.6 - 109.6	<2.37	<4.81	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04
U4-E-07D	9/26/2024	N	EM21	UMCf	94.6 - 109.6	<2.37	<4.81	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene (Mesitylene)
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-E-07I	4/12/2022	N	BL02	UMCf	74.7 - 89.7	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	0.138 J	0.191 J	<0.104
U4-E-07I	10/11/2022	N	EM02	UMCf	74.7 - 89.7	<2.37	<4.81	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04
U4-E-07I	11/3/2022	N	EM03	UMCf	74.7 - 89.7	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-E-07I	12/6/2022	N	EM04	UMCf	74.7 - 89.7	<5.93 UJ	<12.0 UJ	<8.05 UJ	<6.90 UJ	<3.15 UJ	<2.68 UJ	<2.05 UJ	<3.73 UJ	<2.60 UJ
U4-E-07I	1/9/2023	N	EM05	UMCf	74.7 - 89.7	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	0.137 J	<0.149	<0.104
U4-E-07I	2/13/2023	N	EM06	UMCf	74.7 - 89.7	<23.7	<48.1	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4
U4-E-07I	3/13/2023	N	EM07	UMCf	74.7 - 89.7	<23.7	<48.1	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4
U4-E-07I	4/19/2023	N	EM08	UMCf	74.7 - 89.7	<1.19	<2.41	<1.61	<1.38	<0.630	<0.535	<0.409	<0.745	<0.520
U4-E-07I	5/15/2023	N	EM09	UMCf	74.7 - 89.7	<23.7	<48.1	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4
U4-E-07I	6/12/2023	N	EM10	UMCf	74.7 - 89.7	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-E-07I	7/11/2023	N	EM11	UMCf	74.7 - 89.7	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-E-07I	8/11/2023	N	EM12	UMCf	74.7 - 89.7	<1.19	<2.41	<1.61	<1.38	<0.630	<0.535	<0.409	<0.745	<0.520
U4-E-07I	9/11/2023	N	EM13	UMCf	74.7 - 89.7	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	0.105 J	<0.149	<0.104
U4-E-07I	10/16/2023	N	EM14	UMCf	74.7 - 89.7	<23.7	<48.1	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4
U4-E-07I	12/13/2023	N	EM16	UMCf	74.7 - 89.7	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	0.104 J	<0.149	<0.104
U4-E-07I	1/23/2024	N	EM17	UMCf	74.7 - 89.7	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-E-07I	2/13/2024	N	EM18	UMCf	74.7 - 89.7	<47.4	<96.2	<64.4	<55.2	<25.2	<21.4	<16.4	<29.8	<20.8
U4-E-07I	3/11/2024	N	EM19	UMCf	74.7 - 89.7	<47.4	<96.2	<64.4	<55.2	<25.2	<21.4	<16.4	<29.8	<20.8
U4-E-07I	6/11/2024	N	EM20	UMCf	74.7 - 89.7	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-E-07I	9/26/2024	N	EM21	UMCf	74.7 - 89.7	<23.7	<48.1	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4
U4-E-08D	4/12/2022	N	BL02	UMCf	94.6 - 109.6	0.429 J	<0.481	<0.322	<0.276	<0.126	<0.107	0.240 J	<0.149	<0.104
U4-E-08D	10/11/2022	N	EM02	UMCf	94.6 - 109.6	<2.37	<4.81	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04
U4-E-08D	11/3/2022	N	EM03	UMCf	94.6 - 109.6	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-E-08D	12/6/2022	N	EM04	UMCf	94.6 - 109.6	<5.93 UJ	<12.0 UJ	<8.05 UJ	<6.90 UJ	<3.15 UJ	<2.68 UJ	<2.05 UJ	<3.73 UJ	<2.60 UJ
U4-E-08D	1/9/2023	N	EM05	UMCf	94.6 - 109.6	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	0.131 J	<0.149	<0.104
U4-E-08D	2/13/2023	N	EM06	UMCf	94.6 - 109.6	<23.7	<48.1	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4
U4-E-08D	3/13/2023	N	EM07	UMCf	94.6 - 109.6	<23.7	<48.1	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4
U4-E-08D	4/19/2023	N	EM08	UMCf	94.6 - 109.6	<1.19	<2.41	<1.61	<1.38	<0.630	<0.535	<0.409	<0.745	<0.520
U4-E-08D	5/17/2023	N	EM09	UMCf	94.6 - 109.6	<23.7	<48.1	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4
U4-E-08D	6/12/2023	N	EM10	UMCf	94.6 - 109.6	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-E-08D	7/11/2023	N	EM11	UMCf	94.6 - 109.6	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-E-09D	4/15/2022	N	BL02	UMCf	94.5 - 109.5	<0.237	<0.481 UJ	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-E-09D	6/10/2024	N	EM20	UMCf	94.5 - 109.5	<4.74	<9.62	<6.44	<5.52	<2.52	<2.14	<1.64	<2.98	<2.08
U4-E-09D	9/27/2024	N	EM21	UMCf	94.5 - 109.5	<4.74 UJ	<9.62 UJ	<6.44 UJ	<5.52 UJ	<2.52 UJ	<2.14 UJ	<1.64 UJ	<2.98 UJ	<2.08 UJ
U4-E-09I	4/14/2022	N	BL02	UMCf	74.9 - 89.9	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	0.118 J	<0.149	<0.104
U4-E-09I	6/10/2024	N	EM20	UMCf	74.9 - 89.9	<4.74	<9.62	<6.44	<5.52	<2.52	<2.14	<1.64	<2.98	<2.08
U4-E-09I	6/10/2024	FD	EM20	UMCf	74.9 - 89.9	<4.74	<9.62	<6.44	<5.52	<2.52	<2.14	<1.64	<2.98	<2.08
U4-E-09I	9/26/2024	N	EM21	UMCf	74.9 - 89.9	<4.74	<9.62	<6.44	<5.52	<2.52	<2.14	<1.64	<2.98	<2.08
U4-E-09I	9/26/2024	FD	EM21	UMCf	74.9 - 89.9	<4.74	<9.62	<6.44	<5.52	<2.52	<2.14	<1.64	<2.98	<2.08
U4-E-10D	4/13/2022	N	BL02	UMCf	94.5 - 109.5	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	0.132 J	<0.149	<0.104
U4-E-10D	6/19/2024	N	EM20	UMCf	94.5 - 109.5	<2.37	<4.81	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04
U4-E-10D	9/25/2024	N	EM21	UMCf	94.5 - 109.5	<2.37	<4.81	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04
U4-E-10I	4/13/2022	N	BL02	UMCf	74.2 - 89.2	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	0.120 J	<0.149	<0.104
U4-E-10I	6/11/2024	N	EM20	UMCf	74.2 - 89.2	<23.7	<48.1	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4
U4-E-10I	9/26/2024	N	EM21	UMCf	74.2 - 89.2	<23.7	<48.1	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4
U4-MW-01D	4/19/2022	N	BL02	UMCf	96.7 - 106.7	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-01D	2/16/2023	N	EM06	UMCf	96.7 - 106.7	<2.37	<4.81	<3.22 UJ	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene (Mesitylene)
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-01D	3/20/2023	N	EM07	UMCf	96.7 - 106.7	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-01D	6/13/2023	N	EM10	UMCf	96.7 - 106.7	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-01D	9/14/2023	N	EM13	UMCf	96.7 - 106.7	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-01D	12/14/2023	N	EM16	UMCf	96.7 - 106.7	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-01D	3/13/2024	N	EM19	UMCf	96.7 - 106.7	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-01D	6/18/2024	N	EM20	UMCf	96.7 - 106.7	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-01D	9/19/2024	N	EM21	UMCf	96.7 - 106.7	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-01DD	4/19/2022	N	BL02	UMCf	119.9 - 129.9	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-01DD	4/19/2022	FD	BL02	UMCf	119.9 - 129.9	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-01DD	3/15/2023	N	EM07	UMCf	119.9 - 129.9	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-01DD	6/13/2023	N	EM10	UMCf	119.9 - 129.9	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-01DD	9/14/2023	N	EM13	UMCf	119.9 - 129.9	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-01DD	12/15/2023	N	EM16	UMCf	119.9 - 129.9	<1.19	<2.41	<1.61	<1.38	<0.630	<0.535	<0.409	<0.745	<0.520
U4-MW-01DD	3/12/2024	N	EM19	UMCf	119.9 - 129.9	<1.19	<2.41	<1.61	<1.38	<0.630	<0.535	<0.409	<0.745	<0.520
U4-MW-01DD	6/18/2024	N	EM20	UMCf	119.9 - 129.9	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-01DD	9/20/2024	N	EM21	UMCf	119.9 - 129.9	<0.237	<0.481	<0.322	<0.276 UJ	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-01I	4/19/2022	N	BL02	UMCf	76.7 - 86.7	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-01I	3/20/2023	N	EM07	UMCf	76.7 - 86.7	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-01I	6/12/2023	N	EM10	UMCf	76.7 - 86.7	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-01I	9/14/2023	N	EM13	UMCf	76.7 - 86.7	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-01I	12/15/2023	N	EM16	UMCf	76.7 - 86.7	<11.9	<24.1	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20
U4-MW-01I	3/13/2024	N	EM19	UMCf	76.7 - 86.7	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-01I	6/18/2024	N	EM20	UMCf	76.7 - 86.7	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-01I	9/19/2024	N	EM21	UMCf	76.7 - 86.7	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-01S	4/18/2022	N	BL02	UMCf	54.7 - 64.7	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-01S	3/15/2023	N	EM07	UMCf	54.7 - 64.7	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-01S	6/13/2023	N	EM10	UMCf	54.7 - 64.7	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-01S	9/15/2023	N	EM13	UMCf	54.7 - 64.7	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-01S	12/13/2023	N	EM16	UMCf	54.7 - 64.7	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-01S	3/13/2024	N	EM19	UMCf	54.7 - 64.7	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-01S	6/18/2024	N	EM20	UMCf	54.7 - 64.7	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-01S	9/20/2024	N	EM21	UMCf	54.7 - 64.7	<0.237	<0.481	<0.322	<0.276 UJ	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-02D	4/14/2022	N	BL02	UMCf	95.0 - 110.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	0.322 J	<0.149	<0.104
U4-MW-02D	10/11/2022	N	EM02	UMCf	95.0 - 110.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-02D	11/1/2022	N	EM03	UMCf	95.0 - 110.0	<11.9	<24.1	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20
U4-MW-02D	12/7/2022	N	EM04	UMCf	95.0 - 110.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	0.360 J	<0.149	<0.104
U4-MW-02D	1/10/2023	N	EM05	UMCf	95.0 - 110.0	<0.237	<0.481 UJ	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-02D	2/13/2023	N	EM06	UMCf	95.0 - 110.0	0.363 J	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-02D	3/17/2023	N	EM07	UMCf	95.0 - 110.0	<23.7	<48.1	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4
U4-MW-02D	4/19/2023	N	EM08	UMCf	95.0 - 110.0	<1.19	<2.41	<1.61	<1.38	<0.630	<0.535	<0.409	<0.745	<0.520
U4-MW-02D	5/9/2023	N	EM09	UMCf	95.0 - 110.0	<1.19	<2.41	<1.61	<1.38	<0.630	<0.535	0.515 J	<0.745	<0.520
U4-MW-02D	6/13/2023	N	EM10	UMCf	95.0 - 110.0	0.266 J	<0.481	<0.322	<0.276	<0.126	<0.107	0.199 J	<0.149	<0.104
U4-MW-02D	7/18/2023	N	EM11	UMCf	95.0 - 110.0	<0.237	<0.481	0.391 J	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-02D	8/14/2023	N	EM12	UMCf	95.0 - 110.0	<59.3	<120	<80.5	<69.0	<31.5	<26.8	<20.5	<37.3	<26.0
U4-MW-02D	9/11/2023	N	EM13	UMCf	95.0 - 110.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	0.155 J	<0.104
U4-MW-02D	10/19/2023	N	EM14	UMCf	95.0 - 110.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	0.348 J	<0.149	<0.104
U4-MW-02D	11/15/2023	N	EM15	UMCf	95.0 - 110.0	<23.7	<48.1	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B 1,2,3-Trichloropropane µg/L	Volatile Organic Compounds by SW8260B 1,2,4-Trichlorobenzene µg/L	Volatile Organic Compounds by SW8260B 1,2,4-Trimethylbenzene µg/L	Volatile Organic Compounds by SW8260B 1,2-Dibromo-3-Chloropropane µg/L	Volatile Organic Compounds by SW8260B 1,2-Dibromoethane µg/L	Volatile Organic Compounds by SW8260B 1,2-Dichlorobenzene µg/L	Volatile Organic Compounds by SW8260B 1,2-Dichloroethane µg/L	Volatile Organic Compounds by SW8260B 1,2-Dichloropropane µg/L	Volatile Organic Compounds by SW8260B 1,3,5-Trimethylbenzene (Mesitylene) µg/L
U4-MW-02D	12/14/2023	N	EM16	UMCf	95.0 - 110.0	<23.7	<48.1	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4
U4-MW-02D	1/25/2024	N	EM17	UMCf	95.0 - 110.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	0.268 J	<0.149	<0.104
U4-MW-02D	2/12/2024	N	EM18	UMCf	95.0 - 110.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-02D	3/13/2024	N	EM19	UMCf	95.0 - 110.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	0.211 J	<0.149	<0.104
U4-MW-02D	6/17/2024	N	EM20	UMCf	95.0 - 110.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-02D	9/23/2024	N	EM21	UMCf	95.0 - 110.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-02I	4/14/2022	N	BL02	UMCf	75.0 - 90.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	0.102 J	<0.149	<0.104
U4-MW-02I	10/11/2022	N	EM02	UMCf	75.0 - 90.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-02I	11/2/2022	N	EM03	UMCf	75.0 - 90.0	<2.37	<4.81	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04
U4-MW-02I	11/2/2022	FD	EM03	UMCf	75.0 - 90.0	<2.37	<4.81	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04
U4-MW-02I	12/8/2022	N	EM04	UMCf	75.0 - 90.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-02I	12/8/2022	FD	EM04	UMCf	75.0 - 90.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-02I	1/13/2023	N	EM05	UMCf	75.0 - 90.0	<2.37	<4.81	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04
U4-MW-02I	1/13/2023	FD	EM05	UMCf	75.0 - 90.0	<2.37	<4.81	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04
U4-MW-02I	2/15/2023	N	EM06	UMCf	75.0 - 90.0	<2.37	<4.81	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04
U4-MW-02I	2/15/2023	FD	EM06	UMCf	75.0 - 90.0	<2.37	<4.81	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04
U4-MW-02I	3/17/2023	N	EM07	UMCf	75.0 - 90.0	<47.4	<96.2	<64.4	<55.2	<25.2	<21.4	<16.4	<29.8	<20.8
U4-MW-02I	3/17/2023	FD	EM07	UMCf	75.0 - 90.0	<47.4	<96.2	<64.4	<55.2	<25.2	<21.4	<16.4	<29.8	<20.8
U4-MW-02I	4/20/2023	N	EM08	UMCf	75.0 - 90.0	<0.237	<0.481 UJ	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-02I	4/20/2023	FD	EM08	UMCf	75.0 - 90.0	<0.237	<0.481 UJ	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-02I	5/9/2023	N	EM09	UMCf	75.0 - 90.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-02I	5/9/2023	FD	EM09	UMCf	75.0 - 90.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-02I	6/12/2023	N	EM10	UMCf	75.0 - 90.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-02I	6/12/2023	FD	EM10	UMCf	75.0 - 90.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-02I	7/18/2023	N	EM11	UMCf	75.0 - 90.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-02I	7/18/2023	FD	EM11	UMCf	75.0 - 90.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-02I	8/11/2023	N	EM12	UMCf	75.0 - 90.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-02I	8/11/2023	FD	EM12	UMCf	75.0 - 90.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-02I	9/11/2023	N	EM13	UMCf	75.0 - 90.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-02I	9/11/2023	FD	EM13	UMCf	75.0 - 90.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-02I	10/19/2023	N	EM14	UMCf	75.0 - 90.0	<0.237 UJ	<0.481 UJ	<0.322 UJ	<0.276 UJ	<0.126 UJ	<0.107 UJ	<0.0819 UJ	<0.149 UJ	<0.104 UJ
U4-MW-02I	10/19/2023	FD	EM14	UMCf	75.0 - 90.0	0.287 J	<0.481	<0.322	<0.276	<0.126	<0.107	0.203 J	<0.149	<0.104
U4-MW-02I	11/15/2023	N	EM15	UMCf	75.0 - 90.0	<11.9	<24.1	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20
U4-MW-02I	11/15/2023	FD	EM15	UMCf	75.0 - 90.0	<11.9	<24.1	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20
U4-MW-02I	12/14/2023	N	EM16	UMCf	75.0 - 90.0	<11.9	<24.1	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20
U4-MW-02I	12/14/2023	FD	EM16	UMCf	75.0 - 90.0	<11.9	<24.1	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20
U4-MW-02I	1/25/2024	N	EM17	UMCf	75.0 - 90.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	0.201 J	<0.149	<0.104
U4-MW-02I	1/25/2024	FD	EM17	UMCf	75.0 - 90.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-02I	2/12/2024	N	EM18	UMCf	75.0 - 90.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-02I	2/12/2024	FD	EM18	UMCf	75.0 - 90.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-02I	3/13/2024	N	EM19	UMCf	75.0 - 90.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-02I	3/13/2024	FD	EM19	UMCf	75.0 - 90.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	0.152 J	<0.149	<0.104
U4-MW-02I	6/17/2024	N	EM20	UMCf	75.0 - 90.0	<11.9	<24.1	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20
U4-MW-02I	6/17/2024	FD	EM20	UMCf	75.0 - 90.0	<11.9	<24.1	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20
U4-MW-02I	9/23/2024	N	EM21	UMCf	75.0 - 90.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-02I	9/23/2024	FD	EM21	UMCf	75.0 - 90.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-03D	4/20/2022	N	BL02	UMCf	96.6 - 106.6	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene (Mesitylene)
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-03D	2/16/2023	N	EM06	UMCf	96.6 - 106.6	<1.19	<2.41	<1.61 UJ	<1.38	<0.630	<0.535	<0.409	<0.745	<0.520
U4-MW-03D	3/16/2023	N	EM07	UMCf	96.6 - 106.6	<4.74	<9.62	<6.44	<5.52	<2.52	<2.14	<1.64	<2.98	<2.08
U4-MW-03D	3/16/2023	FD	EM07	UMCf	96.6 - 106.6	<1.19	<2.41	<1.61	<1.38	<0.630	<0.535	<0.409	<0.745	<0.520 UJ
U4-MW-03D	6/15/2023	N	EM10	UMCf	96.6 - 106.6	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-03D	9/14/2023	N	EM13	UMCf	96.6 - 106.6	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-03D	12/13/2023	N	EM16	UMCf	96.6 - 106.6	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-03D	3/15/2024	N	EM19	UMCf	96.6 - 106.6	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-03D	6/17/2024	N	EM20	UMCf	96.6 - 106.6	<11.9	<24.1	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20
U4-MW-03D	9/18/2024	N	EM21	UMCf	96.6 - 106.6	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-03DD	4/20/2022	N	BL02	UMCf	119.7 - 129.7	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-03DD	3/15/2023	N	EM07	UMCf	119.7 - 129.7	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-03DD	6/15/2023	N	EM10	UMCf	119.7 - 129.7	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-03DD	9/14/2023	N	EM13	UMCf	119.7 - 129.7	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-03DD	12/14/2023	N	EM16	UMCf	119.7 - 129.7	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-03DD	3/14/2024	N	EM19	UMCf	119.7 - 129.7	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149 UJ	<0.104
U4-MW-03DD	6/17/2024	N	EM20	UMCf	119.7 - 129.7	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-03DD	9/18/2024	N	EM21	UMCf	119.7 - 129.7	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-03I	4/19/2022	N	BL02	UMCf	76.6 - 86.6	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-03I	3/15/2023	N	EM07	UMCf	76.6 - 86.6	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-03I	6/14/2023	N	EM10	UMCf	76.6 - 86.6	<4.74	<9.62	<6.44	<5.52	<2.52	<2.14	<1.64	<2.98	<2.08
U4-MW-03I	6/14/2023	FD	EM10	UMCf	76.6 - 86.6	<5.93	<12.0	<8.05	<6.90	<3.15	<2.68	<2.05	<3.73	<2.60
U4-MW-03I	9/11/2023	N	EM13	UMCf	76.6 - 86.6	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-03I	9/11/2023	FD	EM13	UMCf	76.6 - 86.6	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-03I	12/13/2023	N	EM16	UMCf	76.6 - 86.6	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-03I	12/13/2023	FD	EM16	UMCf	76.6 - 86.6	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-03I	3/14/2024	N	EM19	UMCf	76.6 - 86.6	<11.9	<24.1	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45 UJ	<5.20
U4-MW-03I	3/14/2024	FD	EM19	UMCf	76.6 - 86.6	<11.9	<24.1	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45 UJ	<5.20
U4-MW-03I	6/19/2024	N	EM20	UMCf	76.6 - 86.6	<11.9	<24.1	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20
U4-MW-03I	6/19/2024	FD	EM20	UMCf	76.6 - 86.6	<11.9	<24.1	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20
U4-MW-03I	9/20/2024	N	EM21	UMCf	76.6 - 86.6	<1.19	<2.41	<1.61	<1.38	<0.630	<0.535	<0.409	<0.745	<0.520
U4-MW-03I	9/20/2024	FD	EM21	UMCf	76.6 - 86.6	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-03S	4/18/2022	N	BL02	UMCf	54.5 - 64.5	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-03S	4/18/2022	FD	BL02	UMCf	54.5 - 64.5	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-03S	3/15/2023	N	EM07	UMCf	54.5 - 64.5	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-03S	6/15/2023	N	EM10	UMCf	54.5 - 64.5	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-03S	9/14/2023	N	EM13	UMCf	54.5 - 64.5	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-03S	12/13/2023	N	EM16	UMCf	54.5 - 64.5	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-03S	3/14/2024	N	EM19	UMCf	54.5 - 64.5	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149 UJ	<0.104
U4-MW-03S	6/14/2024	N	EM20	UMCf	54.5 - 64.5	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-03S	9/18/2024	N	EM21	UMCf	54.5 - 64.5	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-04D	4/19/2022	N	BL02	UMCf	97.0 - 107.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	0.900 J	<0.149	<0.104
U4-MW-04D	2/16/2023	N	EM06	UMCf	97.0 - 107.0	<11.9	<24.1	<16.1 UJ	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20
U4-MW-04D	3/21/2023	N	EM07	UMCf	97.0 - 107.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-04D	6/14/2023	N	EM10	UMCf	97.0 - 107.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-04D	9/15/2023	N	EM13	UMCf	97.0 - 107.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-04D	12/12/2023	N	EM16	UMCf	97.0 - 107.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-04D	3/12/2024	N	EM19	UMCf	97.0 - 107.0	<11.9	<24.1	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene (Mesitylene)
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-04D	6/19/2024	N	EM20	UMCf	97.0 - 107.0	<11.9	<24.1	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20
U4-MW-04D	9/24/2024	N	EM21	UMCf	97.0 - 107.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-04I	4/19/2022	N	BL02	UMCf	76.8 - 86.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-04I	3/20/2023	N	EM07	UMCf	76.8 - 86.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-04I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<1.19	<2.41	<1.61	<1.38	<0.630	<0.535	<0.409	<0.745	<0.520
U4-MW-04I	9/14/2023	N	EM13	UMCf	76.8 - 86.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-04I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-04I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	<47.4	<96.2	<64.4	<55.2	<25.2	<21.4	<16.4	<29.8	<20.8
U4-MW-04I	6/18/2024	N	EM20	UMCf	76.8 - 86.8	<1.19	<2.41	<1.61	<1.38	<0.630	<0.535	<0.409	<0.745	<0.520
U4-MW-04I	9/24/2024	N	EM21	UMCf	76.8 - 86.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-05D	4/15/2022	N	BL02	UMCf	98.2 - 108.2	<0.237	<0.481 UJ	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-05D	10/13/2022	N	EM02	UMCf	98.2 - 108.2	<23.7	<48.1	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4
U4-MW-05D	11/3/2022	N	EM03	UMCf	98.2 - 108.2	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-05D	12/7/2022	N	EM04	UMCf	98.2 - 108.2	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	0.186 J	<0.149	<0.104
U4-MW-05D	1/11/2023	N	EM05	UMCf	98.2 - 108.2	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-05D	2/14/2023	N	EM06	UMCf	98.2 - 108.2	<23.7	<48.1	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4
U4-MW-05D	3/16/2023	N	EM07	UMCf	98.2 - 108.2	<23.7	<48.1	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4
U4-MW-05D	4/20/2023	N	EM08	UMCf	98.2 - 108.2	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-05D	5/10/2023	N	EM09	UMCf	98.2 - 108.2	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-05D	6/15/2023	N	EM10	UMCf	98.2 - 108.2	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-05D	7/18/2023	N	EM11	UMCf	98.2 - 108.2	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-05D	8/14/2023	N	EM12	UMCf	98.2 - 108.2	<5.93	<12.0	<8.05	<6.90	<3.15	<2.68	<2.05	<3.73	<2.60
U4-MW-05D	9/12/2023	N	EM13	UMCf	98.2 - 108.2	<5.93	<12.0	<8.05	<6.90	<3.15	<2.68	<2.05	<3.73	<2.60
U4-MW-05D	10/18/2023	N	EM14	UMCf	98.2 - 108.2	<5.93	<12.0	<8.05	<6.90	<3.15	<2.68	<2.05	<3.73	<2.60
U4-MW-05D	11/16/2023	N	EM15	UMCf	98.2 - 108.2	<5.93	<12.0	<8.05	<6.90	<3.15	<2.68	<2.05	<3.73	<2.60
U4-MW-05D	12/14/2023	N	EM16	UMCf	98.2 - 108.2	<5.93	<12.0	<8.05	<6.90	<3.15	<2.68	<2.05	<3.73	<2.60
U4-MW-05D	1/26/2024	N	EM17	UMCf	98.2 - 108.2	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-05D	2/14/2024	N	EM18	UMCf	98.2 - 108.2	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-05D	3/12/2024	N	EM19	UMCf	98.2 - 108.2	<5.93	<12.0	<8.05	<6.90	<3.15	<2.68	<2.05	<3.73	<2.60
U4-MW-05D	6/18/2024	N	EM20	UMCf	98.2 - 108.2	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-05D	9/25/2024	N	EM21	UMCf	98.2 - 108.2	<11.9 UJ	<24.1 UJ	<16.1 UJ	<13.8 UJ	<6.30 UJ	<5.35 UJ	<4.09 UJ	<7.45 UJ	<5.20 UJ
U4-MW-05I	4/15/2022	N	BL02	UMCf	76.6 - 86.6	<0.237	<0.481 UJ	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-05I	10/13/2022	N	EM02	UMCf	76.6 - 86.6	<23.7	<48.1	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4
U4-MW-05I	11/3/2022	N	EM03	UMCf	76.6 - 86.6	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-05I	12/8/2022	N	EM04	UMCf	76.6 - 86.6	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	0.531 J	<0.149	<0.104
U4-MW-05I	1/11/2023	N	EM05	UMCf	76.6 - 86.6	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-05I	2/14/2023	N	EM06	UMCf	76.6 - 86.6	<23.7	<48.1	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4
U4-MW-05I	3/14/2023	N	EM07	UMCf	76.6 - 86.6	<23.7	<48.1	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4
U4-MW-05I	4/21/2023	N	EM08	UMCf	76.6 - 86.6	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-05I	5/10/2023	N	EM09	UMCf	76.6 - 86.6	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-05I	6/15/2023	N	EM10	UMCf	76.6 - 86.6	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-05I	7/17/2023	N	EM11	UMCf	76.6 - 86.6	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-05I	8/14/2023	N	EM12	UMCf	76.6 - 86.6	<11.9	<24.1	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20
U4-MW-05I	9/13/2023	N	EM13	UMCf	76.6 - 86.6	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-05I	10/18/2023	N	EM14	UMCf	76.6 - 86.6	<11.9	<24.1	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20
U4-MW-05I	11/15/2023	N	EM15	UMCf	76.6 - 86.6	<11.9	<24.1	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20
U4-MW-05I	12/12/2023	N	EM16	UMCf	76.6 - 86.6	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene (Mesitylene)
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-05I	1/26/2024	N	EM17	UMCf	76.6 - 86.6	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-05I	2/14/2024	N	EM18	UMCf	76.6 - 86.6	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-05I	3/11/2024	N	EM19	UMCf	76.6 - 86.6	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	0.0850 J	<0.149	<0.104
U4-MW-05I	6/18/2024	N	EM20	UMCf	76.6 - 86.6	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-05I	9/25/2024	N	EM21	UMCf	76.6 - 86.6	<23.7	<48.1	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4
U4-MW-06D	4/19/2022	N	BL02	UMCf	97.1 - 107.1	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	0.785 J	<0.149	<0.104
U4-MW-06D	2/15/2023	N	EM06	UMCf	97.1 - 107.1	<11.9	<24.1	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20
U4-MW-06D	3/21/2023	N	EM07	UMCf	97.1 - 107.1	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-06D	6/16/2023	N	EM10	UMCf	97.1 - 107.1	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-06D	9/13/2023	N	EM13	UMCf	97.1 - 107.1	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-06D	12/13/2023	N	EM16	UMCf	97.1 - 107.1	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-06D	3/14/2024	N	EM19	UMCf	97.1 - 107.1	<11.9	<24.1	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45 UJ	<5.20
U4-MW-06D	6/12/2024	N	EM20	UMCf	97.1 - 107.1	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-06D	9/20/2024	N	EM21	UMCf	97.1 - 107.1	<2.37	<4.81	<3.22	<2.76 UJ	<1.26	<1.07	<0.819	<1.49	<1.04
U4-MW-06I	4/19/2022	N	BL02	UMCf	76.5 - 86.5	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-06I	3/14/2023	N	EM07	UMCf	76.5 - 86.5	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	0.117 J	<0.149	<0.104
U4-MW-06I	6/16/2023	N	EM10	UMCf	76.5 - 86.5	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-06I	9/12/2023	N	EM13	UMCf	76.5 - 86.5	<11.9	<24.1	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20
U4-MW-06I	12/12/2023	N	EM16	UMCf	76.5 - 86.5	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-06I	3/14/2024	N	EM19	UMCf	76.5 - 86.5	<23.7	<48.1	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9 UJ	<10.4
U4-MW-06I	6/11/2024	N	EM20	UMCf	76.5 - 86.5	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-06I	9/20/2024	N	EM21	UMCf	76.5 - 86.5	<5.93	<12.0	<8.05	<6.90 UJ	<3.15	<2.68	<2.05	<3.73	<2.60
U4-MW-07D	4/15/2022	N	BL02	UMCf	96.8 - 106.5	<0.237	<0.481 UJ	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-07D	10/12/2022	N	EM02	UMCf	96.8 - 106.5	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-07D	10/12/2022	FD	EM02	UMCf	96.8 - 106.5	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-07D	11/3/2022	N	EM03	UMCf	96.8 - 106.5	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-07D	12/7/2022	N	EM04	UMCf	96.8 - 106.5	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-07D	1/11/2023	N	EM05	UMCf	96.8 - 106.5	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-07D	2/14/2023	N	EM06	UMCf	96.8 - 106.5	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-07D	3/16/2023	N	EM07	UMCf	96.8 - 106.5	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-07D	4/21/2023	N	EM08	UMCf	96.8 - 106.5	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-07D	5/11/2023	N	EM09	UMCf	96.8 - 106.5	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-07D	6/13/2023	N	EM10	UMCf	96.8 - 106.5	<0.237 UJ	<0.481 UJ	<0.322 UJ	<0.276 UJ	<0.126 UJ	<0.107 UJ	<0.0819 UJ	<0.149 UJ	<0.104 UJ
U4-MW-07D	7/17/2023	N	EM11	UMCf	96.8 - 106.5	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-07D	8/11/2023	N	EM12	UMCf	96.8 - 106.5	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-07D	9/13/2023	N	EM13	UMCf	96.8 - 106.5	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-07D	10/18/2023	N	EM14	UMCf	96.8 - 106.5	<23.7	<48.1	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4
U4-MW-07D	11/16/2023	N	EM15	UMCf	96.8 - 106.5	<23.7	<48.1	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4
U4-MW-07D	12/12/2023	N	EM16	UMCf	96.8 - 106.5	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-07D	1/26/2024	N	EM17	UMCf	96.8 - 106.5	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-07D	2/13/2024	N	EM18	UMCf	96.8 - 106.5	<5.93	<12.0	<8.05	<6.90	<3.15	<2.68	<2.05	<3.73	<2.60
U4-MW-07D	3/11/2024	N	EM19	UMCf	96.8 - 106.5	<5.93	<12.0	<8.05	<6.90	<3.15	<2.68	<2.05	<3.73	<2.60
U4-MW-07D	6/12/2024	N	EM20	UMCf	96.8 - 106.5	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-07D	9/18/2024	N	EM21	UMCf	96.8 - 106.5	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-07I	4/15/2022	N	BL02	UMCf	76.8 - 86.8	<0.237	<0.481 UJ	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-07I	10/12/2022	N	EM02	UMCf	76.8 - 86.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-07I	11/3/2022	N	EM03	UMCf	76.8 - 86.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene (Mesitylene)
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-07I	12/7/2022	N	EM04	UMCf	76.8 - 86.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-07I	1/11/2023	N	EM05	UMCf	76.8 - 86.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-07I	2/15/2023	N	EM06	UMCf	76.8 - 86.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-07I	3/16/2023	N	EM07	UMCf	76.8 - 86.8	<1.19	<2.41	<1.61	<1.38	<0.630	<0.535	<0.409	<0.745	<0.520
U4-MW-07I	4/21/2023	N	EM08	UMCf	76.8 - 86.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-07I	5/11/2023	N	EM09	UMCf	76.8 - 86.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-07I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<1.19	<2.41	<1.61	<1.38	<0.630	<0.535	<0.409	<0.745	<0.520
U4-MW-07I	7/17/2023	N	EM11	UMCf	76.8 - 86.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-07I	8/11/2023	N	EM12	UMCf	76.8 - 86.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-07I	9/13/2023	N	EM13	UMCf	76.8 - 86.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-07I	10/18/2023	N	EM14	UMCf	76.8 - 86.8	<11.9	<24.1	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20
U4-MW-07I	11/16/2023	N	EM15	UMCf	76.8 - 86.8	<11.9	<24.1	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20
U4-MW-07I	12/11/2023	N	EM16	UMCf	76.8 - 86.8	<0.237	<0.481	<0.322	<0.276 UJ	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-07I	1/26/2024	N	EM17	UMCf	76.8 - 86.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-07I	2/13/2024	N	EM18	UMCf	76.8 - 86.8	<11.9	<24.1	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20
U4-MW-07I	3/11/2024	N	EM19	UMCf	76.8 - 86.8	<11.9	<24.1	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20
U4-MW-07I	6/12/2024	N	EM20	UMCf	76.8 - 86.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-07I	9/18/2024	N	EM21	UMCf	76.8 - 86.8	0.251 J	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-08D	4/13/2022	N	BL02	UMCf	98.6 - 108.6	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-08D	12/7/2022	N	EM04	UMCf	98.6 - 108.6	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-08D	3/17/2023	N	EM07	UMCf	98.6 - 108.6	<23.7	<48.1	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4
U4-MW-08D	6/13/2023	N	EM10	UMCf	98.6 - 108.6	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-08D	9/13/2023	N	EM13	UMCf	98.6 - 108.6	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-08D	12/11/2023	N	EM16	UMCf	98.6 - 108.6	<0.237	<0.481	<0.322	<0.276 UJ	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-08D	3/12/2024	N	EM19	UMCf	98.6 - 108.6	<47.4	<96.2	<64.4	<55.2	<25.2	<21.4	<16.4	<29.8	<20.8
U4-MW-08D	6/14/2024	N	EM20	UMCf	98.6 - 108.6	<47.4	<96.2	<64.4	<55.2	<25.2	<21.4	<16.4	<29.8	<20.8
U4-MW-08D	9/23/2024	N	EM21	UMCf	98.6 - 108.6	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-08DD	4/20/2022	N	BL02	UMCf	119.8 - 129.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-08DD	4/20/2022	FD	BL02	UMCf	119.8 - 129.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-08DD	12/8/2022	N	EM04	UMCf	119.8 - 129.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-08DD	3/15/2023	N	EM07	UMCf	119.8 - 129.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-08DD	6/14/2023	N	EM10	UMCf	119.8 - 129.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-08DD	9/14/2023	N	EM13	UMCf	119.8 - 129.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-08DD	12/14/2023	N	EM16	UMCf	119.8 - 129.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-08DD	3/14/2024	N	EM19	UMCf	119.8 - 129.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149 UJ	<0.104
U4-MW-08DD	6/12/2024	N	EM20	UMCf	119.8 - 129.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-08DD	9/20/2024	N	EM21	UMCf	119.8 - 129.8	<0.237	<0.481	<0.322	<0.276 UJ	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-08I	4/13/2022	N	BL02	UMCf	78.0 - 88.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	0.345 J	<0.149	<0.104
U4-MW-08I	12/7/2022	N	EM04	UMCf	78.0 - 88.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-08I	12/7/2022	FD	EM04	UMCf	78.0 - 88.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-08I	3/17/2023	N	EM07	UMCf	78.0 - 88.0	<11.9	<24.1	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20
U4-MW-08I	6/13/2023	N	EM10	UMCf	78.0 - 88.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-08I	9/13/2023	N	EM13	UMCf	78.0 - 88.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-08I	12/11/2023	N	EM16	UMCf	78.0 - 88.0	<0.237	<0.481	<0.322	<0.276 UJ	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-08I	3/12/2024	N	EM19	UMCf	78.0 - 88.0	<23.7	<48.1	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4
U4-MW-08I	6/14/2024	N	EM20	UMCf	78.0 - 88.0	<23.7	<48.1	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4
U4-MW-08I	9/23/2024	N	EM21	UMCf	78.0 - 88.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104

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Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene (Mesitylene)
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-08S	4/15/2022	N	BL02	UMCf	54.9 - 64.9	<0.237	<0.481 UJ	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-08S	12/7/2022	N	EM04	UMCf	54.9 - 64.9	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-08S	12/7/2022	FD	EM04	UMCf	54.9 - 64.9	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-08S	3/13/2023	N	EM07	UMCf	54.9 - 64.9	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-08S	3/13/2023	FD	EM07	UMCf	54.9 - 64.9	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-08S	6/13/2023	N	EM10	UMCf	54.9 - 64.9	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-08S	6/13/2023	FD	EM10	UMCf	54.9 - 64.9	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-08S	9/13/2023	N	EM13	UMCf	54.9 - 64.9	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-08S	9/13/2023	FD	EM13	UMCf	54.9 - 64.9	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-08S	12/14/2023	N	EM16	UMCf	54.9 - 64.9	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-08S	12/14/2023	FD	EM16	UMCf	54.9 - 64.9	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-08S	3/14/2024	N	EM19	UMCf	54.9 - 64.9	<0.474 UJ	<0.962 UJ	<0.644 UJ	<0.552 UJ	<0.252 UJ	<0.214 UJ	<0.164 UJ	<0.298 UJ	<0.208 UJ
U4-MW-08S	3/14/2024	FD	EM19	UMCf	54.9 - 64.9	<0.474 UJ	<0.962 UJ	<0.644 UJ	<0.552 UJ	<0.252 UJ	<0.214 UJ	<0.164 UJ	<0.298 UJ	<0.208 UJ
U4-MW-08S	3/25/2024	N	EM19	UMCf	54.9 - 64.9	<0.237	<0.481	<0.322 UJ	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104 UJ
U4-MW-08S	3/25/2024	FD	EM19	UMCf	54.9 - 64.9	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-08S	6/14/2024	N	EM20	UMCf	54.9 - 64.9	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-08S	6/14/2024	FD	EM20	UMCf	54.9 - 64.9	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-08S	9/20/2024	N	EM21	UMCf	54.9 - 64.9	<0.237	<0.481	<0.322	<0.276 UJ	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-08S	9/20/2024	FD	EM21	UMCf	54.9 - 64.9	<0.237	<0.481	<0.322	<0.276 UJ	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-09D	4/14/2022	N	BL02	UMCf	96.9 - 106.9	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	0.239 J	<0.149	<0.104
U4-MW-09D	12/6/2022	N	EM04	UMCf	96.9 - 106.9	<2.37 UJ	<4.81 UJ	<3.22 UJ	<2.76 UJ	<1.26 UJ	<1.07 UJ	<0.819 UJ	<1.49 UJ	<1.04 UJ
U4-MW-09D	3/16/2023	N	EM07	UMCf	96.9 - 106.9	<2.37	<4.81	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04
U4-MW-09D	6/14/2023	N	EM10	UMCf	96.9 - 106.9	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-09D	9/12/2023	N	EM13	UMCf	96.9 - 106.9	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-09D	12/15/2023	N	EM16	UMCf	96.9 - 106.9	<5.93 UJ	<12.0 UJ	38.8 J-	<6.90 UJ	<3.15 UJ	<2.68 UJ	<2.05 UJ	<3.73 UJ	11.6 J
U4-MW-09D	3/13/2024	N	EM19	UMCf	96.9 - 106.9	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-09D	6/13/2024	N	EM20	UMCf	96.9 - 106.9	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-09D	9/19/2024	N	EM21	UMCf	96.9 - 106.9	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-09DD	4/14/2022	N	BL02	UMCf	119.8 - 129.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-09DD	12/6/2022	N	EM04	UMCf	119.8 - 129.8	<0.237 UJ	<0.481 UJ	<0.322 UJ	<0.276 UJ	<0.126 UJ	<0.107 UJ	<0.0819 UJ	<0.149 UJ	<0.104 UJ
U4-MW-09DD	3/21/2023	N	EM07	UMCf	119.8 - 129.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-09DD	6/15/2023	N	EM10	UMCf	119.8 - 129.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-09DD	9/13/2023	N	EM13	UMCf	119.8 - 129.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-09DD	12/13/2023	N	EM16	UMCf	119.8 - 129.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-09DD	3/14/2024	N	EM19	UMCf	119.8 - 129.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149 UJ	<0.104
U4-MW-09DD	6/13/2024	N	EM20	UMCf	119.8 - 129.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-09DD	9/20/2024	N	EM21	UMCf	119.8 - 129.8	<0.237	<0.481	<0.322	<0.276 UJ	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-09I	4/14/2022	N	BL02	UMCf	76.8 - 86.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-09I	12/6/2022	N	EM04	UMCf	76.8 - 86.8	<2.37 UJ	<4.81 UJ	<3.22 UJ	<2.76 UJ	<1.26 UJ	<1.07 UJ	<0.819 UJ	<1.49 UJ	<1.04 UJ
U4-MW-09I	3/16/2023	N	EM07	UMCf	76.8 - 86.8	<2.37	<4.81	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04
U4-MW-09I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-09I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-09I	12/15/2023	N	EM16	UMCf	76.8 - 86.8	<5.93 UJ	<12.0 UJ	<8.05 UJ	<6.90 UJ	<3.15 UJ	<2.68 UJ	<2.05 UJ	<3.73 UJ	<2.60 UJ
U4-MW-09I	3/13/2024	N	EM19	UMCf	76.8 - 86.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-09I	6/13/2024	N	EM20	UMCf	76.8 - 86.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-09I	9/19/2024	N	EM21	UMCf	76.8 - 86.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-09S	4/14/2022	N	BL02	UMCf	55.3 - 65.3	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene (Mesitylene)
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-09S	12/6/2022	N	EM04	UMCf	55.3 - 65.3	<0.237 UJ	<0.481 UJ	<0.322 UJ	<0.276 UJ	<0.126 UJ	<0.107 UJ	<0.0819 UJ	<0.149 UJ	<0.104 UJ
U4-MW-09S	3/17/2023	N	EM07	UMCf	55.3 - 65.3	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-09S	6/15/2023	N	EM10	UMCf	55.3 - 65.3	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-09S	9/13/2023	N	EM13	UMCf	55.3 - 65.3	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-09S	12/12/2023	N	EM16	UMCf	55.3 - 65.3	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-09S	3/13/2024	N	EM19	UMCf	55.3 - 65.3	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-09S	6/13/2024	N	EM20	UMCf	55.3 - 65.3	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-09S	9/19/2024	N	EM21	UMCf	55.3 - 65.3	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-10D	4/14/2022	N	BL02	UMCf	96.9 - 106.9	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-10D	12/5/2022	N	EM04	UMCf	96.9 - 106.9	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-10D	3/17/2023	N	EM07	UMCf	96.9 - 106.9	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-10D	6/14/2023	N	EM10	UMCf	96.9 - 106.9	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-10D	9/13/2023	N	EM13	UMCf	96.9 - 106.9	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-10D	12/14/2023	N	EM16	UMCf	96.9 - 106.9	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-10D	3/14/2024	N	EM19	UMCf	96.9 - 106.9	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149 UJ	<0.104
U4-MW-10D	6/11/2024	N	EM20	UMCf	96.9 - 106.9	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-10D	9/26/2024	N	EM21	UMCf	96.9 - 106.9	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-10I	4/14/2022	N	BL02	UMCf	77.1 - 87.1	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	0.115 J	<0.149	<0.104
U4-MW-10I	12/5/2022	N	EM04	UMCf	77.1 - 87.1	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-10I	3/17/2023	N	EM07	UMCf	77.1 - 87.1	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-10I	6/14/2023	N	EM10	UMCf	77.1 - 87.1	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-10I	9/13/2023	N	EM13	UMCf	77.1 - 87.1	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-10I	12/14/2023	N	EM16	UMCf	77.1 - 87.1	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-10I	3/13/2024	N	EM19	UMCf	77.1 - 87.1	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-10I	6/11/2024	N	EM20	UMCf	77.1 - 87.1	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-10I	9/25/2024	N	EM21	UMCf	77.1 - 87.1	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-11D	4/15/2022	N	BL02	UMCf	97.4 - 107.4	0.334 J	<0.481 UJ	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-11D	9/26/2022	N	EM01	UMCf	97.4 - 107.4	<11.9	<24.1	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20
U4-MW-11D	10/11/2022	N	EM02	UMCf	97.4 - 107.4	<2.37	<4.81	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04
U4-MW-11D	11/1/2022	N	EM03	UMCf	97.4 - 107.4	<11.9	<24.1	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20
U4-MW-11D	12/6/2022	N	EM04	UMCf	97.4 - 107.4	<5.93 UJ	<12.0 UJ	<8.05 UJ	<6.90 UJ	<3.15 UJ	<2.68 UJ	<2.05 UJ	<3.73 UJ	<2.60 UJ
U4-MW-11D	1/12/2023	N	EM05	UMCf	97.4 - 107.4	<47.4	<96.2	<64.4	<55.2	<25.2	<21.4	<16.4	<29.8	<20.8
U4-MW-11D	2/14/2023	N	EM06	UMCf	97.4 - 107.4	<47.4	<96.2	<64.4	<55.2	<25.2	<21.4	<16.4	<29.8	<20.8
U4-MW-11D	3/16/2023	N	EM07	UMCf	97.4 - 107.4	<47.4	<96.2	<64.4	<55.2	<25.2	<21.4	<16.4	<29.8	<20.8
U4-MW-11D	4/18/2023	N	EM08	UMCf	97.4 - 107.4	<1.19	<2.41	<1.61	<1.38	<0.630	<0.535	<0.409	<0.745	<0.520
U4-MW-11D	5/17/2023	N	EM09	UMCf	97.4 - 107.4	<4.74 UJ	<9.62 UJ	<6.44 UJ	<5.52 UJ	<2.52 UJ	<2.14 UJ	<1.64 UJ	<2.98 UJ	<2.08 UJ
U4-MW-11D	6/16/2023	N	EM10	UMCf	97.4 - 107.4	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	0.0940 J	<0.149	<0.104
U4-MW-11D	7/14/2023	N	EM11	UMCf	97.4 - 107.4	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	0.106 J	<0.149	<0.104
U4-MW-11D	8/14/2023	N	EM12	UMCf	97.4 - 107.4	<47.4	<96.2	<64.4	<55.2	<25.2	<21.4	<16.4	<29.8	<20.8
U4-MW-11D	9/13/2023	N	EM13	UMCf	97.4 - 107.4	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-11D	10/18/2023	N	EM14	UMCf	97.4 - 107.4	<47.4	<96.2	<64.4	<55.2	<25.2	<21.4	<16.4	<29.8	<20.8
U4-MW-11D	11/16/2023	N	EM15	UMCf	97.4 - 107.4	<11.9	<24.1	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20
U4-MW-11D	12/13/2023	N	EM16	UMCf	97.4 - 107.4	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-11D	1/25/2024	N	EM17	UMCf	97.4 - 107.4	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-11D	2/14/2024	N	EM18	UMCf	97.4 - 107.4	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107 UJ	<0.0819	<0.149	<0.104
U4-MW-11D	3/12/2024	N	EM19	UMCf	97.4 - 107.4	<23.7	<48.1	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4
U4-MW-11D	6/12/2024	N	EM20	UMCf	97.4 - 107.4	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B 1,2,3-Trichloropropane µg/L	Volatile Organic Compounds by SW8260B 1,2,4-Trichlorobenzene µg/L	Volatile Organic Compounds by SW8260B 1,2,4-Trimethylbenzene µg/L	Volatile Organic Compounds by SW8260B 1,2-Dibromo-3-Chloropropane µg/L	Volatile Organic Compounds by SW8260B 1,2-Dibromoethane µg/L	Volatile Organic Compounds by SW8260B 1,2-Dichlorobenzene µg/L	Volatile Organic Compounds by SW8260B 1,2-Dichloroethane µg/L	Volatile Organic Compounds by SW8260B 1,2-Dichloropropane µg/L	Volatile Organic Compounds by SW8260B 1,3,5-Trimethylbenzene (Mesitylene) µg/L
U4-MW-11D	9/23/2024	N	EM21	UMCf	97.4 - 107.4	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-11I	4/14/2022	N	BL02	UMCf	77.0 - 87.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104 UJ
U4-MW-11I	9/26/2022	N	EM01	UMCf	77.0 - 87.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-11I	9/26/2022	FD	EM01	UMCf	77.0 - 87.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-11I	10/10/2022	N	EM02	UMCf	77.0 - 87.0	<2.37	<4.81	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04
U4-MW-11I	10/10/2022	FD	EM02	UMCf	77.0 - 87.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-11I	10/31/2022	N	EM03	UMCf	77.0 - 87.0	<1.19	<2.41 UJ	<1.61	<1.38	<0.630	<0.535	<0.409	<0.745	<0.520
U4-MW-11I	10/31/2022	FD	EM03	UMCf	77.0 - 87.0	<0.237	<0.481 UJ	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-11I	12/6/2022	N	EM04	UMCf	77.0 - 87.0	<0.237 UJ	<0.481 UJ	<0.322 UJ	<0.276 UJ	<0.126 UJ	<0.107 UJ	<0.0819 UJ	<0.149 UJ	<0.104 UJ
U4-MW-11I	12/6/2022	FD	EM04	UMCf	77.0 - 87.0	<0.237 UJ	<0.481 UJ	<0.322 UJ	<0.276 UJ	<0.126 UJ	<0.107 UJ	<0.0819 UJ	<0.149 UJ	<0.104 UJ
U4-MW-11I	1/12/2023	N	EM05	UMCf	77.0 - 87.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-11I	1/12/2023	FD	EM05	UMCf	77.0 - 87.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-11I	2/14/2023	N	EM06	UMCf	77.0 - 87.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-11I	2/14/2023	FD	EM06	UMCf	77.0 - 87.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-11I	3/16/2023	N	EM07	UMCf	77.0 - 87.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-11I	3/16/2023	FD	EM07	UMCf	77.0 - 87.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-11I	4/18/2023	N	EM08	UMCf	77.0 - 87.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-11I	4/18/2023	FD	EM08	UMCf	77.0 - 87.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-11I	5/19/2023	N	EM09	UMCf	77.0 - 87.0	<0.237 UJ	<0.481 UJ	<0.322 UJ	<0.276 UJ	<0.126 UJ	<0.107 UJ	<0.0819 UJ	<0.149 UJ	<0.104 UJ
U4-MW-11I	5/19/2023	FD	EM09	UMCf	77.0 - 87.0	<0.237 UJ	<0.481 UJ	<0.322 UJ	<0.276 UJ	<0.126 UJ	<0.107 UJ	<0.0819 UJ	<0.149 UJ	<0.104 UJ
U4-MW-11I	6/15/2023	N	EM10	UMCf	77.0 - 87.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-11I	6/15/2023	FD	EM10	UMCf	77.0 - 87.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-11I	7/13/2023	N	EM11	UMCf	77.0 - 87.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-11I	7/13/2023	FD	EM11	UMCf	77.0 - 87.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-11I	8/14/2023	N	EM12	UMCf	77.0 - 87.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-11I	8/14/2023	FD	EM12	UMCf	77.0 - 87.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-11I	9/13/2023	N	EM13	UMCf	77.0 - 87.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-11I	9/13/2023	FD	EM13	UMCf	77.0 - 87.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-11I	10/19/2023	N	EM14	UMCf	77.0 - 87.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-11I	10/19/2023	FD	EM14	UMCf	77.0 - 87.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-11I	11/16/2023	N	EM15	UMCf	77.0 - 87.0	<11.9	<24.1	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20
U4-MW-11I	11/16/2023	FD	EM15	UMCf	77.0 - 87.0	<11.9	<24.1	<16.1	<13.8	<6.30	<5.35	31.5 J	<7.45	<5.20
U4-MW-11I	12/13/2023	N	EM16	UMCf	77.0 - 87.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-11I	12/13/2023	FD	EM16	UMCf	77.0 - 87.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-11I	1/25/2024	N	EM17	UMCf	77.0 - 87.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-11I	1/25/2024	FD	EM17	UMCf	77.0 - 87.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-11I	2/14/2024	N	EM18	UMCf	77.0 - 87.0	<11.9	<24.1	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20
U4-MW-11I	2/14/2024	FD	EM18	UMCf	77.0 - 87.0	<11.9	<24.1	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20
U4-MW-11I	3/13/2024	N	EM19	UMCf	77.0 - 87.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-11I	3/13/2024	FD	EM19	UMCf	77.0 - 87.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-11I	6/12/2024	N	EM20	UMCf	77.0 - 87.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-11I	6/12/2024	FD	EM20	UMCf	77.0 - 87.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-11I	9/23/2024	N	EM21	UMCf	77.0 - 87.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-11I	9/23/2024	FD	EM21	UMCf	77.0 - 87.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-12D	4/15/2022	N	BL02	UMCf	97.1 - 107.1	<0.237	<0.481 UJ	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-12D	9/27/2022	N	EM01	UMCf	97.1 - 107.1	<4.74	<9.62	<6.44	<5.52	<2.52	<2.14	<1.64	<2.98	<2.08
U4-MW-12D	10/12/2022	N	EM02	UMCf	97.1 - 107.1	0.325 J	<0.481	<0.322	<0.276	<0.126	<0.107	0.157 J	<0.149	<0.104

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B 1,2,3-Trichloropropane µg/L	Volatile Organic Compounds by SW8260B 1,2,4-Trichlorobenzene µg/L	Volatile Organic Compounds by SW8260B 1,2,4-Trimethylbenzene µg/L	Volatile Organic Compounds by SW8260B 1,2-Dibromo-3-Chloropropane µg/L	Volatile Organic Compounds by SW8260B 1,2-Dibromoethane µg/L	Volatile Organic Compounds by SW8260B 1,2-Dichlorobenzene µg/L	Volatile Organic Compounds by SW8260B 1,2-Dichloroethane µg/L	Volatile Organic Compounds by SW8260B 1,2-Dichloropropane µg/L	Volatile Organic Compounds by SW8260B 1,3,5-Trimethylbenzene (Mesitylene) µg/L
U4-MW-12D	11/2/2022	N	EM03	UMCf	97.1 - 107.1	<2.37	<4.81	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04
U4-MW-12D	12/7/2022	N	EM04	UMCf	97.1 - 107.1	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	0.196 J	<0.149	<0.104
U4-MW-12D	1/12/2023	N	EM05	UMCf	97.1 - 107.1	<23.7	<48.1	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4
U4-MW-12D	2/15/2023	N	EM06	UMCf	97.1 - 107.1	<23.7	<48.1	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4
U4-MW-12D	3/14/2023	N	EM07	UMCf	97.1 - 107.1	<11.9	<24.1	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20
U4-MW-12D	4/17/2023	N	EM08	UMCf	97.1 - 107.1	<1.19 UJ	<2.41 UJ	<1.61 UJ	<1.38 UJ	<0.630 UJ	<0.535 UJ	<0.409 UJ	<0.745 UJ	<0.520 UJ
U4-MW-12D	5/17/2023	N	EM09	UMCf	97.1 - 107.1	<23.7	<48.1	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4
U4-MW-12D	6/16/2023	N	EM10	UMCf	97.1 - 107.1	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-12D	7/13/2023	N	EM11	UMCf	97.1 - 107.1	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-12D	8/14/2023	N	EM12	UMCf	97.1 - 107.1	<11.9	<24.1	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20
U4-MW-12D	9/12/2023	N	EM13	UMCf	97.1 - 107.1	<11.9	<24.1	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20
U4-MW-12D	10/17/2023	N	EM14	UMCf	97.1 - 107.1	<1.19	<2.41	<1.61	<1.38	<0.630	<0.535	<0.409	<0.745	<0.520
U4-MW-12D	11/15/2023	N	EM15	UMCf	97.1 - 107.1	<1.19	<2.41	<1.61	<1.38	<0.630	<0.535	<0.409	<0.745	<0.520
U4-MW-12D	12/12/2023	N	EM16	UMCf	97.1 - 107.1	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-12D	1/24/2024	N	EM17	UMCf	97.1 - 107.1	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	0.406 J	<0.149	<0.104
U4-MW-12D	2/13/2024	N	EM18	UMCf	97.1 - 107.1	<4.74	<9.62	<6.44	<5.52	<2.52	<2.14	<1.64	<2.98	<2.08
U4-MW-12D	3/12/2024	N	EM19	UMCf	97.1 - 107.1	<4.74	<9.62	<6.44	<5.52	<2.52	<2.14	<1.64	<2.98	<2.08
U4-MW-12D	6/12/2024	N	EM20	UMCf	97.1 - 107.1	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-12D	9/24/2024	N	EM21	UMCf	97.1 - 107.1	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-12I	4/14/2022	N	BL02	UMCf	76.8 - 86.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	0.144 J	<0.149	<0.104
U4-MW-12I	4/14/2022	FD	BL02	UMCf	76.8 - 86.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	0.146 J	<0.149	<0.104
U4-MW-12I	9/27/2022	N	EM01	UMCf	76.8 - 86.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-12I	10/12/2022	N	EM02	UMCf	76.8 - 86.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	0.0834 J	<0.149	<0.104
U4-MW-12I	11/2/2022	N	EM03	UMCf	76.8 - 86.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-12I	12/7/2022	N	EM04	UMCf	76.8 - 86.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-12I	12/7/2022	FD	EM04	UMCf	76.8 - 86.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-12I	1/13/2023	N	EM05	UMCf	76.8 - 86.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-12I	2/15/2023	N	EM06	UMCf	76.8 - 86.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-12I	3/13/2023	N	EM07	UMCf	76.8 - 86.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-12I	4/17/2023	N	EM08	UMCf	76.8 - 86.8	<0.237 UJ	<0.481 UJ	<0.322 UJ	<0.276 UJ	<0.126 UJ	<0.107 UJ	<0.0819 UJ	<0.149 UJ	<0.104 UJ
U4-MW-12I	5/17/2023	N	EM09	UMCf	76.8 - 86.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-12I	6/16/2023	N	EM10	UMCf	76.8 - 86.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-12I	7/11/2023	N	EM11	UMCf	76.8 - 86.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-12I	8/14/2023	N	EM12	UMCf	76.8 - 86.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-12I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-12I	10/17/2023	N	EM14	UMCf	76.8 - 86.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-12I	11/16/2023	N	EM15	UMCf	76.8 - 86.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-12I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-12I	1/24/2024	N	EM17	UMCf	76.8 - 86.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-12I	2/13/2024	N	EM18	UMCf	76.8 - 86.8	<4.74	<9.62	<6.44	<5.52	<2.52	<2.14	<1.64	<2.98	<2.08
U4-MW-12I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	<4.74	<9.62	<6.44	<5.52	<2.52	<2.14	<1.64	<2.98	<2.08
U4-MW-12I	6/13/2024	N	EM20	UMCf	76.8 - 86.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-12I	9/23/2024	N	EM21	UMCf	76.8 - 86.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-13D	4/14/2022	N	BL02	UMCf	98.2 - 108.2	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	0.200 J	<0.149	<0.104
U4-MW-13D	9/28/2022	N	EM01	UMCf	98.2 - 108.2	<2.37	<4.81	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04
U4-MW-13D	10/11/2022	N	EM02	UMCf	98.2 - 108.2	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-13D	11/3/2022	N	EM03	UMCf	98.2 - 108.2	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104

Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene (Mesitylene)
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-13D	12/7/2022	N	EM04	UMCf	98.2 - 108.2	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-13D	1/12/2023	N	EM05	UMCf	98.2 - 108.2	<4.74	<9.62	<6.44	<5.52	<2.52	<2.14	<1.64	<2.98	<2.08
U4-MW-13D	2/15/2023	N	EM06	UMCf	98.2 - 108.2	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-13D	3/17/2023	N	EM07	UMCf	98.2 - 108.2	<4.74	<9.62	<6.44	<5.52	<2.52	<2.14	<1.64	<2.98	<2.08
U4-MW-13D	4/18/2023	N	EM08	UMCf	98.2 - 108.2	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-13D	5/17/2023	N	EM09	UMCf	98.2 - 108.2	<4.74	<9.62	<6.44	<5.52	<2.52	<2.14	<1.64	<2.98	<2.08
U4-MW-13D	6/15/2023	N	EM10	UMCf	98.2 - 108.2	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-13D	7/12/2023	N	EM11	UMCf	98.2 - 108.2	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-13D	8/11/2023	N	EM12	UMCf	98.2 - 108.2	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-13D	9/11/2023	N	EM13	UMCf	98.2 - 108.2	<5.93	<12.0	<8.05	<6.90	<3.15	<2.68	<2.05	<3.73	<2.60
U4-MW-13D	10/18/2023	N	EM14	UMCf	98.2 - 108.2	<5.93	<12.0	<8.05	<6.90	<3.15	<2.68	<2.05	<3.73	<2.60
U4-MW-13D	11/15/2023	N	EM15	UMCf	98.2 - 108.2	<5.93	<12.0	<8.05	<6.90	<3.15	<2.68	<2.05	<3.73	<2.60
U4-MW-13D	12/11/2023	N	EM16	UMCf	98.2 - 108.2	<0.237	<0.481	<0.322	<0.276 UJ	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-13D	1/23/2024	N	EM17	UMCf	98.2 - 108.2	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-13D	2/12/2024	N	EM18	UMCf	98.2 - 108.2	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-13D	3/11/2024	N	EM19	UMCf	98.2 - 108.2	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-13D	6/13/2024	N	EM20	UMCf	98.2 - 108.2	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-13D	9/20/2024	N	EM21	UMCf	98.2 - 108.2	<11.9	<24.1	<16.1	<13.8 UJ	<6.30	<5.35	<4.09	<7.45	<5.20
U4-MW-13I	4/14/2022	N	BL02	UMCf	77.1 - 87.1	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	0.133 J	<0.149	<0.104
U4-MW-13I	9/28/2022	N	EM01	UMCf	77.1 - 87.1	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-13I	10/10/2022	N	EM02	UMCf	77.1 - 87.1	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-13I	11/3/2022	N	EM03	UMCf	77.1 - 87.1	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-13I	12/6/2022	N	EM04	UMCf	77.1 - 87.1	<1.19 UJ	<2.41 UJ	<1.61 UJ	<1.38 UJ	<0.630 UJ	<0.535 UJ	<0.409 UJ	<0.745 UJ	<0.520 UJ
U4-MW-13I	1/12/2023	N	EM05	UMCf	77.1 - 87.1	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-13I	2/14/2023	N	EM06	UMCf	77.1 - 87.1	<1.19	<2.41	<1.61	<1.38	<0.630	<0.535	<0.409	<0.745	<0.520
U4-MW-13I	3/16/2023	N	EM07	UMCf	77.1 - 87.1	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-13I	4/19/2023	N	EM08	UMCf	77.1 - 87.1	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-13I	5/17/2023	N	EM09	UMCf	77.1 - 87.1	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-13I	6/15/2023	N	EM10	UMCf	77.1 - 87.1	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-13I	7/12/2023	N	EM11	UMCf	77.1 - 87.1	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-13I	8/11/2023	N	EM12	UMCf	77.1 - 87.1	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-13I	9/11/2023	N	EM13	UMCf	77.1 - 87.1	<5.93	<12.0	<8.05	<6.90	<3.15	<2.68	<2.05	<3.73	<2.60
U4-MW-13I	10/17/2023	N	EM14	UMCf	77.1 - 87.1	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-13I	11/15/2023	N	EM15	UMCf	77.1 - 87.1	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-13I	12/11/2023	N	EM16	UMCf	77.1 - 87.1	<0.237	<0.481	<0.322	<0.276 UJ	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-13I	1/23/2024	N	EM17	UMCf	77.1 - 87.1	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-13I	2/12/2024	N	EM18	UMCf	77.1 - 87.1	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-13I	3/11/2024	N	EM19	UMCf	77.1 - 87.1	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-13I	6/13/2024	N	EM20	UMCf	77.1 - 87.1	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-13I	9/20/2024	N	EM21	UMCf	77.1 - 87.1	<11.9	<24.1	<16.1	<13.8 UJ	<6.30	<5.35	<4.09	<7.45	<5.20
U4-MW-14D	4/13/2022	N	BL02	UMCf	97.3 - 107.3	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	0.134 J	<0.149	<0.104
U4-MW-14D	12/6/2022	N	EM04	UMCf	97.3 - 107.3	<1.19 UJ	<2.41 UJ	<1.61 UJ	<1.38 UJ	<0.630 UJ	<0.535 UJ	<0.409 UJ	<0.745 UJ	<0.520 UJ
U4-MW-14D	3/16/2023	N	EM07	UMCf	97.3 - 107.3	<1.19	<2.41	<1.61	<1.38	<0.630	<0.535	<0.409	<0.745	<0.520 UJ
U4-MW-14D	6/15/2023	N	EM10	UMCf	97.3 - 107.3	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-14D	9/14/2023	N	EM13	UMCf	97.3 - 107.3	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-14D	12/15/2023	N	EM16	UMCf	97.3 - 107.3	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-14D	3/13/2024	N	EM19	UMCf	97.3 - 107.3	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104

Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene (Mesitylene)
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-14D	6/13/2024	N	EM20	UMCf	97.3 - 107.3	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-14D	9/19/2024	N	EM21	UMCf	97.3 - 107.3	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-14I	4/14/2022	N	BL02	UMCf	77.3 - 87.3	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-14I	12/6/2022	N	EM04	UMCf	77.3 - 87.3	<1.19 UJ	<2.41 UJ	<1.61 UJ	<1.38 UJ	<0.630 UJ	<0.535 UJ	<0.409 UJ	<0.745 UJ	<0.520 UJ
U4-MW-14I	3/16/2023	N	EM07	UMCf	77.3 - 87.3	<1.19	<2.41	<1.61	<1.38	<0.630	<0.535	<0.409	<0.745	<0.520 UJ
U4-MW-14I	6/15/2023	N	EM10	UMCf	77.3 - 87.3	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-14I	9/14/2023	N	EM13	UMCf	77.3 - 87.3	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-14I	12/14/2023	N	EM16	UMCf	77.3 - 87.3	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-14I	3/13/2024	N	EM19	UMCf	77.3 - 87.3	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-14I	6/14/2024	N	EM20	UMCf	77.3 - 87.3	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-14I	9/19/2024	N	EM21	UMCf	77.3 - 87.3	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-15D	4/13/2022	N	BL02	UMCf	96.0 - 106.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-15D	12/5/2022	N	EM04	UMCf	96.0 - 106.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-15D	3/20/2023	N	EM07	UMCf	96.0 - 106.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-15D	6/14/2023	N	EM10	UMCf	96.0 - 106.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-15D	9/13/2023	N	EM13	UMCf	96.0 - 106.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-15D	12/12/2023	N	EM16	UMCf	96.0 - 106.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-15D	3/12/2024	N	EM19	UMCf	96.0 - 106.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-15D	6/14/2024	N	EM20	UMCf	96.0 - 106.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-15D	9/24/2024	N	EM21	UMCf	96.0 - 106.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-15DD	4/13/2022	N	BL02	UMCf	120.3 - 130.3	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-15DD	12/5/2022	N	EM04	UMCf	120.3 - 130.3	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-15DD	3/15/2023	N	EM07	UMCf	120.3 - 130.3	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-15DD	6/13/2023	N	EM10	UMCf	120.3 - 130.3	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-15DD	9/14/2023	N	EM13	UMCf	120.3 - 130.3	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-15DD	12/13/2023	N	EM16	UMCf	120.3 - 130.3	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-15DD	3/12/2024	N	EM19	UMCf	120.3 - 130.3	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-15DD	6/14/2024	N	EM20	UMCf	120.3 - 130.3	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-15DD	9/24/2024	N	EM21	UMCf	120.3 - 130.3	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-15I	4/12/2022	N	BL02	UMCf	76.8 - 86.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-15I	12/5/2022	N	EM04	UMCf	76.8 - 86.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-15I	3/17/2023	N	EM07	UMCf	76.8 - 86.8	<4.74	<9.62	<6.44	<5.52	<2.52	<2.14	<1.64	<2.98	<2.08
U4-MW-15I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-15I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-15I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-15I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	<11.9	<24.1	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20
U4-MW-15I	6/17/2024	N	EM20	UMCf	76.8 - 86.8	<11.9	<24.1	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20
U4-MW-15I	9/25/2024	N	EM21	UMCf	76.8 - 86.8	<11.9 UJ	<24.1 UJ	<16.1 UJ	<13.8 UJ	<6.30 UJ	<5.35 UJ	<4.09 UJ	<7.45 UJ	<5.20 UJ
U4-MW-15S	4/13/2022	N	BL02	UMCf	54.8 - 64.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-15S	12/5/2022	N	EM04	UMCf	54.8 - 64.8	<5.93	<12.0	<8.05	<6.90	<3.15	<2.68	<2.05	<3.73	<2.60
U4-MW-15S	3/13/2023	N	EM07	UMCf	54.8 - 64.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-15S	6/13/2023	N	EM10	UMCf	54.8 - 64.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-15S	9/14/2023	N	EM13	UMCf	54.8 - 64.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-15S	12/11/2023	N	EM16	UMCf	54.8 - 64.8	<0.474	<0.962	<0.644	<0.552 UJ	<0.252	<0.214	<0.164	<0.298	<0.208
U4-MW-15S	3/12/2024	N	EM19	UMCf	54.8 - 64.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-15S	3/26/2024	N	EM19	UMCf	54.8 - 64.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-15S	6/14/2024	N	EM20	UMCf	54.8 - 64.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene (Mesitylene)
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-15S	9/20/2024	N	EM21	UMCf	54.8 - 64.8	<0.237	<0.481	<0.322	<0.276 UJ	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-16D	4/11/2022	N	BL02	UMCf	96.8 - 106.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-16D	12/5/2022	N	EM04	UMCf	96.8 - 106.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-16D	3/14/2023	N	EM07	UMCf	96.8 - 106.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-16D	6/13/2023	N	EM10	UMCf	96.8 - 106.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-16D	9/15/2023	N	EM13	UMCf	96.8 - 106.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-16D	12/14/2023	N	EM16	UMCf	96.8 - 106.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-16D	3/14/2024	N	EM19	UMCf	96.8 - 106.8	<11.9	<24.1	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45 UJ	<5.20
U4-MW-16D	6/17/2024	N	EM20	UMCf	96.8 - 106.8	<11.9	<24.1	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20
U4-MW-16D	9/20/2024	N	EM21	UMCf	96.8 - 106.8	<11.9	<24.1	<16.1	<13.8 UJ	<6.30	<5.35	<4.09	<7.45	<5.20
U4-MW-16DD	4/12/2022	N	BL02	UMCf	120.8 - 130.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-16DD	12/5/2022	N	EM04	UMCf	120.8 - 130.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-16DD	3/15/2023	N	EM07	UMCf	120.8 - 130.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-16DD	6/13/2023	N	EM10	UMCf	120.8 - 130.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-16DD	9/14/2023	N	EM13	UMCf	120.8 - 130.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-16DD	12/13/2023	N	EM16	UMCf	120.8 - 130.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-16DD	3/14/2024	N	EM19	UMCf	120.8 - 130.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149 UJ	<0.104
U4-MW-16DD	6/17/2024	N	EM20	UMCf	120.8 - 130.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-16DD	9/19/2024	N	EM21	UMCf	120.8 - 130.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-16I	4/11/2022	N	BL02	UMCf	77.0 - 87.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-16I	12/5/2022	N	EM04	UMCf	77.0 - 87.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-16I	12/5/2022	FD	EM04	UMCf	77.0 - 87.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-16I	3/13/2023	N	EM07	UMCf	77.0 - 87.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-16I	3/13/2023	FD	EM07	UMCf	77.0 - 87.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-16I	6/12/2023	N	EM10	UMCf	77.0 - 87.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-16I	6/12/2023	FD	EM10	UMCf	77.0 - 87.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-16I	9/11/2023	N	EM13	UMCf	77.0 - 87.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-16I	9/11/2023	FD	EM13	UMCf	77.0 - 87.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-16I	12/11/2023	N	EM16	UMCf	77.0 - 87.0	<0.237	<0.481	<0.322	<0.276 UJ	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-16I	12/11/2023	FD	EM16	UMCf	77.0 - 87.0	<0.237	<0.481	<0.322	<0.276 UJ	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-16I	3/11/2024	N	EM19	UMCf	77.0 - 87.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	0.112 J	<0.149	<0.104
U4-MW-16I	3/11/2024	FD	EM19	UMCf	77.0 - 87.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	0.130 J	<0.149	<0.104
U4-MW-16I	6/18/2024	N	EM20	UMCf	77.0 - 87.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-16I	6/18/2024	FD	EM20	UMCf	77.0 - 87.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-16I	9/19/2024	N	EM21	UMCf	77.0 - 87.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-16I	9/19/2024	FD	EM21	UMCf	77.0 - 87.0	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-16S	4/12/2022	N	BL02	UMCf	54.8 - 64.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-16S	4/12/2022	FD	BL02	UMCf	54.8 - 64.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-16S	12/6/2022	N	EM04	UMCf	54.8 - 64.8	<0.237 UJ	<0.481 UJ	<0.322 UJ	<0.276 UJ	<0.126 UJ	<0.107 UJ	<0.0819 UJ	<0.149 UJ	<0.104 UJ
U4-MW-16S	3/15/2023	N	EM07	UMCf	54.8 - 64.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-16S	6/13/2023	N	EM10	UMCf	54.8 - 64.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-16S	9/11/2023	N	EM13	UMCf	54.8 - 64.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-16S	12/11/2023	N	EM16	UMCf	54.8 - 64.8	<0.237	<0.481	<0.322	<0.276 UJ	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-16S	3/11/2024	N	EM19	UMCf	54.8 - 64.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-16S	6/17/2024	N	EM20	UMCf	54.8 - 64.8	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-MW-16S	9/20/2024	N	EM21	UMCf	54.8 - 64.8	<0.237	<0.481	<0.322	<0.276 UJ	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-SLMW	11/10/2022	N	EM03	-	-	<1.19	<2.41	<1.61	<1.38	<0.630	<0.535	<0.409	<0.745	<0.520

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene (Mesitylene)
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-T3	10/13/2022	N	EM02	-	-	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-T3	11/3/2022	N	EM03	-	-	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-T3	12/6/2022	N	EM04	-	-	<4.74 UJ	<9.62 UJ	<6.44 UJ	<5.52 UJ	<2.52 UJ	<2.14 UJ	<1.64 UJ	<2.98 UJ	<2.08 UJ
U4-T3	1/9/2023	N	EM05	-	-	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	0.0844 J	<0.149	<0.104
U4-T3	2/13/2023	N	EM06	-	-	<23.7	<48.1	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4
U4-T3	3/13/2023	N	EM07	-	-	<5.93	<12.0	<8.05	<6.90	<3.15	<2.68	<2.05	<3.73	<2.60
U4-T3	4/19/2023	N	EM08	-	-	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-T3	5/18/2023	N	EM09	-	-	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-T3	6/12/2023	N	EM10	-	-	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-T3	7/11/2023	N	EM11	-	-	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-T3	8/10/2023	N	EM12	-	-	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-T3	9/11/2023	N	EM13	-	-	<0.237	<0.481	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104
U4-T3	10/16/2023	N	EM14	-	-	<5.93	<12.0	<8.05	<6.90	<3.15	<2.68	<2.05	<3.73	<2.60

Notes:
FD - Field duplicate
E - Field instrument error.
J - The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J- - The result is an estimated quantity, but the result may be biased low.
J+ - The result is an estimated quantity, but the result may be biased high.
N/A - Not Applicable
mg/L - milligrams per liter
µg/L - micrograms per liter
N - Normal field sample

R - The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

UMCf- Upper Muddy Creek Formation
< - The analyte was analyzed for, but was not detected above the level of the reported
-- Not tested.
U4-E-08D has been abandoned.
M-252 damaged/obstructed when checked on June 14, 2023 and September 14, 2023.
U4-MW-08S and U4-MW-15S were purged and resampled for EM19 on March 25-26, 2024; Original EM19 samples were collected via bailer due to well condition.
Lab was unable to analyze and report TDS for samples L1782240-20 (U4-E-09I-EM21) and -21 (U4-E-09I-EM21-FD) due to the thickness of the sample matrix.

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone (MEK)	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-Pentanone	Acetone
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
M-247-100	4/20/2022	N	BL02	UMCf	100.5 - 110.5	----	----	----	----	----	----	----	----	----	----
M-249-100	4/20/2022	N	BL02	UMCf	99.6 - 109.6	----	----	----	----	----	----	----	----	----	----
M-251-100	4/19/2022	N	BL02	UMCf	92.5 - 102.5	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
M-251-100	10/13/2022	N	EM02	UMCf	92.5 - 102.5	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
M-251-100	11/2/2022	N	EM03	UMCf	92.5 - 102.5	<1.10	<1.10	<1.20	<1.61	<11.9	<1.06	<7.87	<1.14	<4.78	<113
M-251-100	12/8/2022	N	EM04	UMCf	92.5 - 102.5	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
M-251-100	1/11/2023	N	EM05	UMCf	92.5 - 102.5	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
M-251-100	2/13/2023	N	EM06	UMCf	92.5 - 102.5	<0.110	<0.110	<0.120	<0.161	1.46 J	<0.106	<0.787	<0.114	<0.478	<11.3
M-251-100	3/17/2023	N	EM07	UMCf	92.5 - 102.5	<5.50	<5.50	<6.00	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565
M-251-100	4/21/2023	N	EM08	UMCf	92.5 - 102.5	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
M-251-100	5/9/2023	N	EM09	UMCf	92.5 - 102.5	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
M-251-100	6/14/2023	N	EM10	UMCf	92.5 - 102.5	<5.50	<5.50	<6.00	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565
M-251-100	7/14/2023	N	EM11	UMCf	92.5 - 102.5	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
M-251-100	8/10/2023	N	EM12	UMCf	92.5 - 102.5	<0.110	<0.110	<0.120	<0.161	35.6	<0.106	2.52 J	<0.114	<0.478	21.9 J
M-251-100	9/14/2023	N	EM13	UMCf	92.5 - 102.5	<0.110	<0.110	<0.120	<0.161	1.97 J	<0.106	<0.787	<0.114	<0.478	<11.3
M-251-100	10/19/2023	N	EM14	UMCf	92.5 - 102.5	<0.110	<0.110	<0.120	<0.161	5.41 J	<0.106	<0.787	<0.114	<0.478	19.1 J
M-251-100	11/16/2023	N	EM15	UMCf	92.5 - 102.5	<5.50	<5.50	<6.00	<8.05	100 J	<5.30	<39.4	<5.70	<23.9	<565
M-251-100	12/12/2023	N	EM16	UMCf	92.5 - 102.5	<0.110	<0.110	<0.120	<0.161	39.7 J	<0.106	<0.787	<0.114	<0.478	135 J+
M-251-100	1/25/2024	N	EM17	UMCf	92.5 - 102.5	<0.110	<0.110	<0.120	<0.161	24.5	<0.106	<0.787	<0.114	<0.478	217
M-251-100	2/13/2024	N	EM18	UMCf	92.5 - 102.5	<5.50	<5.50	<6.00	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565
M-251-100	3/11/2024	N	EM19	UMCf	92.5 - 102.5	<5.50	<5.50	<6.00	<8.05	135 J	<5.30	<39.4	<5.70	<23.9	<565
M-251-100	6/17/2024	N	EM20	UMCf	92.5 - 102.5	<5.50	<5.50	<6.00	<8.05	408 J	<5.30	<39.4	<5.70	<23.9	778 J
M-251-100	9/23/2024	N	EM21	UMCf	92.5 - 102.5	<0.110	<0.110	<0.120	<0.161	531	<0.106	<0.787	<0.114	<0.478	3,530
M-251-60	4/18/2022	N	BL02	UMCf	52.3 - 62.3	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
M-251-60	3/15/2023	N	EM07	UMCf	52.3 - 62.3	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
M-251-60	6/14/2023	N	EM10	UMCf	52.3 - 62.3	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
M-251-60	9/14/2023	N	EM13	UMCf	52.3 - 62.3	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
M-251-60	12/11/2023	N	EM16	UMCf	52.3 - 62.3	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787 UJ	<0.114	<0.478	<11.3
M-251-60	3/12/2024	N	EM19	UMCf	52.3 - 62.3	<0.110	<0.110	<0.120	<0.161	2.11 J	<0.106	<0.787	<0.114	<0.478	11.6 J
M-251-60	6/19/2024	N	EM20	UMCf	52.3 - 62.3	<0.110	<0.110	<0.120	<0.161	4.10 J	<0.106	<0.787	<0.114	<0.478	16.5 J
M-251-60	9/20/2024	N	EM21	UMCf	52.3 - 62.3	<0.110	<0.110	<0.120	<0.161	5.82 J	<0.106	<0.787	<0.114	<0.478	26.2 J
M-252	4/21/2022	N	BL02	UMCf	132.3 - 142.3	<0.110	<0.110	<0.120	<0.161	7.60 J	<0.106	<0.787	<0.114	<0.478	<11.3
M-252	3/15/2023	N	EM07	UMCf	132.3 - 142.3	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
M-252	9/19/2023	N	EM13	UMCf	132.3 - 142.3	<0.110	<0.110	<0.120	<0.161	4.31 J	<0.106	<0.787	<0.114	<0.478	<11.3
M-252	12/18/2023	N	EM16	UMCf	132.3 - 142.3	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
M-252	3/12/2024	N	EM19	UMCf	132.3 - 142.3	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
M-252	6/19/2024	N	EM20	UMCf	132.3 - 142.3	<0.110	<0.110	<0.120	<0.161	16.7	<0.106	1.59 J	<0.114	<0.478	<11.3
M-252	9/24/2024	N	EM21	UMCf	132.3 - 142.3	<0.110	<0.110	<0.120	<0.161	1.93 J	<0.106	<0.787	<0.114	<0.478	<11.3
M-253-100	4/20/2022	N	BL02	UMCf	100.8 - 110.8	----	----	----	----	----	----	----	----	----	----
M-255-100	4/20/2022	N	BL02	UMCf	100.2 - 110.2	----	----	----	----	----	----	----	----	----	----
U4-E-01D	4/18/2022	N	BL02	UMCf	94.7 - 109.7	<0.550	<0.550	<0.600	<0.805	<5.95	<0.530	<3.94	<0.570	<2.39	<56.5
U4-E-01D	3/14/2023	N	EM07	UMCf	94.7 - 109.7	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-E-01D	6/20/2024	N	EM20	UMCf	94.7 - 109.7	<1.10	<1.10	<1.20	<1.61	2,640	<1.06	11.5 J	<1.14	<4.78	991
U4-E-01D	9/25/2024	N	EM21	UMCf	94.7 - 109.7	<1.10 UJ	<1.10 UJ	<1.20 UJ	<1.61 UJ	6,960 J	<1.06 UJ	70.4 J	<1.14 UJ	34.0 J	3,300 J
U4-E-01I	4/19/2022	N	BL02	UMCf	74.6 - 89.6	<0.110	<0.110	<0.120	<0.161	3.29 J	<0.106	<0.787	<0.114	<0.478	11.7 J
U4-E-01I	4/19/2022	FD	BL02	UMCf	74.6 - 89.6	<0.110	<0.110	<0.120	<0.161	3.45 J	<0.106	0.848 J	<0.114	<0.478	11.7 J
U4-E-01I	3/14/2023	N	EM07	UMCf	74.6 - 89.6	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone (MEK)	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-Pentanone	Acetone
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-E-01I	4/20/2023	N	EM08	UMCf	74.6 - 89.6	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-E-01I	5/10/2023	N	EM09	UMCf	74.6 - 89.6	<0.110	<0.110	<0.120	<0.161	5.34 J	<0.106	<0.787	<0.114	<0.478	44.5 J
U4-E-01I	6/12/2023	N	EM10	UMCf	74.6 - 89.6	<0.110	<0.110	<0.120	<0.161	19.7	<0.106	<0.787 UJ	<0.114	<0.478	84.3 J+
U4-E-01I	7/11/2023	N	EM11	UMCf	74.6 - 89.6	<0.550	<0.550	<0.600	<0.805	<5.95	<0.530	<3.94	<0.570	<2.39	59.3 J
U4-E-01I	8/10/2023	N	EM12	UMCf	74.6 - 89.6	<0.110	<0.110	<0.120	<0.161	7.24 J	<0.106	<0.787	<0.114	0.711 J	27.4 J
U4-E-01I	9/11/2023	N	EM13	UMCf	74.6 - 89.6	<0.550	<0.550	<0.600	<0.805	<5.95	<0.530	<3.94	<0.570	<2.39	<56.5
U4-E-01I	10/16/2023	N	EM14	UMCf	74.6 - 89.6	<0.110	<0.110	<0.120	<0.161	20.5	<0.106	<0.787	<0.114	<0.478	24.9 J
U4-E-01I	12/13/2023	N	EM16	UMCf	74.6 - 89.6	<1.10	<1.10	<1.20	<1.61	62.0 J	<1.06	<7.87	<1.14	<4.78	<113
U4-E-01I	1/24/2024	N	EM17	UMCf	74.6 - 89.6	<2.20	<2.20	<2.40	<3.22	<23.8	<2.12	<15.7	<2.28	<9.56	<226
U4-E-01I	2/14/2024	N	EM18	UMCf	74.6 - 89.6	<1.10	<1.10	<1.20	<1.61	<11.9	<1.06	<7.87	<1.14	<4.78	<113
U4-E-01I	3/12/2024	N	EM19	UMCf	74.6 - 89.6	<1.10	<1.10	<1.20	<1.61	18.5 J	<1.06	<7.87	<1.14	<4.78	<113
U4-E-01I	6/20/2024	N	EM20	UMCf	74.6 - 89.6	<1.10	<1.10	<1.20	<1.61	2,610	<1.06	<7.87	<1.14	<4.78	1,280
U4-E-01I	9/25/2024	N	EM21	UMCf	74.6 - 89.6	<1.10 UJ	<1.10 UJ	<1.20 UJ	<1.61 UJ	2,240 J	<1.06 UJ	29.1 J	<1.14 UJ	7.80 J	<113 UJ
U4-E-02D	4/20/2022	N	BL02	UMCf	94.4 - 109.4	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-E-02D	3/14/2023	N	EM07	UMCf	94.4 - 109.4	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-E-02D	6/19/2024	N	EM20	UMCf	94.4 - 109.4	<1.10	<1.10	<1.20	<1.61	2,970	<1.06	<7.87	<1.14	<4.78	1,010
U4-E-02D	9/27/2024	N	EM21	UMCf	94.4 - 109.4	<2.20 UJ	<2.20 UJ	<2.40 UJ	<3.22 UJ	6,260 J	<2.12 UJ	53.7 J	<2.28 UJ	11.6 J	2,500 J
U4-E-02I	4/18/2022	N	BL02	UMCf	74.4 - 89.4	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-E-02I	3/14/2023	N	EM07	UMCf	74.4 - 89.4	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-E-02I	4/20/2023	N	EM08	UMCf	74.4 - 89.4	<0.110	<0.110	<0.120	<0.161	5.27 J	<0.106	<0.787	<0.114	<0.478	17.6 J
U4-E-02I	5/11/2023	N	EM09	UMCf	74.4 - 89.4	<0.110	<0.110	<0.120	<0.161	12.3	<0.106	<0.787	<0.114	<0.478	52.8
U4-E-02I	6/12/2023	N	EM10	UMCf	74.4 - 89.4	<0.110	<0.110	<0.120	<0.161	31.6	<0.106	<0.787 UJ	<0.114	<0.478	31.2 J
U4-E-02I	7/11/2023	N	EM11	UMCf	74.4 - 89.4	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	36.2 J
U4-E-02I	8/10/2023	N	EM12	UMCf	74.4 - 89.4	<0.110	<0.110	<0.120	<0.161	47.5	<0.106	<0.787	<0.114	<0.478	41.5 J
U4-E-02I	9/11/2023	N	EM13	UMCf	74.4 - 89.4	<0.110	<0.110	<0.120	<0.161	41.3	<0.106	<0.787	<0.114	<0.478	57.0
U4-E-02I	10/16/2023	N	EM14	UMCf	74.4 - 89.4	<1.10	<1.10	<1.20	<1.61	47.8 J	<1.06	<7.87	<1.14	<4.78	<113
U4-E-02I	12/14/2023	N	EM16	UMCf	74.4 - 89.4	<1.10	<1.10	<1.20	<1.61	<11.9	<1.06	<7.87	<1.14	<4.78	<113
U4-E-02I	1/22/2024	N	EM17	UMCf	74.4 - 89.4	<0.110	<0.110	<0.120	<0.161	17.9	<0.106	<0.787 UJ	<0.114	<0.478	<11.3
U4-E-02I	2/13/2024	N	EM18	UMCf	74.4 - 89.4	<0.110	<0.110	<0.120	<0.161	46.6	<0.106	<0.787	<0.114	1.16 J	<11.3
U4-E-02I	3/13/2024	N	EM19	UMCf	74.4 - 89.4	<2.75	<2.75	<3.00	<4.03	<29.8	<2.65	<19.7	<2.85	<12.0	<282
U4-E-02I	6/19/2024	N	EM20	UMCf	74.4 - 89.4	<11.0	<11.0	<12.0	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130
U4-E-02I	9/24/2024	N	EM21	UMCf	74.4 - 89.4	<11.0 UJ	<11.0 UJ	<12.0 UJ	<16.1 UJ	172 J	<10.6 UJ	<78.7 UJ	<11.4 UJ	<47.8 UJ	<1130 UJ
U4-E-03D	4/19/2022	N	BL02	UMCf	95.1 - 110.1	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-E-03D	10/13/2022	N	EM02	UMCf	95.1 - 110.1	<22.0	<22.0	<24.0	<32.2	<238	<21.2	<157	<22.8	<95.6	<2,260
U4-E-03D	11/3/2022	N	EM03	UMCf	95.1 - 110.1	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-E-03D	12/6/2022	N	EM04	UMCf	95.1 - 110.1	<2.20 UJ	<2.20 UJ	<2.40 UJ	<3.22 UJ	<23.8 UJ	<2.12 UJ	<15.7 UJ	<2.28 UJ	<9.56 UJ	<226 UJ
U4-E-03D	1/9/2023	N	EM05	UMCf	95.1 - 110.1	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-E-03D	2/13/2023	N	EM06	UMCf	95.1 - 110.1	<11.0	<11.0	<12.0	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130
U4-E-03D	3/13/2023	N	EM07	UMCf	95.1 - 110.1	<11.0	<11.0	<12.0	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130
U4-E-03D	3/14/2023	N	EM07	UMCf	95.1 - 110.1	<22.0	<22.0	<24.0	<32.2	<238	<21.2	<157	<22.8	<95.6	<2,260
U4-E-03D	4/19/2023	N	EM08	UMCf	95.1 - 110.1	<0.550	<0.550	<0.600	<0.805	<5.95	<0.530	<3.94	<0.570	<2.39	<56.5
U4-E-03D	5/11/2023	N	EM09	UMCf	95.1 - 110.1	<0.110	<0.110	<0.120	<0.161	50.0	<0.106	<0.787	<0.114	<0.478	164
U4-E-03D	6/12/2023	N	EM10	UMCf	95.1 - 110.1	<0.110	<0.110	<0.120	<0.161	46.8	<0.106	<0.787 UJ	<0.114	<0.478	233
U4-E-03D	7/11/2023	N	EM11	UMCf	95.1 - 110.1	<0.110	<0.110	<0.120	<0.161	18.4	<0.106	<0.787	<0.114	<0.478	195
U4-E-03D	8/10/2023	N	EM12	UMCf	95.1 - 110.1	<0.110	<0.110	<0.120	<0.161	6.05 J	<0.106	<0.787	<0.114	<0.478	29.5 J
U4-E-03D	9/11/2023	N	EM13	UMCf	95.1 - 110.1	<0.110	<0.110	<0.120	<0.161	32.7	<0.106	<0.787	<0.114	<0.478	201
U4-E-03D	10/16/2023	N	EM14	UMCf	95.1 - 110.1	<22.0	<22.0	<24.0	<32.2	<238	<21.2	<157	<22.8	<95.6	<2,260

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone (MEK)	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-Pentanone	Acetone
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-E-03D	6/10/2024	N	EM20	UMCf	95.1 - 110.1	<2.20	<2.20	<2.40	<3.22	1,450	<2.12	<15.7	<2.28	<9.56	485 J
U4-E-03D	6/10/2024	FD	EM20	UMCf	95.1 - 110.1	<2.20	<2.20	<2.40	<3.22	1,480	<2.12	<15.7	<2.28	<9.56	500 J
U4-E-03D	9/27/2024	N	EM21	UMCf	95.1 - 110.1	<0.550 UJ	<0.550 UJ	<0.600 UJ	<0.805 UJ	<5.95 UJ	<0.530 UJ	<3.94 UJ	<0.570 UJ	15.3 J	<56.5 UJ
U4-E-03D	9/27/2024	FD	EM21	UMCf	95.1 - 110.1	<0.550 UJ	<0.550 UJ	<0.600 UJ	<0.805 UJ	7.90 J	<0.530 UJ	12.5 J	<0.570 UJ	13.9 J	<56.5 UJ
U4-E-04D	4/19/2022	N	BL02	UMCf	95.0 - 110.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-E-04D	3/14/2023	N	EM07	UMCf	95.0 - 110.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-E-04D	6/20/2024	N	EM20	UMCf	95.0 - 110.0	<1.10	<1.10	<1.20	<1.61	1,180	<1.06	<7.87	<1.14	<4.78	937
U4-E-04D	9/26/2024	N	EM21	UMCf	95.0 - 110.0	<1.10	<1.10	<1.20	<1.61	39.1 J	<1.06	22.2 J	<1.14	14.5 J	<113
U4-E-04I	4/18/2022	N	BL02	UMCf	75.0 - 90.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-E-04I	3/14/2023	N	EM07	UMCf	75.0 - 90.0	<5.50	<5.50	<6.00	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565
U4-E-04I	6/20/2024	N	EM20	UMCf	75.0 - 90.0	<1.10	<1.10	<1.20	<1.61	851	<1.06	<7.87	<1.14	<4.78	942
U4-E-04I	9/26/2024	N	EM21	UMCf	75.0 - 90.0	<1.10	<1.10	<1.20	<1.61	1,590	<1.06	24.9 J	<1.14	9.04 J	<113
U4-E-05D	4/19/2022	N	BL02	UMCf	95.0 - 110.0	<0.110	<0.110	<0.120	<0.161	2.86 J	<0.106	<0.787	<0.114	<0.478	<11.3
U4-E-05D	3/16/2023	N	EM07	UMCf	95.0 - 110.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-E-05D	6/10/2024	N	EM20	UMCf	95.0 - 110.0	<2.20	<2.20	<2.40	<3.22	1,500	<2.12	<15.7	<2.28	<9.56	1,130
U4-E-05D	9/27/2024	N	EM21	UMCf	95.0 - 110.0	<0.550 UJ	<0.550 UJ	<0.600 UJ	<0.805 UJ	<5.95 UJ	<0.530 UJ	23.9 J	<0.570 UJ	12.2 J	<56.5 UJ
U4-E-05I	4/19/2022	N	BL02	UMCf	75.0 - 90.0	<0.110	<0.110	<0.120	<0.161	4.61 J	<0.106	<0.787	<0.114	<0.478	<11.3
U4-E-05I	3/15/2023	N	EM07	UMCf	75.0 - 90.0	<0.110 UJ	<0.110 UJ	<0.120 UJ	<0.161 UJ	110 J-	<0.106 UJ	<0.787 UJ	<0.114 UJ	<0.478 UJ	98.1 J
U4-E-05I	6/19/2024	N	EM20	UMCf	75.0 - 90.0	<5.50	<5.50	<6.00	<8.05	1,700	<5.30	<39.4	<5.70	<23.9	908 J
U4-E-05I	9/27/2024	N	EM21	UMCf	75.0 - 90.0	<1.10 UJ	<1.10 UJ	<1.20 UJ	<1.61 UJ	<11.9 UJ	<1.06 UJ	<7.87 UJ	<1.14 UJ	6.55 J	<113 UJ
U4-E-06D	4/11/2022	N	BL02	UMCf	95.1 - 110.1	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-E-06D	6/20/2024	N	EM20	UMCf	95.1 - 110.1	<1.10	<1.10	<1.20	<1.61	2,680	<1.06	15.8 J	<1.14	<4.78	1,390
U4-E-06D	9/27/2024	N	EM21	UMCf	95.1 - 110.1	<0.550 UJ	<0.550 UJ	<0.600 UJ	<0.805 UJ	<5.95 UJ	<0.530 UJ	<3.94 UJ	<0.570 UJ	<2.39 UJ	<56.5 UJ
U4-E-06I	4/11/2022	N	BL02	UMCf	73.2 - 88.2	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-E-06I	4/11/2022	FD	BL02	UMCf	73.2 - 88.2	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-E-06I	10/12/2022	N	EM02	UMCf	73.2 - 88.2	<0.110	<0.110	<0.120	<0.161	8.89 J	<0.106	<0.787	<0.114	<0.478	33.8 J
U4-E-06I	11/3/2022	N	EM03	UMCf	73.2 - 88.2	<0.110	<0.110	<0.120	<0.161	10.5	<0.106	<0.787	<0.114	<0.478	39.8 J
U4-E-06I	12/6/2022	N	EM04	UMCf	73.2 - 88.2	<1.10 UJ	<1.10 UJ	<1.20 UJ	<1.61 UJ	36.1 J	<1.06 UJ	<7.87 UJ	<1.14 UJ	<4.78 UJ	<113 UJ
U4-E-06I	1/9/2023	N	EM05	UMCf	73.2 - 88.2	<0.110	<0.110	<0.120	<0.161	16.0 J+	<0.106	<0.787	<0.114	<0.478	32.8 J
U4-E-06I	2/13/2023	N	EM06	UMCf	73.2 - 88.2	<11.0	<11.0	<12.0	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130
U4-E-06I	3/13/2023	N	EM07	UMCf	73.2 - 88.2	<2.20	<2.20	<2.40	<3.22	<23.8	<2.12	<15.7	<2.28	<9.56	<226
U4-E-06I	4/17/2023	N	EM08	UMCf	73.2 - 88.2	<2.20	<2.20	<2.40	<3.22	26.1 J	<2.12	<15.7	<2.28	<9.56	<226
U4-E-06I	5/15/2023	N	EM09	UMCf	73.2 - 88.2	<2.75	<2.75	<3.00	<4.03	<29.8	<2.65	<19.7	<2.85	<12.0	<282
U4-E-06I	6/12/2023	N	EM10	UMCf	73.2 - 88.2	<0.110	<0.110	<0.120	<0.161	7.09 J	<0.106	<0.787 UJ	<0.114	<0.478	21.0 J
U4-E-06I	7/11/2023	N	EM11	UMCf	73.2 - 88.2	<0.110	<0.110	<0.120	<0.161	14.1	<0.106	<0.787	<0.114	<0.478	52.8
U4-E-06I	8/11/2023	N	EM12	UMCf	73.2 - 88.2	<0.550	<0.550	<0.600	<0.805	<5.95	<0.530	<3.94	<0.570	<2.39	<56.5
U4-E-06I	9/11/2023	N	EM13	UMCf	73.2 - 88.2	<0.110	<0.110	<0.120	<0.161	11.1	<0.106	<0.787	<0.114	<0.478	87.0
U4-E-06I	10/16/2023	N	EM14	UMCf	73.2 - 88.2	<5.50	<5.50	<6.00	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565
U4-E-06I	12/13/2023	N	EM16	UMCf	73.2 - 88.2	<0.110	<0.110	<0.120	<0.161	196	<0.106	7.34 J	<0.114	9.20 J	497 J
U4-E-06I	1/22/2024	N	EM17	UMCf	73.2 - 88.2	<0.110	<0.110	<0.120	<0.161	927	<0.106	17.1 J-	<0.114	19.1	1,100 J
U4-E-06I	2/13/2024	N	EM18	UMCf	73.2 - 88.2	<5.50	<5.50	<6.00	<8.05	1,020	<5.30	<39.4	<5.70	<23.9	959 J
U4-E-06I	3/11/2024	N	EM19	UMCf	73.2 - 88.2	<5.50	<5.50	<6.00	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565
U4-E-06I	6/11/2024	N	EM20	UMCf	73.2 - 88.2	<0.110	<0.110	<0.120	<0.161	7.24 J	<0.106	<0.787	<0.114	<0.478	30.5 J
U4-E-06I	9/27/2024	N	EM21	UMCf	73.2 - 88.2	<2.20 UJ	<2.20 UJ	<2.40 UJ	<3.22 UJ	<23.8 UJ	<2.12 UJ	<15.7 UJ	<2.28 UJ	<9.56 UJ	<226 UJ
U4-E-07D	4/12/2022	N	BL02	UMCf	94.6 - 109.6	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-E-07D	6/20/2024	N	EM20	UMCf	94.6 - 109.6	<1.10	<1.10	<1.20	<1.61	<11.9	<1.06	<7.87	<1.14	<4.78	<113
U4-E-07D	9/26/2024	N	EM21	UMCf	94.6 - 109.6	<1.10	<1.10	<1.20	<1.61	<11.9	<1.06	<7.87	<1.14	<4.78	<113

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone (MEK)	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-Pentanone	Acetone
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-E-07I	4/12/2022	N	BL02	UMCf	74.7 - 89.7	<0.110	<0.110	<0.120	<0.161	1.25 J	<0.106	<0.787	<0.114	<0.478	<11.3
U4-E-07I	10/11/2022	N	EM02	UMCf	74.7 - 89.7	<1.10	<1.10	<1.20	<1.61	<11.9	<1.06	<7.87	<1.14	<4.78	<113
U4-E-07I	11/3/2022	N	EM03	UMCf	74.7 - 89.7	<0.110	<0.110	<0.120	<0.161	2.17 J	<0.106	<0.787	<0.114	<0.478	<11.3
U4-E-07I	12/6/2022	N	EM04	UMCf	74.7 - 89.7	<2.75 UJ	<2.75 UJ	<3.00 UJ	<4.03 UJ	<29.8 UJ	<2.65 UJ	<19.7 UJ	<2.85 UJ	<12.0 UJ	<282 UJ
U4-E-07I	1/9/2023	N	EM05	UMCf	74.7 - 89.7	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-E-07I	2/13/2023	N	EM06	UMCf	74.7 - 89.7	<11.0	<11.0	<12.0	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130
U4-E-07I	3/13/2023	N	EM07	UMCf	74.7 - 89.7	<11.0	<11.0	<12.0	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130
U4-E-07I	4/19/2023	N	EM08	UMCf	74.7 - 89.7	<0.550	<0.550	<0.600	<0.805	<5.95	<0.530	<3.94	<0.570	<2.39	<56.5
U4-E-07I	5/15/2023	N	EM09	UMCf	74.7 - 89.7	<11.0	<11.0	<12.0	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130
U4-E-07I	6/12/2023	N	EM10	UMCf	74.7 - 89.7	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787 UJ	<0.114	<0.478	<11.3
U4-E-07I	7/11/2023	N	EM11	UMCf	74.7 - 89.7	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-E-07I	8/11/2023	N	EM12	UMCf	74.7 - 89.7	<0.550	<0.550	<0.600	<0.805	<5.95	<0.530	<3.94	<0.570	<2.39	<56.5
U4-E-07I	9/11/2023	N	EM13	UMCf	74.7 - 89.7	<0.110	<0.110	<0.120	<0.161	6.21 J	<0.106	<0.787	<0.114	<0.478	32.0 J
U4-E-07I	10/16/2023	N	EM14	UMCf	74.7 - 89.7	<11.0	<11.0	<12.0	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130
U4-E-07I	12/13/2023	N	EM16	UMCf	74.7 - 89.7	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-E-07I	1/23/2024	N	EM17	UMCf	74.7 - 89.7	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-E-07I	2/13/2024	N	EM18	UMCf	74.7 - 89.7	<22.0	<22.0	<24.0	<32.2	<238	<21.2	<157	<22.8	<95.6	<2,260
U4-E-07I	3/11/2024	N	EM19	UMCf	74.7 - 89.7	<22.0	<22.0	<24.0	<32.2	<238	<21.2	<157	<22.8	<95.6	<2,260
U4-E-07I	6/11/2024	N	EM20	UMCf	74.7 - 89.7	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-E-07I	9/26/2024	N	EM21	UMCf	74.7 - 89.7	<11.0	<11.0	<12.0	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130
U4-E-08D	4/12/2022	N	BL02	UMCf	94.6 - 109.6	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-E-08D	10/11/2022	N	EM02	UMCf	94.6 - 109.6	<1.10	<1.10	<1.20	<1.61	<11.9	<1.06	<7.87	<1.14	<4.78	<113
U4-E-08D	11/3/2022	N	EM03	UMCf	94.6 - 109.6	<0.110	<0.110	<0.120	<0.161	1.32 J	<0.106	<0.787	<0.114	<0.478	<11.3
U4-E-08D	12/6/2022	N	EM04	UMCf	94.6 - 109.6	<2.75 UJ	<2.75 UJ	<3.00 UJ	<4.03 UJ	<29.8 UJ	<2.65 UJ	<19.7 UJ	<2.85 UJ	<12.0 UJ	<282 UJ
U4-E-08D	1/9/2023	N	EM05	UMCf	94.6 - 109.6	<0.110	<0.110	<0.120	<0.161	2.81 J	<0.106	<0.787	<0.114	<0.478	<11.3
U4-E-08D	2/13/2023	N	EM06	UMCf	94.6 - 109.6	<11.0	<11.0	<12.0	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130
U4-E-08D	3/13/2023	N	EM07	UMCf	94.6 - 109.6	<11.0	<11.0	<12.0	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130
U4-E-08D	4/19/2023	N	EM08	UMCf	94.6 - 109.6	<0.550	<0.550	<0.600	<0.805	<5.95	<0.530	<3.94	<0.570	<2.39	<56.5
U4-E-08D	5/17/2023	N	EM09	UMCf	94.6 - 109.6	<11.0	<11.0	<12.0	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130
U4-E-08D	6/12/2023	N	EM10	UMCf	94.6 - 109.6	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787 UJ	<0.114	<0.478	<11.3
U4-E-08D	7/11/2023	N	EM11	UMCf	94.6 - 109.6	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-E-09D	4/15/2022	N	BL02	UMCf	94.5 - 109.5	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-E-09D	6/10/2024	N	EM20	UMCf	94.5 - 109.5	<2.20	<2.20	<2.40	<3.22	1,500	<2.12	<15.7	<2.28	<9.56	835 J
U4-E-09D	9/27/2024	N	EM21	UMCf	94.5 - 109.5	<2.20 UJ	<2.20 UJ	<2.40 UJ	<3.22 UJ	8,880 J	<2.12 UJ	19.2 J	<2.28 UJ	<9.56 UJ	3,160 J
U4-E-09I	4/14/2022	N	BL02	UMCf	74.9 - 89.9	<0.110	<0.110	<0.120	<0.161	1.24 J	<0.106	<0.787	<0.114	<0.478	<11.3
U4-E-09I	6/10/2024	N	EM20	UMCf	74.9 - 89.9	<2.20	<2.20	<2.40	<3.22	381	<2.12	<15.7	<2.28	<9.56	418 J
U4-E-09I	6/10/2024	FD	EM20	UMCf	74.9 - 89.9	<2.20	<2.20	<2.40	<3.22	338	<2.12	<15.7	<2.28	<9.56	374 J
U4-E-09I	9/26/2024	N	EM21	UMCf	74.9 - 89.9	<2.20	<2.20	<2.40	<3.22	97.3 J	<2.12	<15.7	<2.28	9.78 J	<226
U4-E-09I	9/26/2024	FD	EM21	UMCf	74.9 - 89.9	<2.20	<2.20	<2.40	<3.22	80.4 J	<2.12	18.5 J	<2.28	<9.56	<226
U4-E-10D	4/13/2022	N	BL02	UMCf	94.5 - 109.5	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-E-10D	6/19/2024	N	EM20	UMCf	94.5 - 109.5	<1.10	<1.10	<1.20	<1.61	4,320	<1.06	11.8 J	<1.14	<4.78	1,070
U4-E-10D	9/25/2024	N	EM21	UMCf	94.5 - 109.5	<1.10	<1.10	<1.20	<1.61	<11.9	<1.06	<7.87	<1.14	<4.78	<113
U4-E-10I	4/13/2022	N	BL02	UMCf	74.2 - 89.2	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-E-10I	6/11/2024	N	EM20	UMCf	74.2 - 89.2	<11.0	<11.0	<12.0	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130
U4-E-10I	9/26/2024	N	EM21	UMCf	74.2 - 89.2	<11.0	<11.0	<12.0	<16.1	4,240	<10.6	<78.7	<11.4	<47.8	2,020 J
U4-MW-01D	4/19/2022	N	BL02	UMCf	96.7 - 106.7	<0.110	<0.110	<0.120	<0.161	3.67 J	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-01D	2/16/2023	N	EM06	UMCf	96.7 - 106.7	<1.10	<1.10	<1.20	<1.61	<11.9	<1.06	<7.87	<1.14	<4.78	<113

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone (MEK)	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-Pentanone	Acetone
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-01D	3/20/2023	N	EM07	UMCf	96.7 - 106.7	<0.110	<0.110	<0.120	<0.161	1.37 J	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-01D	6/13/2023	N	EM10	UMCf	96.7 - 106.7	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-01D	9/14/2023	N	EM13	UMCf	96.7 - 106.7	<0.110	<0.110	<0.120	<0.161	1.26 J	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-01D	12/14/2023	N	EM16	UMCf	96.7 - 106.7	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-01D	3/13/2024	N	EM19	UMCf	96.7 - 106.7	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-01D	6/18/2024	N	EM20	UMCf	96.7 - 106.7	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-01D	9/19/2024	N	EM21	UMCf	96.7 - 106.7	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-01DD	4/19/2022	N	BL02	UMCf	119.9 - 129.9	<0.110	<0.110	<0.120	<0.161	5.15 J	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-01DD	4/19/2022	FD	BL02	UMCf	119.9 - 129.9	<0.110	<0.110	<0.120	<0.161	5.81 J	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-01DD	3/15/2023	N	EM07	UMCf	119.9 - 129.9	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-01DD	6/13/2023	N	EM10	UMCf	119.9 - 129.9	<0.110	<0.110	<0.120	<0.161	2.36 J	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-01DD	9/14/2023	N	EM13	UMCf	119.9 - 129.9	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-01DD	12/15/2023	N	EM16	UMCf	119.9 - 129.9	<0.550	<0.550	<0.600	<0.805	<5.95	<0.530	<3.94	<0.570	<2.39	<56.5
U4-MW-01DD	3/12/2024	N	EM19	UMCf	119.9 - 129.9	<0.550	<0.550	<0.600	<0.805	<5.95	<0.530	<3.94	<0.570	<2.39	<56.5
U4-MW-01DD	6/18/2024	N	EM20	UMCf	119.9 - 129.9	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-01DD	9/20/2024	N	EM21	UMCf	119.9 - 129.9	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-01I	4/19/2022	N	BL02	UMCf	76.7 - 86.7	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-01I	3/20/2023	N	EM07	UMCf	76.7 - 86.7	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-01I	6/12/2023	N	EM10	UMCf	76.7 - 86.7	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787 UJ	<0.114	<0.478	<11.3
U4-MW-01I	9/14/2023	N	EM13	UMCf	76.7 - 86.7	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-01I	12/15/2023	N	EM16	UMCf	76.7 - 86.7	<5.50	<5.50	<6.00	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565
U4-MW-01I	3/13/2024	N	EM19	UMCf	76.7 - 86.7	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-01I	6/18/2024	N	EM20	UMCf	76.7 - 86.7	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-01I	9/19/2024	N	EM21	UMCf	76.7 - 86.7	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-01S	4/18/2022	N	BL02	UMCf	54.7 - 64.7	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-01S	3/15/2023	N	EM07	UMCf	54.7 - 64.7	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-01S	6/13/2023	N	EM10	UMCf	54.7 - 64.7	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-01S	9/15/2023	N	EM13	UMCf	54.7 - 64.7	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-01S	12/13/2023	N	EM16	UMCf	54.7 - 64.7	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-01S	3/13/2024	N	EM19	UMCf	54.7 - 64.7	<0.110	<0.110	<0.120	<0.161	1.51 J	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-01S	6/18/2024	N	EM20	UMCf	54.7 - 64.7	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-01S	9/20/2024	N	EM21	UMCf	54.7 - 64.7	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-02D	4/14/2022	N	BL02	UMCf	95.0 - 110.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-02D	10/11/2022	N	EM02	UMCf	95.0 - 110.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-02D	11/1/2022	N	EM03	UMCf	95.0 - 110.0	<5.50	<5.50	<6.00	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565
U4-MW-02D	12/7/2022	N	EM04	UMCf	95.0 - 110.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-02D	1/10/2023	N	EM05	UMCf	95.0 - 110.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	0.872 J	<1,130
U4-MW-02D	2/13/2023	N	EM06	UMCf	95.0 - 110.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-02D	3/17/2023	N	EM07	UMCf	95.0 - 110.0	<11.0	<11.0	<12.0	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130
U4-MW-02D	4/19/2023	N	EM08	UMCf	95.0 - 110.0	<0.550	<0.550	<0.600	<0.805	<5.95	<0.530	<3.94	<0.570	<2.39	<56.5
U4-MW-02D	5/9/2023	N	EM09	UMCf	95.0 - 110.0	<0.550	<0.550	<0.600	<0.805	<5.95	<0.530	<3.94	<0.570	<2.39	<56.5
U4-MW-02D	6/13/2023	N	EM10	UMCf	95.0 - 110.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-02D	7/18/2023	N	EM11	UMCf	95.0 - 110.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-02D	8/14/2023	N	EM12	UMCf	95.0 - 110.0	<27.5	<27.5	<30.0	<40.3	<298	<26.5	<197	<28.5	<120	<2,820
U4-MW-02D	9/11/2023	N	EM13	UMCf	95.0 - 110.0	<0.110	<0.110	<0.120	<0.161	5.69 J	<0.106	0.860 J	<0.114	<0.478	<11.3
U4-MW-02D	10/19/2023	N	EM14	UMCf	95.0 - 110.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-02D	11/15/2023	N	EM15	UMCf	95.0 - 110.0	<11.0	<11.0	<12.0	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone (MEK)	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-Pentanone	Acetone
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-02D	12/14/2023	N	EM16	UMCf	95.0 - 110.0	<11.0	<11.0	<12.0	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130
U4-MW-02D	1/25/2024	N	EM17	UMCf	95.0 - 110.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-02D	2/12/2024	N	EM18	UMCf	95.0 - 110.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-02D	3/13/2024	N	EM19	UMCf	95.0 - 110.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-02D	6/17/2024	N	EM20	UMCf	95.0 - 110.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-02D	9/23/2024	N	EM21	UMCf	95.0 - 110.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-02I	4/14/2022	N	BL02	UMCf	75.0 - 90.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-02I	10/11/2022	N	EM02	UMCf	75.0 - 90.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	11.9 J
U4-MW-02I	11/2/2022	N	EM03	UMCf	75.0 - 90.0	<1.10	<1.10	<1.20	<1.61	<11.9	<1.06	<7.87	<1.14	<4.78	<113
U4-MW-02I	11/2/2022	FD	EM03	UMCf	75.0 - 90.0	<1.10	<1.10	<1.20	<1.61	<11.9	<1.06	<7.87	<1.14	<4.78	<113
U4-MW-02I	12/8/2022	N	EM04	UMCf	75.0 - 90.0	<0.110	<0.110	<0.120	<0.161	<1.19 UJ	<0.106	<0.787	<0.114	<0.478	32.3 J
U4-MW-02I	12/8/2022	FD	EM04	UMCf	75.0 - 90.0	<0.110	<0.110	<0.120	<0.161	34.2 J	<0.106	<0.787	<0.114	<0.478	61.2
U4-MW-02I	1/13/2023	N	EM05	UMCf	75.0 - 90.0	<1.10	<1.10	<1.20	<1.61	<11.9	<1.06	<7.87	<1.14	<4.78	176 J
U4-MW-02I	1/13/2023	FD	EM05	UMCf	75.0 - 90.0	<1.10	<1.10	<1.20	<1.61	<11.9	<1.06	<7.87	<1.14	<4.78	190 J
U4-MW-02I	2/15/2023	N	EM06	UMCf	75.0 - 90.0	<1.10	<1.10	<1.20	<1.61	<11.9	<1.06	<7.87	<1.14	<4.78	<113
U4-MW-02I	2/15/2023	FD	EM06	UMCf	75.0 - 90.0	<1.10	<1.10	<1.20	<1.61	<11.9	<1.06	<7.87	<1.14	<4.78	<113
U4-MW-02I	3/17/2023	N	EM07	UMCf	75.0 - 90.0	<22.0	<22.0	<24.0	<32.2	<238	<21.2	<157	<22.8	<95.6	<2,260
U4-MW-02I	3/17/2023	FD	EM07	UMCf	75.0 - 90.0	<22.0	<22.0	<24.0	<32.2	<238	<21.2	<157	<22.8	<95.6	<2,260
U4-MW-02I	4/20/2023	N	EM08	UMCf	75.0 - 90.0	<0.110	<0.110	<0.120	<0.161	26.0	<0.106	<0.787	<0.114	<0.478	39.3 J
U4-MW-02I	4/20/2023	FD	EM08	UMCf	75.0 - 90.0	<0.110	<0.110	<0.120	<0.161	28.7	<0.106	<0.787	<0.114	<0.478	46.3 J
U4-MW-02I	5/9/2023	N	EM09	UMCf	75.0 - 90.0	<0.110	<0.110	<0.120	<0.161	21.7 J+	<0.106	<0.787	<0.114	<0.478	46.0 J
U4-MW-02I	5/9/2023	FD	EM09	UMCf	75.0 - 90.0	<0.110	<0.110	<0.120	<0.161	19.6 J+	<0.106	<0.787	<0.114	<0.478	47.8 J
U4-MW-02I	6/12/2023	N	EM10	UMCf	75.0 - 90.0	<0.110	<0.110	<0.120	<0.161	6.47 J	<0.106	<0.787 UJ	<0.114	<0.478	49.2 J
U4-MW-02I	6/12/2023	FD	EM10	UMCf	75.0 - 90.0	<0.110	<0.110	<0.120	<0.161	7.53 J	<0.106	<0.787 UJ	<0.114	<0.478	48.9 J
U4-MW-02I	7/18/2023	N	EM11	UMCf	75.0 - 90.0	<0.110	<0.110	<0.120	<0.161	24.0	<0.106	<0.787	<0.114	<0.478	32.7 J
U4-MW-02I	7/18/2023	FD	EM11	UMCf	75.0 - 90.0	<0.110	<0.110	<0.120	<0.161	26.0	<0.106	<0.787	<0.114	<0.478	35.3 J
U4-MW-02I	8/11/2023	N	EM12	UMCf	75.0 - 90.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-02I	8/11/2023	FD	EM12	UMCf	75.0 - 90.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-02I	9/11/2023	N	EM13	UMCf	75.0 - 90.0	<0.110	<0.110	<0.120	<0.161	60.9 J	<0.106	1.26 J	<0.114	0.779 J	437 J
U4-MW-02I	9/11/2023	FD	EM13	UMCf	75.0 - 90.0	<0.110	<0.110	<0.120	<0.161	36.0 J	<0.106	<0.787	<0.114	<0.478	274 J
U4-MW-02I	10/19/2023	N	EM14	UMCf	75.0 - 90.0	<0.110 UJ	<0.110 UJ	<0.120 UJ	<0.161 UJ	4.80 J	<0.106 UJ	<0.787 UJ	<0.114 UJ	<0.478 UJ	39.4 J
U4-MW-02I	10/19/2023	FD	EM14	UMCf	75.0 - 90.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	76.5 J
U4-MW-02I	11/15/2023	N	EM15	UMCf	75.0 - 90.0	<5.50	<5.50	<6.00	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565
U4-MW-02I	11/15/2023	FD	EM15	UMCf	75.0 - 90.0	<5.50	<5.50	<6.00	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565
U4-MW-02I	12/14/2023	N	EM16	UMCf	75.0 - 90.0	<5.50	<5.50	<6.00	<8.05	200 J	<5.30	<39.4	<5.70	<23.9	<565
U4-MW-02I	12/14/2023	FD	EM16	UMCf	75.0 - 90.0	<5.50	<5.50	<6.00	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565
U4-MW-02I	1/25/2024	N	EM17	UMCf	75.0 - 90.0	<0.110	<0.110	<0.120	<0.161	38.1	<0.106	<0.787	<0.114	<0.478	469 J
U4-MW-02I	1/25/2024	FD	EM17	UMCf	75.0 - 90.0	<0.110	<0.110	<0.120	<0.161	39.7	<0.106	<0.787	<0.114	<0.478	506 J
U4-MW-02I	2/12/2024	N	EM18	UMCf	75.0 - 90.0	<0.110	<0.110	<0.120	<0.161	39.0	<0.106	<0.787	<0.114	<0.478	291
U4-MW-02I	2/12/2024	FD	EM18	UMCf	75.0 - 90.0	<0.110	<0.110	<0.120	<0.161	41.6	<0.106	<0.787	<0.114	<0.478	311
U4-MW-02I	3/13/2024	N	EM19	UMCf	75.0 - 90.0	<0.110	<0.110	<0.120	<0.161	38.6	<0.106	<0.787	<0.114	<0.478	263
U4-MW-02I	3/13/2024	FD	EM19	UMCf	75.0 - 90.0	<0.110	<0.110	<0.120	<0.161	44.7	<0.106	<0.787	<0.114	<0.478	297
U4-MW-02I	6/17/2024	N	EM20	UMCf	75.0 - 90.0	<5.50	<5.50	<6.00	<8.05	676 J+	<5.30	<39.4	<5.70	<23.9	4,440 J+
U4-MW-02I	6/17/2024	FD	EM20	UMCf	75.0 - 90.0	<5.50	<5.50	<6.00	<8.05	605 J+	<5.30	<39.4	<5.70	<23.9	4,130 J+
U4-MW-02I	9/23/2024	N	EM21	UMCf	75.0 - 90.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-02I	9/23/2024	FD	EM21	UMCf	75.0 - 90.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-03D	4/20/2022	N	BL02	UMCf	96.6 - 106.6	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone (MEK)	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-Pentanone	Acetone
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-03D	2/16/2023	N	EM06	UMCf	96.6 - 106.6	<0.550	<0.550	<0.600	<0.805	<5.95	<0.530	<3.94	<0.570	<2.39	<56.5
U4-MW-03D	3/16/2023	N	EM07	UMCf	96.6 - 106.6	<2.20	<2.20	<2.40	<3.22	<23.8	<2.12	<15.7	<2.28	<9.56	<226
U4-MW-03D	3/16/2023	FD	EM07	UMCf	96.6 - 106.6	<0.550	<0.550	<0.600	<0.805	<5.95	<0.530	<3.94	<0.570	<2.39	<56.5
U4-MW-03D	6/15/2023	N	EM10	UMCf	96.6 - 106.6	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-03D	9/14/2023	N	EM13	UMCf	96.6 - 106.6	<0.110	<0.110	<0.120	<0.161	1.43 J	<0.106	<0.787	<0.114	<0.478	13.4 J
U4-MW-03D	12/13/2023	N	EM16	UMCf	96.6 - 106.6	<0.110	<0.110	<0.120	<0.161	97.4	<0.106	<0.787	<0.114	<0.478	236 J
U4-MW-03D	3/15/2024	N	EM19	UMCf	96.6 - 106.6	<0.110	<0.110	<0.120	<0.161	46.8	<0.106	<0.787	<0.114	<0.478	263
U4-MW-03D	6/17/2024	N	EM20	UMCf	96.6 - 106.6	<5.50	<5.50	<6.00	<8.05	101 J	<5.30	<39.4	<5.70	<23.9	593 J
U4-MW-03D	9/18/2024	N	EM21	UMCf	96.6 - 106.6	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	16.9 J
U4-MW-03DD	4/20/2022	N	BL02	UMCf	119.7 - 129.7	<0.110	<0.110	<0.120	<0.161	3.03 J	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-03DD	3/15/2023	N	EM07	UMCf	119.7 - 129.7	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-03DD	6/15/2023	N	EM10	UMCf	119.7 - 129.7	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-03DD	9/14/2023	N	EM13	UMCf	119.7 - 129.7	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-03DD	12/14/2023	N	EM16	UMCf	119.7 - 129.7	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-03DD	3/14/2024	N	EM19	UMCf	119.7 - 129.7	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-03DD	6/17/2024	N	EM20	UMCf	119.7 - 129.7	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-03DD	9/18/2024	N	EM21	UMCf	119.7 - 129.7	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-03I	4/19/2022	N	BL02	UMCf	76.6 - 86.6	<0.110	<0.110	<0.120	<0.161	17.3	<0.106	1.71 J	<0.114	<0.478	<11.3
U4-MW-03I	3/15/2023	N	EM07	UMCf	76.6 - 86.6	<0.110	<0.110	<0.120	<0.161	9.75 J	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-03I	6/14/2023	N	EM10	UMCf	76.6 - 86.6	<2.20	<2.20	<2.40	<3.22	<23.8	<2.12	<15.7	<2.28	<9.56	<226
U4-MW-03I	6/14/2023	FD	EM10	UMCf	76.6 - 86.6	<2.75	<2.75	<3.00	<4.03	<29.8	<2.65	<19.7	<2.85	<12.0	<282
U4-MW-03I	9/11/2023	N	EM13	UMCf	76.6 - 86.6	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-03I	9/11/2023	FD	EM13	UMCf	76.6 - 86.6	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-03I	12/13/2023	N	EM16	UMCf	76.6 - 86.6	<0.110	<0.110	<0.120	<0.161	16.8	<0.106	<0.787	<0.114	<0.478	63.3
U4-MW-03I	12/13/2023	FD	EM16	UMCf	76.6 - 86.6	<0.110	<0.110	<0.120	<0.161	15.4	<0.106	<0.787	<0.114	<0.478	59.2
U4-MW-03I	3/14/2024	N	EM19	UMCf	76.6 - 86.6	<5.50	<5.50	<6.00	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565
U4-MW-03I	3/14/2024	FD	EM19	UMCf	76.6 - 86.6	<5.50	<5.50	<6.00	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565
U4-MW-03I	6/19/2024	N	EM20	UMCf	76.6 - 86.6	<5.50	<5.50	<6.00	<8.05	137 J	<5.30	<39.4	<5.70	<23.9	680 J
U4-MW-03I	6/19/2024	FD	EM20	UMCf	76.6 - 86.6	<5.50	<5.50	<6.00	<8.05	147 J	<5.30	<39.4	<5.70	<23.9	728 J
U4-MW-03I	9/20/2024	N	EM21	UMCf	76.6 - 86.6	<0.550	<0.550	<0.600	<0.805	9.51 J	<0.530	<3.94	<0.570	<2.39	57.7 J
U4-MW-03I	9/20/2024	FD	EM21	UMCf	76.6 - 86.6	<0.110	<0.110	<0.120	<0.161	8.12 J	<0.106	<0.787	<0.114	<0.478	27.3 J
U4-MW-03S	4/18/2022	N	BL02	UMCf	54.5 - 64.5	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-03S	4/18/2022	FD	BL02	UMCf	54.5 - 64.5	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-03S	3/15/2023	N	EM07	UMCf	54.5 - 64.5	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-03S	6/15/2023	N	EM10	UMCf	54.5 - 64.5	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-03S	9/14/2023	N	EM13	UMCf	54.5 - 64.5	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-03S	12/13/2023	N	EM16	UMCf	54.5 - 64.5	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-03S	3/14/2024	N	EM19	UMCf	54.5 - 64.5	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-03S	6/14/2024	N	EM20	UMCf	54.5 - 64.5	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-03S	9/18/2024	N	EM21	UMCf	54.5 - 64.5	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-04D	4/19/2022	N	BL02	UMCf	97.0 - 107.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-04D	2/16/2023	N	EM06	UMCf	97.0 - 107.0	<5.50	<5.50	<6.00	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565
U4-MW-04D	3/21/2023	N	EM07	UMCf	97.0 - 107.0	<0.110	<0.110	<0.120	<0.161	2.95 J	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-04D	6/14/2023	N	EM10	UMCf	97.0 - 107.0	<0.110	<0.110	<0.120	<0.161	20.6	<0.106	<0.787	<0.114	<0.478	86.7 J+
U4-MW-04D	9/15/2023	N	EM13	UMCf	97.0 - 107.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	21.3 J
U4-MW-04D	12/12/2023	N	EM16	UMCf	97.0 - 107.0	<0.110	<0.110	<0.120	<0.161	54.9 J	<0.106	<0.787	<0.114	<0.478	291 J+
U4-MW-04D	3/12/2024	N	EM19	UMCf	97.0 - 107.0	<5.50	<5.50	<6.00	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone (MEK)	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-Pentanone	Acetone
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-04D	6/19/2024	N	EM20	UMCf	97.0 - 107.0	<5.50	<5.50	<6.00	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565
U4-MW-04D	9/24/2024	N	EM21	UMCf	97.0 - 107.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-04I	4/19/2022	N	BL02	UMCf	76.8 - 86.8	<0.110	<0.110	<0.120	<0.161	2.71 J	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-04I	3/20/2023	N	EM07	UMCf	76.8 - 86.8	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-04I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<0.550	<0.550	<0.600	<0.805	23.3 J	<0.530	<3.94	<0.570	<2.39	87.0 J
U4-MW-04I	9/14/2023	N	EM13	UMCf	76.8 - 86.8	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-04I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	<0.110	<0.110	<0.120	<0.161	39.6 J	<0.106	<0.787	<0.114	<0.478	272 J+
U4-MW-04I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	<22.0	<22.0	<24.0	<32.2	<238	<21.2	<157	<22.8	<95.6	<2,260
U4-MW-04I	6/18/2024	N	EM20	UMCf	76.8 - 86.8	<0.550	<0.550	<0.600	<0.805	<5.95	<0.530	<3.94	<0.570	<2.39	<56.5
U4-MW-04I	9/24/2024	N	EM21	UMCf	76.8 - 86.8	<0.110	<0.110	<0.120	<0.161	1.41 J	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-05D	4/15/2022	N	BL02	UMCf	98.2 - 108.2	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-05D	10/13/2022	N	EM02	UMCf	98.2 - 108.2	<11.0	<11.0	<12.0	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130
U4-MW-05D	11/3/2022	N	EM03	UMCf	98.2 - 108.2	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-05D	12/7/2022	N	EM04	UMCf	98.2 - 108.2	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-05D	1/11/2023	N	EM05	UMCf	98.2 - 108.2	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	16.9 J
U4-MW-05D	2/14/2023	N	EM06	UMCf	98.2 - 108.2	<11.0	<11.0	<12.0	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130
U4-MW-05D	3/16/2023	N	EM07	UMCf	98.2 - 108.2	<11.0	<11.0	<12.0	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130
U4-MW-05D	4/20/2023	N	EM08	UMCf	98.2 - 108.2	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-05D	5/10/2023	N	EM09	UMCf	98.2 - 108.2	<0.110	<0.110	<0.120	<0.161	35.3	<0.106	<0.787	<0.114	<0.478	80.9
U4-MW-05D	6/15/2023	N	EM10	UMCf	98.2 - 108.2	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	103
U4-MW-05D	7/18/2023	N	EM11	UMCf	98.2 - 108.2	<0.110	<0.110	<0.120	<0.161	1.80 J	<0.106	<0.787	<0.114	<0.478	50.4
U4-MW-05D	8/14/2023	N	EM12	UMCf	98.2 - 108.2	<2.75	<2.75	<3.00	<4.03	30.9 J	<2.65	<19.7	<2.85	<12.0	311 J
U4-MW-05D	9/12/2023	N	EM13	UMCf	98.2 - 108.2	<2.75	<2.75	<3.00	<4.03	<29.8	<2.65	<19.7	<2.85	<12.0	<282
U4-MW-05D	10/18/2023	N	EM14	UMCf	98.2 - 108.2	<2.75	<2.75	<3.00	<4.03	<29.8	<2.65	<19.7	<2.85	<12.0	<282
U4-MW-05D	11/16/2023	N	EM15	UMCf	98.2 - 108.2	<2.75	<2.75	<3.00	<4.03	<29.8	<2.65	<19.7	<2.85	<12.0	<282
U4-MW-05D	12/14/2023	N	EM16	UMCf	98.2 - 108.2	<2.75	<2.75	<3.00	<4.03	<29.8	<2.65	<19.7	<2.85	<12.0	<282
U4-MW-05D	1/26/2024	N	EM17	UMCf	98.2 - 108.2	<0.110	<0.110	<0.120 UJ	<0.161	97.6	<0.106	<0.787	<0.114	2.18 J	587
U4-MW-05D	2/14/2024	N	EM18	UMCf	98.2 - 108.2	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	4.70	1,480
U4-MW-05D	3/12/2024	N	EM19	UMCf	98.2 - 108.2	<2.75	<2.75	<3.00	<4.03	203 J	<2.65	<19.7	<2.85	<12.0	1,110 J
U4-MW-05D	6/18/2024	N	EM20	UMCf	98.2 - 108.2	<0.110	<0.110	<0.120	<0.161	132	<0.106	<0.787	<0.114	1.77 J	912 J+
U4-MW-05D	9/25/2024	N	EM21	UMCf	98.2 - 108.2	<5.50 UJ	<5.50 UJ	<6.00 UJ	<8.05 UJ	125 J	<5.30 UJ	<39.4 UJ	<5.70 UJ	<23.9 UJ	632 J
U4-MW-05I	4/15/2022	N	BL02	UMCf	76.6 - 86.6	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-05I	10/13/2022	N	EM02	UMCf	76.6 - 86.6	<11.0	<11.0	<12.0	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130
U4-MW-05I	11/3/2022	N	EM03	UMCf	76.6 - 86.6	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-05I	12/8/2022	N	EM04	UMCf	76.6 - 86.6	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-05I	1/11/2023	N	EM05	UMCf	76.6 - 86.6	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-05I	2/14/2023	N	EM06	UMCf	76.6 - 86.6	<11.0	<11.0	<12.0	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130
U4-MW-05I	3/14/2023	N	EM07	UMCf	76.6 - 86.6	<11.0	<11.0	<12.0	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130
U4-MW-05I	4/21/2023	N	EM08	UMCf	76.6 - 86.6	<0.110	<0.110	<0.120	<0.161	14.3	<0.106	<0.787	<0.114	<0.478	23.4 J
U4-MW-05I	5/10/2023	N	EM09	UMCf	76.6 - 86.6	<0.110	<0.110	<0.120	<0.161	89.2	<0.106	<0.787	<0.114	<0.478	44.0 J
U4-MW-05I	6/15/2023	N	EM10	UMCf	76.6 - 86.6	<0.110	<0.110	<0.120	<0.161	78.9	<0.106	<0.787	<0.114	<0.478	76.6
U4-MW-05I	7/17/2023	N	EM11	UMCf	76.6 - 86.6	<0.110	<0.110	<0.120	<0.161	212	<0.106	<0.787	<0.114	<0.478	51.1
U4-MW-05I	8/14/2023	N	EM12	UMCf	76.6 - 86.6	<5.50	<5.50	<6.00	<8.05	92.4 J	<5.30	<39.4	<5.70	<23.9	<565
U4-MW-05I	9/13/2023	N	EM13	UMCf	76.6 - 86.6	<0.110	<0.110	<0.120	<0.161	42.3	<0.106	4.26 J	<0.114	<0.478	103
U4-MW-05I	10/18/2023	N	EM14	UMCf	76.6 - 86.6	<5.50	<5.50	<6.00	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565
U4-MW-05I	11/15/2023	N	EM15	UMCf	76.6 - 86.6	<5.50	<5.50	<6.00	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565
U4-MW-05I	12/12/2023	N	EM16	UMCf	76.6 - 86.6	<0.110	<0.110	<0.120	<0.161	66.7 J	<0.106	<0.787	<0.114	<0.478	469 J+

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone (MEK)	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-Pentanone	Acetone
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-05I	1/26/2024	N	EM17	UMCf	76.6 - 86.6	<0.110	<0.110	<0.120 UJ	<0.161	332	<0.106	4.06 J	<0.114	2.47 J	2,320
U4-MW-05I	2/14/2024	N	EM18	UMCf	76.6 - 86.6	<0.110	<0.110	<0.120	<0.161	317	<0.106	5.18	<0.114	3.17	1,770
U4-MW-05I	3/11/2024	N	EM19	UMCf	76.6 - 86.6	<0.110	<0.110	<0.120	<0.161	202	<0.106	2.53 J	<0.114	2.85 J	1,030 J
U4-MW-05I	6/18/2024	N	EM20	UMCf	76.6 - 86.6	<0.110	<0.110	<0.120	<0.161	70.1	<0.106	6.12 J	<0.114	1.53 J	275
U4-MW-05I	9/25/2024	N	EM21	UMCf	76.6 - 86.6	<11.0	<11.0	<12.0	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130
U4-MW-06D	4/19/2022	N	BL02	UMCf	97.1 - 107.1	<0.110	<0.110	<0.120	<0.161	4.05 J	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-06D	2/15/2023	N	EM06	UMCf	97.1 - 107.1	<5.50	<5.50	<6.00	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565
U4-MW-06D	3/21/2023	N	EM07	UMCf	97.1 - 107.1	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-06D	6/16/2023	N	EM10	UMCf	97.1 - 107.1	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-06D	9/13/2023	N	EM13	UMCf	97.1 - 107.1	<0.110	<0.110	<0.120	<0.161	55.5	<0.106	<0.787 UJ	<0.114	<0.478	200
U4-MW-06D	12/13/2023	N	EM16	UMCf	97.1 - 107.1	<0.110	<0.110	<0.120	<0.161	52.9	<0.106	<0.787	<0.114	<0.478	231 J
U4-MW-06D	3/14/2024	N	EM19	UMCf	97.1 - 107.1	<5.50	<5.50	<6.00	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565
U4-MW-06D	6/12/2024	N	EM20	UMCf	97.1 - 107.1	<0.110	<0.110	<0.120	<0.161	208	<0.106	<0.787	<0.114	<0.478	1,610
U4-MW-06D	9/20/2024	N	EM21	UMCf	97.1 - 107.1	<1.10	<1.10	<1.20	<1.61	450	<1.06	<7.87	<1.14	<4.78	3,550
U4-MW-06I	4/19/2022	N	BL02	UMCf	76.5 - 86.5	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-06I	3/14/2023	N	EM07	UMCf	76.5 - 86.5	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-06I	6/16/2023	N	EM10	UMCf	76.5 - 86.5	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-06I	9/12/2023	N	EM13	UMCf	76.5 - 86.5	<5.50	<5.50	<6.00	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565
U4-MW-06I	12/12/2023	N	EM16	UMCf	76.5 - 86.5	<0.110	<0.110	<0.120	<0.161	29.3 J	<0.106	<0.787	<0.114	<0.478	268 J+
U4-MW-06I	3/14/2024	N	EM19	UMCf	76.5 - 86.5	<11.0	<11.0	<12.0	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130
U4-MW-06I	6/11/2024	N	EM20	UMCf	76.5 - 86.5	<0.110	<0.110	<0.120	<0.161	191	<0.106	1.66 J	<0.114	1.14 J	2,020
U4-MW-06I	9/20/2024	N	EM21	UMCf	76.5 - 86.5	<2.75	<2.75	<3.00	<4.03	<29.8	<2.65	<19.7	<2.85	<12.0	<282
U4-MW-07D	4/15/2022	N	BL02	UMCf	96.8 - 106.5	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-07D	10/12/2022	N	EM02	UMCf	96.8 - 106.5	<0.110	<0.110	<0.120	<0.161	1.20 J	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-07D	10/12/2022	FD	EM02	UMCf	96.8 - 106.5	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-07D	11/3/2022	N	EM03	UMCf	96.8 - 106.5	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-07D	12/7/2022	N	EM04	UMCf	96.8 - 106.5	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-07D	1/11/2023	N	EM05	UMCf	96.8 - 106.5	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-07D	2/14/2023	N	EM06	UMCf	96.8 - 106.5	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-07D	3/16/2023	N	EM07	UMCf	96.8 - 106.5	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-07D	4/21/2023	N	EM08	UMCf	96.8 - 106.5	<0.110	<0.110	<0.120	<0.161	18.5	<0.106	<0.787	<0.114	<0.478	23.4 J
U4-MW-07D	5/11/2023	N	EM09	UMCf	96.8 - 106.5	<0.110	<0.110	<0.120	<0.161	142	<0.106	<0.787	<0.114	<0.478	314
U4-MW-07D	6/13/2023	N	EM10	UMCf	96.8 - 106.5	<0.110 UJ	<0.110 UJ	<0.120 UJ	<0.161 UJ	85.0 J	<0.106 UJ	<0.787 UJ	<0.114 UJ	<0.478 UJ	176 J
U4-MW-07D	7/17/2023	N	EM11	UMCf	96.8 - 106.5	<0.110	<0.110	<0.120	<0.161	16.0	<0.106	<0.787	<0.114	<0.478	77.4
U4-MW-07D	8/11/2023	N	EM12	UMCf	96.8 - 106.5	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	203
U4-MW-07D	9/13/2023	N	EM13	UMCf	96.8 - 106.5	<0.110	<0.110	<0.120	<0.161	125	<0.106	<0.787 UJ	<0.114	<0.478	970
U4-MW-07D	10/18/2023	N	EM14	UMCf	96.8 - 106.5	<11.0	<11.0	<12.0	<16.1	161 J	<10.6	<78.7	<11.4	<47.8	1,170 J
U4-MW-07D	11/16/2023	N	EM15	UMCf	96.8 - 106.5	<11.0	<11.0	<12.0	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130
U4-MW-07D	12/12/2023	N	EM16	UMCf	96.8 - 106.5	<0.110	<0.110	<0.120	<0.161	74.5 J	<0.106	<0.787	<0.114	<0.478	491 J+
U4-MW-07D	1/26/2024	N	EM17	UMCf	96.8 - 106.5	<0.110	<0.110	<0.120 UJ	<0.161	56.9	<0.106	<0.787	<0.114	<0.478	389
U4-MW-07D	2/13/2024	N	EM18	UMCf	96.8 - 106.5	<2.75	<2.75	<3.00	<4.03	<29.8	<2.65	<19.7	<2.85	<12.0	<282
U4-MW-07D	3/11/2024	N	EM19	UMCf	96.8 - 106.5	<2.75	<2.75	<3.00	<4.03	66.2 J	<2.65	<19.7	<2.85	<12.0	<282
U4-MW-07D	6/12/2024	N	EM20	UMCf	96.8 - 106.5	<0.110	<0.110	<0.120	<0.161	331	<0.106	<0.787	<0.114	<0.478	228
U4-MW-07D	9/18/2024	N	EM21	UMCf	96.8 - 106.5	<0.110	<0.110	<0.120	<0.161	665	<0.106	2.35 J	<0.114	1.51 J	904 J
U4-MW-07I	4/15/2022	N	BL02	UMCf	76.8 - 86.8	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-07I	10/12/2022	N	EM02	UMCf	76.8 - 86.8	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-07I	11/3/2022	N	EM03	UMCf	76.8 - 86.8	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone (MEK)	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-Pentanone	Acetone
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-07I	12/7/2022	N	EM04	UMCf	76.8 - 86.8	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-07I	1/11/2023	N	EM05	UMCf	76.8 - 86.8	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-07I	2/15/2023	N	EM06	UMCf	76.8 - 86.8	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-07I	3/16/2023	N	EM07	UMCf	76.8 - 86.8	<0.550	<0.550	<0.600	<0.805	<5.95	<0.530	<3.94	<0.570	<2.39	<56.5
U4-MW-07I	4/21/2023	N	EM08	UMCf	76.8 - 86.8	<0.110	<0.110	<0.120	<0.161	17.3	<0.106	<0.787	<0.114	<0.478	62.0
U4-MW-07I	5/11/2023	N	EM09	UMCf	76.8 - 86.8	<0.110	<0.110	<0.120	<0.161	5.24 J	<0.106	<0.787	<0.114	<0.478	12.2 J
U4-MW-07I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<0.550	<0.550	<0.600	<0.805	14.9 J	<0.530	<3.94	<0.570	<2.39	<56.5
U4-MW-07I	7/17/2023	N	EM11	UMCf	76.8 - 86.8	<0.110	<0.110	<0.120	<0.161	14.7	<0.106	<0.787	<0.114	<0.478	15.2 J
U4-MW-07I	8/11/2023	N	EM12	UMCf	76.8 - 86.8	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	201
U4-MW-07I	9/13/2023	N	EM13	UMCf	76.8 - 86.8	<0.110	<0.110	<0.120	<0.161	117	<0.106	3.53 J	<0.114	<0.478	780
U4-MW-07I	10/18/2023	N	EM14	UMCf	76.8 - 86.8	<5.50	<5.50	<6.00	<8.05	150 J	<5.30	<39.4	<5.70	<23.9	894 J
U4-MW-07I	11/16/2023	N	EM15	UMCf	76.8 - 86.8	<5.50	<5.50	<6.00	<8.05	135 J	<5.30	<39.4	<5.70	<23.9	705 J
U4-MW-07I	12/11/2023	N	EM16	UMCf	76.8 - 86.8	<0.110	<0.110	<0.120	<0.161	68.0	<0.106	<0.787 UJ	<0.114	<0.478	521
U4-MW-07I	1/26/2024	N	EM17	UMCf	76.8 - 86.8	<0.110	<0.110	<0.120 UJ	<0.161	56.2	<0.106	<0.787	<0.114	<0.478	443
U4-MW-07I	2/13/2024	N	EM18	UMCf	76.8 - 86.8	<5.50	<5.50	<6.00	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565
U4-MW-07I	3/11/2024	N	EM19	UMCf	76.8 - 86.8	<5.50	<5.50	<6.00	<8.05	227 J	<5.30	<39.4	<5.70	<23.9	1,020 J
U4-MW-07I	6/12/2024	N	EM20	UMCf	76.8 - 86.8	<0.110	<0.110	<0.120	<0.161	444	<0.106	3.78 J	<0.114	3.54 J	483
U4-MW-07I	9/18/2024	N	EM21	UMCf	76.8 - 86.8	<0.110	<0.110	<0.120	<0.161	941 J	<0.106	6.94 J	<0.114	2.36 J	895 J
U4-MW-08D	4/13/2022	N	BL02	UMCf	98.6 - 108.6	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-08D	12/7/2022	N	EM04	UMCf	98.6 - 108.6	<0.110	<0.110	<0.120	<0.161	11.7 J+	<0.106	<0.787	<0.114	<0.478	39.5 J
U4-MW-08D	3/17/2023	N	EM07	UMCf	98.6 - 108.6	<11.0	<11.0	<12.0	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130
U4-MW-08D	6/13/2023	N	EM10	UMCf	98.6 - 108.6	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-08D	9/13/2023	N	EM13	UMCf	98.6 - 108.6	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787 UJ	<0.114	<0.478	<11.3
U4-MW-08D	12/11/2023	N	EM16	UMCf	98.6 - 108.6	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787 UJ	<0.114	<0.478	<11.3
U4-MW-08D	3/12/2024	N	EM19	UMCf	98.6 - 108.6	<22.0	<22.0	<24.0	<32.2	<238	<21.2	<157	<22.8	<95.6	<2,260
U4-MW-08D	6/14/2024	N	EM20	UMCf	98.6 - 108.6	<22.0	<22.0	<24.0	<32.2	<238	<21.2	<157	<22.8	<95.6	<2,260
U4-MW-08D	9/23/2024	N	EM21	UMCf	98.6 - 108.6	<0.110	<0.110	<0.120	<0.161	2.08 J	<0.106	<0.787	<0.114	<0.478	16.5 J
U4-MW-08DD	4/20/2022	N	BL02	UMCf	119.8 - 129.8	<0.110	<0.110	<0.120	<0.161	18.7 J	<0.106	3.03 J	<0.114	<0.478	<11.3
U4-MW-08DD	4/20/2022	FD	BL02	UMCf	119.8 - 129.8	<0.110	<0.110	<0.120	<0.161	5.79 J	<0.106	1.23 J	<0.114	<0.478	<11.3
U4-MW-08DD	12/8/2022	N	EM04	UMCf	119.8 - 129.8	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-08DD	3/15/2023	N	EM07	UMCf	119.8 - 129.8	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-08DD	6/14/2023	N	EM10	UMCf	119.8 - 129.8	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-08DD	9/14/2023	N	EM13	UMCf	119.8 - 129.8	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-08DD	12/14/2023	N	EM16	UMCf	119.8 - 129.8	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-08DD	3/14/2024	N	EM19	UMCf	119.8 - 129.8	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-08DD	6/12/2024	N	EM20	UMCf	119.8 - 129.8	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-08DD	9/20/2024	N	EM21	UMCf	119.8 - 129.8	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-08I	4/13/2022	N	BL02	UMCf	78.0 - 88.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-08I	12/7/2022	N	EM04	UMCf	78.0 - 88.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-08I	12/7/2022	FD	EM04	UMCf	78.0 - 88.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-08I	3/17/2023	N	EM07	UMCf	78.0 - 88.0	<5.50	<5.50	<6.00	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565
U4-MW-08I	6/13/2023	N	EM10	UMCf	78.0 - 88.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-08I	9/13/2023	N	EM13	UMCf	78.0 - 88.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787 UJ	<0.114	<0.478	<11.3
U4-MW-08I	12/11/2023	N	EM16	UMCf	78.0 - 88.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787 UJ	<0.114	<0.478	18.2 J
U4-MW-08I	3/12/2024	N	EM19	UMCf	78.0 - 88.0	<11.0	<11.0	<12.0	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130
U4-MW-08I	6/14/2024	N	EM20	UMCf	78.0 - 88.0	<11.0	<11.0	<12.0	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130
U4-MW-08I	9/23/2024	N	EM21	UMCf	78.0 - 88.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone (MEK)	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-Pentanone	Acetone
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-08S	4/15/2022	N	BL02	UMCf	54.9 - 64.9	<0.110	<0.110	<0.120	<0.161	1.31 J	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-08S	12/7/2022	N	EM04	UMCf	54.9 - 64.9	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-08S	12/7/2022	FD	EM04	UMCf	54.9 - 64.9	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-08S	3/13/2023	N	EM07	UMCf	54.9 - 64.9	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-08S	3/13/2023	FD	EM07	UMCf	54.9 - 64.9	<0.110	<0.110	<0.120	<0.161	2.44 J	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-08S	6/13/2023	N	EM10	UMCf	54.9 - 64.9	<0.110	<0.110	<0.120	<0.161	17.6	<0.106	<0.787	<0.114	<0.478	23.2 J
U4-MW-08S	6/13/2023	FD	EM10	UMCf	54.9 - 64.9	<0.110	<0.110	<0.120	<0.161	16.5	<0.106	<0.787	<0.114	<0.478	21.4 J
U4-MW-08S	9/13/2023	N	EM13	UMCf	54.9 - 64.9	<0.110	<0.110	<0.120	<0.161	13.7	<0.106	<0.787 UJ	<0.114	<0.478	16.4 J
U4-MW-08S	9/13/2023	FD	EM13	UMCf	54.9 - 64.9	<0.110	<0.110	<0.120	<0.161	14.3	<0.106	<0.787 UJ	<0.114	<0.478	16.6 J
U4-MW-08S	12/14/2023	N	EM16	UMCf	54.9 - 64.9	<0.110	<0.110	<0.120	<0.161	44.6	<0.106	<0.787	<0.114	<0.478	31.2 J
U4-MW-08S	12/14/2023	FD	EM16	UMCf	54.9 - 64.9	<0.110	<0.110	<0.120	<0.161	44.7	<0.106	<0.787	<0.114	<0.478	32.0 J
U4-MW-08S	3/14/2024	N	EM19	UMCf	54.9 - 64.9	<0.220 UJ	<0.220 UJ	<0.240 UJ	<0.322 UJ	5.96 J	<0.212 UJ	<1.57 UJ	<0.228 UJ	<0.956 UJ	<22.6 UJ
U4-MW-08S	3/14/2024	FD	EM19	UMCf	54.9 - 64.9	<0.220 UJ	<0.220 UJ	<0.240 UJ	<0.322 UJ	6.75 J	<0.212 UJ	<1.57 UJ	<0.228 UJ	<0.956 UJ	<22.6 UJ
U4-MW-08S	3/25/2024	N	EM19	UMCf	54.9 - 64.9	<0.110	<0.110	<0.120	<0.161	32.6 J	<0.106	<0.787	<0.114	<0.478	21.8 J
U4-MW-08S	3/25/2024	FD	EM19	UMCf	54.9 - 64.9	<0.110	<0.110	<0.120	<0.161	44.9 J	<0.106	5.01 J	<0.114	<0.478	27.3 J
U4-MW-08S	6/14/2024	N	EM20	UMCf	54.9 - 64.9	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-08S	6/14/2024	FD	EM20	UMCf	54.9 - 64.9	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-08S	9/20/2024	N	EM21	UMCf	54.9 - 64.9	<0.110	<0.110	<0.120	<0.161	14.2	<0.106	<0.787	<0.114	<0.478	28.7 J
U4-MW-08S	9/20/2024	FD	EM21	UMCf	54.9 - 64.9	<0.110	<0.110	<0.120	<0.161	6.55 J	<0.106	<0.787	<0.114	<0.478	24.5 J
U4-MW-09D	4/14/2022	N	BL02	UMCf	96.9 - 106.9	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-09D	12/6/2022	N	EM04	UMCf	96.9 - 106.9	<1.10 UJ	<1.10 UJ	<1.20 UJ	<1.61 UJ	<11.9 UJ	<1.06 UJ	<7.87 UJ	<1.14 UJ	<4.78 UJ	<113 UJ
U4-MW-09D	3/16/2023	N	EM07	UMCf	96.9 - 106.9	<1.10	<1.10	<1.20	<1.61	38.2 J	<1.06	<7.87	<1.14	<4.78	287 J
U4-MW-09D	6/14/2023	N	EM10	UMCf	96.9 - 106.9	<0.110	<0.110	<0.120	<0.161	39.7	<0.106	<0.787	<0.114	<0.478	126 J+
U4-MW-09D	9/12/2023	N	EM13	UMCf	96.9 - 106.9	<0.110	<0.110	<0.120	<0.161	38.2	<0.106	<0.787	<0.114	<0.478	201
U4-MW-09D	12/15/2023	N	EM16	UMCf	96.9 - 106.9	<2.75 UJ	<2.75 UJ	<3.00 UJ	<4.03 UJ	131 J	<2.65 UJ	<19.7 UJ	<2.85 UJ	<12.0 UJ	640 J
U4-MW-09D	3/13/2024	N	EM19	UMCf	96.9 - 106.9	<0.110	<0.110	<0.120	<0.161	158	<0.106	2.58 J	<0.114	2.32 J	760
U4-MW-09D	6/13/2024	N	EM20	UMCf	96.9 - 106.9	<0.110	<0.110	<0.120	<0.161	168	<0.106	3.01 J	<0.114	5.56 J	1,310
U4-MW-09D	9/19/2024	N	EM21	UMCf	96.9 - 106.9	<0.110	<0.110	<0.120	<0.161	1.35 J	<0.106	<0.787	<0.114	1.19 J	<11.3
U4-MW-09DD	4/14/2022	N	BL02	UMCf	119.8 - 129.8	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-09DD	12/6/2022	N	EM04	UMCf	119.8 - 129.8	<0.110 UJ	<0.110 UJ	<0.120 UJ	<0.161 UJ	<1.19 UJ	<0.106 UJ	<0.787 UJ	<0.114 UJ	<0.478 UJ	<11.3 UJ
U4-MW-09DD	3/21/2023	N	EM07	UMCf	119.8 - 129.8	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478 UJ	<11.3
U4-MW-09DD	6/15/2023	N	EM10	UMCf	119.8 - 129.8	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-09DD	9/13/2023	N	EM13	UMCf	119.8 - 129.8	<0.110	<0.110	<0.120	<0.161	6.38 J	<0.106	<0.787 UJ	<0.114	<0.478	12.9 J
U4-MW-09DD	12/13/2023	N	EM16	UMCf	119.8 - 129.8	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-09DD	3/14/2024	N	EM19	UMCf	119.8 - 129.8	<0.110	<0.110	<0.120	<0.161	44.6	<0.106	2.88 J	<0.114	1.48 J	349
U4-MW-09DD	6/13/2024	N	EM20	UMCf	119.8 - 129.8	<0.110	<0.110	<0.120	<0.161	3.96 J	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-09DD	9/20/2024	N	EM21	UMCf	119.8 - 129.8	<0.110	<0.110	<0.120	<0.161	13.8	<0.106	<0.787	<0.114	<0.478	23.3 J
U4-MW-09I	4/14/2022	N	BL02	UMCf	76.8 - 86.8	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-09I	12/6/2022	N	EM04	UMCf	76.8 - 86.8	<1.10 UJ	<1.10 UJ	<1.20 UJ	<1.61 UJ	<11.9 UJ	<1.06 UJ	<7.87 UJ	<1.14 UJ	<4.78 UJ	<113 UJ
U4-MW-09I	3/16/2023	N	EM07	UMCf	76.8 - 86.8	<1.10	<1.10	<1.20	<1.61	17.2 J	<1.06	<7.87	<1.14	<4.78	<113
U4-MW-09I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<0.110	<0.110	<0.120	<0.161	3.02 J	<0.106	<0.787	<0.114	<0.478	22.0 J
U4-MW-09I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	<0.110	<0.110	<0.120	<0.161	4.54 J	<0.106	<0.787	<0.114	<0.478	32.8 J
U4-MW-09I	12/15/2023	N	EM16	UMCf	76.8 - 86.8	<2.75 UJ	<2.75 UJ	<3.00 UJ	<4.03 UJ	<29.8 UJ	<2.65 UJ	<19.7 UJ	<2.85 UJ	<12.0 UJ	<282 UJ
U4-MW-09I	3/13/2024	N	EM19	UMCf	76.8 - 86.8	<0.110	<0.110	<0.120	<0.161	79.9	<0.106	1.07 J	<0.114	3.12 J	465
U4-MW-09I	6/13/2024	N	EM20	UMCf	76.8 - 86.8	<0.110	<0.110	<0.120	<0.161	17.8	<0.106	<0.787	<0.114	2.53 J	72.4
U4-MW-09I	9/19/2024	N	EM21	UMCf	76.8 - 86.8	<0.110	<0.110	<0.120	<0.161	2.88 J	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-09S	4/14/2022	N	BL02	UMCf	55.3 - 65.3	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone (MEK)	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-Pentanone	Acetone
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-09S	12/6/2022	N	EM04	UMCf	55.3 - 65.3	<0.110 UJ	<0.110 UJ	<0.120 UJ	<0.161 UJ	<1.19 UJ	<0.106 UJ	<0.787 UJ	<0.114 UJ	<0.478 UJ	<11.3 UJ
U4-MW-09S	3/17/2023	N	EM07	UMCf	55.3 - 65.3	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-09S	6/15/2023	N	EM10	UMCf	55.3 - 65.3	<0.110	<0.110	<0.120	<0.161	151	<0.106	<0.787	<0.114	<0.478	26.0 J
U4-MW-09S	9/13/2023	N	EM13	UMCf	55.3 - 65.3	<0.110	<0.110	<0.120	<0.161	164	<0.106	<0.787 UJ	<0.114	<0.478	85.5
U4-MW-09S	12/12/2023	N	EM16	UMCf	55.3 - 65.3	<0.110	<0.110	<0.120	<0.161	85.6 J	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-09S	3/13/2024	N	EM19	UMCf	55.3 - 65.3	<0.110	<0.110	<0.120	<0.161	783	<0.106	<0.787	<0.114	<0.478	184
U4-MW-09S	6/13/2024	N	EM20	UMCf	55.3 - 65.3	<0.110	<0.110	<0.120	<0.161	22.5	<0.106	<0.787	<0.114	0.928 J	28.7 J
U4-MW-09S	9/19/2024	N	EM21	UMCf	55.3 - 65.3	<0.110	<0.110	<0.120	<0.161	19.3	<0.106	2.63 J	<0.114	0.957 J	35.0 J
U4-MW-10D	4/14/2022	N	BL02	UMCf	96.9 - 106.9	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-10D	12/5/2022	N	EM04	UMCf	96.9 - 106.9	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-10D	3/17/2023	N	EM07	UMCf	96.9 - 106.9	<0.110	<0.110	<0.120	<0.161	27.8	<0.106	<0.787	<0.114	<0.478	45.7 J
U4-MW-10D	6/14/2023	N	EM10	UMCf	96.9 - 106.9	<0.110	<0.110	<0.120	<0.161	20.5	<0.106	<0.787	<0.114	<0.478	74.4 J+
U4-MW-10D	9/13/2023	N	EM13	UMCf	96.9 - 106.9	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787 UJ	<0.114	<0.478	<11.3
U4-MW-10D	12/14/2023	N	EM16	UMCf	96.9 - 106.9	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-10D	3/14/2024	N	EM19	UMCf	96.9 - 106.9	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-10D	6/11/2024	N	EM20	UMCf	96.9 - 106.9	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-10D	9/26/2024	N	EM21	UMCf	96.9 - 106.9	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-10I	4/14/2022	N	BL02	UMCf	77.1 - 87.1	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-10I	12/5/2022	N	EM04	UMCf	77.1 - 87.1	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-10I	3/17/2023	N	EM07	UMCf	77.1 - 87.1	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-10I	6/14/2023	N	EM10	UMCf	77.1 - 87.1	<0.110	<0.110	<0.120	<0.161	61.6	<0.106	<0.787	<0.114	<0.478	90.1 J+
U4-MW-10I	9/13/2023	N	EM13	UMCf	77.1 - 87.1	<0.110	<0.110	<0.120	<0.161	11.4	<0.106	<0.787 UJ	<0.114	<0.478	29.0 J
U4-MW-10I	12/14/2023	N	EM16	UMCf	77.1 - 87.1	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-10I	3/13/2024	N	EM19	UMCf	77.1 - 87.1	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-10I	6/11/2024	N	EM20	UMCf	77.1 - 87.1	<0.110	<0.110	<0.120	<0.161	1.59 J	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-10I	9/25/2024	N	EM21	UMCf	77.1 - 87.1	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-11D	4/15/2022	N	BL02	UMCf	97.4 - 107.4	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-11D	9/26/2022	N	EM01	UMCf	97.4 - 107.4	<5.50	<5.50	<6.00	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565
U4-MW-11D	10/11/2022	N	EM02	UMCf	97.4 - 107.4	<1.10	<1.10	<1.20	<1.61	<11.9	<1.06	<7.87	<1.14	<4.78	<113
U4-MW-11D	11/1/2022	N	EM03	UMCf	97.4 - 107.4	<5.50	<5.50	<6.00	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565
U4-MW-11D	12/6/2022	N	EM04	UMCf	97.4 - 107.4	<2.75 UJ	<2.75 UJ	<3.00 UJ	<4.03 UJ	88.4 J	<2.65 UJ	<19.7 UJ	<2.85 UJ	<12.0 UJ	<282 UJ
U4-MW-11D	1/12/2023	N	EM05	UMCf	97.4 - 107.4	<22.0	<22.0	<24.0	<32.2	<238	<21.2	<157	<22.8	<95.6	<2,260
U4-MW-11D	2/14/2023	N	EM06	UMCf	97.4 - 107.4	<22.0	<22.0	<24.0	<32.2	<238	<21.2	<157	<22.8	<95.6	<2,260
U4-MW-11D	3/16/2023	N	EM07	UMCf	97.4 - 107.4	<22.0	<22.0	<24.0	<32.2	<238	<21.2	<157	<22.8	<95.6	<2,260
U4-MW-11D	4/18/2023	N	EM08	UMCf	97.4 - 107.4	<0.550	<0.550	<0.600	<0.805	<5.95	<0.530	<3.94	<0.570	<2.39	<56.5
U4-MW-11D	5/17/2023	N	EM09	UMCf	97.4 - 107.4	<2.20 UJ	<2.20 UJ	<2.40 UJ	<3.22 UJ	<23.8 UJ	<2.12 UJ	<15.7 UJ	<2.28 UJ	<9.56 UJ	<226 UJ
U4-MW-11D	6/16/2023	N	EM10	UMCf	97.4 - 107.4	<0.110	<0.110	<0.120	<0.161	2.53 J	<0.106	<0.787	<0.114	<0.478	16.9 J
U4-MW-11D	7/14/2023	N	EM11	UMCf	97.4 - 107.4	<0.110	<0.110	<0.120	<0.161	2.58 J	<0.106	<0.787	<0.114	<0.478	11.4 J
U4-MW-11D	8/14/2023	N	EM12	UMCf	97.4 - 107.4	<22.0	<22.0	<24.0	<32.2	<238	<21.2	<157	<22.8	<95.6	<2,260
U4-MW-11D	9/13/2023	N	EM13	UMCf	97.4 - 107.4	<0.110	<0.110	<0.120	<0.161	10.4	<0.106	<0.787 UJ	<0.114	<0.478	158
U4-MW-11D	10/18/2023	N	EM14	UMCf	97.4 - 107.4	<22.0	<22.0	<24.0	<32.2	<238	<21.2	<157	<22.8	<95.6	<2,260
U4-MW-11D	11/16/2023	N	EM15	UMCf	97.4 - 107.4	<5.50	<5.50	<6.00	<8.05	92.3 J	<5.30	<39.4	<5.70	<23.9	736 J
U4-MW-11D	12/13/2023	N	EM16	UMCf	97.4 - 107.4	<0.110	<0.110	<0.120	<0.161	117	<0.106	<0.787	<0.114	<0.478	<565
U4-MW-11D	1/25/2024	N	EM17	UMCf	97.4 - 107.4	<0.110	<0.110	<0.120	<0.161	118	<0.106	<0.787	<0.114	<0.478	855 J
U4-MW-11D	2/14/2024	N	EM18	UMCf	97.4 - 107.4	<0.110	<0.110	<0.120	<0.161	96.3	<0.106	<0.787	<0.114	<0.478	592
U4-MW-11D	3/12/2024	N	EM19	UMCf	97.4 - 107.4	<11.0	<11.0	<12.0	<16.1	121 J	<10.6	<78.7	<11.4	<47.8	<1,130
U4-MW-11D	6/12/2024	N	EM20	UMCf	97.4 - 107.4	<0.110	<0.110	<0.120	<0.161	6.96 J	<0.106	<0.787	<0.114	<0.478	17.6 J

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone (MEK)	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-Pentanone	Acetone
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-11D	9/23/2024	N	EM21	UMCf	97.4 - 107.4	<0.110	<0.110	<0.120	<0.161	20.5	<0.106	<0.787	<0.114	<0.478	82.3
U4-MW-11I	4/14/2022	N	BL02	UMCf	77.0 - 87.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-11I	9/26/2022	N	EM01	UMCf	77.0 - 87.0	<0.110	<0.110	<0.120	<0.161	20.1	<0.106	<0.787	<0.114	<0.478	184
U4-MW-11I	9/26/2022	FD	EM01	UMCf	77.0 - 87.0	<0.110	<0.110	<0.120	<0.161	20.5	<0.106	<0.787	<0.114	<0.478	176
U4-MW-11I	10/10/2022	N	EM02	UMCf	77.0 - 87.0	<1.10	<1.10	<1.20	<1.61	16.0 J	<1.06	<7.87	<1.14	<4.78	<113
U4-MW-11I	10/10/2022	FD	EM02	UMCf	77.0 - 87.0	<0.110	<0.110	<0.120	<0.161	24.1	<0.106	<0.787	<0.114	<0.478	18.3 J
U4-MW-11I	10/31/2022	N	EM03	UMCf	77.0 - 87.0	<0.550	<0.550	<0.600	<0.805	62.2	<0.530	<3.94	<0.570	<2.39	<56.5
U4-MW-11I	10/31/2022	FD	EM03	UMCf	77.0 - 87.0	<0.110	<0.110	<0.120	<0.161	70.6	<0.106	<0.787	<0.114	<0.478	44.2 J
U4-MW-11I	12/6/2022	N	EM04	UMCf	77.0 - 87.0	<0.110 UJ	<0.110 UJ	<0.120 UJ	<0.161 UJ	57.4 J+	<0.106 UJ	<0.787 UJ	<0.114 UJ	<0.478 UJ	57.7 J+
U4-MW-11I	12/6/2022	FD	EM04	UMCf	77.0 - 87.0	<0.110 UJ	<0.110 UJ	<0.120 UJ	<0.161 UJ	57.2 J+	<0.106 UJ	<0.787 UJ	<0.114 UJ	<0.478 UJ	57.8 J+
U4-MW-11I	1/12/2023	N	EM05	UMCf	77.0 - 87.0	<0.110	<0.110	<0.120	<0.161	44.0	<0.106	<0.787	<0.114	<0.478	54.7 J+
U4-MW-11I	1/12/2023	FD	EM05	UMCf	77.0 - 87.0	<0.110	<0.110	<0.120	<0.161	43.9	<0.106	<0.787	<0.114	<0.478	52.3 J+
U4-MW-11I	2/14/2023	N	EM06	UMCf	77.0 - 87.0	<0.110	<0.110	<0.120	<0.161	20.8 J+	<0.106	<0.787	<0.114	<0.478	22.1 J
U4-MW-11I	2/14/2023	FD	EM06	UMCf	77.0 - 87.0	<0.110	<0.110	<0.120	<0.161	19.3 J+	<0.106	<0.787	<0.114	<0.478	20.6 J
U4-MW-11I	3/16/2023	N	EM07	UMCf	77.0 - 87.0	<0.110	<0.110	<0.120	<0.161	44.6	<0.106	<0.787	<0.114	<0.478	44.6 J
U4-MW-11I	3/16/2023	FD	EM07	UMCf	77.0 - 87.0	<0.110	<0.110	<0.120	<0.161	42.2	<0.106	<0.787	<0.114	<0.478	43.6 J
U4-MW-11I	4/18/2023	N	EM08	UMCf	77.0 - 87.0	<0.110	<0.110	<0.120	<0.161	34.4	<0.106	<0.787	<0.114	<0.478	45.3 J
U4-MW-11I	4/18/2023	FD	EM08	UMCf	77.0 - 87.0	<0.110	<0.110	<0.120	<0.161	33.9	<0.106	<0.787	<0.114	<0.478	42.6 J
U4-MW-11I	5/19/2023	N	EM09	UMCf	77.0 - 87.0	<0.110 UJ	<0.110 UJ	<0.120 UJ	<0.161 UJ	31.4 J-	<0.106 UJ	<0.787 UJ	<0.114 UJ	<0.478 UJ	43.6 J
U4-MW-11I	5/19/2023	FD	EM09	UMCf	77.0 - 87.0	<0.110 UJ	<0.110 UJ	<0.120 UJ	<0.161 UJ	30.9 J-	<0.106 UJ	<0.787 UJ	<0.114 UJ	<0.478 UJ	45.1 J
U4-MW-11I	6/15/2023	N	EM10	UMCf	77.0 - 87.0	<0.110	<0.110	<0.120	<0.161	22.2	<0.106	<0.787	<0.114	<0.478	30.9 J
U4-MW-11I	6/15/2023	FD	EM10	UMCf	77.0 - 87.0	<0.110	<0.110	<0.120	<0.161	21.8	<0.106	<0.787	<0.114	<0.478	29.7 J
U4-MW-11I	7/13/2023	N	EM11	UMCf	77.0 - 87.0	<0.110	<0.110	<0.120	<0.161	13.7	<0.106	<0.787	<0.114	<0.478	24.5 J
U4-MW-11I	7/13/2023	FD	EM11	UMCf	77.0 - 87.0	<0.110	<0.110	<0.120	<0.161	14.9	<0.106	<0.787	<0.114	<0.478	24.2 J
U4-MW-11I	8/14/2023	N	EM12	UMCf	77.0 - 87.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-11I	8/14/2023	FD	EM12	UMCf	77.0 - 87.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-11I	9/13/2023	N	EM13	UMCf	77.0 - 87.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787 UJ	<0.114	<0.478	<11.3
U4-MW-11I	9/13/2023	FD	EM13	UMCf	77.0 - 87.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787 UJ	<0.114	<0.478	<11.3
U4-MW-11I	10/19/2023	N	EM14	UMCf	77.0 - 87.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-11I	10/19/2023	FD	EM14	UMCf	77.0 - 87.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	15.8 J
U4-MW-11I	11/16/2023	N	EM15	UMCf	77.0 - 87.0	<5.50	<5.50	<6.00	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565
U4-MW-11I	11/16/2023	FD	EM15	UMCf	77.0 - 87.0	<5.50	<5.50	<6.00	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565
U4-MW-11I	12/13/2023	N	EM16	UMCf	77.0 - 87.0	<0.110	<0.110	<0.120	<0.161	16.2	<0.106	<0.787	<0.114	<0.478	<226
U4-MW-11I	12/13/2023	FD	EM16	UMCf	77.0 - 87.0	<0.110	<0.110	<0.120	<0.161	11.6	<0.106	<0.787	<0.114	<0.478	<226
U4-MW-11I	1/25/2024	N	EM17	UMCf	77.0 - 87.0	<0.110	<0.110	<0.120	<0.161	13.5	<0.106	<0.787	<0.114	<0.478	96.2
U4-MW-11I	1/25/2024	FD	EM17	UMCf	77.0 - 87.0	<0.110	<0.110	<0.120	<0.161	15.2	<0.106	<0.787	<0.114	<0.478	98.5
U4-MW-11I	2/14/2024	N	EM18	UMCf	77.0 - 87.0	<5.50	<5.50	<6.00	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565
U4-MW-11I	2/14/2024	FD	EM18	UMCf	77.0 - 87.0	<5.50	<5.50	<6.00	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565
U4-MW-11I	3/13/2024	N	EM19	UMCf	77.0 - 87.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-11I	3/13/2024	FD	EM19	UMCf	77.0 - 87.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-11I	6/12/2024	N	EM20	UMCf	77.0 - 87.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-11I	6/12/2024	FD	EM20	UMCf	77.0 - 87.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-11I	9/23/2024	N	EM21	UMCf	77.0 - 87.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-11I	9/23/2024	FD	EM21	UMCf	77.0 - 87.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-12D	4/15/2022	N	BL02	UMCf	97.1 - 107.1	<0.110	<0.110	<0.120	<0.161	1.23 J	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-12D	9/27/2022	N	EM01	UMCf	97.1 - 107.1	<2.20	<2.20	<2.40	<3.22	<23.8	<2.12	<15.7	<2.28	<9.56	<226
U4-MW-12D	10/12/2022	N	EM02	UMCf	97.1 - 107.1	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone (MEK)	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-Pentanone	Acetone
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-12D	11/2/2022	N	EM03	UMCf	97.1 - 107.1	<1.10	<1.10	<1.20	<1.61	<11.9	<1.06	<7.87	<1.14	<4.78	<113
U4-MW-12D	12/7/2022	N	EM04	UMCf	97.1 - 107.1	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-12D	1/12/2023	N	EM05	UMCf	97.1 - 107.1	<11.0	<11.0	<12.0	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130
U4-MW-12D	2/15/2023	N	EM06	UMCf	97.1 - 107.1	<11.0	<11.0	<12.0	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130
U4-MW-12D	3/14/2023	N	EM07	UMCf	97.1 - 107.1	<5.50	<5.50	<6.00	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565
U4-MW-12D	4/17/2023	N	EM08	UMCf	97.1 - 107.1	<0.550 UJ	<0.550 UJ	<0.600 UJ	<0.805 UJ	<5.95 UJ	<0.530 UJ	<3.94 UJ	<0.570 UJ	<2.39 UJ	<56.5 UJ
U4-MW-12D	5/17/2023	N	EM09	UMCf	97.1 - 107.1	<11.0	<11.0	<12.0	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130
U4-MW-12D	6/16/2023	N	EM10	UMCf	97.1 - 107.1	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-12D	7/13/2023	N	EM11	UMCf	97.1 - 107.1	<0.110	<0.110	<0.120	<0.161	4.52 J	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-12D	8/14/2023	N	EM12	UMCf	97.1 - 107.1	<5.50	<5.50	<6.00	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565
U4-MW-12D	9/12/2023	N	EM13	UMCf	97.1 - 107.1	<5.50	<5.50	<6.00	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565
U4-MW-12D	10/17/2023	N	EM14	UMCf	97.1 - 107.1	<0.550	<0.550	<0.600	<0.805	154	<0.530	<3.94	<0.570	<2.39	718
U4-MW-12D	11/15/2023	N	EM15	UMCf	97.1 - 107.1	<0.550	<0.550	<0.600	<0.805	158	<0.530	<3.94	<0.570	<2.39	1,010
U4-MW-12D	12/12/2023	N	EM16	UMCf	97.1 - 107.1	<0.110	<0.110	<0.120	<0.161	92.3 J	<0.106	<0.787	<0.114	0.760 J	498 J+
U4-MW-12D	1/24/2024	N	EM17	UMCf	97.1 - 107.1	<0.110	<0.110	<0.120	<0.161	69.2	<0.106	<0.787	<0.114	<0.478	306
U4-MW-12D	2/13/2024	N	EM18	UMCf	97.1 - 107.1	<2.20	<2.20	<2.40	<3.22	78.4 J	<2.12	<15.7	<2.28	<9.56	309 J
U4-MW-12D	3/12/2024	N	EM19	UMCf	97.1 - 107.1	<2.20	<2.20	<2.40	<3.22	105 J	<2.12	<15.7	<2.28	<9.56	376 J
U4-MW-12D	6/12/2024	N	EM20	UMCf	97.1 - 107.1	<0.110	<0.110	<0.120	<0.161	123	<0.106	16.3	<0.114	<0.478	154
U4-MW-12D	9/24/2024	N	EM21	UMCf	97.1 - 107.1	<0.110	<0.110	<0.120	<0.161	24.8	<0.106	<0.787	<0.114	<0.478	196 J+
U4-MW-12I	4/14/2022	N	BL02	UMCf	76.8 - 86.8	<0.110	<0.110	<0.120	<0.161	1.87 J	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-12I	4/14/2022	FD	BL02	UMCf	76.8 - 86.8	<0.110	<0.110	<0.120	<0.161	2.86 J	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-12I	9/27/2022	N	EM01	UMCf	76.8 - 86.8	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	13.7 J
U4-MW-12I	10/12/2022	N	EM02	UMCf	76.8 - 86.8	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-12I	11/2/2022	N	EM03	UMCf	76.8 - 86.8	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-12I	12/7/2022	N	EM04	UMCf	76.8 - 86.8	<0.110	<0.110	<0.120	<0.161	10.6 J+	<0.106	<0.787	<0.114	<0.478	16.9 J
U4-MW-12I	12/7/2022	FD	EM04	UMCf	76.8 - 86.8	<0.110	<0.110	<0.120	<0.161	10.3 J+	<0.106	<0.787	<0.114	<0.478	16.1 J
U4-MW-12I	1/13/2023	N	EM05	UMCf	76.8 - 86.8	<0.110	<0.110	<0.120	<0.161	9.72 J	<0.106	<0.787	<0.114	<0.478	30.3 J
U4-MW-12I	2/15/2023	N	EM06	UMCf	76.8 - 86.8	<0.110	<0.110	<0.120	<0.161	24.7 J+	<0.106	<0.787	<0.114	<0.478	23.4 J
U4-MW-12I	3/13/2023	N	EM07	UMCf	76.8 - 86.8	<0.110	<0.110	<0.120	<0.161	14.6	<0.106	<0.787	<0.114	<0.478	19.6 J
U4-MW-12I	4/17/2023	N	EM08	UMCf	76.8 - 86.8	<0.110 UJ	<0.110 UJ	<0.120 UJ	<0.161 UJ	22.4 J-	<0.106 UJ	<0.787 UJ	<0.114 UJ	<0.478 UJ	32.0 J
U4-MW-12I	5/17/2023	N	EM09	UMCf	76.8 - 86.8	<0.110	<0.110	<0.120	<0.161	26.4	<0.106	<0.787	<0.114	<0.478	43.1 J
U4-MW-12I	6/16/2023	N	EM10	UMCf	76.8 - 86.8	<0.110	<0.110	<0.120	<0.161	30.4	<0.106	<0.787	<0.114	<0.478	63.2
U4-MW-12I	7/11/2023	N	EM11	UMCf	76.8 - 86.8	<0.110	<0.110	<0.120	<0.161	57.2	<0.106	5.56 J	<0.114	<0.478	63.6
U4-MW-12I	8/14/2023	N	EM12	UMCf	76.8 - 86.8	<0.110	<0.110	<0.120	<0.161	2.25 J	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-12I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	<0.110	<0.110	<0.120	<0.161	2.56 J	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-12I	10/17/2023	N	EM14	UMCf	76.8 - 86.8	<0.110	<0.110	<0.120	<0.161	20.5	<0.106	2.02 J	<0.114	<0.478	26.8 J
U4-MW-12I	11/16/2023	N	EM15	UMCf	76.8 - 86.8	<0.110	<0.110	<0.120	<0.161	7.26 J	<0.106	<0.787	<0.114	<0.478	18.7 J
U4-MW-12I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	73.9 J
U4-MW-12I	1/24/2024	N	EM17	UMCf	76.8 - 86.8	<0.110	<0.110	<0.120	<0.161	59.7 J	<0.106	3.76 J	<0.114	<0.478	401
U4-MW-12I	2/13/2024	N	EM18	UMCf	76.8 - 86.8	<2.20	<2.20	<2.40	<3.22	<23.8	<2.12	<15.7	<2.28	<9.56	<226
U4-MW-12I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	<2.20	<2.20	<2.40	<3.22	<23.8	<2.12	<15.7	<2.28	<9.56	<226
U4-MW-12I	6/13/2024	N	EM20	UMCf	76.8 - 86.8	<0.110	<0.110	<0.120	<0.161	9.04 J	<0.106	2.69 J	<0.114	<0.478	<11.3
U4-MW-12I	9/23/2024	N	EM21	UMCf	76.8 - 86.8	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-13D	4/14/2022	N	BL02	UMCf	98.2 - 108.2	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-13D	9/28/2022	N	EM01	UMCf	98.2 - 108.2	<1.10	<1.10	<1.20	<1.61	<11.9	<1.06	<7.87	<1.14	<4.78	<113
U4-MW-13D	10/11/2022	N	EM02	UMCf	98.2 - 108.2	<0.110	<0.110	<0.120	<0.161	14.7	<0.106	<0.787	<0.114	<0.478	66.9
U4-MW-13D	11/3/2022	N	EM03	UMCf	98.2 - 108.2	<0.110	<0.110	<0.120	<0.161	2.69 J	<0.106	<0.787	<0.114	<0.478	15.0 J

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Table 2
Groundwater Analytical Results
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Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone (MEK)	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-Pentanone	Acetone
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-13D	12/7/2022	N	EM04	UMCf	98.2 - 108.2	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-13D	1/12/2023	N	EM05	UMCf	98.2 - 108.2	<2.20	<2.20	<2.40	<3.22	<23.8	<2.12	<15.7	<2.28	<9.56	<226
U4-MW-13D	2/15/2023	N	EM06	UMCf	98.2 - 108.2	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-13D	3/17/2023	N	EM07	UMCf	98.2 - 108.2	<2.20	<2.20	<2.40	<3.22	<23.8	<2.12	<15.7	<2.28	<9.56	<226
U4-MW-13D	4/18/2023	N	EM08	UMCf	98.2 - 108.2	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-13D	5/17/2023	N	EM09	UMCf	98.2 - 108.2	<2.20	<2.20	<2.40	<3.22	<23.8	<2.12	<15.7	<2.28	<9.56	<226
U4-MW-13D	6/15/2023	N	EM10	UMCf	98.2 - 108.2	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-13D	7/12/2023	N	EM11	UMCf	98.2 - 108.2	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-13D	8/11/2023	N	EM12	UMCf	98.2 - 108.2	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-13D	9/11/2023	N	EM13	UMCf	98.2 - 108.2	<2.75	<2.75	<3.00	<4.03	<29.8	<2.65	<19.7	<2.85	<12.0	<282
U4-MW-13D	10/18/2023	N	EM14	UMCf	98.2 - 108.2	<2.75	<2.75	<3.00	<4.03	<29.8	<2.65	<19.7	<2.85	<12.0	<282
U4-MW-13D	11/15/2023	N	EM15	UMCf	98.2 - 108.2	<2.75	<2.75	<3.00	<4.03	<29.8	<2.65	<19.7	<2.85	<12.0	<282
U4-MW-13D	12/11/2023	N	EM16	UMCf	98.2 - 108.2	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787 UJ	<0.114	<0.478	<11.3
U4-MW-13D	1/23/2024	N	EM17	UMCf	98.2 - 108.2	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-13D	2/12/2024	N	EM18	UMCf	98.2 - 108.2	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-13D	3/11/2024	N	EM19	UMCf	98.2 - 108.2	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-13D	6/13/2024	N	EM20	UMCf	98.2 - 108.2	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-13D	9/20/2024	N	EM21	UMCf	98.2 - 108.2	<5.50	<5.50	<6.00	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565
U4-MW-13I	4/14/2022	N	BL02	UMCf	77.1 - 87.1	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-13I	9/28/2022	N	EM01	UMCf	77.1 - 87.1	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-13I	10/10/2022	N	EM02	UMCf	77.1 - 87.1	<0.110	<0.110	<0.120	<0.161	1.81 J	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-13I	11/3/2022	N	EM03	UMCf	77.1 - 87.1	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-13I	12/6/2022	N	EM04	UMCf	77.1 - 87.1	<0.550 UJ	<0.550 UJ	<0.600 UJ	<0.805 UJ	19.1 J	<0.530 UJ	<3.94 UJ	<0.570 UJ	<2.39 UJ	<56.5 UJ
U4-MW-13I	1/12/2023	N	EM05	UMCf	77.1 - 87.1	<0.110	<0.110	<0.120	<0.161	20.5 J+	<0.106	<0.787	<0.114	<0.478	16.9 J
U4-MW-13I	2/14/2023	N	EM06	UMCf	77.1 - 87.1	<0.550	<0.550	<0.600	<0.805	17.5 J	<0.530	<3.94	<0.570	<2.39	<56.5
U4-MW-13I	3/16/2023	N	EM07	UMCf	77.1 - 87.1	<0.110	<0.110	<0.120	<0.161	25.9	<0.106	<0.787	<0.114	<0.478	11.3 J
U4-MW-13I	4/19/2023	N	EM08	UMCf	77.1 - 87.1	<0.110	<0.110	<0.120	<0.161	25.2	<0.106	<0.787	<0.114	<0.478	16.5 J
U4-MW-13I	5/17/2023	N	EM09	UMCf	77.1 - 87.1	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	18.3 J
U4-MW-13I	6/15/2023	N	EM10	UMCf	77.1 - 87.1	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-13I	7/12/2023	N	EM11	UMCf	77.1 - 87.1	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-13I	8/11/2023	N	EM12	UMCf	77.1 - 87.1	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-13I	9/11/2023	N	EM13	UMCf	77.1 - 87.1	<2.75	<2.75	<3.00	<4.03	<29.8	<2.65	<19.7	<2.85	<12.0	<282
U4-MW-13I	10/17/2023	N	EM14	UMCf	77.1 - 87.1	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-13I	11/15/2023	N	EM15	UMCf	77.1 - 87.1	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-13I	12/11/2023	N	EM16	UMCf	77.1 - 87.1	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787 UJ	<0.114	<0.478	<11.3
U4-MW-13I	1/23/2024	N	EM17	UMCf	77.1 - 87.1	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-13I	2/12/2024	N	EM18	UMCf	77.1 - 87.1	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-13I	3/11/2024	N	EM19	UMCf	77.1 - 87.1	<0.110	<0.110	<0.120	<0.161	5.78 J	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-13I	6/13/2024	N	EM20	UMCf	77.1 - 87.1	<0.110	<0.110	<0.120	<0.161	18.2	<0.106	1.78 J	<0.114	<0.478	<11.3
U4-MW-13I	9/20/2024	N	EM21	UMCf	77.1 - 87.1	<5.50	<5.50	<6.00	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565
U4-MW-14D	4/13/2022	N	BL02	UMCf	97.3 - 107.3	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-14D	12/6/2022	N	EM04	UMCf	97.3 - 107.3	<0.550 UJ	<0.550 UJ	<0.600 UJ	<0.805 UJ	<5.95 UJ	<0.530 UJ	<3.94 UJ	<0.570 UJ	<2.39 UJ	<56.5 UJ
U4-MW-14D	3/16/2023	N	EM07	UMCf	97.3 - 107.3	<0.550	<0.550	<0.600	<0.805	<5.95	<0.530	<3.94	<0.570	<2.39	<56.5
U4-MW-14D	6/15/2023	N	EM10	UMCf	97.3 - 107.3	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-14D	9/14/2023	N	EM13	UMCf	97.3 - 107.3	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-14D	12/15/2023	N	EM16	UMCf	97.3 - 107.3	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-14D	3/13/2024	N	EM19	UMCf	97.3 - 107.3	<0.110	<0.110	<0.120	<0.161	2.06 J	<0.106	<0.787	<0.114	<0.478	21.4 J

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone (MEK)	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-Pentanone	Acetone
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-14D	6/13/2024	N	EM20	UMCf	97.3 - 107.3	<0.110	<0.110	<0.120	<0.161	2.32 J	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-14D	9/19/2024	N	EM21	UMCf	97.3 - 107.3	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-14I	4/14/2022	N	BL02	UMCf	77.3 - 87.3	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-14I	12/6/2022	N	EM04	UMCf	77.3 - 87.3	<0.550 UJ	<0.550 UJ	<0.600 UJ	<0.805 UJ	<5.95 UJ	<0.530 UJ	<3.94 UJ	<0.570 UJ	<2.39 UJ	<56.5 UJ
U4-MW-14I	3/16/2023	N	EM07	UMCf	77.3 - 87.3	<0.550	<0.550	<0.600	<0.805	<5.95	<0.530	<3.94	<0.570	<2.39	<56.5
U4-MW-14I	6/15/2023	N	EM10	UMCf	77.3 - 87.3	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-14I	9/14/2023	N	EM13	UMCf	77.3 - 87.3	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-14I	12/14/2023	N	EM16	UMCf	77.3 - 87.3	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-14I	3/13/2024	N	EM19	UMCf	77.3 - 87.3	<0.110	<0.110	<0.120	<0.161	1.46 J	<0.106	<0.787	<0.114	<0.478	15.3 J
U4-MW-14I	6/14/2024	N	EM20	UMCf	77.3 - 87.3	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-14I	9/19/2024	N	EM21	UMCf	77.3 - 87.3	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-15D	4/13/2022	N	BL02	UMCf	96.0 - 106.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-15D	12/5/2022	N	EM04	UMCf	96.0 - 106.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-15D	3/20/2023	N	EM07	UMCf	96.0 - 106.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-15D	6/14/2023	N	EM10	UMCf	96.0 - 106.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-15D	9/13/2023	N	EM13	UMCf	96.0 - 106.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787 UJ	<0.114	<0.478	<11.3
U4-MW-15D	12/12/2023	N	EM16	UMCf	96.0 - 106.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-15D	3/12/2024	N	EM19	UMCf	96.0 - 106.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-15D	6/14/2024	N	EM20	UMCf	96.0 - 106.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-15D	9/24/2024	N	EM21	UMCf	96.0 - 106.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-15DD	4/13/2022	N	BL02	UMCf	120.3 - 130.3	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-15DD	12/5/2022	N	EM04	UMCf	120.3 - 130.3	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	14.4 J
U4-MW-15DD	3/15/2023	N	EM07	UMCf	120.3 - 130.3	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-15DD	6/13/2023	N	EM10	UMCf	120.3 - 130.3	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-15DD	9/14/2023	N	EM13	UMCf	120.3 - 130.3	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-15DD	12/13/2023	N	EM16	UMCf	120.3 - 130.3	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-15DD	3/12/2024	N	EM19	UMCf	120.3 - 130.3	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-15DD	6/14/2024	N	EM20	UMCf	120.3 - 130.3	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-15DD	9/24/2024	N	EM21	UMCf	120.3 - 130.3	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-15I	4/12/2022	N	BL02	UMCf	76.8 - 86.8	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-15I	12/5/2022	N	EM04	UMCf	76.8 - 86.8	<0.110	<0.110	<0.120	<0.161	20.3 J+	<0.106	<0.787	<0.114	<0.478	37.2 J
U4-MW-15I	3/17/2023	N	EM07	UMCf	76.8 - 86.8	<2.20	<2.20	<2.40	<3.22	<23.8	<2.12	<15.7	<2.28	<9.56	<226
U4-MW-15I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<0.110	<0.110	<0.120	<0.161	51.5	<0.106	<0.787	<0.114	<0.478	103 J+
U4-MW-15I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	<0.110	<0.110	<0.120	<0.161	2.14 J	<0.106	<0.787	<0.114	<0.478	13.1 J
U4-MW-15I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	<0.110	<0.110	<0.120	<0.161	5.52 J	<0.106	<0.787	<0.114	<0.478	22.9 J
U4-MW-15I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	<5.50	<5.50	<6.00	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565
U4-MW-15I	6/17/2024	N	EM20	UMCf	76.8 - 86.8	<5.50	<5.50	<6.00	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565
U4-MW-15I	9/25/2024	N	EM21	UMCf	76.8 - 86.8	<5.50 UJ	<5.50 UJ	<6.00 UJ	<8.05 UJ	5,890 J	<5.30 UJ	52.3 J	<5.70 UJ	<23.9 UJ	<565 UJ
U4-MW-15S	4/13/2022	N	BL02	UMCf	54.8 - 64.8	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-15S	12/5/2022	N	EM04	UMCf	54.8 - 64.8	<2.75	<2.75	<3.00	<4.03	<29.8	<2.65	<19.7	<2.85	<12.0	<282
U4-MW-15S	3/13/2023	N	EM07	UMCf	54.8 - 64.8	<0.110	<0.110	<0.120	<0.161	14.5	<0.106	<0.787	<0.114	<0.478	22.3 J
U4-MW-15S	6/13/2023	N	EM10	UMCf	54.8 - 64.8	<0.110	<0.110	<0.120	<0.161	19.5	<0.106	<0.787	<0.114	<0.478	32.1 J
U4-MW-15S	9/14/2023	N	EM13	UMCf	54.8 - 64.8	<0.110	<0.110	<0.120	<0.161	6.88 J	<0.106	<0.787	<0.114	<0.478	15.5 J
U4-MW-15S	12/11/2023	N	EM16	UMCf	54.8 - 64.8	<0.220	<0.220	<0.240	<0.322	<2.38	<0.212	<1.57 UJ	<0.228	<0.956	<22.6
U4-MW-15S	3/12/2024	N	EM19	UMCf	54.8 - 64.8	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-15S	3/26/2024	N	EM19	UMCf	54.8 - 64.8	<0.110	<0.110	<0.120	<0.161	2.42 J	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-15S	6/14/2024	N	EM20	UMCf	54.8 - 64.8	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone (MEK)	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-Pentanone	Acetone
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-15S	9/20/2024	N	EM21	UMCf	54.8 - 64.8	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-16D	4/11/2022	N	BL02	UMCf	96.8 - 106.8	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-16D	12/5/2022	N	EM04	UMCf	96.8 - 106.8	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-16D	3/14/2023	N	EM07	UMCf	96.8 - 106.8	<0.110	<0.110	<0.120	<0.161	31.3	<0.106	<0.787	<0.114	<0.478	644
U4-MW-16D	6/13/2023	N	EM10	UMCf	96.8 - 106.8	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-16D	9/15/2023	N	EM13	UMCf	96.8 - 106.8	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-16D	12/14/2023	N	EM16	UMCf	96.8 - 106.8	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-16D	3/14/2024	N	EM19	UMCf	96.8 - 106.8	<5.50	<5.50	<6.00	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565
U4-MW-16D	6/17/2024	N	EM20	UMCf	96.8 - 106.8	<5.50	<5.50	<6.00	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565
U4-MW-16D	9/20/2024	N	EM21	UMCf	96.8 - 106.8	<5.50	<5.50	<6.00	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565
U4-MW-16DD	4/12/2022	N	BL02	UMCf	120.8 - 130.8	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-16DD	12/5/2022	N	EM04	UMCf	120.8 - 130.8	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-16DD	3/15/2023	N	EM07	UMCf	120.8 - 130.8	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-16DD	6/13/2023	N	EM10	UMCf	120.8 - 130.8	<0.110	<0.110	<0.120	<0.161	1.54 J	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-16DD	9/14/2023	N	EM13	UMCf	120.8 - 130.8	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-16DD	12/13/2023	N	EM16	UMCf	120.8 - 130.8	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-16DD	3/14/2024	N	EM19	UMCf	120.8 - 130.8	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-16DD	6/17/2024	N	EM20	UMCf	120.8 - 130.8	<0.110	<0.110	<0.120	<0.161	2.06 J	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-16DD	9/19/2024	N	EM21	UMCf	120.8 - 130.8	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-16I	4/11/2022	N	BL02	UMCf	77.0 - 87.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-16I	12/5/2022	N	EM04	UMCf	77.0 - 87.0	<0.110	<0.110	<0.120	<0.161	36.1 J+	<0.106	<0.787	<0.114	<0.478	20.0 J
U4-MW-16I	12/5/2022	FD	EM04	UMCf	77.0 - 87.0	<0.110	<0.110	<0.120	<0.161	34.3 J+	<0.106	<0.787	<0.114	<0.478	18.7 J
U4-MW-16I	3/13/2023	N	EM07	UMCf	77.0 - 87.0	<0.110	<0.110	<0.120	<0.161	23.8	<0.106	<0.787	<0.114	<0.478	37.6 J
U4-MW-16I	3/13/2023	FD	EM07	UMCf	77.0 - 87.0	<0.110	<0.110	<0.120	<0.161	22.0	<0.106	<0.787	<0.114	<0.478	34.6 J
U4-MW-16I	6/12/2023	N	EM10	UMCf	77.0 - 87.0	<0.110	<0.110	<0.120	<0.161	39.0	<0.106	<0.787 UJ	<0.114	<0.478	46.3 J
U4-MW-16I	6/12/2023	FD	EM10	UMCf	77.0 - 87.0	<0.110	<0.110	<0.120	<0.161	37.3	<0.106	<0.787 UJ	<0.114	<0.478	44.5 J
U4-MW-16I	9/11/2023	N	EM13	UMCf	77.0 - 87.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-16I	9/11/2023	FD	EM13	UMCf	77.0 - 87.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-16I	12/11/2023	N	EM16	UMCf	77.0 - 87.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787 UJ	<0.114	<0.478	<11.3
U4-MW-16I	12/11/2023	FD	EM16	UMCf	77.0 - 87.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787 UJ	<0.114	<0.478	<11.3
U4-MW-16I	3/11/2024	N	EM19	UMCf	77.0 - 87.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-16I	3/11/2024	FD	EM19	UMCf	77.0 - 87.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-16I	6/18/2024	N	EM20	UMCf	77.0 - 87.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-16I	6/18/2024	FD	EM20	UMCf	77.0 - 87.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-16I	9/19/2024	N	EM21	UMCf	77.0 - 87.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-16I	9/19/2024	FD	EM21	UMCf	77.0 - 87.0	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-16S	4/12/2022	N	BL02	UMCf	54.8 - 64.8	<0.110	<0.110	<0.120	<0.161	1.22 J	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-16S	4/12/2022	FD	BL02	UMCf	54.8 - 64.8	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-16S	12/6/2022	N	EM04	UMCf	54.8 - 64.8	<0.110 UJ	<0.110 UJ	<0.120 UJ	<0.161 UJ	<1.19 UJ	<0.106 UJ	<0.787 UJ	<0.114 UJ	<0.478 UJ	<11.3 UJ
U4-MW-16S	3/15/2023	N	EM07	UMCf	54.8 - 64.8	<0.110	<0.110	<0.120	<0.161	42.6	<0.106	<0.787	<0.114	<0.478	38.0 J
U4-MW-16S	6/13/2023	N	EM10	UMCf	54.8 - 64.8	<0.110	<0.110	<0.120	<0.161	47.0	<0.106	<0.787	<0.114	<0.478	54.0
U4-MW-16S	9/11/2023	N	EM13	UMCf	54.8 - 64.8	<0.110	<0.110	<0.120	<0.161	16.4	<0.106	<0.787	<0.114	<0.478	32.1 J
U4-MW-16S	12/11/2023	N	EM16	UMCf	54.8 - 64.8	<0.110	<0.110	<0.120	<0.161	11.8	<0.106	<0.787 UJ	<0.114	<0.478	27.2 J
U4-MW-16S	3/11/2024	N	EM19	UMCf	54.8 - 64.8	<0.110	<0.110	<0.120	<0.161	20.3	<0.106	<0.787	<0.114	<0.478	50.4 J+
U4-MW-16S	6/17/2024	N	EM20	UMCf	54.8 - 64.8	<0.110	<0.110	<0.120	<0.161	4.51 J	<0.106	<0.787	<0.114	<0.478	<11.3
U4-MW-16S	9/20/2024	N	EM21	UMCf	54.8 - 64.8	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3
U4-SLMW	11/10/2022	N	EM03	-	-	<0.550	<0.550	<0.600	<0.805	<5.95	<0.530	<3.94	<0.570	<2.39	<56.5

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone (MEK)	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-Pentanone	Acetone
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-T3	10/13/2022	N	EM02	-	-	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	22.8 J
U4-T3	11/3/2022	N	EM03	-	-	<0.110	<0.110	<0.120	<0.161	3.43 J	<0.106	<0.787	<0.114	<0.478	12.3 J
U4-T3	12/6/2022	N	EM04	-	-	<2.20 UJ	<2.20 UJ	<2.40 UJ	<3.22 UJ	<23.8 UJ	<2.12 UJ	<15.7 UJ	<2.28 UJ	<9.56 UJ	<226 UJ
U4-T3	1/9/2023	N	EM05	-	-	<0.110	<0.110	<0.120	<0.161	2.47 J	<0.106	<0.787	<0.114	<0.478	11.4 J
U4-T3	2/13/2023	N	EM06	-	-	<11.0	<11.0	<12.0	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130
U4-T3	3/13/2023	N	EM07	-	-	<2.75	<2.75	<3.00	<4.03	<29.8	<2.65	<19.7	<2.85	<12.0	<282
U4-T3	4/19/2023	N	EM08	-	-	<0.110	<0.110	<0.120	<0.161	2.01 J	<0.106	<0.787	<0.114	<0.478	12.8 J
U4-T3	5/18/2023	N	EM09	-	-	<0.110	<0.110	<0.120	<0.161	26.1 J+	<0.106	<0.787	<0.114	<0.478	121
U4-T3	6/12/2023	N	EM10	-	-	<0.110	<0.110	<0.120	<0.161	25.8	<0.106	<0.787 UJ	<0.114	<0.478	96.7 J+
U4-T3	7/11/2023	N	EM11	-	-	<0.110	<0.110	<0.120	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	90.2
U4-T3	8/10/2023	N	EM12	-	-	<0.110	<0.110	<0.120	<0.161	17.1	<0.106	<0.787	<0.114	0.823 J	39.1 J
U4-T3	9/11/2023	N	EM13	-	-	<0.110	<0.110	<0.120	<0.161	22.7	<0.106	<0.787	<0.114	<0.478	69.8
U4-T3	10/16/2023	N	EM14	-	-	<2.75	<2.75	<3.00	<4.03	<29.8	<2.65	<19.7	<2.85	<12.0	<282

Notes:
FD - Field duplicate
E - Field instrument error.
J - The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J- - The result is an estimated quantity, but the result may be biased low.
J+ - The result is an estimated quantity, but the result may be biased high.
N/A - Not Applicable
mg/L - milligrams per liter
µg/L - micrograms per liter
N - Normal field sample

R - The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

UMCf- Upper Muddy Creek Formation
< - The analyte was analyzed for, but was not detected above the level of the reported
-- Not tested.
U4-E-08D has been abandoned.
M-252 damaged/obstructed when checked on June 14, 2023 and September 14, 2023.
U4-MW-08S and U4-MW-15S were purged and resampled for EM19 on March 25-26, 2024; Original EM19 samples were collected via bailer due to well condition.
Lab was unable to analyze and report TDS for samples L1782240-20 (U4-E-09I-EM21) and -21 (U4-E-09I-EM21-FD) due to the thickness of the sample matrix.

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
M-247-100	4/20/2022	N	BL02	UMCf	100.5 - 110.5	----	----	----	----	----	----	----	----	----	----
M-249-100	4/20/2022	N	BL02	UMCf	99.6 - 109.6	----	----	----	----	----	----	----	----	----	----
M-251-100	4/19/2022	N	BL02	UMCf	92.5 - 102.5	<0.0941	<0.118	<0.128	13.1	8.80	<0.605	<0.128	<0.116	<0.192	8,010
M-251-100	10/13/2022	N	EM02	UMCf	92.5 - 102.5	<0.0941	<0.118	<0.128	6.92	3.40	<0.605	<0.128	<0.116	<0.192	3,950
M-251-100	11/2/2022	N	EM03	UMCf	92.5 - 102.5	<0.941	<1.18	<1.28	5.61 J	<1.29	<6.05	<1.28	<1.16	<1.92	2,420
M-251-100	12/8/2022	N	EM04	UMCf	92.5 - 102.5	<0.0941	<0.118	<0.128	4.81	1.77	<0.605	1.55	<0.116	<0.192	2,240
M-251-100	1/11/2023	N	EM05	UMCf	92.5 - 102.5	<0.0941	<0.118	<0.128	4.88	1.80	<0.605	<0.128	<0.116	<0.192	2,680
M-251-100	2/13/2023	N	EM06	UMCf	92.5 - 102.5	<0.0941	<0.118	<0.128	4.13	1.02	<0.605	1.37	<0.116	<0.192	1,480
M-251-100	3/17/2023	N	EM07	UMCf	92.5 - 102.5	<4.71	<5.90	<6.40	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	1,630
M-251-100	4/21/2023	N	EM08	UMCf	92.5 - 102.5	<0.0941	<0.118	<0.128	4.56	1.33	<0.605	1.65	<0.116	<0.192	1,950 J+
M-251-100	5/9/2023	N	EM09	UMCf	92.5 - 102.5	<0.0941	<0.118	<0.128	5.11	2.19	<0.605	1.58	<0.116	<0.192	2,200
M-251-100	6/14/2023	N	EM10	UMCf	92.5 - 102.5	<4.71	<5.90	<6.40	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	2,240
M-251-100	7/14/2023	N	EM11	UMCf	92.5 - 102.5	<0.0941	<0.118	<0.128	4.24	2.14	<0.605	1.90	<0.116	<0.192	2,600
M-251-100	8/10/2023	N	EM12	UMCf	92.5 - 102.5	<0.0941	<0.118	<0.128	2.50	0.978 J	<0.605	<0.128	<0.116	<0.192	2,010
M-251-100	9/14/2023	N	EM13	UMCf	92.5 - 102.5	<0.0941	<0.118	<0.128	3.13	1.23	<0.605	<0.128	<0.116	<0.192	2,340
M-251-100	10/19/2023	N	EM14	UMCf	92.5 - 102.5	<0.0941	<0.118	<0.128	3.31	1.17	<0.605	<0.128	<0.116	<0.192	2,400
M-251-100	11/16/2023	N	EM15	UMCf	92.5 - 102.5	<4.71	<5.90	<6.40	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	1,900
M-251-100	12/12/2023	N	EM16	UMCf	92.5 - 102.5	<0.0941	<0.118	<0.128	3.09	1.28	<0.605	<0.128	<0.116	<0.192	2,380 J+
M-251-100	1/25/2024	N	EM17	UMCf	92.5 - 102.5	<0.0941	<0.118	<0.128	3.30	1.64	<0.605	<0.128	<0.116	<0.192	2,730 J+
M-251-100	2/13/2024	N	EM18	UMCf	92.5 - 102.5	<4.71	<5.90	<6.40	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	1,520
M-251-100	3/11/2024	N	EM19	UMCf	92.5 - 102.5	<4.71	<5.90	<6.40	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	1,750
M-251-100	6/17/2024	N	EM20	UMCf	92.5 - 102.5	<4.71	<5.90	<6.40	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	2,220
M-251-100	9/23/2024	N	EM21	UMCf	92.5 - 102.5	0.148 J	<0.118	<0.128	3.33	0.340 J	<0.605	0.184 J	<0.116	0.840 J	1,690
M-251-60	4/18/2022	N	BL02	UMCf	52.3 - 62.3	0.132 J	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	13.5
M-251-60	3/15/2023	N	EM07	UMCf	52.3 - 62.3	<0.0941	<0.118	<0.128	<0.136	0.212 J	<0.605	<0.128	<0.116	<0.192	14.5 J+
M-251-60	6/14/2023	N	EM10	UMCf	52.3 - 62.3	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	19.9
M-251-60	9/14/2023	N	EM13	UMCf	52.3 - 62.3	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	22.2
M-251-60	12/11/2023	N	EM16	UMCf	52.3 - 62.3	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	27.1
M-251-60	3/12/2024	N	EM19	UMCf	52.3 - 62.3	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	9.43
M-251-60	6/19/2024	N	EM20	UMCf	52.3 - 62.3	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	0.611 J
M-251-60	9/20/2024	N	EM21	UMCf	52.3 - 62.3	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	<0.111
M-252	4/21/2022	N	BL02	UMCf	132.3 - 142.3	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	0.192 J
M-252	3/15/2023	N	EM07	UMCf	132.3 - 142.3	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	17.8 J+
M-252	9/19/2023	N	EM13	UMCf	132.3 - 142.3	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	<0.111
M-252	12/18/2023	N	EM16	UMCf	132.3 - 142.3	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	5.55
M-252	3/12/2024	N	EM19	UMCf	132.3 - 142.3	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	1.69 J
M-252	6/19/2024	N	EM20	UMCf	132.3 - 142.3	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	0.623 J
M-252	9/24/2024	N	EM21	UMCf	132.3 - 142.3	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	0.230 J
M-253-100	4/20/2022	N	BL02	UMCf	100.8 - 110.8	----	----	----	----	----	----	----	----	----	----
M-255-100	4/20/2022	N	BL02	UMCf	100.2 - 110.2	----	----	----	----	----	----	----	----	----	----
U4-E-01D	4/18/2022	N	BL02	UMCf	94.7 - 109.7	<0.471	<0.590	<0.640	5.46	9.81 J-	<3.03	<0.640	<0.580	<0.960	6,650
U4-E-01D	3/14/2023	N	EM07	UMCf	94.7 - 109.7	<0.0941	<0.118	<0.128	3.04	0.458 J	<0.605	<0.128	<0.116	<0.192	5.08
U4-E-01D	6/20/2024	N	EM20	UMCf	94.7 - 109.7	<0.941	<1.18	<1.28	<1.36	<1.29	<6.05	<1.28	<1.16	<1.92	<1.11
U4-E-01D	9/25/2024	N	EM21	UMCf	94.7 - 109.7	<0.941 UJ	<1.18 UJ	<1.28 UJ	<1.36 UJ	<1.29 UJ	<6.05 UJ	<1.28 UJ	<1.16 UJ	<1.92 UJ	<1.11 UJ
U4-E-01I	4/19/2022	N	BL02	UMCf	74.6 - 89.6	<0.0941	<0.118	<0.128	0.521 J	0.388 J	<0.605	<0.128	<0.116	<0.192	186 J
U4-E-01I	4/19/2022	FD	BL02	UMCf	74.6 - 89.6	<0.0941	<0.118	<0.128	0.509 J	<0.129	<0.605	<0.128	<0.116	<0.192	280 J
U4-E-01I	3/14/2023	N	EM07	UMCf	74.6 - 89.6	<0.0941	<0.118	<0.128	2.27	0.446 J	<0.605	0.646 J	<0.116	<0.192	1,300

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-E-01I	4/20/2023	N	EM08	UMCf	74.6 - 89.6	<0.0941	<0.118	<0.128	0.887 J	<0.129	<0.605	0.439 J	<0.116	<0.192	477 J+
U4-E-01I	5/10/2023	N	EM09	UMCf	74.6 - 89.6	<0.0941	<0.118	<0.128	0.980 J	0.189 J	<0.605	<0.128	<0.116	<0.192	553
U4-E-01I	6/12/2023	N	EM10	UMCf	74.6 - 89.6	<0.0941	<0.118	<0.128	1.63	0.383 J	<0.605	0.814 J	<0.116	<0.192	1,530
U4-E-01I	7/11/2023	N	EM11	UMCf	74.6 - 89.6	<0.471	<0.590	<0.640	0.904 J	<0.645	<3.03	<0.640	<0.580	<0.960	381
U4-E-01I	8/10/2023	N	EM12	UMCf	74.6 - 89.6	<0.0941	<0.118	<0.128	0.955 J	<0.129	<0.605	<0.128	<0.116	<0.192	153
U4-E-01I	9/11/2023	N	EM13	UMCf	74.6 - 89.6	<0.471	<0.590	<0.640	<0.680	<0.645	<3.03	<0.640	<0.580	<0.960	101
U4-E-01I	10/16/2023	N	EM14	UMCf	74.6 - 89.6	<0.0941	<0.118	<0.128	0.388 J	<0.129	<0.605	<0.128	<0.116	<0.192	152
U4-E-01I	12/13/2023	N	EM16	UMCf	74.6 - 89.6	<0.941	<1.18	<1.28	<1.36	<1.29	<6.05	<1.28	<1.16	<1.92	<1.11
U4-E-01I	1/24/2024	N	EM17	UMCf	74.6 - 89.6	<1.88	<2.36	<2.56	<2.72	<2.58	<12.1	<2.56	<2.32	<3.84	<2.22
U4-E-01I	2/14/2024	N	EM18	UMCf	74.6 - 89.6	<0.941	<1.18	<1.28	<1.36	<1.29	<6.05	<1.28	<1.16	<1.92	<1.11
U4-E-01I	3/12/2024	N	EM19	UMCf	74.6 - 89.6	<0.941	<1.18	<1.28	<1.36	<1.29	<6.05	<1.28	<1.16	<1.92	<1.11
U4-E-01I	6/20/2024	N	EM20	UMCf	74.6 - 89.6	<0.941	<1.18	<1.28	<1.36	<1.29	<6.05	<1.28	<1.16	<1.92	1.87 J
U4-E-01I	9/25/2024	N	EM21	UMCf	74.6 - 89.6	<0.941 UJ	<1.18 UJ	<1.28 UJ	<1.36 UJ	<1.29 UJ	<6.05 UJ	<1.28 UJ	<1.16 UJ	<1.92 UJ	2.21 J
U4-E-02D	4/20/2022	N	BL02	UMCf	94.4 - 109.4	<0.0941	<0.118	<0.128	3.33 J+	1.82	<0.605	<0.128	<0.116	<0.192	1,660
U4-E-02D	3/14/2023	N	EM07	UMCf	94.4 - 109.4	<0.0941	<0.118	<0.128	3.21	0.376 J	<0.605	<0.128	<0.116	<0.192	6.95
U4-E-02D	6/19/2024	N	EM20	UMCf	94.4 - 109.4	<0.941	<1.18	<1.28	<1.36	<1.29	<6.05	<1.28	<1.16	<1.92	<1.11
U4-E-02D	9/27/2024	N	EM21	UMCf	94.4 - 109.4	<1.88 UJ	<2.36 UJ	<2.56 UJ	<2.72 UJ	<2.58 UJ	<12.1 UJ	<2.56 UJ	<2.32 UJ	<3.84 UJ	<2.22 UJ
U4-E-02I	4/18/2022	N	BL02	UMCf	74.4 - 89.4	<0.0941	<0.118 UJ	<0.128	1.65	1.65	<0.605	<0.128	<0.116	<0.192	727
U4-E-02I	3/14/2023	N	EM07	UMCf	74.4 - 89.4	<0.0941	<0.118	<0.128	2.11	0.378 J	<0.605	0.176 J	<0.116	<0.192	165
U4-E-02I	4/20/2023	N	EM08	UMCf	74.4 - 89.4	<0.0941	<0.118	<0.128	1.66	<0.129	<0.605	0.401 J	<0.116	<0.192	503 J+
U4-E-02I	5/11/2023	N	EM09	UMCf	74.4 - 89.4	<0.0941	<0.118	<0.128	1.19	0.412 J	<0.605	0.376 J	<0.116	<0.192	477
U4-E-02I	6/12/2023	N	EM10	UMCf	74.4 - 89.4	<0.0941	<0.118	<0.128	0.953 J	0.197 J	<0.605	0.180 J	<0.116	<0.192	398
U4-E-02I	7/11/2023	N	EM11	UMCf	74.4 - 89.4	<0.0941	<0.118	<0.128	0.630 J	<0.129	<0.605	0.336 J	<0.116	<0.192	321
U4-E-02I	8/10/2023	N	EM12	UMCf	74.4 - 89.4	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	214
U4-E-02I	9/11/2023	N	EM13	UMCf	74.4 - 89.4	<0.0941	<0.118	<0.128	0.380 J	0.224 J	<0.605	<0.128	<0.116	<0.192	198
U4-E-02I	10/16/2023	N	EM14	UMCf	74.4 - 89.4	<0.941	<1.18	<1.28	<1.36	<1.29	<6.05	<1.28	<1.16	<1.92	151
U4-E-02I	12/14/2023	N	EM16	UMCf	74.4 - 89.4	<0.941	<1.18	<1.28	<1.36	<1.29	<6.05	<1.28	<1.16	<1.92	55.6
U4-E-02I	1/22/2024	N	EM17	UMCf	74.4 - 89.4	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	39.1 J+
U4-E-02I	2/13/2024	N	EM18	UMCf	74.4 - 89.4	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	27.1
U4-E-02I	3/13/2024	N	EM19	UMCf	74.4 - 89.4	<2.35	<2.95	<3.20	<3.40	<3.22	<15.1	<3.20	<2.90	<4.80	11.7 J
U4-E-02I	6/19/2024	N	EM20	UMCf	74.4 - 89.4	<9.41	<11.8	<12.8	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	49.3 J
U4-E-02I	9/24/2024	N	EM21	UMCf	74.4 - 89.4	<9.41 UJ	<11.8 UJ	<12.8 UJ	<13.6 UJ	<12.9 UJ	<60.5 UJ	<12.8 UJ	<11.6 UJ	<19.2 UJ	46.9 J
U4-E-03D	4/19/2022	N	BL02	UMCf	95.1 - 110.1	<0.0941	<0.118	<0.128	10.9	6.45	<0.605	<0.128	<0.116	<0.192	6,390
U4-E-03D	10/13/2022	N	EM02	UMCf	95.1 - 110.1	<18.8	<23.6	<25.6	<27.2	<25.8	<121	<25.6	<23.2	<38.4	4,280
U4-E-03D	11/3/2022	N	EM03	UMCf	95.1 - 110.1	<0.0941	<0.118	<0.128	9.37	4.31	<0.605	2.75	<0.116	<0.192	4,350
U4-E-03D	12/6/2022	N	EM04	UMCf	95.1 - 110.1	<1.88 UJ	<2.36 UJ	<2.56 UJ	7.65 J	3.37 J	<12.1 UJ	6.86 J	<2.32 UJ	<3.84 UJ	3,470
U4-E-03D	1/9/2023	N	EM05	UMCf	95.1 - 110.1	<0.0941	<0.118	<0.128	7.40	2.90	<0.605	2.25	<0.116	<0.192	3,520
U4-E-03D	2/13/2023	N	EM06	UMCf	95.1 - 110.1	<9.41	<11.8	<12.8	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	3,130
U4-E-03D	3/13/2023	N	EM07	UMCf	95.1 - 110.1	<9.41	<11.8	<12.8	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	3,070
U4-E-03D	3/14/2023	N	EM07	UMCf	95.1 - 110.1	<18.8	<23.6	<25.6	<27.2	<25.8	<121	<25.6	<23.2	<38.4	12,200
U4-E-03D	4/19/2023	N	EM08	UMCf	95.1 - 110.1	<0.471	<0.590	<0.640	4.48 J	2.05 J	<3.03	1.47 J	<0.580	<0.960	3,360 J+
U4-E-03D	5/11/2023	N	EM09	UMCf	95.1 - 110.1	<0.0941	<0.118	0.159 J	4.02	1.58	<0.605	<0.128	<0.116	<0.192	2,640
U4-E-03D	6/12/2023	N	EM10	UMCf	95.1 - 110.1	<0.0941	<0.118	<0.128	5.66	2.26	<0.605	2.20	<0.116	<0.192	3,700
U4-E-03D	7/11/2023	N	EM11	UMCf	95.1 - 110.1	<0.0941	<0.118	<0.128	5.08	2.45	<0.605	1.56	<0.116	<0.192	3,470
U4-E-03D	8/10/2023	N	EM12	UMCf	95.1 - 110.1	<0.0941	<0.118	<0.128	4.55	1.84	<0.605	<0.128	<0.116	<0.192	3,320
U4-E-03D	9/11/2023	N	EM13	UMCf	95.1 - 110.1	<0.0941	<0.118	<0.128	4.84	2.48	<0.605	2.88	<0.116	<0.192	3,570
U4-E-03D	10/16/2023	N	EM14	UMCf	95.1 - 110.1	<18.8	<23.6	<25.6	<27.2	<25.8	<121	<25.6	<23.2	<38.4	3,140

Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-E-03D	6/10/2024	N	EM20	UMCf	95.1 - 110.1	<1.88	<2.36	<2.56	<2.72	<2.58	<12.1	<2.56	<2.32	<3.84	<2.22
U4-E-03D	6/10/2024	FD	EM20	UMCf	95.1 - 110.1	<1.88	<2.36	<2.56	<2.72	<2.58	<12.1	<2.56	<2.32	<3.84	<2.22
U4-E-03D	9/27/2024	N	EM21	UMCf	95.1 - 110.1	<0.471 UJ	<0.590 UJ	<0.640 UJ	<0.680 UJ	<0.645 UJ	<3.03 UJ	<0.640 UJ	<0.580 UJ	<0.960 UJ	<0.555 UJ
U4-E-03D	9/27/2024	FD	EM21	UMCf	95.1 - 110.1	<0.471 UJ	<0.590 UJ	<0.640 UJ	<0.680 UJ	<0.645 UJ	<3.03 UJ	<0.640 UJ	<0.580 UJ	<0.960 UJ	<0.555 UJ
U4-E-04D	4/19/2022	N	BL02	UMCf	95.0 - 110.0	<0.0941	<0.118	<0.128	2.28	0.947 J	<0.605	<0.128	<0.116	<0.192	2,980
U4-E-04D	3/14/2023	N	EM07	UMCf	95.0 - 110.0	<0.0941	<0.118	<0.128	3.30	0.484 J	<0.605	<0.128	<0.116	<0.192	4.96 J
U4-E-04D	6/20/2024	N	EM20	UMCf	95.0 - 110.0	<0.941	<1.18	<1.28	<1.36	<1.29	<6.05	<1.28	<1.16	<1.92	<1.11
U4-E-04D	9/26/2024	N	EM21	UMCf	95.0 - 110.0	<0.941	<1.18	<1.28	<1.36	<1.29	<6.05	<1.28	<1.16	<1.92	<1.11
U4-E-04I	4/18/2022	N	BL02	UMCf	75.0 - 90.0	<0.0941	<0.118	<0.128	0.591 J	<0.129	<0.605	<0.128	<0.116	<0.192	433
U4-E-04I	3/14/2023	N	EM07	UMCf	75.0 - 90.0	<4.71	<5.90	<6.40	<6.80	<6.45	<30.3	12.3 J	<5.80	<9.60	5,600
U4-E-04I	6/20/2024	N	EM20	UMCf	75.0 - 90.0	<0.941	<1.18	<1.28	<1.36	<1.29	<6.05	<1.28	<1.16	<1.92	3.50 J
U4-E-04I	9/26/2024	N	EM21	UMCf	75.0 - 90.0	<0.941	<1.18	<1.28	<1.36	<1.29	<6.05	<1.28	<1.16	<1.92	<1.11
U4-E-05D	4/19/2022	N	BL02	UMCf	95.0 - 110.0	<0.0941	<0.118	<0.128	4.11	3.20	<0.605	<0.128	<0.116	<0.192	3,780
U4-E-05D	3/16/2023	N	EM07	UMCf	95.0 - 110.0	<0.0941	<0.118	<0.128	0.727 J	<0.129	<0.605	<0.128	<0.116	<0.192	5.23 J+
U4-E-05D	6/10/2024	N	EM20	UMCf	95.0 - 110.0	<1.88	<2.36	<2.56	<2.72	<2.58	<12.1	<2.56	<2.32	<3.84	<2.22
U4-E-05D	9/27/2024	N	EM21	UMCf	95.0 - 110.0	<0.471 UJ	<0.590 UJ	<0.640 UJ	<0.680 UJ	<0.645 UJ	<3.03 UJ	<0.640 UJ	<0.580 UJ	<0.960 UJ	<0.555 UJ
U4-E-05I	4/19/2022	N	BL02	UMCf	75.0 - 90.0	<0.0941	<0.118	<0.128	1.41	1.99	<0.605	<0.128	<0.116	<0.192	516
U4-E-05I	3/15/2023	N	EM07	UMCf	75.0 - 90.0	<0.0941 UJ	<0.118 UJ	<0.128 UJ	3.94 J-	1.44 J-	<0.605 UJ	0.706 J	<0.116 UJ	<0.192 UJ	459 J
U4-E-05I	6/19/2024	N	EM20	UMCf	75.0 - 90.0	<4.71	<5.90	<6.40	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	<5.55
U4-E-05I	9/27/2024	N	EM21	UMCf	75.0 - 90.0	<0.941 UJ	<1.18 UJ	<1.28 UJ	<1.36 UJ	<1.29 UJ	<6.05 UJ	<1.28 UJ	<1.16 UJ	<1.92 UJ	<1.11 UJ
U4-E-06D	4/11/2022	N	BL02	UMCf	95.1 - 110.1	0.186 J	<0.118	<0.128	0.502 J	0.185 J	<0.605	<0.128	<0.116	<0.192	819
U4-E-06D	6/20/2024	N	EM20	UMCf	95.1 - 110.1	<0.941	<1.18	<1.28	<1.36	<1.29	<6.05	<1.28	<1.16	<1.92	<1.11
U4-E-06D	9/27/2024	N	EM21	UMCf	95.1 - 110.1	<0.471 UJ	<0.590 UJ	<0.640 UJ	<0.680 UJ	<0.645 UJ	<3.03 UJ	<0.640 UJ	<0.580 UJ	<0.960 UJ	<0.555 UJ
U4-E-06I	4/11/2022	N	BL02	UMCf	73.2 - 88.2	0.166 J	<0.118	<0.128	0.679 J	<0.129	<0.605	<0.128	<0.116	<0.192	218
U4-E-06I	4/11/2022	FD	BL02	UMCf	73.2 - 88.2	0.153 J	<0.118	<0.128	0.605 J	<0.129	<0.605	<0.128	<0.116	<0.192	215
U4-E-06I	10/12/2022	N	EM02	UMCf	73.2 - 88.2	<0.0941	<0.118	0.445 J	1.58	0.258 J	<0.605	1.14	<0.116	<0.192	<0.111
U4-E-06I	11/3/2022	N	EM03	UMCf	73.2 - 88.2	<0.0941	<0.118	<0.128	1.16 J+	0.235 J	<0.605	0.654 J	<0.116	<0.192	1,740
U4-E-06I	12/6/2022	N	EM04	UMCf	73.2 - 88.2	<0.941 UJ	<1.18 UJ	<1.28 UJ	<1.36 UJ	<1.29 UJ	<6.05 UJ	2.80 J	<1.16 UJ	<1.92 UJ	1,080
U4-E-06I	1/9/2023	N	EM05	UMCf	73.2 - 88.2	<0.0941	<0.118	<0.128	1.18	0.386 J	<0.605	0.877 J	<0.116	<0.192	2,050
U4-E-06I	2/13/2023	N	EM06	UMCf	73.2 - 88.2	<9.41	<11.8	<12.8	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	1,730
U4-E-06I	3/13/2023	N	EM07	UMCf	73.2 - 88.2	<1.88	<2.36	<2.56	<2.72	<2.58	<12.1	<2.56	<2.32	<3.84	923
U4-E-06I	4/17/2023	N	EM08	UMCf	73.2 - 88.2	<1.88	<2.36	<2.56	<2.72	<2.58	<12.1	<2.56	<2.32	<3.84	1,080
U4-E-06I	5/15/2023	N	EM09	UMCf	73.2 - 88.2	<2.35	<2.95	<3.20	<3.40	<3.22	<15.1	<3.20	<2.90	<4.80	1,840
U4-E-06I	6/12/2023	N	EM10	UMCf	73.2 - 88.2	<0.0941	<0.118	<0.128	1.99	0.446 J	<0.605	1.54	<0.116	<0.192	3,080
U4-E-06I	7/11/2023	N	EM11	UMCf	73.2 - 88.2	<0.0941	<0.118	<0.128	1.55	<0.129	<0.605	1.00 J	<0.116	<0.192	2,820
U4-E-06I	8/11/2023	N	EM12	UMCf	73.2 - 88.2	<0.471	<0.590	<0.640	1.57 J	<0.645	<3.03	<0.640	<0.580	<0.960	2,630 J
U4-E-06I	9/11/2023	N	EM13	UMCf	73.2 - 88.2	<0.0941	<0.118	<0.128	0.936 J	0.305 J	<0.605	0.612 J	<0.116	<0.192	1,470
U4-E-06I	10/16/2023	N	EM14	UMCf	73.2 - 88.2	<4.71	<5.90	<6.40	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	1,120
U4-E-06I	12/13/2023	N	EM16	UMCf	73.2 - 88.2	<0.0941	<0.118	<0.128	0.440 J	<0.129	<0.605	<0.128	<0.116	<0.192	765 J+
U4-E-06I	1/22/2024	N	EM17	UMCf	73.2 - 88.2	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	1,020 J+
U4-E-06I	2/13/2024	N	EM18	UMCf	73.2 - 88.2	<4.71	<5.90	<6.40	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	927
U4-E-06I	3/11/2024	N	EM19	UMCf	73.2 - 88.2	<4.71	<5.90	<6.40	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	1,200
U4-E-06I	6/11/2024	N	EM20	UMCf	73.2 - 88.2	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	782
U4-E-06I	9/27/2024	N	EM21	UMCf	73.2 - 88.2	<1.88 UJ	<2.36 UJ	<2.56 UJ	<2.72 UJ	<2.58 UJ	<12.1 UJ	<2.56 UJ	<2.32 UJ	<3.84 UJ	294 J
U4-E-07D	4/12/2022	N	BL02	UMCf	94.6 - 109.6	<0.0941	<0.118	<0.128	3.05	1.20	<0.605	2.62	<0.116	<0.192	5,980
U4-E-07D	6/20/2024	N	EM20	UMCf	94.6 - 109.6	<0.941	<1.18	<1.28	<1.36	<1.29	<6.05	<1.28	<1.16	<1.92	197
U4-E-07D	9/26/2024	N	EM21	UMCf	94.6 - 109.6	<0.941	<1.18	<1.28	<1.36	<1.29	<6.05	<1.28	<1.16	<1.92	132 J+

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-E-07I	4/12/2022	N	BL02	UMCf	74.7 - 89.7	<0.0941	<0.118	<0.128	1.21	0.866 J	<0.605	1.03	<0.116	<0.192	1,140
U4-E-07I	10/11/2022	N	EM02	UMCf	74.7 - 89.7	<0.941	<1.18	<1.28	2.84 J	<1.29	<6.05	5.80 J	<1.16	<1.92	3,920
U4-E-07I	11/3/2022	N	EM03	UMCf	74.7 - 89.7	0.186 J	<0.118	<0.128	4.41	1.98 J+	<0.605	1.58	<0.116	<0.192	3,510
U4-E-07I	12/6/2022	N	EM04	UMCf	74.7 - 89.7	<2.35 UJ	<2.95 UJ	<3.20 UJ	4.68 J	<3.22 UJ	<15.1 UJ	8.58 J	<2.90 UJ	<4.80 UJ	4,200
U4-E-07I	1/9/2023	N	EM05	UMCf	74.7 - 89.7	<0.0941	<0.118	<0.128	4.48	1.88	<0.605	1.92	<0.116	<0.192	3,840
U4-E-07I	2/13/2023	N	EM06	UMCf	74.7 - 89.7	<9.41	<11.8	<12.8	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	3,670
U4-E-07I	3/13/2023	N	EM07	UMCf	74.7 - 89.7	<9.41	<11.8	<12.8	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	3,520
U4-E-07I	4/19/2023	N	EM08	UMCf	74.7 - 89.7	<0.471	<0.590	<0.640	4.35 J	1.69 J	<3.03	1.59 J	<0.580	<0.960	3,410 J+
U4-E-07I	5/15/2023	N	EM09	UMCf	74.7 - 89.7	<9.41	<11.8	<12.8	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	2,910
U4-E-07I	6/12/2023	N	EM10	UMCf	74.7 - 89.7	<0.0941	<0.118	<0.128	3.88	1.06	<0.605	1.69	<0.116	<0.192	2,840
U4-E-07I	7/11/2023	N	EM11	UMCf	74.7 - 89.7	<0.0941	<0.118	<0.128	2.96	1.12	<0.605	1.07	<0.116	<0.192	2,850
U4-E-07I	8/11/2023	N	EM12	UMCf	74.7 - 89.7	<0.471	<0.590	<0.640	2.46 J	<0.645	<3.03	<0.640	<0.580	<0.960	2,840 J
U4-E-07I	9/11/2023	N	EM13	UMCf	74.7 - 89.7	<0.0941	<0.118	<0.128	2.90	1.33	<0.605	2.21	<0.116	<0.192	3,620
U4-E-07I	10/16/2023	N	EM14	UMCf	74.7 - 89.7	<9.41	<11.8	<12.8	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	3,520
U4-E-07I	12/13/2023	N	EM16	UMCf	74.7 - 89.7	<0.0941	<0.118	<0.128	2.84	0.998 J	<0.605	<0.128	<0.116	<0.192	3,950
U4-E-07I	1/23/2024	N	EM17	UMCf	74.7 - 89.7	<0.0941	<0.118	<0.128	1.74	<0.129	<0.605	<0.128	<0.116	<0.192	2,940
U4-E-07I	2/13/2024	N	EM18	UMCf	74.7 - 89.7	<18.8	<23.6	<25.6	<27.2	<25.8	<121	<25.6	<23.2	<38.4	3,660
U4-E-07I	3/11/2024	N	EM19	UMCf	74.7 - 89.7	<18.8	<23.6	<25.6	<27.2	<25.8	<121	<25.6	<23.2	<38.4	4,770
U4-E-07I	6/11/2024	N	EM20	UMCf	74.7 - 89.7	<0.0941	<0.118	<0.128	2.68	0.883 J	<0.605	1.40	<0.116	<0.192	2,830
U4-E-07I	9/26/2024	N	EM21	UMCf	74.7 - 89.7	<9.41	<11.8	<12.8	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	2,480 J+
U4-E-08D	4/12/2022	N	BL02	UMCf	94.6 - 109.6	<0.0941	<0.118	0.298 J	2.74	0.954 J	<0.605	2.96	<0.116	<0.192	7,120
U4-E-08D	10/11/2022	N	EM02	UMCf	94.6 - 109.6	<0.941	<1.18	<1.28	<1.36	<1.29	<6.05	5.96 J	<1.16	<1.92	4,850
U4-E-08D	11/3/2022	N	EM03	UMCf	94.6 - 109.6	<0.0941	<0.118	<0.128	2.56 J+	0.740 J	<0.605	2.84	<0.116	<0.192	5,020
U4-E-08D	12/6/2022	N	EM04	UMCf	94.6 - 109.6	<2.35 UJ	<2.95 UJ	<3.20 UJ	<3.40 UJ	<3.22 UJ	<15.1 UJ	8.37 J	<2.90 UJ	<4.80 UJ	4,090
U4-E-08D	1/9/2023	N	EM05	UMCf	94.6 - 109.6	<0.0941	<0.118	<0.128	1.99	0.639 J	<0.605	1.73	<0.116	<0.192	4,300
U4-E-08D	2/13/2023	N	EM06	UMCf	94.6 - 109.6	<9.41	<11.8	<12.8	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	3,920
U4-E-08D	3/13/2023	N	EM07	UMCf	94.6 - 109.6	<9.41	<11.8	<12.8	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	3,480
U4-E-08D	4/19/2023	N	EM08	UMCf	94.6 - 109.6	<0.471	<0.590	<0.640	1.92 J	<0.645	<3.03	1.54 J	<0.580	<0.960	3,410 J+
U4-E-08D	5/17/2023	N	EM09	UMCf	94.6 - 109.6	<9.41	<11.8	<12.8	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	2,880
U4-E-08D	6/12/2023	N	EM10	UMCf	94.6 - 109.6	<0.0941	<0.118	<0.128	1.54	0.321 J	<0.605	1.44	<0.116	<0.192	2,820
U4-E-08D	7/11/2023	N	EM11	UMCf	94.6 - 109.6	<0.0941	<0.118	<0.128	1.61	<0.129	<0.605	1.06	<0.116	<0.192	2,620
U4-E-09D	4/15/2022	N	BL02	UMCf	94.5 - 109.5	<0.0941	<0.118	<0.128	0.642 J	0.461 J	<0.605	0.533 J	<0.116	<0.192	1,450
U4-E-09D	6/10/2024	N	EM20	UMCf	94.5 - 109.5	<1.88	<2.36	<2.56	<2.72	<2.58	<12.1	<2.56	<2.32	<3.84	<2.22
U4-E-09D	9/27/2024	N	EM21	UMCf	94.5 - 109.5	<1.88 UJ	<2.36 UJ	<2.56 UJ	<2.72 UJ	<2.58 UJ	<12.1 UJ	<2.56 UJ	<2.32 UJ	<3.84 UJ	<2.22 UJ
U4-E-09I	4/14/2022	N	BL02	UMCf	74.9 - 89.9	0.188 J	<0.118	<0.128	1.00 J	0.618 J	<0.605	0.610 J	<0.116	<0.192	1,240
U4-E-09I	6/10/2024	N	EM20	UMCf	74.9 - 89.9	<1.88	<2.36	<2.56	<2.72	<2.58	<12.1	<2.56	<2.32	<3.84	<2.22
U4-E-09I	6/10/2024	FD	EM20	UMCf	74.9 - 89.9	<1.88	<2.36	<2.56	<2.72	<2.58	<12.1	<2.56	<2.32	<3.84	<2.22
U4-E-09I	9/26/2024	N	EM21	UMCf	74.9 - 89.9	<1.88	<2.36	<2.56	<2.72	<2.58	<12.1	<2.56	<2.32	<3.84	<2.22
U4-E-09I	9/26/2024	FD	EM21	UMCf	74.9 - 89.9	<1.88	<2.36	<2.56	<2.72	<2.58	<12.1	<2.56	<2.32	<3.84	<2.22
U4-E-10D	4/13/2022	N	BL02	UMCf	94.5 - 109.5	<0.0941	<0.118	<0.128	1.14	0.707 J	<0.605	0.717 J	<0.116	<0.192	704 J+
U4-E-10D	6/19/2024	N	EM20	UMCf	94.5 - 109.5	<0.941	<1.18	<1.28	<1.36	<1.29	<6.05	<1.28	<1.16	<1.92	<1.11
U4-E-10D	9/25/2024	N	EM21	UMCf	94.5 - 109.5	<0.941	<1.18	<1.28	<1.36	<1.29	<6.05	<1.28	<1.16	<1.92	1,290
U4-E-10I	4/13/2022	N	BL02	UMCf	74.2 - 89.2	<0.0941	<0.118	<0.128	0.478 J	0.509 J	<0.605	0.585 J	<0.116	<0.192	1,330
U4-E-10I	6/11/2024	N	EM20	UMCf	74.2 - 89.2	<9.41	<11.8	<12.8	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	<11.1
U4-E-10I	9/26/2024	N	EM21	UMCf	74.2 - 89.2	<9.41	<11.8	<12.8	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	<11.1
U4-MW-01D	4/19/2022	N	BL02	UMCf	96.7 - 106.7	<0.0941	<0.118	<0.128	0.564 J	0.346 J	<0.605	<0.128	<0.116	<0.192	608
U4-MW-01D	2/16/2023	N	EM06	UMCf	96.7 - 106.7	<0.941	<1.18	<1.28	<1.36	<1.29	<6.05	<1.28	<1.16	<1.92	857

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Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-01D	3/20/2023	N	EM07	UMCf	96.7 - 106.7	<0.0941	<0.118	<0.128	2.14	0.356 J	<0.605	0.863 J	<0.116	<0.192	1,100
U4-MW-01D	6/13/2023	N	EM10	UMCf	96.7 - 106.7	<0.0941	<0.118	<0.128	1.89	0.216 J	<0.605	0.652 J	<0.116	<0.192	871
U4-MW-01D	9/14/2023	N	EM13	UMCf	96.7 - 106.7	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	671
U4-MW-01D	12/14/2023	N	EM16	UMCf	96.7 - 106.7	<0.0941	<0.118	<0.128	1.54	0.184 J	<0.605	0.348 J	<0.116	<0.192	428
U4-MW-01D	3/13/2024	N	EM19	UMCf	96.7 - 106.7	<0.0941	<0.118	<0.128	1.39	0.181 J	<0.605	0.291 J	<0.116	<0.192	612
U4-MW-01D	6/18/2024	N	EM20	UMCf	96.7 - 106.7	<0.0941	<0.118	<0.128	1.41	<0.129	<0.605	0.396 J	<0.116	<0.192	675
U4-MW-01D	9/19/2024	N	EM21	UMCf	96.7 - 106.7	<0.0941	<0.118	<0.128	1.27	0.209 J	<0.605	0.468 J	<0.116	<0.192	818 J+
U4-MW-01DD	4/19/2022	N	BL02	UMCf	119.9 - 129.9	<0.0941	<0.118	<0.128	0.170 J	<0.129	<0.605	<0.128	<0.116	<0.192	21.2
U4-MW-01DD	4/19/2022	FD	BL02	UMCf	119.9 - 129.9	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	20.3
U4-MW-01DD	3/15/2023	N	EM07	UMCf	119.9 - 129.9	<0.0941	<0.118	<0.128	0.644 J	<0.129	<0.605	0.471 J	<0.116	<0.192	363 J+
U4-MW-01DD	6/13/2023	N	EM10	UMCf	119.9 - 129.9	<0.0941	<0.118	<0.128	1.48	0.166 J	<0.605	0.178 J	<0.116	<0.192	374
U4-MW-01DD	9/14/2023	N	EM13	UMCf	119.9 - 129.9	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	417
U4-MW-01DD	12/15/2023	N	EM16	UMCf	119.9 - 129.9	<0.471	<0.590	<0.640	<0.680	<0.645	<3.03	<0.640	<0.580	<0.960	180
U4-MW-01DD	3/12/2024	N	EM19	UMCf	119.9 - 129.9	<0.471	<0.590	<0.640	<0.680	<0.645	<3.03	<0.640	<0.580	<0.960	197
U4-MW-01DD	6/18/2024	N	EM20	UMCf	119.9 - 129.9	<0.0941	<0.118	<0.128	0.181 J	<0.129	<0.605	<0.128	<0.116	<0.192	132
U4-MW-01DD	9/20/2024	N	EM21	UMCf	119.9 - 129.9	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	117
U4-MW-01I	4/19/2022	N	BL02	UMCf	76.7 - 86.7	<0.0941	<0.118	<0.128	0.622 J	0.371 J	<0.605	<0.128	<0.116	<0.192	395
U4-MW-01I	3/20/2023	N	EM07	UMCf	76.7 - 86.7	<0.0941	<0.118	<0.128	1.99	0.431 J	<0.605	0.789 J	<0.116	<0.192	1,060
U4-MW-01I	6/12/2023	N	EM10	UMCf	76.7 - 86.7	<0.0941	<0.118	<0.128	2.08	0.203 J	<0.605	0.793 J	<0.116	<0.192	908
U4-MW-01I	9/14/2023	N	EM13	UMCf	76.7 - 86.7	<0.0941	<0.118	<0.128	2.22	<0.129	<0.605	<0.128	<0.116	<0.192	969
U4-MW-01I	12/15/2023	N	EM16	UMCf	76.7 - 86.7	<4.71	<5.90	<6.40	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	892
U4-MW-01I	3/13/2024	N	EM19	UMCf	76.7 - 86.7	<0.0941	<0.118	<0.128	1.47	0.180 J	<0.605	0.681 J	<0.116	<0.192	1,000
U4-MW-01I	6/18/2024	N	EM20	UMCf	76.7 - 86.7	<0.0941	<0.118	<0.128	1.28	0.202 J	<0.605	0.483 J	<0.116	<0.192	809
U4-MW-01I	9/19/2024	N	EM21	UMCf	76.7 - 86.7	<0.0941	<0.118	<0.128	1.21	0.217 J	<0.605	0.383 J	<0.116	<0.192	1,030 J+
U4-MW-01S	4/18/2022	N	BL02	UMCf	54.7 - 64.7	<0.0941	<0.118	<0.128	0.375 J	0.147 J	<0.605	<0.128	<0.116	<0.192	56.8
U4-MW-01S	3/15/2023	N	EM07	UMCf	54.7 - 64.7	<0.0941	<0.118	<0.128	0.346 J	<0.129	<0.605	0.227 J	<0.116	<0.192	32.5 J+
U4-MW-01S	6/13/2023	N	EM10	UMCf	54.7 - 64.7	<0.0941	<0.118	<0.128	0.294 J	<0.129	<0.605	<0.128	<0.116	<0.192	31.2
U4-MW-01S	9/15/2023	N	EM13	UMCf	54.7 - 64.7	<0.0941	<0.118	<0.128	0.274 J	<0.129	<0.605	<0.128	<0.116	<0.192	35.0
U4-MW-01S	12/13/2023	N	EM16	UMCf	54.7 - 64.7	<0.0941	<0.118	<0.128	0.305 J	<0.129	<0.605	<0.128	<0.116	<0.192	26.7 J+
U4-MW-01S	3/13/2024	N	EM19	UMCf	54.7 - 64.7	<0.0941	<0.118	<0.128	0.190 J	<0.129	<0.605	<0.128	<0.116	<0.192	27.5
U4-MW-01S	6/18/2024	N	EM20	UMCf	54.7 - 64.7	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	12.5
U4-MW-01S	9/20/2024	N	EM21	UMCf	54.7 - 64.7	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	0.817 J
U4-MW-02D	4/14/2022	N	BL02	UMCf	95.0 - 110.0	<0.0941	<0.118	<0.128	9.08	5.28	<0.605	2.50	<0.116	<0.192	8,990
U4-MW-02D	10/11/2022	N	EM02	UMCf	95.0 - 110.0	<0.0941	<0.118	<0.128	13.2	6.19	<0.605	5.24	<0.116	<0.192	10,700
U4-MW-02D	11/1/2022	N	EM03	UMCf	95.0 - 110.0	<4.71	<5.90	<6.40	10.6 J	<6.45	<30.3	<6.40	<5.80	<9.60	4,950
U4-MW-02D	12/7/2022	N	EM04	UMCf	95.0 - 110.0	<0.0941	<0.118	<0.128	12.1	5.74	<0.605	<0.128	<0.116	<0.192	11,200
U4-MW-02D	1/10/2023	N	EM05	UMCf	95.0 - 110.0	<0.0941	<0.118	<0.128	9.38	4.64	<0.605	<0.128	<0.116	<0.192	7,970
U4-MW-02D	2/13/2023	N	EM06	UMCf	95.0 - 110.0	<9.41	<0.118	<0.128	10.7	3.75	<0.605	4.15	<0.116	<0.192	7,230
U4-MW-02D	3/17/2023	N	EM07	UMCf	95.0 - 110.0	<9.41	<11.8	<12.8	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	9,500
U4-MW-02D	4/19/2023	N	EM08	UMCf	95.0 - 110.0	<0.471	<0.590	<0.640	9.38	3.77 J	<3.03	2.96 J	<0.580	<0.960	10,100 J+
U4-MW-02D	5/9/2023	N	EM09	UMCf	95.0 - 110.0	<0.471	<0.590	<0.640	9.24	3.51 J	<3.03	8.04	<0.580	<0.960	10,300
U4-MW-02D	6/13/2023	N	EM10	UMCf	95.0 - 110.0	<0.0941	<0.118	<0.128	7.28	3.82	<0.605	2.24	<0.116	<0.192	<0.111
U4-MW-02D	7/18/2023	N	EM11	UMCf	95.0 - 110.0	<0.0941	<0.118	<0.128	9.63	5.00	<0.605	<0.128	<0.116	<0.192	10,700
U4-MW-02D	8/14/2023	N	EM12	UMCf	95.0 - 110.0	<23.5	<29.5	<32.0	<34.0	<32.3	<151	<32.0	<29.0	<48.0	7,970
U4-MW-02D	9/11/2023	N	EM13	UMCf	95.0 - 110.0	<0.0941	<0.118	<0.128	7.33	3.71	<0.605	3.41	<0.116	<0.192	8,840
U4-MW-02D	10/19/2023	N	EM14	UMCf	95.0 - 110.0	<0.0941	<0.118	<0.128	10.9	4.73	<0.605	<0.128	<0.116	<0.192	10,200
U4-MW-02D	11/15/2023	N	EM15	UMCf	95.0 - 110.0	<9.41	<11.8	<12.8	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	8,080

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-02D	12/14/2023	N	EM16	UMCf	95.0 - 110.0	<9.41	<11.8	<12.8	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	6,310
U4-MW-02D	1/25/2024	N	EM17	UMCf	95.0 - 110.0	<0.0941	<0.118	<0.128	8.30	3.74	<0.605	<0.128	<0.116	<0.192	6,250 J+
U4-MW-02D	2/12/2024	N	EM18	UMCf	95.0 - 110.0	<0.0941	<0.118	<0.128	6.16	2.57	<0.605	<0.128	<0.116	<0.192	6,880
U4-MW-02D	3/13/2024	N	EM19	UMCf	95.0 - 110.0	<0.0941	<0.118	<0.128	6.99	2.78	<0.605	2.21	<0.116	<0.192	7,740 J+
U4-MW-02D	6/17/2024	N	EM20	UMCf	95.0 - 110.0	<0.0941	<0.118	<0.128	5.39	2.45	<0.605	<0.128	<0.116	<0.192	5,500
U4-MW-02D	9/23/2024	N	EM21	UMCf	95.0 - 110.0	<0.0941	<0.118	<0.128	6.01	3.43	<0.605	2.21	<0.116	<0.192	6,810
U4-MW-02I	4/14/2022	N	BL02	UMCf	75.0 - 90.0	<0.0941	<0.118	<0.128	2.73	1.62	<0.605	0.809 J	<0.116	<0.192	1,380
U4-MW-02I	10/11/2022	N	EM02	UMCf	75.0 - 90.0	<0.0941	<0.118	<0.128	4.87	2.46	<0.605	2.06	<0.116	<0.192	2,860
U4-MW-02I	11/2/2022	N	EM03	UMCf	75.0 - 90.0	<0.941	<1.18	<1.28	3.93 J	<1.29	<6.05	<1.28	<1.16	<1.92	3,760
U4-MW-02I	11/2/2022	FD	EM03	UMCf	75.0 - 90.0	<0.941	<1.18	<1.28	2.76 J	<1.29	<6.05	5.26 J	<1.16	<1.92	3,760
U4-MW-02I	12/8/2022	N	EM04	UMCf	75.0 - 90.0	<0.0941	<0.118	<0.128	0.766 J	0.454 J	<0.605	0.173 J	<0.116	<0.192	474
U4-MW-02I	12/8/2022	FD	EM04	UMCf	75.0 - 90.0	<0.0941	<0.118	<0.128	0.924 J	0.569 J	<0.605	0.214 J	<0.116	<0.192	462
U4-MW-02I	1/13/2023	N	EM05	UMCf	75.0 - 90.0	<0.941	<1.18	<1.28	2.62 J	<1.29	<6.05	<1.28	<1.16	<1.92	1,910
U4-MW-02I	1/13/2023	FD	EM05	UMCf	75.0 - 90.0	<0.941	<1.18	<1.28	3.20 J	<1.29	<6.05	<1.28	<1.16	<1.92	1,890
U4-MW-02I	2/15/2023	N	EM06	UMCf	75.0 - 90.0	<0.941	<1.18	<1.28	8.86 J	5.67 J	<6.05	<1.28	<1.16	<1.92	6,040
U4-MW-02I	2/15/2023	FD	EM06	UMCf	75.0 - 90.0	<0.941	<1.18	<1.28	8.84 J	6.04 J	<6.05	<1.28	<1.16	<1.92	6,030
U4-MW-02I	3/17/2023	N	EM07	UMCf	75.0 - 90.0	<18.8	<23.6	<25.6	<27.2	<25.8	<121	<25.6	<23.2	<38.4	7,070
U4-MW-02I	3/17/2023	FD	EM07	UMCf	75.0 - 90.0	<18.8	<23.6	<25.6	<27.2	<25.8	<121	<25.6	<23.2	<38.4	7,210
U4-MW-02I	4/20/2023	N	EM08	UMCf	75.0 - 90.0	<0.0941	<0.118	<0.128	0.189 J	<0.129	<0.605	<0.128	<0.116	<0.192	128
U4-MW-02I	4/20/2023	FD	EM08	UMCf	75.0 - 90.0	<0.0941	<0.118	<0.128	0.188 J	<0.129	<0.605	<0.128	<0.116	<0.192	134
U4-MW-02I	5/9/2023	N	EM09	UMCf	75.0 - 90.0	<0.0941	<0.118	<0.128	0.204 J	<0.129	<0.605	<0.128	<0.116	<0.192	313
U4-MW-02I	5/9/2023	FD	EM09	UMCf	75.0 - 90.0	<0.0941	<0.118	<0.128	0.228 J	<0.129	<0.605	<0.128	<0.116	<0.192	301 J+
U4-MW-02I	6/12/2023	N	EM10	UMCf	75.0 - 90.0	<0.0941	<0.118	<0.128	0.371 J	<0.129	<0.605	<0.128	<0.116	<0.192	390
U4-MW-02I	6/12/2023	FD	EM10	UMCf	75.0 - 90.0	<0.0941	<0.118	<0.128	0.294 J	<0.129	<0.605	<0.128	<0.116	<0.192	385
U4-MW-02I	7/18/2023	N	EM11	UMCf	75.0 - 90.0	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	118
U4-MW-02I	7/18/2023	FD	EM11	UMCf	75.0 - 90.0	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	143
U4-MW-02I	8/11/2023	N	EM12	UMCf	75.0 - 90.0	<0.0941	<0.118	<0.128	2.03	0.743 J	<0.605	<0.128	<0.116	<0.192	1,860 J
U4-MW-02I	8/11/2023	FD	EM12	UMCf	75.0 - 90.0	<0.0941	<0.118	<0.128	2.10	0.833 J	<0.605	<0.128	<0.116	<0.192	1,910 J
U4-MW-02I	9/11/2023	N	EM13	UMCf	75.0 - 90.0	<0.0941	<0.118	<0.128	1.13	0.404 J	<0.605	0.320 J	<0.116	<0.192	1,270 J
U4-MW-02I	9/11/2023	FD	EM13	UMCf	75.0 - 90.0	<0.0941	<0.118	<0.128	1.64	0.713 J	<0.605	0.722 J	<0.116	<0.192	2,040 J
U4-MW-02I	10/19/2023	N	EM14	UMCf	75.0 - 90.0	<0.0941 UJ	<0.118 UJ	<0.128 UJ	4.68 J-	1.82 J-	<0.605 UJ	<0.128 UJ	<0.116 UJ	<0.192 UJ	3,570 J-
U4-MW-02I	10/19/2023	FD	EM14	UMCf	75.0 - 90.0	<0.0941	<0.118	<0.128	5.37	2.05	<0.605	<0.128	<0.116	<0.192	4,030
U4-MW-02I	11/15/2023	N	EM15	UMCf	75.0 - 90.0	<4.71	<5.90	<6.40	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	3,240
U4-MW-02I	11/15/2023	FD	EM15	UMCf	75.0 - 90.0	<4.71	<5.90	<6.40	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	3,230
U4-MW-02I	12/14/2023	N	EM16	UMCf	75.0 - 90.0	<4.71	<5.90	<6.40	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	3,480
U4-MW-02I	12/14/2023	FD	EM16	UMCf	75.0 - 90.0	<4.71	<5.90	<6.40	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	3,370
U4-MW-02I	1/25/2024	N	EM17	UMCf	75.0 - 90.0	<0.0941	<0.118	<0.128	6.26	3.17	<0.605	3.80 J+	<0.116	<0.192	4,980 J
U4-MW-02I	1/25/2024	FD	EM17	UMCf	75.0 - 90.0	<0.0941	<0.118	<0.128	5.91	2.87	<0.605	3.32 J+	<0.116	<0.192	4,170 J
U4-MW-02I	2/12/2024	N	EM18	UMCf	75.0 - 90.0	<0.0941	<0.118	<0.128	6.02	2.52	<0.605	2.31	<0.116	<0.192	4,640
U4-MW-02I	2/12/2024	FD	EM18	UMCf	75.0 - 90.0	<0.0941	<0.118	<0.128	5.59	2.41	<0.605	2.15	<0.116	<0.192	4,680
U4-MW-02I	3/13/2024	N	EM19	UMCf	75.0 - 90.0	<0.0941	<0.118	<0.128	<0.136	2.03	<0.605	1.57	<0.116	<0.192	4,890 J+
U4-MW-02I	3/13/2024	FD	EM19	UMCf	75.0 - 90.0	<0.0941	<0.118	<0.128	<0.136	2.28	<0.605	1.85	<0.116	<0.192	4,940 J+
U4-MW-02I	6/17/2024	N	EM20	UMCf	75.0 - 90.0	<4.71	<5.90	<6.40	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	2,500
U4-MW-02I	6/17/2024	FD	EM20	UMCf	75.0 - 90.0	<4.71	<5.90	<6.40	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	2,510
U4-MW-02I	9/23/2024	N	EM21	UMCf	75.0 - 90.0	<0.0941	<0.118	<0.128	3.60	1.59	<0.605	0.823 J	<0.116	<0.192	2,720
U4-MW-02I	9/23/2024	FD	EM21	UMCf	75.0 - 90.0	<0.0941	<0.118	<0.128	3.35	1.61	<0.605	0.901 J	<0.116	<0.192	2,920
U4-MW-03D	4/20/2022	N	BL02	UMCf	96.6 - 106.6	<0.0941	<0.118	<0.128	1.81 J+	0.629 J	<0.605	<0.128	<0.116	<0.192	2,270

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Table 2
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Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-03D	2/16/2023	N	EM06	UMCf	96.6 - 106.6	<4.71	<0.590	<0.640	1.71 J	<0.645	<3.03	0.835 J	<0.580	<0.960	1,350
U4-MW-03D	3/16/2023	N	EM07	UMCf	96.6 - 106.6	4.74 J	<2.36	<2.56	<2.72	<2.58	<12.1	<2.56	<2.32	<3.84	1,670
U4-MW-03D	3/16/2023	FD	EM07	UMCf	96.6 - 106.6	<2.35 UJ	<0.590	<0.640	<0.680	<0.645	<3.03	<0.640	<0.580	<0.960	1,620
U4-MW-03D	6/15/2023	N	EM10	UMCf	96.6 - 106.6	<0.0941	<0.118	<0.128	1.13	<0.129	<0.605	<0.128	<0.116	<0.192	1,130 J+
U4-MW-03D	9/14/2023	N	EM13	UMCf	96.6 - 106.6	<0.0941	<0.118	<0.128	2.75	<0.129	<0.605	<0.128	<0.116	<0.192	2,150
U4-MW-03D	12/13/2023	N	EM16	UMCf	96.6 - 106.6	<0.0941	<0.118	<0.128	1.91	0.573 J	<0.605	0.987 J	<0.116	<0.192	1,600
U4-MW-03D	3/15/2024	N	EM19	UMCf	96.6 - 106.6	<0.0941	<0.118	<0.128	1.02	0.203 J	<0.605	<0.128	<0.116	<0.192	882
U4-MW-03D	6/17/2024	N	EM20	UMCf	96.6 - 106.6	<4.71	<5.90	<6.40	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	1,120
U4-MW-03D	9/18/2024	N	EM21	UMCf	96.6 - 106.6	<0.0941	<0.118	<0.128	0.922 J	0.163 J	<0.605	0.281 J	<0.116	<0.192	1,340
U4-MW-03DD	4/20/2022	N	BL02	UMCf	119.7 - 129.7	<0.0941	<0.118	<0.128	0.152 J	<0.129	<0.605	<0.128	<0.116	<0.192	173
U4-MW-03DD	3/15/2023	N	EM07	UMCf	119.7 - 129.7	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	4.62 J
U4-MW-03DD	6/15/2023	N	EM10	UMCf	119.7 - 129.7	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	1.95 J
U4-MW-03DD	9/14/2023	N	EM13	UMCf	119.7 - 129.7	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	2.98 J
U4-MW-03DD	12/14/2023	N	EM16	UMCf	119.7 - 129.7	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	2.42 J
U4-MW-03DD	3/14/2024	N	EM19	UMCf	119.7 - 129.7	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	2.21 J
U4-MW-03DD	6/17/2024	N	EM20	UMCf	119.7 - 129.7	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	1.36 J
U4-MW-03DD	9/18/2024	N	EM21	UMCf	119.7 - 129.7	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	1.17 J
U4-MW-03I	4/19/2022	N	BL02	UMCf	76.6 - 86.6	<0.0941	<0.118	<0.128	0.846 J	0.580 J	<0.605	<0.128	<0.116	<0.192	277
U4-MW-03I	3/15/2023	N	EM07	UMCf	76.6 - 86.6	<0.0941	<0.118	<0.128	2.03	0.539 J	<0.605	0.737 J	<0.116	<0.192	1,210 J+
U4-MW-03I	6/14/2023	N	EM10	UMCf	76.6 - 86.6	<1.88	<2.36	<2.56	<2.72	<2.58	<12.1	<2.56	<2.32	<3.84	884 J
U4-MW-03I	6/14/2023	FD	EM10	UMCf	76.6 - 86.6	<2.35	<2.95	<3.20	<3.40	<3.22	<15.1	<3.20	<2.90	<4.80	1,220 J
U4-MW-03I	9/11/2023	N	EM13	UMCf	76.6 - 86.6	<0.0941	<0.118	<0.128	2.32	0.674 J	<0.605	1.43	<0.116	<0.192	1,470 J
U4-MW-03I	9/11/2023	FD	EM13	UMCf	76.6 - 86.6	<0.0941	<0.118	<0.128	2.14	0.706 J	<0.605	1.17	<0.116	<0.192	912 J
U4-MW-03I	12/13/2023	N	EM16	UMCf	76.6 - 86.6	<0.0941	<0.118	<0.128	1.69	0.578 J	<0.605	<0.128	<0.116	<0.192	1,390
U4-MW-03I	12/13/2023	FD	EM16	UMCf	76.6 - 86.6	<0.0941	<0.118	<0.128	1.75	0.505 J	<0.605	0.999 J	<0.116	<0.192	1,470 J+
U4-MW-03I	3/14/2024	N	EM19	UMCf	76.6 - 86.6	<4.71	<5.90	<6.40	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	1,100
U4-MW-03I	3/14/2024	FD	EM19	UMCf	76.6 - 86.6	<4.71	<5.90	<6.40	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	1,030
U4-MW-03I	6/19/2024	N	EM20	UMCf	76.6 - 86.6	<4.71	<5.90	<6.40	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	616
U4-MW-03I	6/19/2024	FD	EM20	UMCf	76.6 - 86.6	<4.71	<5.90	<6.40	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	615
U4-MW-03I	9/20/2024	N	EM21	UMCf	76.6 - 86.6	<0.471	<0.590	<0.640	<0.680	<0.645	<3.03	<0.640	<0.580	<0.960	78.5 J+
U4-MW-03I	9/20/2024	FD	EM21	UMCf	76.6 - 86.6	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	<0.111
U4-MW-03S	4/18/2022	N	BL02	UMCf	54.5 - 64.5	<0.0941	<0.118 UJ	<0.128	0.176 J	<0.129	<0.605	<0.128	<0.116	<0.192	45.1
U4-MW-03S	4/18/2022	FD	BL02	UMCf	54.5 - 64.5	<0.0941	<0.118 UJ	<0.128	0.182 J	<0.129	<0.605	<0.128	<0.116	<0.192	44.1
U4-MW-03S	3/15/2023	N	EM07	UMCf	54.5 - 64.5	<0.0941	<0.118	<0.128	0.383 J	0.218 J	<0.605	0.312 J	<0.116	<0.192	76.3
U4-MW-03S	6/15/2023	N	EM10	UMCf	54.5 - 64.5	<0.0941	<0.118	<0.128	0.259 J	<0.129	<0.605	<0.128	<0.116	<0.192	59.9
U4-MW-03S	9/14/2023	N	EM13	UMCf	54.5 - 64.5	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	81.5
U4-MW-03S	12/13/2023	N	EM16	UMCf	54.5 - 64.5	<0.0941	<0.118	<0.128	0.261 J	<0.129	<0.605	<0.128	<0.116	<0.192	70.6
U4-MW-03S	3/14/2024	N	EM19	UMCf	54.5 - 64.5	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	59.2
U4-MW-03S	6/14/2024	N	EM20	UMCf	54.5 - 64.5	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	33.8
U4-MW-03S	9/18/2024	N	EM21	UMCf	54.5 - 64.5	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	30.9
U4-MW-04D	4/19/2022	N	BL02	UMCf	97.0 - 107.0	<0.0941	<0.118	<0.128	4.27	1.46	<0.605	<0.128	<0.116	<0.192	6,140
U4-MW-04D	2/16/2023	N	EM06	UMCf	97.0 - 107.0	<4.71	<5.90	<6.40	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	1,240
U4-MW-04D	3/21/2023	N	EM07	UMCf	97.0 - 107.0	<0.0941	<0.118	<0.128	2.44	<0.129	<0.605	<0.128	<0.116	<0.192	1,160
U4-MW-04D	6/14/2023	N	EM10	UMCf	97.0 - 107.0	<0.0941	<0.118	<0.128	1.56	0.221 J	<0.605	<0.128	<0.116	<0.192	891
U4-MW-04D	9/15/2023	N	EM13	UMCf	97.0 - 107.0	<0.0941	<0.118	<0.128	1.78	<0.129	<0.605	<0.128	<0.116	<0.192	1,430
U4-MW-04D	12/12/2023	N	EM16	UMCf	97.0 - 107.0	<0.0941	<0.118	<0.128	1.26	<0.129	<0.605	<0.128	<0.116	<0.192	979 J+
U4-MW-04D	3/12/2024	N	EM19	UMCf	97.0 - 107.0	<4.71	<5.90	<6.40	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	841

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-04D	6/19/2024	N	EM20	UMCf	97.0 - 107.0	<4.71	<5.90	<6.40	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	835
U4-MW-04D	9/24/2024	N	EM21	UMCf	97.0 - 107.0	<0.0941	<0.118	<0.128	1.66	0.584 J	<0.605	<0.128	<0.116	<0.192	1,940 J+
U4-MW-04I	4/19/2022	N	BL02	UMCf	76.8 - 86.8	<0.0941	<0.118	<0.128	1.86	0.968 J	<0.605	<0.128	<0.116	<0.192	1,830
U4-MW-04I	3/20/2023	N	EM07	UMCf	76.8 - 86.8	<0.0941	<0.118	<0.128	2.91	0.558 J	<0.605	1.26	<0.116	<0.192	2,350
U4-MW-04I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<0.471	<0.590	<0.640	1.90 J	<0.645	<3.03	1.01 J	<0.580	<0.960	2,250
U4-MW-04I	9/14/2023	N	EM13	UMCf	76.8 - 86.8	<0.0941	<0.118	<0.128	3.07	<0.129	<0.605	<0.128	<0.116	<0.192	3,860
U4-MW-04I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	<0.0941	<0.118	<0.128	4.31	1.09	<0.605	<0.128	<0.116	<0.192	4,550 J+
U4-MW-04I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	<18.8	<23.6	<25.6	<27.2	<25.8	<121	<25.6	<23.2	<38.4	4,860
U4-MW-04I	6/18/2024	N	EM20	UMCf	76.8 - 86.8	<0.471	<0.590	<0.640	3.63 J	1.23 J	<3.03	1.27 J	<0.580	<0.960	4,240
U4-MW-04I	9/24/2024	N	EM21	UMCf	76.8 - 86.8	<0.0941	<0.118	<0.128	4.41	1.74	<0.605	<0.128	<0.116	<0.192	5,420
U4-MW-05D	4/15/2022	N	BL02	UMCf	98.2 - 108.2	<0.0941	<0.118	<0.128	14.8	8.45 J-	<0.605	3.80	<0.116	<0.192	6,320
U4-MW-05D	10/13/2022	N	EM02	UMCf	98.2 - 108.2	<9.41	<11.8	<12.8	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	5,350
U4-MW-05D	11/3/2022	N	EM03	UMCf	98.2 - 108.2	<0.0941	<0.118	<0.128	11.3	5.15	<0.605	1.89	<0.116	<0.192	3,790
U4-MW-05D	12/7/2022	N	EM04	UMCf	98.2 - 108.2	<0.0941	<0.118	<0.128	12.9	6.25	<0.605	<0.128	<0.116	<0.192	3,950
U4-MW-05D	1/11/2023	N	EM05	UMCf	98.2 - 108.2	<0.0941	<0.118	<0.128	11.2	5.71	<0.605	<0.128	<0.116	<0.192	3,990
U4-MW-05D	2/14/2023	N	EM06	UMCf	98.2 - 108.2	<9.41	<11.8	<12.8	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	2,590
U4-MW-05D	3/16/2023	N	EM07	UMCf	98.2 - 108.2	<9.41	<11.8	<12.8	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	2,710 J+
U4-MW-05D	4/20/2023	N	EM08	UMCf	98.2 - 108.2	<0.0941	<0.118	<0.128	5.26	1.92	<0.605	0.960 J	<0.116	<0.192	1,950
U4-MW-05D	5/10/2023	N	EM09	UMCf	98.2 - 108.2	<0.0941	<0.118	<0.128	4.76	1.58	<0.605	<0.128	<0.116	<0.192	1,630
U4-MW-05D	6/15/2023	N	EM10	UMCf	98.2 - 108.2	<0.0941	<0.118	<0.128	2.36	0.972 J	<0.605	<0.128	<0.116	<0.192	1,510 J+
U4-MW-05D	7/18/2023	N	EM11	UMCf	98.2 - 108.2	<0.0941	<0.118	<0.128	2.89	1.40	<0.605	<0.128	<0.116	<0.192	1,950
U4-MW-05D	8/14/2023	N	EM12	UMCf	98.2 - 108.2	<2.35	<2.95	<3.20	<3.40	<3.22	<15.1	<3.20	<2.90	<4.80	2,150
U4-MW-05D	9/12/2023	N	EM13	UMCf	98.2 - 108.2	<2.35	<2.95	<3.20	<3.40	<3.22	<15.1	<3.20	<2.90	<4.80	756
U4-MW-05D	10/18/2023	N	EM14	UMCf	98.2 - 108.2	<2.35	<2.95	<3.20	<3.40	<3.22	<15.1	<3.20	<2.90	<4.80	1,010
U4-MW-05D	11/16/2023	N	EM15	UMCf	98.2 - 108.2	<2.35	<2.95	<3.20	<3.40	<3.22	<15.1	<3.20	<2.90	<4.80	1,670
U4-MW-05D	12/14/2023	N	EM16	UMCf	98.2 - 108.2	<2.35	<2.95	<3.20	<3.40	<3.22	<15.1	<3.20	<2.90	<4.80	915
U4-MW-05D	1/26/2024	N	EM17	UMCf	98.2 - 108.2	<0.0941	<0.118	<0.128	3.21	1.22	<0.605	<0.128	<0.116	<0.192	2,050 J+
U4-MW-05D	2/14/2024	N	EM18	UMCf	98.2 - 108.2	<0.0941	<0.118	<0.128	3.43	1.30	<0.605	<0.128	<0.116	<0.192	2,010
U4-MW-05D	3/12/2024	N	EM19	UMCf	98.2 - 108.2	<2.35	<2.95	<3.20	<3.40	<3.22	<15.1	<3.20	<2.90	<4.80	850
U4-MW-05D	6/18/2024	N	EM20	UMCf	98.2 - 108.2	<0.0941	<0.118	<0.128	2.95	0.806 J	<0.605	<0.128	<0.116	<0.192	1,730
U4-MW-05D	9/25/2024	N	EM21	UMCf	98.2 - 108.2	<4.71 UJ	<5.90 UJ	<6.40 UJ	<6.80 UJ	<6.45 UJ	<30.3 UJ	<6.40 UJ	<5.80 UJ	<9.60 UJ	2,670 J
U4-MW-05I	4/15/2022	N	BL02	UMCf	76.6 - 86.6	<0.0941	<0.118	<0.128	9.46	5.71 J-	<0.605	2.53	<0.116	<0.192	3,530
U4-MW-05I	10/13/2022	N	EM02	UMCf	76.6 - 86.6	<9.41	<11.8	<12.8	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	5,930
U4-MW-05I	11/3/2022	N	EM03	UMCf	76.6 - 86.6	<0.0941	<0.118	<0.128	15.2	8.95	<0.605	3.70	<0.116	<0.192	5,800
U4-MW-05I	12/8/2022	N	EM04	UMCf	76.6 - 86.6	<0.0941	<0.118	<0.128	14.5	8.16	<0.605	3.07	<0.116	<0.192	3,970
U4-MW-05I	1/11/2023	N	EM05	UMCf	76.6 - 86.6	<0.0941	<0.118	<0.128	12.4	6.41	<0.605	2.70	<0.116	<0.192	4,040
U4-MW-05I	2/14/2023	N	EM06	UMCf	76.6 - 86.6	<9.41	<11.8	<12.8	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	3,270
U4-MW-05I	3/14/2023	N	EM07	UMCf	76.6 - 86.6	<9.41	<11.8	<12.8	20.3 J	<12.9	<60.5	<12.8	<11.6	<19.2	6,720
U4-MW-05I	4/21/2023	N	EM08	UMCf	76.6 - 86.6	<0.0941	<0.118	<0.128	2.29	0.809 J	<0.605	0.368 J	<0.116	<0.192	646 J+
U4-MW-05I	5/10/2023	N	EM09	UMCf	76.6 - 86.6	<0.0941	<0.118	<0.128	0.375 J	<0.129	<0.605	<0.128	<0.116	<0.192	531
U4-MW-05I	6/15/2023	N	EM10	UMCf	76.6 - 86.6	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	415 J+
U4-MW-05I	7/17/2023	N	EM11	UMCf	76.6 - 86.6	<0.0941	<0.118	<0.128	3.26	1.21	<0.605	0.471 J	<0.116	<0.192	1,830
U4-MW-05I	8/14/2023	N	EM12	UMCf	76.6 - 86.6	<4.71	<5.90	<6.40	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	1,620
U4-MW-05I	9/13/2023	N	EM13	UMCf	76.6 - 86.6	<0.0941	<0.118	<0.128	1.72	0.525 J	<0.605	0.192 J	<0.116	<0.192	985
U4-MW-05I	10/18/2023	N	EM14	UMCf	76.6 - 86.6	<4.71	<5.90	<6.40	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	920
U4-MW-05I	11/15/2023	N	EM15	UMCf	76.6 - 86.6	<4.71	<5.90	<6.40	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	1,310
U4-MW-05I	12/12/2023	N	EM16	UMCf	76.6 - 86.6	<0.0941	<0.118	<0.128	2.15	0.759 J	<0.605	<0.128	<0.116	<0.192	1,800 J+

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						Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-05I	1/26/2024	N	EM17	UMCf	76.6 - 86.6	<0.0941	<0.118	<0.128	3.28	1.17	<0.605	<0.128	<0.116	<0.192	2,400 J+
U4-MW-05I	2/14/2024	N	EM18	UMCf	76.6 - 86.6	<0.0941	<0.118	<0.128	2.72	1.02	<0.605	<0.128	<0.116	<0.192	2,380
U4-MW-05I	3/11/2024	N	EM19	UMCf	76.6 - 86.6	<0.0941	<0.118	0.132 J	2.82	0.820 J	<0.605	<0.128	<0.116	<0.192	2,010
U4-MW-05I	6/18/2024	N	EM20	UMCf	76.6 - 86.6	<0.0941	<0.118	<0.128	2.36	0.701 J	<0.605	<0.128	<0.116	<0.192	2,190
U4-MW-05I	9/25/2024	N	EM21	UMCf	76.6 - 86.6	<9.41	<11.8	<12.8	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	1,920
U4-MW-06D	4/19/2022	N	BL02	UMCf	97.1 - 107.1	<0.0941	<0.118	<0.128	10.0	5.10	<0.605	<0.128	<0.116	<0.192	4,840
U4-MW-06D	2/15/2023	N	EM06	UMCf	97.1 - 107.1	<4.71	<5.90	<6.40	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	2,110
U4-MW-06D	3/21/2023	N	EM07	UMCf	97.1 - 107.1	<0.0941	<0.118	<0.128	6.74	1.89	<0.605	<0.128	<0.116	<0.192	2,440 J+
U4-MW-06D	6/16/2023	N	EM10	UMCf	97.1 - 107.1	<0.0941	<0.118	<0.128	4.96	1.48	<0.605	1.13	<0.116	<0.192	1,920
U4-MW-06D	9/13/2023	N	EM13	UMCf	97.1 - 107.1	<0.0941	<0.118	<0.128	3.65	0.843 J	<0.605	<0.128	<0.116	<0.192	1,650
U4-MW-06D	12/13/2023	N	EM16	UMCf	97.1 - 107.1	<0.0941	<0.118	<0.128	4.15	1.63	<0.605	<0.128	<0.116	<0.192	1,950
U4-MW-06D	3/14/2024	N	EM19	UMCf	97.1 - 107.1	<4.71	<5.90	<6.40	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	1,740
U4-MW-06D	6/12/2024	N	EM20	UMCf	97.1 - 107.1	<0.0941	<0.118	<0.128	2.16	0.895 J	<0.605	<0.128	<0.116	<0.192	1,190
U4-MW-06D	9/20/2024	N	EM21	UMCf	97.1 - 107.1	<0.941	<1.18	<1.28	1.62 J	<1.29	<6.05	<1.28	<1.16	<1.92	2,750 J+
U4-MW-06I	4/19/2022	N	BL02	UMCf	76.5 - 86.5	0.128 J	<0.118	<0.128	0.674 J	0.297 J	<0.605	<0.128	<0.116	<0.192	217
U4-MW-06I	3/14/2023	N	EM07	UMCf	76.5 - 86.5	<0.0941	<0.118	<0.128	7.41	4.03	<0.605	1.67	<0.116	<0.192	3,220
U4-MW-06I	6/16/2023	N	EM10	UMCf	76.5 - 86.5	<0.0941	<0.118	<0.128	6.36	2.39	<0.605	1.75	<0.116	<0.192	2,420
U4-MW-06I	9/12/2023	N	EM13	UMCf	76.5 - 86.5	<4.71	<5.90	<6.40	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	2,620
U4-MW-06I	12/12/2023	N	EM16	UMCf	76.5 - 86.5	<0.0941	<0.118	<0.128	6.15	2.38	<0.605	<0.128	<0.116	<0.192	2,770 J+
U4-MW-06I	3/14/2024	N	EM19	UMCf	76.5 - 86.5	<9.41	<11.8	<12.8	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	2,950
U4-MW-06I	6/11/2024	N	EM20	UMCf	76.5 - 86.5	<0.0941	<0.118	<0.128	4.08	1.32	<0.605	0.549 J	<0.116	<0.192	2,210
U4-MW-06I	9/20/2024	N	EM21	UMCf	76.5 - 86.5	<2.35	<2.95	<3.20	<3.40	<3.22	<15.1	<3.20	<2.90	<4.80	2,080
U4-MW-07D	4/15/2022	N	BL02	UMCf	96.8 - 106.5	<0.0941	<0.118	<0.128	1.13	0.515 J	<0.605	0.461 J	0.137 J	<0.192	1,330
U4-MW-07D	10/12/2022	N	EM02	UMCf	96.8 - 106.5	<0.0941	<0.118	<0.128	3.77	0.211 J	<0.605	0.373 J	<0.116	<0.192	113
U4-MW-07D	10/12/2022	FD	EM02	UMCf	96.8 - 106.5	<0.0941	<0.118	<0.128	2.98	0.201 J	<0.605	<0.128	<0.116	<0.192	95.5
U4-MW-07D	11/3/2022	N	EM03	UMCf	96.8 - 106.5	<0.0941	<0.118	<0.128	3.76	0.280 J	<0.605	<0.128	<0.116	<0.192	146
U4-MW-07D	12/7/2022	N	EM04	UMCf	96.8 - 106.5	<0.0941	<0.118	<0.128	3.77	0.338 J	<0.605	<0.128	<0.116	<0.192	101
U4-MW-07D	1/11/2023	N	EM05	UMCf	96.8 - 106.5	<0.0941	<0.118	<0.128	2.84	<0.129	<0.605	<0.128	<0.116	<0.192	119
U4-MW-07D	2/14/2023	N	EM06	UMCf	96.8 - 106.5	<0.0941	<0.118	<0.128	1.38	<0.129	<0.605	<0.128	<0.116	<0.192	92.3
U4-MW-07D	3/16/2023	N	EM07	UMCf	96.8 - 106.5	<0.0941	<0.118	<0.128	1.21	<0.129	<0.605	<0.128	<0.116	<0.192	75.1
U4-MW-07D	4/21/2023	N	EM08	UMCf	96.8 - 106.5	<0.0941	<0.118	<0.128	0.461 J	<0.129	<0.605	<0.128	<0.116	<0.192	267 J+
U4-MW-07D	5/11/2023	N	EM09	UMCf	96.8 - 106.5	<0.0941	<0.118	0.361 J	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	98.3
U4-MW-07D	6/13/2023	N	EM10	UMCf	96.8 - 106.5	<0.0941 UJ	<0.118 UJ	<0.128 UJ	0.363 J	0.563 J	<0.605 UJ	<0.128 UJ	<0.116 UJ	<0.192 UJ	205 J
U4-MW-07D	7/17/2023	N	EM11	UMCf	96.8 - 106.5	<0.0941	<0.118	<0.128	3.88	1.52	<0.605	1.31	<0.116	<0.192	2,740
U4-MW-07D	8/11/2023	N	EM12	UMCf	96.8 - 106.5	<0.0941	<0.118	<0.128	3.93	<0.129	<0.605	<0.128	<0.116	<0.192	3,100
U4-MW-07D	9/13/2023	N	EM13	UMCf	96.8 - 106.5	<0.0941	<0.118	<0.128	2.06	0.654 J	<0.605	0.698 J	<0.116	<0.192	1,940
U4-MW-07D	10/18/2023	N	EM14	UMCf	96.8 - 106.5	<9.41	<11.8	<12.8	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	2,400
U4-MW-07D	11/16/2023	N	EM15	UMCf	96.8 - 106.5	<9.41	<11.8	<12.8	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	2,840
U4-MW-07D	12/12/2023	N	EM16	UMCf	96.8 - 106.5	<0.0941	<0.118	<0.128	<0.136	0.468 J	<0.605	<0.128	<0.116	<0.192	1,590 J+
U4-MW-07D	1/26/2024	N	EM17	UMCf	96.8 - 106.5	<0.0941	<0.118	<0.128	0.955 J	<0.129	<0.605	<0.128	<0.116	<0.192	1,230 J+
U4-MW-07D	2/13/2024	N	EM18	UMCf	96.8 - 106.5	<2.35	<2.95	<3.20	<3.40	<3.22	<15.1	<3.20	<2.90	<4.80	779
U4-MW-07D	3/11/2024	N	EM19	UMCf	96.8 - 106.5	<2.35	<2.95	<3.20	<3.40	<3.22	<15.1	<3.20	<2.90	<4.80	757
U4-MW-07D	6/12/2024	N	EM20	UMCf	96.8 - 106.5	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	0.317 J	1,240
U4-MW-07D	9/18/2024	N	EM21	UMCf	96.8 - 106.5	<0.0941	<0.118	<0.128	0.584 J	<0.129	<0.605	<0.128	<0.116	1.16 J	1,620 J
U4-MW-07I	4/15/2022	N	BL02	UMCf	76.8 - 86.8	<0.0941	<0.118	<0.128	0.676 J	0.206 J	<0.605	0.313 J	<0.116	<0.192	373
U4-MW-07I	10/12/2022	N	EM02	UMCf	76.8 - 86.8	<0.0941	<0.118	<0.128	5.11	0.403 J	<0.605	0.425 J	<0.116	<0.192	164
U4-MW-07I	11/3/2022	N	EM03	UMCf	76.8 - 86.8	<0.0941	<0.118	<0.128	3.61	0.321 J	<0.605	<0.128	<0.116	<0.192	153

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-07I	12/7/2022	N	EM04	UMCf	76.8 - 86.8	<0.0941	<0.118	<0.128	4.08	0.353 J	<0.605	<0.128	<0.116	<0.192	129
U4-MW-07I	1/11/2023	N	EM05	UMCf	76.8 - 86.8	<0.0941	<0.118	<0.128	2.79	0.162 J	<0.605	<0.128	<0.116	<0.192	154
U4-MW-07I	2/15/2023	N	EM06	UMCf	76.8 - 86.8	<0.0941	<0.118	<0.128	1.57	0.149 J	<0.605	<0.128	<0.116	<0.192	180
U4-MW-07I	3/16/2023	N	EM07	UMCf	76.8 - 86.8	<0.471	<0.590	<0.640	1.40 J	<0.645	<3.03	<0.640	<0.580	<0.960	250
U4-MW-07I	4/21/2023	N	EM08	UMCf	76.8 - 86.8	<0.0941	<0.118	<0.128	1.82	0.262 J	<0.605	0.333 J	<0.116	<0.192	578 J+
U4-MW-07I	5/11/2023	N	EM09	UMCf	76.8 - 86.8	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	344
U4-MW-07I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<0.471	<0.590	<0.640	<0.680	<0.645	<3.03	<0.640	<0.580	<0.960	131
U4-MW-07I	7/17/2023	N	EM11	UMCf	76.8 - 86.8	<0.0941	<0.118	<0.128	2.26	0.574 J	<0.605	<0.128	<0.116	<0.192	2,180
U4-MW-07I	8/11/2023	N	EM12	UMCf	76.8 - 86.8	<0.0941	<0.118	<0.128	2.01	<0.129	<0.605	<0.128	<0.116	<0.192	1,730
U4-MW-07I	9/13/2023	N	EM13	UMCf	76.8 - 86.8	<0.0941	<0.118	<0.128	1.68	0.394 J	<0.605	<0.128	<0.116	<0.192	1,600
U4-MW-07I	10/18/2023	N	EM14	UMCf	76.8 - 86.8	<4.71	<5.90	<6.40	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	1,370
U4-MW-07I	11/16/2023	N	EM15	UMCf	76.8 - 86.8	<4.71	<5.90	<6.40	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	1,750
U4-MW-07I	12/11/2023	N	EM16	UMCf	76.8 - 86.8	<0.0941	<0.118	<0.128	<0.136	0.663 J	<0.605	<0.128	<0.116	<0.192	1,880
U4-MW-07I	1/26/2024	N	EM17	UMCf	76.8 - 86.8	<0.0941	<0.118	<0.128	1.39	0.732 J	<0.605	<0.128	<0.116	<0.192	2,340 J+
U4-MW-07I	2/13/2024	N	EM18	UMCf	76.8 - 86.8	<4.71	<5.90	<6.40	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	1,140
U4-MW-07I	3/11/2024	N	EM19	UMCf	76.8 - 86.8	<4.71	<5.90	<6.40	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	2,350
U4-MW-07I	6/12/2024	N	EM20	UMCf	76.8 - 86.8	<0.0941	<0.118	<0.128	1.09	<0.129	<0.605	<0.128	<0.116	0.388 J	1,500
U4-MW-07I	9/18/2024	N	EM21	UMCf	76.8 - 86.8	<0.0941	<0.118	0.170 J	0.615 J	<0.129	<0.605	<0.128	<0.116	0.365 J	1,040 J
U4-MW-08D	4/13/2022	N	BL02	UMCf	98.6 - 108.6	<0.0941	<0.118	<0.128	<0.136	0.452 J	<0.605	<0.128	<0.116	<0.192	10,300 J+
U4-MW-08D	12/7/2022	N	EM04	UMCf	98.6 - 108.6	<0.0941	<0.118	<0.128	3.42	0.921 J	<0.605	1.85	<0.116	<0.192	4,240
U4-MW-08D	3/17/2023	N	EM07	UMCf	98.6 - 108.6	<9.41	<11.8	<12.8	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	4,220
U4-MW-08D	6/13/2023	N	EM10	UMCf	98.6 - 108.6	<0.0941	<0.118	<0.128	2.36	0.768 J	<0.605	<0.128	<0.116	<0.192	5,060
U4-MW-08D	9/13/2023	N	EM13	UMCf	98.6 - 108.6	<0.0941	<0.118	<0.128	5.95	1.99	<0.605	3.03	<0.116	<0.192	7,970
U4-MW-08D	12/11/2023	N	EM16	UMCf	98.6 - 108.6	<0.0941	<0.118	<0.128	<0.136	1.41	<0.605	<0.128	<0.116	<0.192	6,060
U4-MW-08D	3/12/2024	N	EM19	UMCf	98.6 - 108.6	<18.8	<23.6	<25.6	<27.2	<25.8	<121	<25.6	<23.2	<38.4	4,480
U4-MW-08D	6/14/2024	N	EM20	UMCf	98.6 - 108.6	<18.8	<23.6	<25.6	<27.2	<25.8	<121	<25.6	<23.2	<38.4	6,790
U4-MW-08D	9/23/2024	N	EM21	UMCf	98.6 - 108.6	<0.0941	<0.118	<0.128	1.91	0.727 J	<0.605	0.418 J	<0.116	<0.192	6,020
U4-MW-08DD	4/20/2022	N	BL02	UMCf	119.8 - 129.8	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	90.2
U4-MW-08DD	4/20/2022	FD	BL02	UMCf	119.8 - 129.8	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	85.4
U4-MW-08DD	12/8/2022	N	EM04	UMCf	119.8 - 129.8	0.870 J	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	28.1
U4-MW-08DD	3/15/2023	N	EM07	UMCf	119.8 - 129.8	<0.0941	<0.118	<0.128	0.192 J	<0.129	<0.605	0.251 J	<0.116	<0.192	126
U4-MW-08DD	6/14/2023	N	EM10	UMCf	119.8 - 129.8	<0.0941	<0.118	<0.128	0.148 J	<0.129	<0.605	<0.128	<0.116	<0.192	97.5
U4-MW-08DD	9/14/2023	N	EM13	UMCf	119.8 - 129.8	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	64.9
U4-MW-08DD	12/14/2023	N	EM16	UMCf	119.8 - 129.8	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	52.7
U4-MW-08DD	3/14/2024	N	EM19	UMCf	119.8 - 129.8	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	46.9
U4-MW-08DD	6/12/2024	N	EM20	UMCf	119.8 - 129.8	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	43.2
U4-MW-08DD	9/20/2024	N	EM21	UMCf	119.8 - 129.8	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	42.0 J+
U4-MW-08I	4/13/2022	N	BL02	UMCf	78.0 - 88.0	<0.0941	<0.118	<0.128	5.72	2.19	<0.605	2.14	<0.116	<0.192	1,100 J+
U4-MW-08I	12/7/2022	N	EM04	UMCf	78.0 - 88.0	<0.0941	<0.118	<0.128	2.33	1.08	<0.605	1.46	<0.116	<0.192	2,660
U4-MW-08I	12/7/2022	FD	EM04	UMCf	78.0 - 88.0	<0.0941	<0.118	<0.128	2.52	1.14	<0.605	1.40	<0.116	<0.192	2,560
U4-MW-08I	3/17/2023	N	EM07	UMCf	78.0 - 88.0	<4.71	<5.90	<6.40	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	5,210
U4-MW-08I	6/13/2023	N	EM10	UMCf	78.0 - 88.0	<0.0941	<0.118	<0.128	1.34	0.411 J	<0.605	<0.128	<0.116	<0.192	1,520
U4-MW-08I	9/13/2023	N	EM13	UMCf	78.0 - 88.0	<0.0941	<0.118	<0.128	3.80	0.489 J	<0.605	1.84	<0.116	<0.192	3,410
U4-MW-08I	12/11/2023	N	EM16	UMCf	78.0 - 88.0	<0.0941	<0.118	<0.128	<0.136	1.41	<0.605	<0.128	<0.116	<0.192	4,500 J-
U4-MW-08I	3/12/2024	N	EM19	UMCf	78.0 - 88.0	<9.41	<11.8	<12.8	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	3,770
U4-MW-08I	6/14/2024	N	EM20	UMCf	78.0 - 88.0	<9.41	<11.8	<12.8	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	4,030
U4-MW-08I	9/23/2024	N	EM21	UMCf	78.0 - 88.0	<0.0941	<0.118	<0.128	1.61	0.622 J	<0.605	0.411 J	<0.116	<0.192	2,900

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						Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-08S	4/15/2022	N	BL02	UMCf	54.9 - 64.9	<0.0941	<0.118	<0.128	0.213 J	<0.129 UJ	<0.605	<0.128	<0.116	<0.192	38.2
U4-MW-08S	12/7/2022	N	EM04	UMCf	54.9 - 64.9	<0.0941	<0.118	<0.128	0.290 J	<0.129	<0.605	<0.128	<0.116	<0.192	15.0
U4-MW-08S	12/7/2022	FD	EM04	UMCf	54.9 - 64.9	<0.0941	<0.118	<0.128	0.275 J	<0.129	<0.605	<0.128	<0.116	<0.192	15.4
U4-MW-08S	3/13/2023	N	EM07	UMCf	54.9 - 64.9	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	0.792 J
U4-MW-08S	3/13/2023	FD	EM07	UMCf	54.9 - 64.9	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	0.964 J
U4-MW-08S	6/13/2023	N	EM10	UMCf	54.9 - 64.9	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	2.78 J
U4-MW-08S	6/13/2023	FD	EM10	UMCf	54.9 - 64.9	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	3.05 J
U4-MW-08S	9/13/2023	N	EM13	UMCf	54.9 - 64.9	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	<0.111
U4-MW-08S	9/13/2023	FD	EM13	UMCf	54.9 - 64.9	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	<0.111
U4-MW-08S	12/14/2023	N	EM16	UMCf	54.9 - 64.9	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	<0.111
U4-MW-08S	12/14/2023	FD	EM16	UMCf	54.9 - 64.9	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	0.174 J
U4-MW-08S	3/14/2024	N	EM19	UMCf	54.9 - 64.9	<0.188 UJ	<0.236 UJ	<0.256 UJ	<0.272 UJ	<0.258 UJ	<1.21 UJ	<0.256 UJ	<0.232 UJ	<0.384 UJ	0.229 J
U4-MW-08S	3/14/2024	FD	EM19	UMCf	54.9 - 64.9	<0.188 UJ	<0.236 UJ	<0.256 UJ	<0.272 UJ	<0.258 UJ	<1.21 UJ	<0.256 UJ	<0.232 UJ	<0.384 UJ	0.770 J
U4-MW-08S	3/25/2024	N	EM19	UMCf	54.9 - 64.9	<0.0941 UJ	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	<0.111
U4-MW-08S	3/25/2024	FD	EM19	UMCf	54.9 - 64.9	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	<0.111
U4-MW-08S	6/14/2024	N	EM20	UMCf	54.9 - 64.9	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	0.267 J
U4-MW-08S	6/14/2024	FD	EM20	UMCf	54.9 - 64.9	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	<0.111
U4-MW-08S	9/20/2024	N	EM21	UMCf	54.9 - 64.9	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	0.122 J
U4-MW-08S	9/20/2024	FD	EM21	UMCf	54.9 - 64.9	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	<0.111
U4-MW-09D	4/14/2022	N	BL02	UMCf	96.9 - 106.9	<0.0941	<0.118	<0.128	1.86	0.936 J	<0.605	0.488 J	<0.116	<0.192	2,940
U4-MW-09D	12/6/2022	N	EM04	UMCf	96.9 - 106.9	<0.941 UJ	<1.18 UJ	<1.28 UJ	3.78 J	<1.29 UJ	<6.05 UJ	2.57 J	<1.16 UJ	<1.92 UJ	602
U4-MW-09D	3/16/2023	N	EM07	UMCf	96.9 - 106.9	<0.941	<1.18	<1.28	<1.36	<1.29	<6.05	<1.28	<1.16	<1.92	525
U4-MW-09D	6/14/2023	N	EM10	UMCf	96.9 - 106.9	<0.0941	<0.118	0.224 J	0.372 J	<0.129	<0.605	<0.128	<0.116	<0.192	360
U4-MW-09D	9/12/2023	N	EM13	UMCf	96.9 - 106.9	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	609 J
U4-MW-09D	12/15/2023	N	EM16	UMCf	96.9 - 106.9	<2.35 UJ	<2.95 UJ	<3.20 UJ	<3.40 UJ	<3.22 UJ	<15.1 UJ	<3.20 UJ	<2.90 UJ	<4.80 UJ	558 J-
U4-MW-09D	3/13/2024	N	EM19	UMCf	96.9 - 106.9	<0.0941	<0.118	<0.128	0.189 J	<0.129	<0.605	<0.128	<0.116	<0.192	419
U4-MW-09D	6/13/2024	N	EM20	UMCf	96.9 - 106.9	<0.0941	<0.118	<0.128	0.362 J	<0.129	<0.605	<0.128	<0.116	<0.192	411
U4-MW-09D	9/19/2024	N	EM21	UMCf	96.9 - 106.9	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	<0.111
U4-MW-09DD	4/14/2022	N	BL02	UMCf	119.8 - 129.8	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	21.9
U4-MW-09DD	12/6/2022	N	EM04	UMCf	119.8 - 129.8	<0.0941 UJ	<0.118 UJ	<0.128 UJ	<0.136 UJ	<0.129 UJ	<0.605 UJ	<0.128 UJ	<0.116 UJ	<0.192 UJ	12.5
U4-MW-09DD	3/21/2023	N	EM07	UMCf	119.8 - 129.8	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	15.9 J+
U4-MW-09DD	6/15/2023	N	EM10	UMCf	119.8 - 129.8	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	12.8
U4-MW-09DD	9/13/2023	N	EM13	UMCf	119.8 - 129.8	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	24.0
U4-MW-09DD	12/13/2023	N	EM16	UMCf	119.8 - 129.8	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	21.1 J+
U4-MW-09DD	3/14/2024	N	EM19	UMCf	119.8 - 129.8	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	23.2
U4-MW-09DD	6/13/2024	N	EM20	UMCf	119.8 - 129.8	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	11.3
U4-MW-09DD	9/20/2024	N	EM21	UMCf	119.8 - 129.8	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	0.639 J
U4-MW-09I	4/14/2022	N	BL02	UMCf	76.8 - 86.8	2.49	<0.118	<0.128	0.516 J	0.526 J	<0.605	0.384 J	<0.116	<0.192	130
U4-MW-09I	12/6/2022	N	EM04	UMCf	76.8 - 86.8	<0.941 UJ	<1.18 UJ	<1.28 UJ	4.46 J	<1.29 UJ	<6.05 UJ	2.97 J	<1.16 UJ	<1.92 UJ	1,150
U4-MW-09I	3/16/2023	N	EM07	UMCf	76.8 - 86.8	<0.941	<1.18	<1.28	2.16 J	<1.29	<6.05	<1.28	<1.16	<1.92	767
U4-MW-09I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<0.941	<0.118	0.185 J	0.718 J	0.136 J	<0.605	<0.128	<0.116	<0.192	501
U4-MW-09I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	849 J
U4-MW-09I	12/15/2023	N	EM16	UMCf	76.8 - 86.8	<2.35 UJ	<2.95 UJ	<3.20 UJ	<3.40 UJ	<3.22 UJ	<15.1 UJ	<3.20 UJ	<2.90 UJ	<4.80 UJ	611 J-
U4-MW-09I	3/13/2024	N	EM19	UMCf	76.8 - 86.8	<0.0941	<0.118	<0.128	0.196 J	<0.129	<0.605	<0.128	<0.116	<0.192	505
U4-MW-09I	6/13/2024	N	EM20	UMCf	76.8 - 86.8	<0.0941	<0.118	<0.128	0.679 J	0.273 J	<0.605	<0.128	<0.116	<0.192	573
U4-MW-09I	9/19/2024	N	EM21	UMCf	76.8 - 86.8	<0.0941	<0.118	<0.128	0.894 J	0.209 J	<0.605	<0.128	<0.116	<0.192	1,210
U4-MW-09S	4/14/2022	N	BL02	UMCf	55.3 - 65.3	<0.0941	<0.118	<0.128	0.248 J	<0.129	<0.605	<0.128	<0.116	<0.192	20.3

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-09S	12/6/2022	N	EM04	UMCf	55.3 - 65.3	<0.0941 UJ	<0.118 UJ	<0.128 UJ	0.450 J	<0.129 UJ	<0.605 UJ	0.464 J	<0.116 UJ	<0.192 UJ	135
U4-MW-09S	3/17/2023	N	EM07	UMCf	55.3 - 65.3	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	148
U4-MW-09S	6/15/2023	N	EM10	UMCf	55.3 - 65.3	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	24.2
U4-MW-09S	9/13/2023	N	EM13	UMCf	55.3 - 65.3	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	47.0
U4-MW-09S	12/12/2023	N	EM16	UMCf	55.3 - 65.3	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	785 J+
U4-MW-09S	3/13/2024	N	EM19	UMCf	55.3 - 65.3	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	67.4
U4-MW-09S	6/13/2024	N	EM20	UMCf	55.3 - 65.3	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	2.35 J
U4-MW-09S	9/19/2024	N	EM21	UMCf	55.3 - 65.3	<0.0941	<0.118	<0.128	0.259 J	<0.129	<0.605	<0.128	<0.116	<0.192	601 J+
U4-MW-10D	4/14/2022	N	BL02	UMCf	96.9 - 106.9	<0.0941	<0.118	<0.128	0.213 J	0.477 J	<0.605	<0.128	<0.116	<0.192	316
U4-MW-10D	12/5/2022	N	EM04	UMCf	96.9 - 106.9	<0.0941	<0.118	<0.128	0.138 J	<0.129	<0.605	<0.128	<0.116	<0.192	153
U4-MW-10D	3/17/2023	N	EM07	UMCf	96.9 - 106.9	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	46.5
U4-MW-10D	6/14/2023	N	EM10	UMCf	96.9 - 106.9	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	0.843 J
U4-MW-10D	9/13/2023	N	EM13	UMCf	96.9 - 106.9	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	52.5
U4-MW-10D	12/14/2023	N	EM16	UMCf	96.9 - 106.9	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	25.9
U4-MW-10D	3/14/2024	N	EM19	UMCf	96.9 - 106.9	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	45.2
U4-MW-10D	6/11/2024	N	EM20	UMCf	96.9 - 106.9	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	36.2
U4-MW-10D	9/26/2024	N	EM21	UMCf	96.9 - 106.9	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	37.3 J+
U4-MW-10I	4/14/2022	N	BL02	UMCf	77.1 - 87.1	<0.0941	<0.118	<0.128	0.790 J	0.558 J	<0.605	0.491 J	<0.116	<0.192	695
U4-MW-10I	12/5/2022	N	EM04	UMCf	77.1 - 87.1	<0.0941	<0.118	<0.128	0.387 J	<0.129	<0.605	<0.128	<0.116	<0.192	33.1
U4-MW-10I	3/17/2023	N	EM07	UMCf	77.1 - 87.1	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	180
U4-MW-10I	6/14/2023	N	EM10	UMCf	77.1 - 87.1	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	18.0
U4-MW-10I	9/13/2023	N	EM13	UMCf	77.1 - 87.1	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	30.1
U4-MW-10I	12/14/2023	N	EM16	UMCf	77.1 - 87.1	<0.0941	<0.118	<0.128	0.484 J	<0.129	<0.605	<0.128	<0.116	<0.192	1,400
U4-MW-10I	3/13/2024	N	EM19	UMCf	77.1 - 87.1	<0.0941	<0.118	<0.128	1.15	0.531 J	<0.605	0.840 J	<0.116	<0.192	2,810
U4-MW-10I	6/11/2024	N	EM20	UMCf	77.1 - 87.1	0.109 J	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	273
U4-MW-10I	9/25/2024	N	EM21	UMCf	77.1 - 87.1	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	61.6
U4-MW-11D	4/15/2022	N	BL02	UMCf	97.4 - 107.4	<0.0941	<0.118	<0.128	2.44	0.612 J	<0.605	2.22	<0.116	<0.192	5,540
U4-MW-11D	9/26/2022	N	EM01	UMCf	97.4 - 107.4	<4.71	<5.90	<6.40	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	8,910
U4-MW-11D	10/11/2022	N	EM02	UMCf	97.4 - 107.4	<0.941	<1.18	<1.28	1.68 J	<1.29	<6.05	6.48 J	<1.16	<1.92	6,480
U4-MW-11D	11/1/2022	N	EM03	UMCf	97.4 - 107.4	<4.71	<5.90	<6.40	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	8,490
U4-MW-11D	12/6/2022	N	EM04	UMCf	97.4 - 107.4	<2.35 UJ	<2.95 UJ	<3.20 UJ	<3.40 UJ	<3.22 UJ	<15.1 UJ	7.62 J	<2.90 UJ	<4.80 UJ	5,290
U4-MW-11D	1/12/2023	N	EM05	UMCf	97.4 - 107.4	<18.8	<23.6	<25.6	<27.2	<25.8	<121	<25.6	<23.2	<38.4	6,580
U4-MW-11D	2/14/2023	N	EM06	UMCf	97.4 - 107.4	<18.8	<23.6	<25.6	<27.2	<25.8	<121	<25.6	<23.2	<38.4	7,100
U4-MW-11D	3/16/2023	N	EM07	UMCf	97.4 - 107.4	<18.8	<23.6	<25.6	<27.2	<25.8	<121	<25.6	<23.2	<38.4	5,710 J+
U4-MW-11D	4/18/2023	N	EM08	UMCf	97.4 - 107.4	<0.471	<0.590	<0.640	1.39 J	<0.645	<3.03	1.30 J	<0.580	<0.960	3,870
U4-MW-11D	5/17/2023	N	EM09	UMCf	97.4 - 107.4	<1.88 UJ	<2.36 UJ	<2.56 UJ	<2.72 UJ	<2.58 UJ	<12.1 UJ	<2.56 UJ	<2.32 UJ	<3.84 UJ	4,000 J-
U4-MW-11D	6/16/2023	N	EM10	UMCf	97.4 - 107.4	<0.0941	<0.118	<0.128	2.37	0.836 J	<0.605	5.26	<0.116	<0.192	6,060
U4-MW-11D	7/14/2023	N	EM11	UMCf	97.4 - 107.4	<0.0941	<0.118	<0.128	1.68	0.712 J	<0.605	1.98	<0.116	<0.192	5,610
U4-MW-11D	8/14/2023	N	EM12	UMCf	97.4 - 107.4	<18.8	<23.6	<25.6 UJ	<27.2	<25.8	<121	<25.6	<23.2	<38.4	6,900
U4-MW-11D	9/13/2023	N	EM13	UMCf	97.4 - 107.4	<0.0941	<0.118	<0.128	1.87	0.509 J	<0.605	1.98	<0.116	<0.192	5,440
U4-MW-11D	10/18/2023	N	EM14	UMCf	97.4 - 107.4	<18.8	<23.6	<25.6	<27.2	<25.8	<121	<25.6	<23.2	<38.4	3,100
U4-MW-11D	11/16/2023	N	EM15	UMCf	97.4 - 107.4	<4.71	<5.90	<6.40	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	4,930
U4-MW-11D	12/13/2023	N	EM16	UMCf	97.4 - 107.4	<0.0941	<0.118	0.407 J	1.26	0.411 J	<0.605	1.78	<0.116	<0.192	4,440
U4-MW-11D	1/25/2024	N	EM17	UMCf	97.4 - 107.4	<0.0941	<0.118	0.196 J	1.27	0.447 J	<0.605	<0.128	<0.116	<0.192	5,430 J+
U4-MW-11D	2/14/2024	N	EM18	UMCf	97.4 - 107.4	<0.0941	<0.118	<0.128	1.06	0.165 J	<0.605	<0.128	<0.116	<0.192	4,590
U4-MW-11D	3/12/2024	N	EM19	UMCf	97.4 - 107.4	<9.41	<11.8	<12.8	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	4,640
U4-MW-11D	6/12/2024	N	EM20	UMCf	97.4 - 107.4	<0.0941	<0.118	<0.128	1.26	0.240 J	<0.605	<0.128	<0.116	<0.192	3,360

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Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-11D	9/23/2024	N	EM21	UMCf	97.4 - 107.4	<0.0941	<0.118	<0.128	1.66	0.665 J	<0.605	1.57	<0.116	<0.192	4,930
U4-MW-11I	4/14/2022	N	BL02	UMCf	77.0 - 87.0	<0.0941	<0.118	<0.128	0.588 J	0.503 J	<0.605	0.593 J	<0.116	<0.192	704
U4-MW-11I	9/26/2022	N	EM01	UMCf	77.0 - 87.0	<0.0941	<0.118	<0.128	0.397 J	<0.129	<0.605	<0.128	<0.116	<0.192	287
U4-MW-11I	9/26/2022	FD	EM01	UMCf	77.0 - 87.0	<0.0941	<0.118	0.663 J	0.336 J	<0.129	<0.605	<0.128	<0.116	<0.192	273
U4-MW-11I	10/10/2022	N	EM02	UMCf	77.0 - 87.0	<0.941	<1.18	<1.28	<1.36	<1.29	<6.05	<1.28	<1.16	<1.92	203
U4-MW-11I	10/10/2022	FD	EM02	UMCf	77.0 - 87.0	<0.0941	<0.118	0.614 J	<0.136	<0.129	<0.605	2.85	<0.116	<0.192	214
U4-MW-11I	10/31/2022	N	EM03	UMCf	77.0 - 87.0	<0.471	<0.590	<0.640	<0.680	<0.645	<3.03	<0.640	<0.580	<0.960	125
U4-MW-11I	10/31/2022	FD	EM03	UMCf	77.0 - 87.0	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	151
U4-MW-11I	12/6/2022	N	EM04	UMCf	77.0 - 87.0	<0.0941 UJ	<0.118 UJ	<0.128 UJ	<0.136 UJ	<0.129 UJ	<0.605 UJ	<0.128 UJ	<0.116 UJ	<0.192 UJ	145
U4-MW-11I	12/6/2022	FD	EM04	UMCf	77.0 - 87.0	<0.0941 UJ	<0.118 UJ	<0.128 UJ	<0.136 UJ	<0.129 UJ	<0.605 UJ	<0.128 UJ	<0.116 UJ	<0.192 UJ	150
U4-MW-11I	1/12/2023	N	EM05	UMCf	77.0 - 87.0	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	27.9
U4-MW-11I	1/12/2023	FD	EM05	UMCf	77.0 - 87.0	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	27.3
U4-MW-11I	2/14/2023	N	EM06	UMCf	77.0 - 87.0	<0.0941	<0.118	<0.128	0.752 J	0.309 J	<0.605	0.919 J	<0.116	<0.192	1,630
U4-MW-11I	2/14/2023	FD	EM06	UMCf	77.0 - 87.0	<0.0941	<0.118	<0.128	0.915 J	0.348 J	<0.605	0.717 J	<0.116	<0.192	1,850
U4-MW-11I	3/16/2023	N	EM07	UMCf	77.0 - 87.0	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	0.831 J
U4-MW-11I	3/16/2023	FD	EM07	UMCf	77.0 - 87.0	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	0.889 J
U4-MW-11I	4/18/2023	N	EM08	UMCf	77.0 - 87.0	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	11.5
U4-MW-11I	4/18/2023	FD	EM08	UMCf	77.0 - 87.0	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	11.7
U4-MW-11I	5/19/2023	N	EM09	UMCf	77.0 - 87.0	<0.0941 UJ	<0.118 UJ	<0.128 UJ	<0.136 UJ	<0.129 UJ	<0.605 UJ	<0.128 UJ	<0.116 UJ	<0.192 UJ	16.3 J-
U4-MW-11I	5/19/2023	FD	EM09	UMCf	77.0 - 87.0	<0.0941 UJ	<0.118 UJ	<0.128 UJ	<0.136 UJ	<0.129 UJ	<0.605 UJ	<0.128 UJ	<0.116 UJ	<0.192 UJ	16.4 J-
U4-MW-11I	6/15/2023	N	EM10	UMCf	77.0 - 87.0	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	2.45 J
U4-MW-11I	6/15/2023	FD	EM10	UMCf	77.0 - 87.0	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	2.43 J
U4-MW-11I	7/13/2023	N	EM11	UMCf	77.0 - 87.0	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	12.1
U4-MW-11I	7/13/2023	FD	EM11	UMCf	77.0 - 87.0	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	12.2
U4-MW-11I	8/14/2023	N	EM12	UMCf	77.0 - 87.0	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	1,480
U4-MW-11I	8/14/2023	FD	EM12	UMCf	77.0 - 87.0	<0.0941	<0.118	<0.128	0.672 J	<0.129	<0.605	0.339 J	<0.116	<0.192	2,720
U4-MW-11I	9/13/2023	N	EM13	UMCf	77.0 - 87.0	<0.0941	<0.118	<0.128	0.695 J	<0.129	<0.605	0.597 J	<0.116	<0.192	2,190
U4-MW-11I	9/13/2023	FD	EM13	UMCf	77.0 - 87.0	<0.0941	<0.118	<0.128	0.727 J	<0.129	<0.605	0.753 J	<0.116	<0.192	2,110
U4-MW-11I	10/19/2023	N	EM14	UMCf	77.0 - 87.0	<0.0941	<0.118	<0.128	1.39	0.364 J	<0.605	<0.128	<0.116	<0.192	4,050
U4-MW-11I	10/19/2023	FD	EM14	UMCf	77.0 - 87.0	<0.0941	<0.118	<0.128	1.54	0.363 J	<0.605	<0.128	<0.116	<0.192	4,000
U4-MW-11I	11/16/2023	N	EM15	UMCf	77.0 - 87.0	<4.71	<5.90	<6.40	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	2,260
U4-MW-11I	11/16/2023	FD	EM15	UMCf	77.0 - 87.0	<4.71	<5.90	<6.40	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	2,500
U4-MW-11I	12/13/2023	N	EM16	UMCf	77.0 - 87.0	<0.0941	<0.118	0.183 J	0.587 J	0.160 J	<0.605	<0.128	<0.116	<0.192	2,870
U4-MW-11I	12/13/2023	FD	EM16	UMCf	77.0 - 87.0	<0.0941	<0.118	0.163 J	0.586 J	0.190 J	<0.605	0.215 J	<0.116	<0.192	2,570
U4-MW-11I	1/25/2024	N	EM17	UMCf	77.0 - 87.0	<0.0941	<0.118	<0.128	0.642 J	<0.129	<0.605	<0.128	<0.116	<0.192	2,100 J
U4-MW-11I	1/25/2024	FD	EM17	UMCf	77.0 - 87.0	<0.0941	<0.118	<0.128	0.763 J	<0.129	<0.605	<0.128	<0.116	<0.192	3,030 J
U4-MW-11I	2/14/2024	N	EM18	UMCf	77.0 - 87.0	<4.71	<5.90	<6.40	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	2,800
U4-MW-11I	2/14/2024	FD	EM18	UMCf	77.0 - 87.0	<4.71	<5.90	<6.40	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	2,970
U4-MW-11I	3/13/2024	N	EM19	UMCf	77.0 - 87.0	<0.0941	<0.118	<0.128	0.775 J	<0.129	<0.605	0.539 J	<0.116	<0.192	3,090
U4-MW-11I	3/13/2024	FD	EM19	UMCf	77.0 - 87.0	<0.0941	<0.118	<0.128	0.836 J	<0.129	<0.605	0.488 J	<0.116	<0.192	3,180
U4-MW-11I	6/12/2024	N	EM20	UMCf	77.0 - 87.0	<0.0941	<0.118	<0.128	0.863 J	0.225 J	<0.605	0.361 J	<0.116	<0.192	2,590
U4-MW-11I	6/12/2024	FD	EM20	UMCf	77.0 - 87.0	<0.0941	<0.118	<0.128	1.05	0.251 J	<0.605	0.716 J	<0.116	<0.192	3,060
U4-MW-11I	9/23/2024	N	EM21	UMCf	77.0 - 87.0	<0.0941	<0.118	<0.128	0.991 J	0.408 J	<0.605	0.625 J	<0.116	<0.192	3,390
U4-MW-11I	9/23/2024	FD	EM21	UMCf	77.0 - 87.0	<0.0941	<0.118	<0.128	0.772 J	<0.129	<0.605	0.538 J	<0.116	<0.192	3,350
U4-MW-12D	4/15/2022	N	BL02	UMCf	97.1 - 107.1	<0.0941	<0.118	<0.128	2.15	0.934 J	<0.605	1.81	<0.116	<0.192	4,690
U4-MW-12D	9/27/2022	N	EM01	UMCf	97.1 - 107.1	<1.88	<2.36	<2.56	<2.72	<2.58	<12.1	<2.56	<2.32	<3.84	4,030 J
U4-MW-12D	10/12/2022	N	EM02	UMCf	97.1 - 107.1	<0.0941	<0.118	<0.128	1.59	0.380 J	<0.605	1.63	<0.116	<0.192	<0.111

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-12D	11/2/2022	N	EM03	UMCf	97.1 - 107.1	<0.941	<1.18	<1.28	<1.36	<1.29	<6.05	<1.28	<1.16	<1.92	3,140
U4-MW-12D	12/7/2022	N	EM04	UMCf	97.1 - 107.1	<0.0941	<0.118	<0.128	1.96	0.515 J	<0.605	<0.128	<0.116	<0.192	3,560
U4-MW-12D	1/12/2023	N	EM05	UMCf	97.1 - 107.1	<9.41	<11.8	<12.8	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	3,260
U4-MW-12D	2/15/2023	N	EM06	UMCf	97.1 - 107.1	<9.41	<11.8	<12.8	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	2,520
U4-MW-12D	3/14/2023	N	EM07	UMCf	97.1 - 107.1	<4.71	<5.90	<6.40	<6.80	<6.45	<30.3	10.0 J	<5.80	<9.60	2,740
U4-MW-12D	4/17/2023	N	EM08	UMCf	97.1 - 107.1	<0.471 UJ	<0.590 UJ	<0.640 UJ	1.50 J	<0.645 UJ	<3.03 UJ	0.770 J	<0.580 UJ	<0.960 UJ	2,760 J-
U4-MW-12D	5/17/2023	N	EM09	UMCf	97.1 - 107.1	<9.41	<11.8	<12.8	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	3,780
U4-MW-12D	6/16/2023	N	EM10	UMCf	97.1 - 107.1	<0.0941	<0.118	<0.128	1.03	0.258 J	<0.605	1.15	<0.116	<0.192	2,250
U4-MW-12D	7/13/2023	N	EM11	UMCf	97.1 - 107.1	<0.0941	<0.118	<0.128	0.552 J	0.170 J	<0.605	0.522 J	<0.116	<0.192	1,210
U4-MW-12D	8/14/2023	N	EM12	UMCf	97.1 - 107.1	<4.71	<5.90	<6.40	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	973
U4-MW-12D	9/12/2023	N	EM13	UMCf	97.1 - 107.1	<4.71	<5.90	<6.40	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	888
U4-MW-12D	10/17/2023	N	EM14	UMCf	97.1 - 107.1	<0.471	<0.590	<0.640	<0.680	<0.645	<3.03	0.821 J	<0.580	<0.960	924
U4-MW-12D	11/15/2023	N	EM15	UMCf	97.1 - 107.1	<0.471	<0.590	<0.640	<0.680	<0.645	<3.03	<0.640	<0.580	<0.960	704
U4-MW-12D	12/12/2023	N	EM16	UMCf	97.1 - 107.1	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	820 J+
U4-MW-12D	1/24/2024	N	EM17	UMCf	97.1 - 107.1	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	652
U4-MW-12D	2/13/2024	N	EM18	UMCf	97.1 - 107.1	<1.88	<2.36	<2.56	<2.72	<2.58	<12.1	<2.56	<2.32	<3.84	536
U4-MW-12D	3/12/2024	N	EM19	UMCf	97.1 - 107.1	<1.88	<2.36	<2.56	<2.72	<2.58	<12.1	<2.56	<2.32	<3.84	474
U4-MW-12D	6/12/2024	N	EM20	UMCf	97.1 - 107.1	<0.0941	<0.118	<0.128	0.296 J	<0.129	<0.605	<0.128	<0.116	<0.192	980
U4-MW-12D	9/24/2024	N	EM21	UMCf	97.1 - 107.1	<0.0941	<0.118	<0.128	0.642 J	0.174 J	<0.605	<0.128	<0.116	<0.192	2,010 J+
U4-MW-12I	4/14/2022	N	BL02	UMCf	76.8 - 86.8	<0.0941	<0.118	<0.128	1.28	0.688 J	<0.605	0.961 J	<0.116	<0.192	1,670
U4-MW-12I	4/14/2022	FD	BL02	UMCf	76.8 - 86.8	<0.0941	<0.118	<0.128	1.16	0.609 J	<0.605	0.812 J	<0.116	<0.192	1,640
U4-MW-12I	9/27/2022	N	EM01	UMCf	76.8 - 86.8	<0.0941	<0.118	<0.128	0.456 J	<0.129	<0.605	0.351 J	<0.116	<0.192	231
U4-MW-12I	10/12/2022	N	EM02	UMCf	76.8 - 86.8	<0.0941	<0.118	<0.128	0.344 J	<0.129 UJ	<0.605	0.486 J	<0.116	<0.192	194
U4-MW-12I	11/2/2022	N	EM03	UMCf	76.8 - 86.8	<0.0941	<0.118	<0.128	0.236 J	<0.129	<0.605	<0.128	<0.116	<0.192	182
U4-MW-12I	12/7/2022	N	EM04	UMCf	76.8 - 86.8	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	91.3
U4-MW-12I	12/7/2022	FD	EM04	UMCf	76.8 - 86.8	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	90.0
U4-MW-12I	1/13/2023	N	EM05	UMCf	76.8 - 86.8	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	36.5
U4-MW-12I	2/15/2023	N	EM06	UMCf	76.8 - 86.8	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	36.5
U4-MW-12I	3/13/2023	N	EM07	UMCf	76.8 - 86.8	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	8.18
U4-MW-12I	4/17/2023	N	EM08	UMCf	76.8 - 86.8	<0.0941 UJ	<0.118 UJ	<0.128 UJ	<0.136 UJ	<0.129 UJ	<0.605 UJ	<0.128 UJ	<0.116 UJ	<0.192 UJ	0.265 J
U4-MW-12I	5/17/2023	N	EM09	UMCf	76.8 - 86.8	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	0.714 J
U4-MW-12I	6/16/2023	N	EM10	UMCf	76.8 - 86.8	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	<0.111
U4-MW-12I	7/11/2023	N	EM11	UMCf	76.8 - 86.8	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	0.731 J
U4-MW-12I	8/14/2023	N	EM12	UMCf	76.8 - 86.8	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	0.190 J	<0.116	<0.192	468
U4-MW-12I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	181 J
U4-MW-12I	10/17/2023	N	EM14	UMCf	76.8 - 86.8	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	2.19 J
U4-MW-12I	11/16/2023	N	EM15	UMCf	76.8 - 86.8	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	495
U4-MW-12I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	688 J+
U4-MW-12I	1/24/2024	N	EM17	UMCf	76.8 - 86.8	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	567
U4-MW-12I	2/13/2024	N	EM18	UMCf	76.8 - 86.8	<1.88	<2.36	<2.56	<2.72	<2.58	<12.1	<2.56	<2.32	<3.84	614
U4-MW-12I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	<1.88	<2.36	<2.56	<2.72	<2.58	<12.1	<2.56	<2.32	<3.84	601
U4-MW-12I	6/13/2024	N	EM20	UMCf	76.8 - 86.8	<0.0941	<0.118	<0.128	0.405 J	<0.129	<0.605	<0.128	<0.116	<0.192	1,290
U4-MW-12I	9/23/2024	N	EM21	UMCf	76.8 - 86.8	<0.0941	<0.118	<0.128	0.603 J	<0.129	<0.605	0.420 J	<0.116	<0.192	2,150
U4-MW-13D	4/14/2022	N	BL02	UMCf	98.2 - 108.2	<0.0941	<0.118	<0.128	1.63	0.706 J	<0.605	1.11	<0.116	<0.192	3,460
U4-MW-13D	9/28/2022	N	EM01	UMCf	98.2 - 108.2	<0.941	<1.18	<1.28	<1.36	<1.29	<6.05	<1.28	<1.16	<1.92	1,270
U4-MW-13D	10/11/2022	N	EM02	UMCf	98.2 - 108.2	<0.0941	<0.118	<0.128	0.628 J	<0.129	<0.605	<0.128	<0.116	<0.192	983
U4-MW-13D	11/3/2022	N	EM03	UMCf	98.2 - 108.2	<0.0941	<0.118	<0.128	1.01 J+	0.198 J	<0.605	0.415 J	<0.116	<0.192	1,060

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B Benzene µg/L	Volatile Organic Compounds by SW8260B Bromobenzene µg/L	Volatile Organic Compounds by SW8260B Bromochloromethane µg/L	Volatile Organic Compounds by SW8260B Bromodichloromethane µg/L	Volatile Organic Compounds by SW8260B Bromoform µg/L	Volatile Organic Compounds by SW8260B Bromomethane µg/L	Volatile Organic Compounds by SW8260B Carbon Tetrachloride µg/L	Volatile Organic Compounds by SW8260B Chlorobenzene µg/L	Volatile Organic Compounds by SW8260B Chloroethane µg/L	Volatile Organic Compounds by SW8260B Chloroform µg/L
U4-MW-13D	12/7/2022	N	EM04	UMCf	98.2 - 108.2	<0.0941	<0.118	<0.128	1.83	0.233 J	<0.605	<0.128	<0.116	<0.192	874
U4-MW-13D	1/12/2023	N	EM05	UMCf	98.2 - 108.2	<1.88	<2.36	<2.56	<2.72	<2.58	<12.1	<2.56	<2.32	<3.84	837
U4-MW-13D	2/15/2023	N	EM06	UMCf	98.2 - 108.2	<0.0941	<0.118	<0.128	2.28	<0.129	<0.605	<0.128	<0.116	<0.192	729
U4-MW-13D	3/17/2023	N	EM07	UMCf	98.2 - 108.2	<1.88	<2.36	<2.56	<2.72	<2.58	<12.1	<2.56	<2.32	<3.84	687
U4-MW-13D	4/18/2023	N	EM08	UMCf	98.2 - 108.2	<0.0941	<0.118	<0.128	1.62	0.134 J	<0.605	0.223 J	<0.116	<0.192	489
U4-MW-13D	5/17/2023	N	EM09	UMCf	98.2 - 108.2	<1.88	<2.36	<2.56	<2.72	<2.58	<12.1	<2.56	<2.32	<3.84	475
U4-MW-13D	6/15/2023	N	EM10	UMCf	98.2 - 108.2	<0.0941	<0.118	<0.128	1.35	<0.129	<0.605	<0.128	<0.116	<0.192	473
U4-MW-13D	7/12/2023	N	EM11	UMCf	98.2 - 108.2	<0.0941	<0.118	<0.128	1.12	<0.129	<0.605	0.271 J	<0.116	<0.192	447
U4-MW-13D	8/11/2023	N	EM12	UMCf	98.2 - 108.2	<0.0941	<0.118	<0.128	1.19	<0.129	<0.605	0.432 J	<0.116	<0.192	412 J+
U4-MW-13D	9/11/2023	N	EM13	UMCf	98.2 - 108.2	<2.35	<2.95	<3.20	<3.40	<3.22	<15.1	<3.20	<2.90	<4.80	716
U4-MW-13D	10/18/2023	N	EM14	UMCf	98.2 - 108.2	<2.35	<2.95	<3.20	<3.40	<3.22	<15.1	<3.20	<2.90	<4.80	451
U4-MW-13D	11/15/2023	N	EM15	UMCf	98.2 - 108.2	<2.35	<2.95	<3.20	<3.40	<3.22	<15.1	<3.20	<2.90	<4.80	485
U4-MW-13D	12/11/2023	N	EM16	UMCf	98.2 - 108.2	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	761
U4-MW-13D	1/23/2024	N	EM17	UMCf	98.2 - 108.2	<0.0941	<0.118	<0.128	0.687 J	<0.129	<0.605	<0.128	<0.116	<0.192	660
U4-MW-13D	2/12/2024	N	EM18	UMCf	98.2 - 108.2	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	686
U4-MW-13D	3/11/2024	N	EM19	UMCf	98.2 - 108.2	<0.0941	<0.118	<0.128	0.946 J	<0.129	<0.605	0.252 J	<0.116	<0.192	778
U4-MW-13D	6/13/2024	N	EM20	UMCf	98.2 - 108.2	<0.0941	<0.118	<0.128	0.503 J	<0.129	<0.605	<0.128	<0.116	<0.192	854
U4-MW-13D	9/20/2024	N	EM21	UMCf	98.2 - 108.2	<4.71	<5.90	<6.40	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	1,450 J+
U4-MW-13I	4/14/2022	N	BL02	UMCf	77.1 - 87.1	<0.0941	<0.118	<0.128	1.18	0.624 J	<0.605	0.865 J	<0.116	<0.192	1,350
U4-MW-13I	9/28/2022	N	EM01	UMCf	77.1 - 87.1	0.157 J	<0.118	<0.128	0.584 J	<0.129	<0.605	0.400 J	<0.116	<0.192	154 J-
U4-MW-13I	10/10/2022	N	EM02	UMCf	77.1 - 87.1	<0.0941	<0.118	<0.128	0.505 J	<0.129	<0.605	0.759 J	<0.116	<0.192	451
U4-MW-13I	11/3/2022	N	EM03	UMCf	77.1 - 87.1	<0.0941	<0.118	<0.128	0.580 J	<0.129	<0.605	0.426 J	<0.116	<0.192	441
U4-MW-13I	12/6/2022	N	EM04	UMCf	77.1 - 87.1	<0.471 UJ	<0.590 UJ	<0.640 UJ	<0.680 UJ	<0.645 UJ	<3.03 UJ	<0.640 UJ	<0.580 UJ	<0.960 UJ	305
U4-MW-13I	1/12/2023	N	EM05	UMCf	77.1 - 87.1	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	236
U4-MW-13I	2/14/2023	N	EM06	UMCf	77.1 - 87.1	0.558 J	<0.590	<0.640	<0.680	<0.645	<3.03	<0.640	<0.580	<0.960	373
U4-MW-13I	3/16/2023	N	EM07	UMCf	77.1 - 87.1	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	133
U4-MW-13I	4/19/2023	N	EM08	UMCf	77.1 - 87.1	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	34.8 J+
U4-MW-13I	5/17/2023	N	EM09	UMCf	77.1 - 87.1	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	38.0
U4-MW-13I	6/15/2023	N	EM10	UMCf	77.1 - 87.1	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	46.7
U4-MW-13I	7/12/2023	N	EM11	UMCf	77.1 - 87.1	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	44.3
U4-MW-13I	8/11/2023	N	EM12	UMCf	77.1 - 87.1	<0.0941	<0.118	<0.128	1.07	<0.129	<0.605	<0.128	<0.116	<0.192	685
U4-MW-13I	9/11/2023	N	EM13	UMCf	77.1 - 87.1	<2.35	<2.95	<3.20	<3.40	<3.22	<15.1	<3.20	<2.90	<4.80	805
U4-MW-13I	10/17/2023	N	EM14	UMCf	77.1 - 87.1	<0.0941	<0.118	<0.128	1.23	0.135 J	<0.605	0.400 J	<0.116	<0.192	904
U4-MW-13I	11/15/2023	N	EM15	UMCf	77.1 - 87.1	<0.0941	<0.118	<0.128	1.17	<0.129	<0.605	0.455 J	<0.116	<0.192	831
U4-MW-13I	12/11/2023	N	EM16	UMCf	77.1 - 87.1	<0.0941	<0.118	<0.128	<0.136	0.159 J	<0.605	<0.128	<0.116	<0.192	1,100
U4-MW-13I	1/23/2024	N	EM17	UMCf	77.1 - 87.1	<0.0941	<0.118	<0.128	0.673 J	<0.129	<0.605	<0.128	<0.116	<0.192	1,060
U4-MW-13I	2/12/2024	N	EM18	UMCf	77.1 - 87.1	<0.0941	<0.118	<0.128	1.02	<0.129	<0.605	<0.128	<0.116	<0.192	1,090
U4-MW-13I	3/11/2024	N	EM19	UMCf	77.1 - 87.1	<0.0941	<0.118	<0.128	1.03	0.165 J	<0.605	0.279 J	<0.116	<0.192	1,170
U4-MW-13I	6/13/2024	N	EM20	UMCf	77.1 - 87.1	<0.0941	<0.118	<0.128	0.710 J	0.193 J	<0.605	0.267 J	<0.116	<0.192	1,130
U4-MW-13I	9/20/2024	N	EM21	UMCf	77.1 - 87.1	<4.71	<5.90	<6.40	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	1,780 J+
U4-MW-14D	4/13/2022	N	BL02	UMCf	97.3 - 107.3	<0.0941	<0.118	<0.128	0.920 J	0.628 J	<0.605	0.805 J	<0.116	<0.192	110 J
U4-MW-14D	12/6/2022	N	EM04	UMCf	97.3 - 107.3	<0.471 UJ	<0.590 UJ	<0.640 UJ	1.17 J	<0.645 UJ	<3.03 UJ	1.27 J	<0.580 UJ	<0.960 UJ	287
U4-MW-14D	3/16/2023	N	EM07	UMCf	97.3 - 107.3	<0.471	<0.590	<0.640	<0.680	<0.645	<3.03	<0.640	<0.580	<0.960	217 J+
U4-MW-14D	6/15/2023	N	EM10	UMCf	97.3 - 107.3	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	147
U4-MW-14D	9/14/2023	N	EM13	UMCf	97.3 - 107.3	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	120
U4-MW-14D	12/15/2023	N	EM16	UMCf	97.3 - 107.3	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	177
U4-MW-14D	3/13/2024	N	EM19	UMCf	97.3 - 107.3	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	121

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-14D	6/13/2024	N	EM20	UMCf	97.3 - 107.3	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	86.1
U4-MW-14D	9/19/2024	N	EM21	UMCf	97.3 - 107.3	<0.0941	<0.118	<0.128	0.165 J	<0.129	<0.605	<0.128	<0.116	<0.192	143
U4-MW-14I	4/14/2022	N	BL02	UMCf	77.3 - 87.3	<0.0941	<0.118	<0.128	0.557 J	0.536 J	<0.605	0.537 J	<0.116	<0.192	157
U4-MW-14I	12/6/2022	N	EM04	UMCf	77.3 - 87.3	<0.471 UJ	<0.590 UJ	<0.640 UJ	<0.680 UJ	<0.645 UJ	<3.03 UJ	1.27 J	<0.580 UJ	<0.960 UJ	212
U4-MW-14I	3/16/2023	N	EM07	UMCf	77.3 - 87.3	<0.471	<0.590	<0.640	<0.680	<0.645	<3.03	<0.640	<0.580	<0.960	229 J+
U4-MW-14I	6/15/2023	N	EM10	UMCf	77.3 - 87.3	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	133
U4-MW-14I	9/14/2023	N	EM13	UMCf	77.3 - 87.3	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	122
U4-MW-14I	12/14/2023	N	EM16	UMCf	77.3 - 87.3	<0.0941	<0.118	<0.128	0.217 J	<0.129	<0.605	<0.128	<0.116	<0.192	233
U4-MW-14I	3/13/2024	N	EM19	UMCf	77.3 - 87.3	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	155
U4-MW-14I	6/14/2024	N	EM20	UMCf	77.3 - 87.3	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	164
U4-MW-14I	9/19/2024	N	EM21	UMCf	77.3 - 87.3	<0.0941	<0.118	<0.128	0.221 J	<0.129	<0.605	<0.128	<0.116	<0.192	253 J+
U4-MW-15D	4/13/2022	N	BL02	UMCf	96.0 - 106.0	<0.0941	<0.118	<0.128	0.402 J	<0.129	<0.605	<0.128	<0.116	<0.192	407 J+
U4-MW-15D	12/5/2022	N	EM04	UMCf	96.0 - 106.0	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	165
U4-MW-15D	3/20/2023	N	EM07	UMCf	96.0 - 106.0	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	114
U4-MW-15D	6/14/2023	N	EM10	UMCf	96.0 - 106.0	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	298
U4-MW-15D	9/13/2023	N	EM13	UMCf	96.0 - 106.0	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	0.136 J	<0.116	<0.192	144
U4-MW-15D	12/12/2023	N	EM16	UMCf	96.0 - 106.0	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	92.6
U4-MW-15D	3/12/2024	N	EM19	UMCf	96.0 - 106.0	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	92.0
U4-MW-15D	6/14/2024	N	EM20	UMCf	96.0 - 106.0	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	88.7
U4-MW-15D	9/24/2024	N	EM21	UMCf	96.0 - 106.0	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	111
U4-MW-15DD	4/13/2022	N	BL02	UMCf	120.3 - 130.3	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	13.2 J+
U4-MW-15DD	12/5/2022	N	EM04	UMCf	120.3 - 130.3	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	0.237 J
U4-MW-15DD	3/15/2023	N	EM07	UMCf	120.3 - 130.3	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	0.232 J
U4-MW-15DD	6/13/2023	N	EM10	UMCf	120.3 - 130.3	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	0.336 J
U4-MW-15DD	9/14/2023	N	EM13	UMCf	120.3 - 130.3	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	<0.111
U4-MW-15DD	12/13/2023	N	EM16	UMCf	120.3 - 130.3	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	0.329 J
U4-MW-15DD	3/12/2024	N	EM19	UMCf	120.3 - 130.3	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	0.261 J
U4-MW-15DD	6/14/2024	N	EM20	UMCf	120.3 - 130.3	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	<0.111
U4-MW-15DD	9/24/2024	N	EM21	UMCf	120.3 - 130.3	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	<0.111
U4-MW-15I	4/12/2022	N	BL02	UMCf	76.8 - 86.8	<0.0941	<0.118	<0.128	0.609 J	0.428 J	<0.605	0.809 J	<0.116	<0.192	705
U4-MW-15I	12/5/2022	N	EM04	UMCf	76.8 - 86.8	<0.0941	<0.118	<0.128	0.582 J	<0.129	<0.605	0.371 J	<0.116	<0.192	758
U4-MW-15I	3/17/2023	N	EM07	UMCf	76.8 - 86.8	<1.88	<2.36	<2.56	<2.72	<2.58	<12.1	<2.56	<2.32	<3.84	47.6 J
U4-MW-15I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	4.51 J
U4-MW-15I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	214 J
U4-MW-15I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	643 J+
U4-MW-15I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	<4.71	<5.90	<6.40	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	975
U4-MW-15I	6/17/2024	N	EM20	UMCf	76.8 - 86.8	<4.71	<5.90	<6.40	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	1,440
U4-MW-15I	9/25/2024	N	EM21	UMCf	76.8 - 86.8	<4.71 UJ	<5.90 UJ	<6.40 UJ	<6.80 UJ	<6.45 UJ	<30.3 UJ	<6.40 UJ	<5.80 UJ	<9.60 UJ	<5.55 UJ
U4-MW-15S	4/13/2022	N	BL02	UMCf	54.8 - 64.8	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	9.07 J+
U4-MW-15S	12/5/2022	N	EM04	UMCf	54.8 - 64.8	<2.35	<2.95	<3.20	<3.40	<3.22	<15.1	<3.20	<2.90	<4.80	8.04 J
U4-MW-15S	3/13/2023	N	EM07	UMCf	54.8 - 64.8	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	<0.111
U4-MW-15S	6/13/2023	N	EM10	UMCf	54.8 - 64.8	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	0.191 J
U4-MW-15S	9/14/2023	N	EM13	UMCf	54.8 - 64.8	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	<0.111
U4-MW-15S	12/11/2023	N	EM16	UMCf	54.8 - 64.8	<0.188	<0.236	<0.256	<0.272	<0.258	<1.21	<0.256	<0.232	<0.384	<0.222
U4-MW-15S	3/12/2024	N	EM19	UMCf	54.8 - 64.8	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	1.18 J
U4-MW-15S	3/26/2024	N	EM19	UMCf	54.8 - 64.8	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	<0.111
U4-MW-15S	6/14/2024	N	EM20	UMCf	54.8 - 64.8	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	<0.111

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-15S	9/20/2024	N	EM21	UMCf	54.8 - 64.8	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	<0.111
U4-MW-16D	4/11/2022	N	BL02	UMCf	96.8 - 106.8	0.261 J	<0.118	<0.128	1.91	0.510 J	<0.605	<0.128	<0.116	<0.192	3,310
U4-MW-16D	12/5/2022	N	EM04	UMCf	96.8 - 106.8	<0.0941	<0.118	<0.128	0.840 J	0.281 J	<0.605	0.646 J	<0.116	<0.192	2,020
U4-MW-16D	3/14/2023	N	EM07	UMCf	96.8 - 106.8	<0.0941	<0.118	<0.128	0.443 J	<0.129	<0.605	<0.128	<0.116	<0.192	1,290
U4-MW-16D	6/13/2023	N	EM10	UMCf	96.8 - 106.8	<0.0941	<0.118	<0.128	1.36	0.366 J	<0.605	<0.128	<0.116	<0.192	3,560
U4-MW-16D	9/15/2023	N	EM13	UMCf	96.8 - 106.8	<0.0941	<0.118	<0.128	0.318 J	<0.129	<0.605	<0.128	<0.116	<0.192	1,470
U4-MW-16D	12/14/2023	N	EM16	UMCf	96.8 - 106.8	<0.0941	<0.118	<0.128	0.255 J	<0.129	<0.605	<0.128	<0.116	<0.192	1,000
U4-MW-16D	3/14/2024	N	EM19	UMCf	96.8 - 106.8	<4.71	<5.90	<6.40	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	1,190
U4-MW-16D	6/17/2024	N	EM20	UMCf	96.8 - 106.8	<4.71	<5.90	<6.40	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	1,840
U4-MW-16D	9/20/2024	N	EM21	UMCf	96.8 - 106.8	<4.71	<5.90	<6.40	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	2,260 J+
U4-MW-16DD	4/12/2022	N	BL02	UMCf	120.8 - 130.8	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	0.369 J	<0.116	<0.192	121
U4-MW-16DD	12/5/2022	N	EM04	UMCf	120.8 - 130.8	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	43.7
U4-MW-16DD	3/15/2023	N	EM07	UMCf	120.8 - 130.8	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	34.8 J+
U4-MW-16DD	6/13/2023	N	EM10	UMCf	120.8 - 130.8	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	26.8
U4-MW-16DD	9/14/2023	N	EM13	UMCf	120.8 - 130.8	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	23.2
U4-MW-16DD	12/13/2023	N	EM16	UMCf	120.8 - 130.8	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	17.4 J+
U4-MW-16DD	3/14/2024	N	EM19	UMCf	120.8 - 130.8	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	16.2
U4-MW-16DD	6/17/2024	N	EM20	UMCf	120.8 - 130.8	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	10.3
U4-MW-16DD	9/19/2024	N	EM21	UMCf	120.8 - 130.8	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	12.5 J+
U4-MW-16I	4/11/2022	N	BL02	UMCf	77.0 - 87.0	0.186 J	<0.118	<0.128	0.794 J	0.154 J	<0.605	<0.128	<0.116	<0.192	424
U4-MW-16I	12/5/2022	N	EM04	UMCf	77.0 - 87.0	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	7.96
U4-MW-16I	12/5/2022	FD	EM04	UMCf	77.0 - 87.0	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	8.00
U4-MW-16I	3/13/2023	N	EM07	UMCf	77.0 - 87.0	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	<0.111
U4-MW-16I	3/13/2023	FD	EM07	UMCf	77.0 - 87.0	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	<0.111
U4-MW-16I	6/12/2023	N	EM10	UMCf	77.0 - 87.0	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	<0.111
U4-MW-16I	6/12/2023	FD	EM10	UMCf	77.0 - 87.0	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	<0.111
U4-MW-16I	9/11/2023	N	EM13	UMCf	77.0 - 87.0	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	1,440
U4-MW-16I	9/11/2023	FD	EM13	UMCf	77.0 - 87.0	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	1,420
U4-MW-16I	12/11/2023	N	EM16	UMCf	77.0 - 87.0	<0.0941	<0.118	<0.128	<0.136	0.384 J	<0.605	<0.128	<0.116	<0.192	2,280
U4-MW-16I	12/11/2023	FD	EM16	UMCf	77.0 - 87.0	<0.0941	<0.118	<0.128	<0.136	0.347 J	<0.605	<0.128	<0.116	<0.192	2,360
U4-MW-16I	3/11/2024	N	EM19	UMCf	77.0 - 87.0	<0.0941	<0.118	<0.128	1.25	0.411 J	<0.605	0.742 J	<0.116	<0.192	1,880
U4-MW-16I	3/11/2024	FD	EM19	UMCf	77.0 - 87.0	0.180 J	<0.118	<0.128	1.07	0.394 J	<0.605	0.695 J	<0.116	<0.192	1,880
U4-MW-16I	6/18/2024	N	EM20	UMCf	77.0 - 87.0	<0.0941	<0.118	<0.128	0.582 J	<0.129	<0.605	<0.128	<0.116	<0.192	1,640
U4-MW-16I	6/18/2024	FD	EM20	UMCf	77.0 - 87.0	<0.0941	<0.118	<0.128	0.686 J	<0.129	<0.605	<0.128	<0.116	<0.192	1,980
U4-MW-16I	9/19/2024	N	EM21	UMCf	77.0 - 87.0	<0.0941	<0.118	<0.128	0.820 J	0.214 J	<0.605	1.24	<0.116	<0.192	1,880 J+
U4-MW-16I	9/19/2024	FD	EM21	UMCf	77.0 - 87.0	<0.0941	<0.118	<0.128	0.950 J	0.204 J	<0.605	0.544 J	<0.116	<0.192	2,350 J+
U4-MW-16S	4/12/2022	N	BL02	UMCf	54.8 - 64.8	<0.0941	<0.118	<0.128	0.323 J	<0.129	<0.605	0.365 J	<0.116	<0.192	12.8
U4-MW-16S	4/12/2022	FD	BL02	UMCf	54.8 - 64.8	<0.0941	<0.118	<0.128	0.308 J	<0.129	<0.605	0.346 J	<0.116	<0.192	12.3
U4-MW-16S	12/6/2022	N	EM04	UMCf	54.8 - 64.8	<0.0941 UJ	<0.118 UJ	<0.128 UJ	0.193 J	<0.129 UJ	<0.605 UJ	<0.128 UJ	<0.116 UJ	<0.192 UJ	7.61
U4-MW-16S	3/15/2023	N	EM07	UMCf	54.8 - 64.8	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	<0.111
U4-MW-16S	6/13/2023	N	EM10	UMCf	54.8 - 64.8	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	<0.111
U4-MW-16S	9/11/2023	N	EM13	UMCf	54.8 - 64.8	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	<0.111
U4-MW-16S	12/11/2023	N	EM16	UMCf	54.8 - 64.8	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	<0.111 UJ
U4-MW-16S	3/11/2024	N	EM19	UMCf	54.8 - 64.8	<0.0941	<0.118	<0.128	0.212 J	<0.129	<0.605	<0.128	<0.116	<0.192	<0.111
U4-MW-16S	6/17/2024	N	EM20	UMCf	54.8 - 64.8	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	<0.111
U4-MW-16S	9/20/2024	N	EM21	UMCf	54.8 - 64.8	<0.0941	<0.118	<0.128	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	<0.111
U4-SLMW	11/10/2022	N	EM03	-	-	<0.471	<0.590	<0.640	1.60 J	<0.645	<3.03	<0.640	<0.580	<0.960	1.75 J

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-T3	10/13/2022	N	EM02	-	-	<0.0941	<0.118	<0.128	4.01	1.87	<0.605	<0.128	<0.116	<0.192	3,720
U4-T3	11/3/2022	N	EM03	-	-	<0.0941	<0.118	<0.128	5.54	2.33	<0.605	2.09	<0.116	<0.192	3,460
U4-T3	12/6/2022	N	EM04	-	-	<1.88 UJ	<2.36 UJ	<2.56 UJ	3.81 J	<2.58 UJ	<12.1 UJ	6.19 J	<2.32 UJ	<3.84 UJ	2,520
U4-T3	1/9/2023	N	EM05	-	-	<0.0941	<0.118	<0.128	4.50	1.86	<0.605	1.63	<0.116	<0.192	3,390
U4-T3	2/13/2023	N	EM06	-	-	<9.41	<11.8	<12.8	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	3,210
U4-T3	3/13/2023	N	EM07	-	-	<2.35	<2.95	<3.20	<3.40	<3.22	<15.1	<3.20	<2.90	<4.80	1,410
U4-T3	4/19/2023	N	EM08	-	-	<0.0941	<0.118	<0.128	1.94	0.640 J	<0.605	0.658 J	<0.116	<0.192	1,150 J+
U4-T3	5/18/2023	N	EM09	-	-	<0.0941	<0.118	<0.128	1.87	0.557 J	<0.605	<0.128	<0.116	<0.192	1,750
U4-T3	6/12/2023	N	EM10	-	-	<0.0941	<0.118	<0.128	2.41	0.589 J	<0.605	1.13	<0.116	<0.192	1,720
U4-T3	7/11/2023	N	EM11	-	-	<0.0941	<0.118	<0.128	1.91	0.716 J	<0.605	0.657 J	<0.116	<0.192	1,490
U4-T3	8/10/2023	N	EM12	-	-	<0.0941	<0.118	<0.128	1.14	<0.129	<0.605	<0.128	<0.116	<0.192	815
U4-T3	9/11/2023	N	EM13	-	-	<0.0941	<0.118	<0.128	1.29	<0.129	<0.605	<0.128	<0.116	<0.192	911
U4-T3	10/16/2023	N	EM14	-	-	<2.35	<2.95	<3.20	<3.40	<3.22	<15.1	<3.20	<2.90	<4.80	618

Notes:
FD - Field duplicate
E - Field instrument error.
J - The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J- - The result is an estimated quantity, but the result may be biased low.
J+ - The result is an estimated quantity, but the result may be biased high.
N/A - Not Applicable
mg/L - milligrams per liter
µg/L - micrograms per liter
N - Normal field sample

R - The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

UMCf- Upper Muddy Creek Formation
< - The analyte was analyzed for, but was not detected above the level of the reported
-- Not tested.
U4-E-08D has been abandoned.
M-252 damaged/obstructed when checked on June 14, 2023 and September 14, 2023.
U4-MW-08S and U4-MW-15S were purged and resampled for EM19 on March 25-26, 2024; Original EM19 samples were collected via bailer due to well condition.
Lab was unable to analyze and report TDS for samples L1782240-20 (U4-E-09I-EM21) and -21 (U4-E-09I-EM21-FD) due to the thickness of the sample matrix.

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Diisopropyl Ether (DIPE)	Ethyl Tert-Butyl Ether (ETBE)	Ethylbenzene	Hexachlorobutadiene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
M-247-100	4/20/2022	N	BL02	UMCf	100.5 - 110.5	----	----	----	----	----	----	----	----	----	----
M-249-100	4/20/2022	N	BL02	UMCf	99.6 - 109.6	----	----	----	----	----	----	----	----	----	----
M-251-100	4/19/2022	N	BL02	UMCf	92.5 - 102.5	<0.960	<0.126	<0.111	6.51	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
M-251-100	10/13/2022	N	EM02	UMCf	92.5 - 102.5	<0.960	<0.126	<0.111	3.91	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
M-251-100	11/2/2022	N	EM03	UMCf	92.5 - 102.5	<9.60	<1.26	<1.11	2.27 J	<1.22	<3.74	<1.05	<1.01	<1.37	<3.37
M-251-100	12/8/2022	N	EM04	UMCf	92.5 - 102.5	<0.960	<0.126	<0.111	2.75	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
M-251-100	1/11/2023	N	EM05	UMCf	92.5 - 102.5	<0.960	<0.126	<0.111	2.88	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
M-251-100	2/13/2023	N	EM06	UMCf	92.5 - 102.5	<0.960	<0.126	<0.111	2.53	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337 UJ
M-251-100	3/17/2023	N	EM07	UMCf	92.5 - 102.5	<48.0	<6.30	<5.55	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9
M-251-100	4/21/2023	N	EM08	UMCf	92.5 - 102.5	<0.960	<0.126	<0.111	1.95	<0.122	<0.374	<0.105	<0.101	<0.137 UJ	<0.337
M-251-100	5/9/2023	N	EM09	UMCf	92.5 - 102.5	<0.960	<0.126	<0.111	2.31	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
M-251-100	6/14/2023	N	EM10	UMCf	92.5 - 102.5	<48.0	<6.30	<5.55	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9
M-251-100	7/14/2023	N	EM11	UMCf	92.5 - 102.5	<0.960	<0.126	<0.111	2.44	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
M-251-100	8/10/2023	N	EM12	UMCf	92.5 - 102.5	<0.960	<0.126	<0.111	1.11	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
M-251-100	9/14/2023	N	EM13	UMCf	92.5 - 102.5	<0.960	<0.126	<0.111	1.36	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
M-251-100	10/19/2023	N	EM14	UMCf	92.5 - 102.5	<0.960	<0.126	<0.111	1.30	<0.122	<18.7	<0.105	<0.101	<0.137	<0.337
M-251-100	11/16/2023	N	EM15	UMCf	92.5 - 102.5	<48.0	<6.30	<5.55	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9
M-251-100	12/12/2023	N	EM16	UMCf	92.5 - 102.5	<0.960	<0.126	<0.111	1.40	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
M-251-100	1/25/2024	N	EM17	UMCf	92.5 - 102.5	<0.960	<0.126	<0.111	1.64	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
M-251-100	2/13/2024	N	EM18	UMCf	92.5 - 102.5	<48.0	<6.30	<5.55	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9
M-251-100	3/11/2024	N	EM19	UMCf	92.5 - 102.5	<48.0	<6.30	<5.55	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9
M-251-100	6/17/2024	N	EM20	UMCf	92.5 - 102.5	<48.0	<6.30	<5.55	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9
M-251-100	9/23/2024	N	EM21	UMCf	92.5 - 102.5	1.02 J	<0.126	<0.111	0.525 J	0.374 J	<0.374	<0.105	<0.101	0.292 J	<0.337
M-251-60	4/18/2022	N	BL02	UMCf	52.3 - 62.3	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
M-251-60	3/15/2023	N	EM07	UMCf	52.3 - 62.3	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
M-251-60	6/14/2023	N	EM10	UMCf	52.3 - 62.3	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
M-251-60	9/14/2023	N	EM13	UMCf	52.3 - 62.3	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
M-251-60	12/11/2023	N	EM16	UMCf	52.3 - 62.3	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
M-251-60	3/12/2024	N	EM19	UMCf	52.3 - 62.3	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
M-251-60	6/19/2024	N	EM20	UMCf	52.3 - 62.3	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
M-251-60	9/20/2024	N	EM21	UMCf	52.3 - 62.3	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
M-252	4/21/2022	N	BL02	UMCf	132.3 - 142.3	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
M-252	3/15/2023	N	EM07	UMCf	132.3 - 142.3	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
M-252	9/19/2023	N	EM13	UMCf	132.3 - 142.3	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
M-252	12/18/2023	N	EM16	UMCf	132.3 - 142.3	<0.960	<0.126	<0.111 UJ	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
M-252	3/12/2024	N	EM19	UMCf	132.3 - 142.3	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
M-252	6/19/2024	N	EM20	UMCf	132.3 - 142.3	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
M-252	9/24/2024	N	EM21	UMCf	132.3 - 142.3	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
M-253-100	4/20/2022	N	BL02	UMCf	100.8 - 110.8	----	----	----	----	----	----	----	----	----	----
M-255-100	4/20/2022	N	BL02	UMCf	100.2 - 110.2	----	----	----	----	----	----	----	----	----	----
U4-E-01D	4/18/2022	N	BL02	UMCf	94.7 - 109.7	<4.80	<0.630	<0.555	4.26 J	<0.610	<1.87	<0.525	<0.505	<0.685	<1.69
U4-E-01D	3/14/2023	N	EM07	UMCf	94.7 - 109.7	<0.960	<0.126	<0.111	2.59	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-E-01D	6/20/2024	N	EM20	UMCf	94.7 - 109.7	<9.60	<1.26	<1.11	<1.40	<1.22	<3.74	<1.05	19.7	<1.37	<3.37
U4-E-01D	9/25/2024	N	EM21	UMCf	94.7 - 109.7	<9.60 UJ	<1.26 UJ	<1.11 UJ	<1.40 UJ	<1.22 UJ	<3.74 UJ	<1.05 UJ	<1.01 UJ	<1.37 UJ	<3.37 UJ
U4-E-01I	4/19/2022	N	BL02	UMCf	74.6 - 89.6	<0.960	<0.126	<0.111	0.328 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-E-01I	4/19/2022	FD	BL02	UMCf	74.6 - 89.6	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-E-01I	3/14/2023	N	EM07	UMCf	74.6 - 89.6	<0.960	<0.126	<0.111	0.871 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Diisopropyl Ether (DIPE)	Ethyl Tert-Butyl Ether (ETBE)	Ethylbenzene	Hexachlorobutadiene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-E-01I	4/20/2023	N	EM08	UMCf	74.6 - 89.6	<0.960	<0.126	<0.111	0.207 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-E-01I	5/10/2023	N	EM09	UMCf	74.6 - 89.6	<0.960	<0.126	<0.111	0.280 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-E-01I	6/12/2023	N	EM10	UMCf	74.6 - 89.6	<0.960	<0.126	<0.111	0.341 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-E-01I	7/11/2023	N	EM11	UMCf	74.6 - 89.6	<4.80	<0.630	<0.555	<0.700	<0.610	<1.87	<0.525	<0.505	<0.685	<1.69
U4-E-01I	8/10/2023	N	EM12	UMCf	74.6 - 89.6	<0.960	<0.126	<0.111	0.907 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-E-01I	9/11/2023	N	EM13	UMCf	74.6 - 89.6	<4.80	<0.630	<0.555	<0.700	<0.610	<1.87	<0.525	<0.505	<0.685	<1.69
U4-E-01I	10/16/2023	N	EM14	UMCf	74.6 - 89.6	<0.960	<0.126	<0.111	0.307 J	0.246 J	<0.374	<0.105	<0.101	0.157 J	<0.337
U4-E-01I	12/13/2023	N	EM16	UMCf	74.6 - 89.6	<9.60	<1.26	<1.11	<1.40	<1.22	<3.74	<1.05	65.4	<1.37	<3.37
U4-E-01I	1/24/2024	N	EM17	UMCf	74.6 - 89.6	<19.2	<2.52	<2.22	<2.80	<2.44	<7.48	<2.10	40.1	<2.74	<6.74
U4-E-01I	2/14/2024	N	EM18	UMCf	74.6 - 89.6	<9.60	<1.26	<1.11	<1.40	<1.22	<3.74	<1.05	<1.01	<1.37	<3.37
U4-E-01I	3/12/2024	N	EM19	UMCf	74.6 - 89.6	<9.60	<1.26	<1.11	<1.40	<1.22	<3.74	<1.05	62.2	<1.37	<3.37
U4-E-01I	6/20/2024	N	EM20	UMCf	74.6 - 89.6	<9.60	<1.26	<1.11	<1.40	<1.22	<3.74	<1.05	<1.01	<1.37	<3.37
U4-E-01I	9/25/2024	N	EM21	UMCf	74.6 - 89.6	<9.60 UJ	<1.26 UJ	<1.11 UJ	<1.40 UJ	<1.22 UJ	<3.74 UJ	<1.05 UJ	<1.01 UJ	<1.37 UJ	<3.37 UJ
U4-E-02D	4/20/2022	N	BL02	UMCf	94.4 - 109.4	<0.960	<0.126	<0.111	1.39	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-E-02D	3/14/2023	N	EM07	UMCf	94.4 - 109.4	<0.960	<0.126	<0.111	2.36	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-E-02D	6/19/2024	N	EM20	UMCf	94.4 - 109.4	<9.60	<1.26	<1.11	<1.40	<1.22	<3.74	<1.05	121	<1.37	<3.37
U4-E-02D	9/27/2024	N	EM21	UMCf	94.4 - 109.4	<19.2 UJ	<2.52 UJ	<2.22 UJ	<2.80 UJ	<2.44 UJ	<7.48 UJ	<2.10 UJ	<2.02 UJ	<2.74 UJ	<6.74 UJ
U4-E-02I	4/18/2022	N	BL02	UMCf	74.4 - 89.4	<0.960	<0.126	<0.111	0.956 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-E-02I	3/14/2023	N	EM07	UMCf	74.4 - 89.4	<0.960	<0.126	<0.111	1.15	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-E-02I	4/20/2023	N	EM08	UMCf	74.4 - 89.4	<0.960	<0.126	<0.111	0.761 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-E-02I	5/11/2023	N	EM09	UMCf	74.4 - 89.4	<0.960	<0.126	<0.111	0.499 J	<0.122 UJ	<0.374	<0.105	3.56	<0.137	<0.337
U4-E-02I	6/12/2023	N	EM10	UMCf	74.4 - 89.4	<0.960	<0.126	<0.111	0.297 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-E-02I	7/11/2023	N	EM11	UMCf	74.4 - 89.4	<0.960	<0.126	<0.111	0.232 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-E-02I	8/10/2023	N	EM12	UMCf	74.4 - 89.4	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-E-02I	9/11/2023	N	EM13	UMCf	74.4 - 89.4	<0.960	<0.126	<0.111	0.179 J	<0.122	<0.374	<0.105	16.6	0.184 J	<0.337
U4-E-02I	10/16/2023	N	EM14	UMCf	74.4 - 89.4	<9.60	<1.26	<1.11	<1.40	<1.22	<3.74	<1.05	<1.01	<1.37	<3.37
U4-E-02I	12/14/2023	N	EM16	UMCf	74.4 - 89.4	<9.60	2.42 J	<1.11	<1.40	<1.22	<3.74	<1.05	115	<1.37	<3.37
U4-E-02I	1/22/2024	N	EM17	UMCf	74.4 - 89.4	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	149	<0.137	<0.337
U4-E-02I	2/13/2024	N	EM18	UMCf	74.4 - 89.4	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	0.315 J	<0.337
U4-E-02I	3/13/2024	N	EM19	UMCf	74.4 - 89.4	<24.0	<3.15	<2.78	<3.50	<3.05	<9.35	<2.63	327	<3.43	<8.43
U4-E-02I	6/19/2024	N	EM20	UMCf	74.4 - 89.4	<96.0	<12.6	<11.1	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7
U4-E-02I	9/24/2024	N	EM21	UMCf	74.4 - 89.4	<96.0 UJ	<12.6 UJ	<11.1 UJ	<14.0 UJ	<12.2 UJ	<37.4 UJ	<10.5 UJ	810 J	<13.7 UJ	<33.7 UJ
U4-E-03D	4/19/2022	N	BL02	UMCf	95.1 - 110.1	<0.960	<0.126	<0.111	4.96	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-E-03D	10/13/2022	N	EM02	UMCf	95.1 - 110.1	<192	<25.2	<22.2	<28.0	<24.4	<74.8	<21.0	<20.2	<27.4	<67.4
U4-E-03D	11/3/2022	N	EM03	UMCf	95.1 - 110.1	<0.960	<0.126	<0.111	5.14 J+	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-E-03D	12/6/2022	N	EM04	UMCf	95.1 - 110.1	<19.2 UJ	<2.52 UJ	<2.22 UJ	3.45 J	<2.44 UJ	<7.48 UJ	<2.10 UJ	<2.02 UJ	<2.74 UJ	<6.74 UJ
U4-E-03D	1/9/2023	N	EM05	UMCf	95.1 - 110.1	<0.960	<0.126	<0.111	3.66	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-E-03D	2/13/2023	N	EM06	UMCf	95.1 - 110.1	<96.0	<12.6	<11.1	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7
U4-E-03D	3/13/2023	N	EM07	UMCf	95.1 - 110.1	<96.0	<12.6	<11.1	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7
U4-E-03D	3/14/2023	N	EM07	UMCf	95.1 - 110.1	<192	<25.2	<22.2	<28.0	<24.4	<74.8	<21.0	<20.2	<27.4	<67.4
U4-E-03D	4/19/2023	N	EM08	UMCf	95.1 - 110.1	<4.80	<0.630	<0.555	1.97 J	<0.610	<1.87	<0.525	<0.505	<0.685	<1.69
U4-E-03D	5/11/2023	N	EM09	UMCf	95.1 - 110.1	<0.960	<0.126	<0.111	1.55 J-	<0.122 UJ	<0.374	<0.105	0.730 J	<0.137	<0.337
U4-E-03D	6/12/2023	N	EM10	UMCf	95.1 - 110.1	<0.960	<0.126	<0.111	2.21	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-E-03D	7/11/2023	N	EM11	UMCf	95.1 - 110.1	<0.960	<0.126	<0.111	2.15	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-E-03D	8/10/2023	N	EM12	UMCf	95.1 - 110.1	<0.960	<0.126	<0.111	1.92	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-E-03D	9/11/2023	N	EM13	UMCf	95.1 - 110.1	<0.960	<0.126	<0.111	2.11	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-E-03D	10/16/2023	N	EM14	UMCf	95.1 - 110.1	<192	<25.2	<22.2	<28.0	<24.4	<74.8	<21.0	<20.2	<27.4	<67.4

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Diisopropyl Ether (DIPE)	Ethyl Tert-Butyl Ether (ETBE)	Ethylbenzene	Hexachlorobutadiene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-E-03D	6/10/2024	N	EM20	UMCf	95.1 - 110.1	<19.2	<2.52	<2.22	<2.80	<2.44	<7.48	<2.10	46.8 J	<2.74	<6.74
U4-E-03D	6/10/2024	FD	EM20	UMCf	95.1 - 110.1	<19.2	<2.52	<2.22	<2.80	<2.44	<7.48	<2.10	<2.02 UJ	<2.74	<6.74
U4-E-03D	9/27/2024	N	EM21	UMCf	95.1 - 110.1	<4.80 UJ	<0.630 UJ	<0.555 UJ	<0.700 UJ	<0.610 UJ	<1.87 UJ	<0.525 UJ	<0.505 UJ	<0.685 UJ	<1.69 UJ
U4-E-03D	9/27/2024	FD	EM21	UMCf	95.1 - 110.1	<4.80 UJ	<0.630 UJ	<0.555 UJ	<0.700 UJ	<0.610 UJ	<1.87 UJ	<0.525 UJ	<0.505 UJ	<0.685 UJ	<1.69 UJ
U4-E-04D	4/19/2022	N	BL02	UMCf	95.0 - 110.0	<0.960	<0.126	<0.111	0.812 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-E-04D	3/14/2023	N	EM07	UMCf	95.0 - 110.0	<0.960	<0.126	<0.111	2.85	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-E-04D	6/20/2024	N	EM20	UMCf	95.0 - 110.0	<9.60	<1.26	<1.11	<1.40	<1.22	<3.74	<1.05	<1.01	<1.37	<3.37
U4-E-04D	9/26/2024	N	EM21	UMCf	95.0 - 110.0	<9.60	<1.26	<1.11	<1.40	<1.22	<3.74	<1.05	<1.01	<1.37	<3.37
U4-E-04I	4/18/2022	N	BL02	UMCf	75.0 - 90.0	<0.960	<0.126	<0.111	0.141 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-E-04I	3/14/2023	N	EM07	UMCf	75.0 - 90.0	<48.0	<6.30	<5.55	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9
U4-E-04I	6/20/2024	N	EM20	UMCf	75.0 - 90.0	<9.60	<1.26	<1.11	<1.40	<1.22	<3.74	<1.05	<1.01	<1.37	<3.37
U4-E-04I	9/26/2024	N	EM21	UMCf	75.0 - 90.0	<9.60	<1.26	<1.11	<1.40	<1.22	<3.74	<1.05	<1.01	<1.37	<3.37
U4-E-05D	4/19/2022	N	BL02	UMCf	95.0 - 110.0	<0.960	<0.126	<0.111	2.06	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-E-05D	3/16/2023	N	EM07	UMCf	95.0 - 110.0	<0.960	<0.126	<0.111	0.449 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-E-05D	6/10/2024	N	EM20	UMCf	95.0 - 110.0	<19.2	<2.52	<2.22	<2.80	<2.44	<7.48	<2.10	<2.02	<2.74	<6.74
U4-E-05D	9/27/2024	N	EM21	UMCf	95.0 - 110.0	<4.80 UJ	<0.630 UJ	<0.555 UJ	<0.700 UJ	<0.610 UJ	<1.87 UJ	<0.525 UJ	<0.505 UJ	<0.685 UJ	<1.69 UJ
U4-E-05I	4/19/2022	N	BL02	UMCf	75.0 - 90.0	<0.960	<0.126	<0.111	0.948 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-E-05I	3/15/2023	N	EM07	UMCf	75.0 - 90.0	<0.960 UJ	<0.126 UJ	<0.111 UJ	1.53 J-	<0.122 UJ	<0.374 UJ	<0.105 UJ	<0.101 UJ	<0.137 UJ	<0.337 UJ
U4-E-05I	6/19/2024	N	EM20	UMCf	75.0 - 90.0	<48.0	<6.30	<5.55	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9
U4-E-05I	9/27/2024	N	EM21	UMCf	75.0 - 90.0	<9.60 UJ	<1.26 UJ	<1.11 UJ	<1.40 UJ	<1.22 UJ	<3.74 UJ	<1.05 UJ	<1.01 UJ	<1.37 UJ	<3.37 UJ
U4-E-06D	4/11/2022	N	BL02	UMCf	95.1 - 110.1	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-E-06D	6/20/2024	N	EM20	UMCf	95.1 - 110.1	<9.60	<1.26	<1.11	<1.40	<1.22	<3.74	<1.05	<1.01	<1.37	<3.37
U4-E-06D	9/27/2024	N	EM21	UMCf	95.1 - 110.1	<4.80 UJ	<0.630 UJ	<0.555 UJ	<0.700 UJ	<0.610 UJ	<1.87 UJ	<0.525 UJ	<0.505 UJ	<0.685 UJ	<1.69 UJ
U4-E-06I	4/11/2022	N	BL02	UMCf	73.2 - 88.2	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-E-06I	4/11/2022	FD	BL02	UMCf	73.2 - 88.2	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-E-06I	10/12/2022	N	EM02	UMCf	73.2 - 88.2	<0.960	<0.126	<0.111	0.447 J	<0.122	<0.374	<0.105	4.56	<0.137	<0.337
U4-E-06I	11/3/2022	N	EM03	UMCf	73.2 - 88.2	<0.960	<0.126	<0.111	0.414 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-E-06I	12/6/2022	N	EM04	UMCf	73.2 - 88.2	<9.60 UJ	<1.26 UJ	<1.11 UJ	<1.40 UJ	<1.22 UJ	<3.74 UJ	<1.05 UJ	<1.01 UJ	<1.37 UJ	<3.37 UJ
U4-E-06I	1/9/2023	N	EM05	UMCf	73.2 - 88.2	<0.960	<0.126	<0.111	0.412 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-E-06I	2/13/2023	N	EM06	UMCf	73.2 - 88.2	<96.0	<12.6	<11.1	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7
U4-E-06I	3/13/2023	N	EM07	UMCf	73.2 - 88.2	<19.2	<2.52	<2.22	<2.80	<2.44	<7.48	<2.10	7.88 J	<2.74	<6.74
U4-E-06I	4/17/2023	N	EM08	UMCf	73.2 - 88.2	<19.2	<2.52	<2.22	<2.80	<2.44	<7.48	<2.10	<2.02	<2.74	<6.74
U4-E-06I	5/15/2023	N	EM09	UMCf	73.2 - 88.2	<24.0	<3.15	<2.78	<3.50	<3.05	<9.35	<2.63	<2.53	<3.43	<8.43
U4-E-06I	6/12/2023	N	EM10	UMCf	73.2 - 88.2	<0.960	<0.126	<0.111	0.486 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-E-06I	7/11/2023	N	EM11	UMCf	73.2 - 88.2	<0.960	<0.126	<0.111	0.449 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-E-06I	8/11/2023	N	EM12	UMCf	73.2 - 88.2	<4.80	<0.630	<0.555	<0.700	<0.610	<1.87	<0.525	<0.505	<0.685	<1.69
U4-E-06I	9/11/2023	N	EM13	UMCf	73.2 - 88.2	<0.960	<0.126	<0.111	0.340 J	<0.122	<0.374	<0.105	7.88	<0.137	<0.337
U4-E-06I	10/16/2023	N	EM14	UMCf	73.2 - 88.2	<48.0	<6.30	<5.55	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9
U4-E-06I	12/13/2023	N	EM16	UMCf	73.2 - 88.2	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	19.1	<0.137	<0.337
U4-E-06I	1/22/2024	N	EM17	UMCf	73.2 - 88.2	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	2.40	<0.137	<0.337
U4-E-06I	2/13/2024	N	EM18	UMCf	73.2 - 88.2	<48.0	<6.30	<5.55	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9
U4-E-06I	3/11/2024	N	EM19	UMCf	73.2 - 88.2	<48.0	<6.30	<5.55	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9
U4-E-06I	6/11/2024	N	EM20	UMCf	73.2 - 88.2	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-E-06I	9/27/2024	N	EM21	UMCf	73.2 - 88.2	<19.2 UJ	<2.52 UJ	<2.22 UJ	<2.80 UJ	<2.44 UJ	<7.48 UJ	<2.10 UJ	<2.02 UJ	<2.74 UJ	<6.74 UJ
U4-E-07D	4/12/2022	N	BL02	UMCf	94.6 - 109.6	<0.960	<0.126	<0.111	1.08	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-E-07D	6/20/2024	N	EM20	UMCf	94.6 - 109.6	<9.60	<1.26	<1.11	<1.40	<1.22	<3.74	<1.05	<1.01	<1.37	<3.37
U4-E-07D	9/26/2024	N	EM21	UMCf	94.6 - 109.6	<9.60	<1.26	<1.11	<1.40	<1.22	<3.74	<1.05	<1.01	<1.37	<3.37

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Diisopropyl Ether (DIPE)	Ethyl Tert-Butyl Ether (ETBE)	Ethylbenzene	Hexachlorobutadiene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-E-07I	4/12/2022	N	BL02	UMCf	74.7 - 89.7	<0.960	<0.126	<0.111	0.715 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-E-07I	10/11/2022	N	EM02	UMCf	74.7 - 89.7	<9.60	<1.26	<1.11	<1.40	<1.22	<3.74	<1.05	<1.01	<1.37	<3.37
U4-E-07I	11/3/2022	N	EM03	UMCf	74.7 - 89.7	<0.960	<0.126	<0.111	2.14 J+	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-E-07I	12/6/2022	N	EM04	UMCf	74.7 - 89.7	<24.0 UJ	<3.15 UJ	<2.78 UJ	<3.50 UJ	<3.05 UJ	<9.35 UJ	<2.63 UJ	<2.53 UJ	<3.43 UJ	<8.43 UJ
U4-E-07I	1/9/2023	N	EM05	UMCf	74.7 - 89.7	<0.960	<0.126	<0.111	2.24	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-E-07I	2/13/2023	N	EM06	UMCf	74.7 - 89.7	<96.0	<12.6	<11.1	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7
U4-E-07I	3/13/2023	N	EM07	UMCf	74.7 - 89.7	<96.0	<12.6	<11.1	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7
U4-E-07I	4/19/2023	N	EM08	UMCf	74.7 - 89.7	<4.80	<0.630	<0.555	1.67 J	<0.610	<1.87	<0.525	<0.505	<0.685	<1.69
U4-E-07I	5/15/2023	N	EM09	UMCf	74.7 - 89.7	<96.0	<12.6	<11.1	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7
U4-E-07I	6/12/2023	N	EM10	UMCf	74.7 - 89.7	<0.960	<0.126	<0.111	1.15	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-E-07I	7/11/2023	N	EM11	UMCf	74.7 - 89.7	<0.960	<0.126	<0.111	1.07	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-E-07I	8/11/2023	N	EM12	UMCf	74.7 - 89.7	<4.80	<0.630	<0.555	<0.700	<0.610	<1.87	<0.525	<0.505	<0.685	<1.69
U4-E-07I	9/11/2023	N	EM13	UMCf	74.7 - 89.7	<0.960	<0.126	<0.111	1.30	<0.122	<0.374	<0.105	0.286 J	<0.137	<0.337
U4-E-07I	10/16/2023	N	EM14	UMCf	74.7 - 89.7	<96.0	<12.6	<11.1	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7
U4-E-07I	12/13/2023	N	EM16	UMCf	74.7 - 89.7	<0.960	<0.126	<0.111	1.09	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-E-07I	1/23/2024	N	EM17	UMCf	74.7 - 89.7	<0.960	<0.126	<0.111	0.444 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-E-07I	2/13/2024	N	EM18	UMCf	74.7 - 89.7	<192	<25.2	<22.2	<28.0	<24.4	<74.8	<21.0	<20.2	<27.4	<67.4
U4-E-07I	3/11/2024	N	EM19	UMCf	74.7 - 89.7	<192	<25.2	<22.2	<28.0	<24.4	<74.8	<21.0	<20.2	<27.4	<67.4
U4-E-07I	6/11/2024	N	EM20	UMCf	74.7 - 89.7	<0.960	<0.126	<0.111	1.03	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-E-07I	9/26/2024	N	EM21	UMCf	74.7 - 89.7	<96.0	<12.6	<11.1	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7
U4-E-08D	4/12/2022	N	BL02	UMCf	94.6 - 109.6	<0.960	<0.126	<0.111	1.00 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-E-08D	10/11/2022	N	EM02	UMCf	94.6 - 109.6	<9.60	<1.26	<1.11	<1.40	<1.22	<3.74	<1.05	<1.01	<1.37	<3.37
U4-E-08D	11/3/2022	N	EM03	UMCf	94.6 - 109.6	<0.960	<0.126	<0.111	0.768 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-E-08D	12/6/2022	N	EM04	UMCf	94.6 - 109.6	<24.0 UJ	<3.15 UJ	<2.78 UJ	<3.50 UJ	<3.05 UJ	<9.35 UJ	<2.63 UJ	<2.53 UJ	<3.43 UJ	<8.43 UJ
U4-E-08D	1/9/2023	N	EM05	UMCf	94.6 - 109.6	<0.960	<0.126	<0.111	0.743 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-E-08D	2/13/2023	N	EM06	UMCf	94.6 - 109.6	<96.0	<12.6	<11.1	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7
U4-E-08D	3/13/2023	N	EM07	UMCf	94.6 - 109.6	<96.0	<12.6	<11.1	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7
U4-E-08D	4/19/2023	N	EM08	UMCf	94.6 - 109.6	<4.80	<0.630	<0.555	<0.700	<0.610	<1.87	<0.525	<0.505	<0.685	<1.69
U4-E-08D	5/17/2023	N	EM09	UMCf	94.6 - 109.6	<96.0	<12.6	<11.1	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7
U4-E-08D	6/12/2023	N	EM10	UMCf	94.6 - 109.6	<0.960	<0.126	<0.111	0.399 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-E-08D	7/11/2023	N	EM11	UMCf	94.6 - 109.6	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-E-09D	4/15/2022	N	BL02	UMCf	94.5 - 109.5	<0.960	<0.126	<0.111	0.209 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-E-09D	6/10/2024	N	EM20	UMCf	94.5 - 109.5	<19.2	<2.52	<2.22	<2.80	<2.44	<7.48	<2.10	105	<2.74	<6.74
U4-E-09D	9/27/2024	N	EM21	UMCf	94.5 - 109.5	<19.2 UJ	<2.52 UJ	<2.22 UJ	<2.80 UJ	<2.44 UJ	<7.48 UJ	<2.10 UJ	<2.02 UJ	<2.74 UJ	<6.74 UJ
U4-E-09I	4/14/2022	N	BL02	UMCf	74.9 - 89.9	<0.960	<0.126	<0.111	0.576 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-E-09I	6/10/2024	N	EM20	UMCf	74.9 - 89.9	<19.2	<2.52	<2.22	<2.80	<2.44	<7.48	<2.10	662	<2.74	<6.74
U4-E-09I	6/10/2024	FD	EM20	UMCf	74.9 - 89.9	<19.2	<2.52	<2.22	<2.80	<2.44	<7.48	<2.10	634	<2.74	<6.74
U4-E-09I	9/26/2024	N	EM21	UMCf	74.9 - 89.9	<19.2	<2.52	<2.22	<2.80	<2.44	<7.48	<2.10	<2.02	<2.74	<6.74
U4-E-09I	9/26/2024	FD	EM21	UMCf	74.9 - 89.9	<19.2	<2.52	<2.22	<2.80	<2.44	<7.48	<2.10	<2.02	<2.74	<6.74
U4-E-10D	4/13/2022	N	BL02	UMCf	94.5 - 109.5	<0.960	<0.126	<0.111	0.612 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-E-10D	6/19/2024	N	EM20	UMCf	94.5 - 109.5	<9.60	<1.26	<1.11	<1.40	<1.22	<3.74	<1.05	24.8	<1.37	<3.37
U4-E-10D	9/25/2024	N	EM21	UMCf	94.5 - 109.5	<9.60	<1.26	<1.11	<1.40	<1.22	<3.74	<1.05	<1.01	<1.37	<3.37
U4-E-10I	4/13/2022	N	BL02	UMCf	74.2 - 89.2	<0.960	<0.126	<0.111	0.441 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-E-10I	6/11/2024	N	EM20	UMCf	74.2 - 89.2	<96.0	<12.6	<11.1	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7
U4-E-10I	9/26/2024	N	EM21	UMCf	74.2 - 89.2	<96.0	<12.6	<11.1	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7
U4-MW-01D	4/19/2022	N	BL02	UMCf	96.7 - 106.7	<0.960	<0.126	<0.111	0.274 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-01D	2/16/2023	N	EM06	UMCf	96.7 - 106.7	<9.60	<1.26	<1.11	<1.40	<1.22	<3.74	<1.05	<1.01	<1.37	<3.37

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Diisopropyl Ether (DIPE)	Ethyl Tert-Butyl Ether (ETBE)	Ethylbenzene	Hexachlorobutadiene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-01D	3/20/2023	N	EM07	UMCf	96.7 - 106.7	<0.960	<0.126	<0.111	1.08	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-01D	6/13/2023	N	EM10	UMCf	96.7 - 106.7	<0.960	<0.126	<0.111	0.948 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-01D	9/14/2023	N	EM13	UMCf	96.7 - 106.7	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-01D	12/14/2023	N	EM16	UMCf	96.7 - 106.7	<0.960	<0.126	<0.111	0.579 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-01D	3/13/2024	N	EM19	UMCf	96.7 - 106.7	<0.960	<0.126	<0.111	0.667 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-01D	6/18/2024	N	EM20	UMCf	96.7 - 106.7	<0.960	<0.126	<0.111	0.634 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-01D	9/19/2024	N	EM21	UMCf	96.7 - 106.7	<0.960	<0.126	<0.111	0.571 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-01DD	4/19/2022	N	BL02	UMCf	119.9 - 129.9	<0.960	<0.126	<0.111	0.190 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-01DD	4/19/2022	FD	BL02	UMCf	119.9 - 129.9	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-01DD	3/15/2023	N	EM07	UMCf	119.9 - 129.9	<0.960	<0.126	<0.111	0.307 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-01DD	6/13/2023	N	EM10	UMCf	119.9 - 129.9	<0.960	<0.126	<0.111	0.722 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-01DD	9/14/2023	N	EM13	UMCf	119.9 - 129.9	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-01DD	12/15/2023	N	EM16	UMCf	119.9 - 129.9	<4.80	<0.630	<0.555	<0.700	<0.610	<1.87	<0.525	<0.505	<0.685	<1.69
U4-MW-01DD	3/12/2024	N	EM19	UMCf	119.9 - 129.9	<4.80	<0.630	<0.555	<0.700	<0.610	<1.87	<0.525	<0.505	<0.685	<1.69
U4-MW-01DD	6/18/2024	N	EM20	UMCf	119.9 - 129.9	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-01DD	9/20/2024	N	EM21	UMCf	119.9 - 129.9	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-01I	4/19/2022	N	BL02	UMCf	76.7 - 86.7	<0.960	<0.126	<0.111	0.259 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-01I	3/20/2023	N	EM07	UMCf	76.7 - 86.7	<0.960	<0.126	<0.111	1.10	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-01I	6/12/2023	N	EM10	UMCf	76.7 - 86.7	<0.960	<0.126	<0.111	0.777 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-01I	9/14/2023	N	EM13	UMCf	76.7 - 86.7	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-01I	12/15/2023	N	EM16	UMCf	76.7 - 86.7	<48.0	<6.30	<5.55	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9
U4-MW-01I	3/13/2024	N	EM19	UMCf	76.7 - 86.7	<0.960	<0.126	<0.111	0.555 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-01I	6/18/2024	N	EM20	UMCf	76.7 - 86.7	<0.960	<0.126	<0.111	0.451 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-01I	9/19/2024	N	EM21	UMCf	76.7 - 86.7	<0.960	<0.126	<0.111	0.522 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-01S	4/18/2022	N	BL02	UMCf	54.7 - 64.7	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-01S	3/15/2023	N	EM07	UMCf	54.7 - 64.7	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-01S	6/13/2023	N	EM10	UMCf	54.7 - 64.7	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-01S	9/15/2023	N	EM13	UMCf	54.7 - 64.7	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-01S	12/13/2023	N	EM16	UMCf	54.7 - 64.7	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-01S	3/13/2024	N	EM19	UMCf	54.7 - 64.7	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-01S	6/18/2024	N	EM20	UMCf	54.7 - 64.7	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-01S	9/20/2024	N	EM21	UMCf	54.7 - 64.7	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-02D	4/14/2022	N	BL02	UMCf	95.0 - 110.0	<0.960	<0.126	<0.111	3.00	0.473 J	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-02D	10/11/2022	N	EM02	UMCf	95.0 - 110.0	<0.960	<0.126	<0.111	4.51	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-02D	11/1/2022	N	EM03	UMCf	95.0 - 110.0	<48.0	16.2 J	<5.55	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9
U4-MW-02D	12/7/2022	N	EM04	UMCf	95.0 - 110.0	<0.960	<0.126	<0.111	4.53	0.149 J	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-02D	1/10/2023	N	EM05	UMCf	95.0 - 110.0	<0.960	<0.126	<0.111	3.70	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-02D	2/13/2023	N	EM06	UMCf	95.0 - 110.0	<0.960	<0.126	<0.111	3.77	0.157 J	<0.374	<0.105	<0.101	<0.137	<0.337 UJ
U4-MW-02D	3/17/2023	N	EM07	UMCf	95.0 - 110.0	<96.0	<12.6	<11.1	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7
U4-MW-02D	4/19/2023	N	EM08	UMCf	95.0 - 110.0	<4.80	<0.630	<0.555	3.33 J	<0.610	<1.87	<0.525	<0.505	<0.685	<1.69
U4-MW-02D	5/9/2023	N	EM09	UMCf	95.0 - 110.0	<4.80	<0.630	<0.555	3.44 J	<0.610	<1.87	<0.525	<0.505	<0.685	<1.69
U4-MW-02D	6/13/2023	N	EM10	UMCf	95.0 - 110.0	<0.960	<0.126	<0.111	2.86	0.148 J	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-02D	7/18/2023	N	EM11	UMCf	95.0 - 110.0	<0.960	<0.126	<0.111	4.13	0.170 J	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-02D	8/14/2023	N	EM12	UMCf	95.0 - 110.0	<240	43.0 J	<27.8	<35.0	<30.5	<93.5	<26.3	<25.3	<34.3	<84.3
U4-MW-02D	9/11/2023	N	EM13	UMCf	95.0 - 110.0	<0.960	<0.126	<0.111	2.71	0.152 J	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-02D	10/19/2023	N	EM14	UMCf	95.0 - 110.0	<0.960	<0.126	<0.111	3.45	<0.122	<37.4	<0.105	<0.101	<0.137	<0.337
U4-MW-02D	11/15/2023	N	EM15	UMCf	95.0 - 110.0	<96.0	<12.6	<11.1	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Diisopropyl Ether (DIPE)	Ethyl Tert-Butyl Ether (ETBE)	Ethylbenzene	Hexachlorobutadiene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-02D	12/14/2023	N	EM16	UMCf	95.0 - 110.0	<96.0	59.6 J	<11.1	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7
U4-MW-02D	1/25/2024	N	EM17	UMCf	95.0 - 110.0	<0.960	<0.126	<0.111	3.42	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-02D	2/12/2024	N	EM18	UMCf	95.0 - 110.0	<0.960	<0.126	<0.111	2.01	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-02D	3/13/2024	N	EM19	UMCf	95.0 - 110.0	<0.960	0.144 J	<0.111	2.36	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-02D	6/17/2024	N	EM20	UMCf	95.0 - 110.0	<0.960	<0.126	<0.111	1.95	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-02D	9/23/2024	N	EM21	UMCf	95.0 - 110.0	<0.960	<0.126	<0.111	2.53	0.124 J	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-02I	4/14/2022	N	BL02	UMCf	75.0 - 90.0	<0.960	<0.126	<0.111	1.22	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-02I	10/11/2022	N	EM02	UMCf	75.0 - 90.0	<0.960	<0.126	<0.111	1.94	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-02I	11/2/2022	N	EM03	UMCf	75.0 - 90.0	<9.60	<1.26	<1.11	<1.40	<1.22	<3.74	<1.05	<1.01	<1.37	<3.37
U4-MW-02I	11/2/2022	FD	EM03	UMCf	75.0 - 90.0	<9.60	<1.26	<1.11	<1.40	<1.22	<3.74	<1.05	<1.01	<1.37	<3.37
U4-MW-02I	12/8/2022	N	EM04	UMCf	75.0 - 90.0	<0.960	<0.126	<0.111	0.184 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-02I	12/8/2022	FD	EM04	UMCf	75.0 - 90.0	<0.960	<0.126	<0.111	0.426 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-02I	1/13/2023	N	EM05	UMCf	75.0 - 90.0	<9.60	<1.26	<1.11	<1.40	<1.22	<3.74	<1.05	<1.01	<1.37	<3.37
U4-MW-02I	1/13/2023	FD	EM05	UMCf	75.0 - 90.0	<9.60	<1.26	<1.11	<1.40	<1.22	<3.74	<1.05	<1.01	<1.37	<3.37
U4-MW-02I	2/15/2023	N	EM06	UMCf	75.0 - 90.0	<9.60	<1.26	<1.11	4.74 J	<1.22	<3.74	<1.05	<1.01	<1.37	<3.37
U4-MW-02I	2/15/2023	FD	EM06	UMCf	75.0 - 90.0	<9.60	<1.26	<1.11	4.62 J	<1.22	<3.74	<1.05	<1.01	<1.37	<3.37
U4-MW-02I	3/17/2023	N	EM07	UMCf	75.0 - 90.0	<192	<25.2	<22.2	<28.0	<24.4	<74.8	<21.0	<20.2	<27.4	<67.4
U4-MW-02I	3/17/2023	FD	EM07	UMCf	75.0 - 90.0	<192	<25.2	<22.2	<28.0	<24.4	<74.8	<21.0	<20.2	<27.4	<67.4
U4-MW-02I	4/20/2023	N	EM08	UMCf	75.0 - 90.0	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-02I	4/20/2023	FD	EM08	UMCf	75.0 - 90.0	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-02I	5/9/2023	N	EM09	UMCf	75.0 - 90.0	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-02I	5/9/2023	FD	EM09	UMCf	75.0 - 90.0	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-02I	6/12/2023	N	EM10	UMCf	75.0 - 90.0	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-02I	6/12/2023	FD	EM10	UMCf	75.0 - 90.0	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-02I	7/18/2023	N	EM11	UMCf	75.0 - 90.0	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-02I	7/18/2023	FD	EM11	UMCf	75.0 - 90.0	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-02I	8/11/2023	N	EM12	UMCf	75.0 - 90.0	<0.960	<0.126	<0.111	0.719 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-02I	8/11/2023	FD	EM12	UMCf	75.0 - 90.0	<0.960	<0.126	<0.111	0.705 J	0.123 J	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-02I	9/11/2023	N	EM13	UMCf	75.0 - 90.0	<0.960	<0.126	<0.111	0.410 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-02I	9/11/2023	FD	EM13	UMCf	75.0 - 90.0	<0.960	<0.126	<0.111	0.669 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-02I	10/19/2023	N	EM14	UMCf	75.0 - 90.0	<0.960 UJ	<0.126 UJ	<0.111 UJ	1.74 J-	<0.122 UJ	<18.7 UJ	<0.105 UJ	<0.101 UJ	<0.137 UJ	<0.337 UJ
U4-MW-02I	10/19/2023	FD	EM14	UMCf	75.0 - 90.0	<0.960	<0.126	<0.111	1.82	0.166 J	<18.7	<0.105	<0.101	<0.137	<0.337
U4-MW-02I	11/15/2023	N	EM15	UMCf	75.0 - 90.0	<48.0	<6.30	<5.55	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9
U4-MW-02I	11/15/2023	FD	EM15	UMCf	75.0 - 90.0	<48.0	<6.30	<5.55	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9
U4-MW-02I	12/14/2023	N	EM16	UMCf	75.0 - 90.0	<48.0	18.0 J	<5.55	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9
U4-MW-02I	12/14/2023	FD	EM16	UMCf	75.0 - 90.0	<48.0	11.3 J	<5.55	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9
U4-MW-02I	1/25/2024	N	EM17	UMCf	75.0 - 90.0	<0.960	<0.126	<0.111	2.81	<0.122	<0.374	<0.105	11.2 J	<0.137	<0.337
U4-MW-02I	1/25/2024	FD	EM17	UMCf	75.0 - 90.0	<0.960	<0.126	<0.111	2.93	<0.122	<0.374	<0.105	<0.101 UJ	<0.137	<0.337
U4-MW-02I	2/12/2024	N	EM18	UMCf	75.0 - 90.0	<0.960	<0.126	<0.111	2.34	<0.122	<0.374	<0.105	14.4	<0.137	<0.337
U4-MW-02I	2/12/2024	FD	EM18	UMCf	75.0 - 90.0	<0.960	<0.126	<0.111	2.02	<0.122	<0.374	<0.105	16.6	<0.137	<0.337
U4-MW-02I	3/13/2024	N	EM19	UMCf	75.0 - 90.0	<0.960	<0.126	<0.111	1.82	<0.122	<0.374	<0.105	19.5	<0.137	<0.337
U4-MW-02I	3/13/2024	FD	EM19	UMCf	75.0 - 90.0	<0.960	0.166 J	<0.111	2.09	<0.122	<0.374	<0.105	21.3	<0.137	<0.337
U4-MW-02I	6/17/2024	N	EM20	UMCf	75.0 - 90.0	<48.0	<6.30	<5.55	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9
U4-MW-02I	6/17/2024	FD	EM20	UMCf	75.0 - 90.0	<48.0	<6.30	<5.55	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9
U4-MW-02I	9/23/2024	N	EM21	UMCf	75.0 - 90.0	<0.960	<0.126	<0.111	1.88	0.125 J	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-02I	9/23/2024	FD	EM21	UMCf	75.0 - 90.0	<0.960	<0.126	<0.111	1.44	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-03D	4/20/2022	N	BL02	UMCf	96.6 - 106.6	<0.960	<0.126	<0.111	0.605 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337

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Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Diisopropyl Ether (DIPE)	Ethyl Tert-Butyl Ether (ETBE)	Ethylbenzene	Hexachlorobutadiene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-03D	2/16/2023	N	EM06	UMCf	96.6 - 106.6	<4.80	<0.630	<0.555	<0.700	<0.610	<1.87	<0.525	<0.505	<0.685	<1.69
U4-MW-03D	3/16/2023	N	EM07	UMCf	96.6 - 106.6	<19.2	<2.52	<2.22	<2.80	<2.44	<7.48	<2.10	<2.02	<2.74	<6.74
U4-MW-03D	3/16/2023	FD	EM07	UMCf	96.6 - 106.6	<4.80	<0.630	<0.555	<0.700	<0.610	<1.87	<0.525	<0.505	<0.685	<1.69
U4-MW-03D	6/15/2023	N	EM10	UMCf	96.6 - 106.6	<0.960	<0.126	<0.111	<0.140	<0.122 UJ	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-03D	9/14/2023	N	EM13	UMCf	96.6 - 106.6	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-03D	12/13/2023	N	EM16	UMCf	96.6 - 106.6	<0.960	<0.126	<0.111	0.789 J	<0.122	<0.374	<0.105	1.85	<0.137	<0.337
U4-MW-03D	3/15/2024	N	EM19	UMCf	96.6 - 106.6	<0.960	<0.126	<0.111	0.488 J	<0.122	<0.374	<0.105	0.555 J	<0.137	<0.337
U4-MW-03D	6/17/2024	N	EM20	UMCf	96.6 - 106.6	<48.0	<6.30	<5.55	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9
U4-MW-03D	9/18/2024	N	EM21	UMCf	96.6 - 106.6	<0.960	<0.126	<0.111	0.226 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-03DD	4/20/2022	N	BL02	UMCf	119.7 - 129.7	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-03DD	3/15/2023	N	EM07	UMCf	119.7 - 129.7	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-03DD	6/15/2023	N	EM10	UMCf	119.7 - 129.7	<0.960	<0.126	<0.111	<0.140	<0.122 UJ	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-03DD	9/14/2023	N	EM13	UMCf	119.7 - 129.7	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-03DD	12/14/2023	N	EM16	UMCf	119.7 - 129.7	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	1.06	<0.137	<0.337
U4-MW-03DD	3/14/2024	N	EM19	UMCf	119.7 - 129.7	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-03DD	6/17/2024	N	EM20	UMCf	119.7 - 129.7	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-03DD	9/18/2024	N	EM21	UMCf	119.7 - 129.7	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-03I	4/19/2022	N	BL02	UMCf	76.6 - 86.6	<0.960	<0.126	<0.111	0.457 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-03I	3/15/2023	N	EM07	UMCf	76.6 - 86.6	<0.960	<0.126	<0.111	1.01	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-03I	6/14/2023	N	EM10	UMCf	76.6 - 86.6	<19.2	<2.52	<2.22	<2.80	<2.44	<7.48	<2.10	<2.02	<2.74	<6.74
U4-MW-03I	6/14/2023	FD	EM10	UMCf	76.6 - 86.6	<24.0	<3.15	<2.78	<3.50	<3.05	<9.35	<2.63	<2.53	<3.43	<8.43
U4-MW-03I	9/11/2023	N	EM13	UMCf	76.6 - 86.6	<0.960	<0.126	<0.111	0.877 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-03I	9/11/2023	FD	EM13	UMCf	76.6 - 86.6	<0.960	<0.126	<0.111	1.00 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-03I	12/13/2023	N	EM16	UMCf	76.6 - 86.6	<0.960	<0.126	<0.111	0.739 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-03I	12/13/2023	FD	EM16	UMCf	76.6 - 86.6	<0.960	<0.126	<0.111	0.817 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-03I	3/14/2024	N	EM19	UMCf	76.6 - 86.6	<48.0	<6.30	<5.55	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9
U4-MW-03I	3/14/2024	FD	EM19	UMCf	76.6 - 86.6	<48.0	<6.30	<5.55	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9
U4-MW-03I	6/19/2024	N	EM20	UMCf	76.6 - 86.6	<48.0	<6.30	<5.55	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9
U4-MW-03I	6/19/2024	FD	EM20	UMCf	76.6 - 86.6	<48.0	<6.30	<5.55	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9
U4-MW-03I	9/20/2024	N	EM21	UMCf	76.6 - 86.6	<4.80	<0.630	<0.555	<0.700	<0.610	<1.87	<0.525	<0.505	<0.685	<1.69
U4-MW-03I	9/20/2024	FD	EM21	UMCf	76.6 - 86.6	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-03S	4/18/2022	N	BL02	UMCf	54.5 - 64.5	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-03S	4/18/2022	FD	BL02	UMCf	54.5 - 64.5	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-03S	3/15/2023	N	EM07	UMCf	54.5 - 64.5	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-03S	6/15/2023	N	EM10	UMCf	54.5 - 64.5	<0.960	<0.126	<0.111	<0.140	<0.122 UJ	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-03S	9/14/2023	N	EM13	UMCf	54.5 - 64.5	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-03S	12/13/2023	N	EM16	UMCf	54.5 - 64.5	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-03S	3/14/2024	N	EM19	UMCf	54.5 - 64.5	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-03S	6/14/2024	N	EM20	UMCf	54.5 - 64.5	<0.960	<0.126	<0.111	<0.140	<0.122 UJ	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-03S	9/18/2024	N	EM21	UMCf	54.5 - 64.5	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-04D	4/19/2022	N	BL02	UMCf	97.0 - 107.0	<0.960	<0.126	<0.111	1.42	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-04D	2/16/2023	N	EM06	UMCf	97.0 - 107.0	<48.0	<6.30	<5.55	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9
U4-MW-04D	3/21/2023	N	EM07	UMCf	97.0 - 107.0	<0.960	<0.126	<0.111	0.946 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-04D	6/14/2023	N	EM10	UMCf	97.0 - 107.0	<0.960	<0.126	<0.111	0.643 J	<0.122	<0.374	<0.105	0.126 J	<0.137	<0.337
U4-MW-04D	9/15/2023	N	EM13	UMCf	97.0 - 107.0	<0.960	<0.126	<0.111	0.612 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-04D	12/12/2023	N	EM16	UMCf	97.0 - 107.0	<0.960	<0.126	<0.111	0.499 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-04D	3/12/2024	N	EM19	UMCf	97.0 - 107.0	<48.0	<6.30	<5.55	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Diisopropyl Ether (DIPE)	Ethyl Tert-Butyl Ether (ETBE)	Ethylbenzene	Hexachlorobutadiene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-04D	6/19/2024	N	EM20	UMCf	97.0 - 107.0	<48.0	<6.30	<5.55	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9
U4-MW-04D	9/24/2024	N	EM21	UMCf	97.0 - 107.0	<0.960	<0.126	<0.111	0.631 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-04I	4/19/2022	N	BL02	UMCf	76.8 - 86.8	<0.960	<0.126	<0.111	0.749 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-04I	3/20/2023	N	EM07	UMCf	76.8 - 86.8	<0.960	<0.126	<0.111	1.06	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-04I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<4.80	<0.630	<0.555	0.810 J	<0.610	<1.87	<0.525	<0.505	<0.685	<1.69
U4-MW-04I	9/14/2023	N	EM13	UMCf	76.8 - 86.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-04I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	<0.960	<0.126	<0.111	1.64	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-04I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	<192	<25.2	<22.2	<28.0	<24.4	<74.8	<21.0	<20.2	<27.4	<67.4
U4-MW-04I	6/18/2024	N	EM20	UMCf	76.8 - 86.8	<4.80	<0.630	<0.555	<0.700	<0.610	<1.87	<0.525	<0.505	<0.685	<1.69
U4-MW-04I	9/24/2024	N	EM21	UMCf	76.8 - 86.8	<0.960	<0.126	<0.111	1.36	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-05D	4/15/2022	N	BL02	UMCf	98.2 - 108.2	<0.960	<0.126	<0.111	7.16	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-05D	10/13/2022	N	EM02	UMCf	98.2 - 108.2	<96.0	<12.6	<11.1	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7
U4-MW-05D	11/3/2022	N	EM03	UMCf	98.2 - 108.2	<0.960	<0.126	<0.111	6.10	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-05D	12/7/2022	N	EM04	UMCf	98.2 - 108.2	<0.960	<0.126	<0.111	6.85	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-05D	1/11/2023	N	EM05	UMCf	98.2 - 108.2	<0.960	<0.126	<0.111	5.60	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-05D	2/14/2023	N	EM06	UMCf	98.2 - 108.2	<96.0	<12.6	<11.1	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7
U4-MW-05D	3/16/2023	N	EM07	UMCf	98.2 - 108.2	<96.0	<12.6	<11.1	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7
U4-MW-05D	4/20/2023	N	EM08	UMCf	98.2 - 108.2	<0.960	<0.126	<0.111	2.41	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-05D	5/10/2023	N	EM09	UMCf	98.2 - 108.2	<0.960	<0.126	<0.111	1.81	0.311 J	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-05D	6/15/2023	N	EM10	UMCf	98.2 - 108.2	<0.960	<0.126	<0.111	1.13	<0.122 UJ	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-05D	7/18/2023	N	EM11	UMCf	98.2 - 108.2	<0.960	<0.126	<0.111	1.41	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-05D	8/14/2023	N	EM12	UMCf	98.2 - 108.2	<24.0	<3.15	<2.78	<3.50	<3.05	<9.35	<2.63	<2.53	<3.43	<8.43
U4-MW-05D	9/12/2023	N	EM13	UMCf	98.2 - 108.2	<24.0	<3.15	<2.78	<3.50	<3.05	<9.35	<2.63	<2.53	<3.43	<8.43
U4-MW-05D	10/18/2023	N	EM14	UMCf	98.2 - 108.2	<24.0	<3.15	<2.78	<3.50	<3.05	<9.35	<2.63	<2.53	<3.43	<8.43
U4-MW-05D	11/16/2023	N	EM15	UMCf	98.2 - 108.2	<24.0	<3.15	<2.78	<3.50	<3.05	<9.35	<2.63	<2.53	<3.43	<8.43
U4-MW-05D	12/14/2023	N	EM16	UMCf	98.2 - 108.2	<24.0	4.69 J	<2.78	<3.50	<3.05	<9.35	<2.63	51.7	<3.43	<8.43
U4-MW-05D	1/26/2024	N	EM17	UMCf	98.2 - 108.2	<0.960	<0.126	<0.111	0.963 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-05D	2/14/2024	N	EM18	UMCf	98.2 - 108.2	<0.960	<0.126	<0.111	1.09	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-05D	3/12/2024	N	EM19	UMCf	98.2 - 108.2	<24.0	<3.15	<2.78	<3.50	<3.05	<9.35	<2.63	42.5	<3.43	<8.43
U4-MW-05D	6/18/2024	N	EM20	UMCf	98.2 - 108.2	<0.960	<0.126	<0.111	0.895 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-05D	9/25/2024	N	EM21	UMCf	98.2 - 108.2	<48.0 UJ	<6.30 UJ	<5.55 UJ	<7.00 UJ	<6.10 UJ	<18.7 UJ	<5.25 UJ	<5.05 UJ	<6.85 UJ	<16.9 UJ
U4-MW-05I	4/15/2022	N	BL02	UMCf	76.6 - 86.6	<0.960	<0.126	<0.111	4.75	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-05I	10/13/2022	N	EM02	UMCf	76.6 - 86.6	<96.0	<12.6	<11.1	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7
U4-MW-05I	11/3/2022	N	EM03	UMCf	76.6 - 86.6	<0.960	<0.126	<0.111	7.90	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-05I	12/8/2022	N	EM04	UMCf	76.6 - 86.6	<0.960	<0.126	<0.111	6.57	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-05I	1/11/2023	N	EM05	UMCf	76.6 - 86.6	<96.0	<0.126	<0.111	6.99	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-05I	2/14/2023	N	EM06	UMCf	76.6 - 86.6	<96.0	<12.6	<11.1	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7
U4-MW-05I	3/14/2023	N	EM07	UMCf	76.6 - 86.6	<96.0	<12.6	<11.1	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7
U4-MW-05I	4/21/2023	N	EM08	UMCf	76.6 - 86.6	<0.960	<0.126	<0.111	0.942 J	0.197 J	<0.374	<0.105	<0.101	<0.137 UJ	<0.337
U4-MW-05I	5/10/2023	N	EM09	UMCf	76.6 - 86.6	<0.960	<0.126	<0.111	<0.140	0.447 J	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-05I	6/15/2023	N	EM10	UMCf	76.6 - 86.6	<0.960	<0.126	<0.111	<0.140	<0.122 UJ	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-05I	7/17/2023	N	EM11	UMCf	76.6 - 86.6	<0.960	<0.126	<0.111	1.27	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-05I	8/14/2023	N	EM12	UMCf	76.6 - 86.6	<48.0	8.24 J	<5.55	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9
U4-MW-05I	9/13/2023	N	EM13	UMCf	76.6 - 86.6	<0.960	<0.126	<0.111	0.560 J	0.225 J	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-05I	10/18/2023	N	EM14	UMCf	76.6 - 86.6	<48.0	<6.30	<5.55	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9
U4-MW-05I	11/15/2023	N	EM15	UMCf	76.6 - 86.6	<48.0	<6.30	<5.55	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9
U4-MW-05I	12/12/2023	N	EM16	UMCf	76.6 - 86.6	<0.960	<0.126	<0.111	0.789 J	<0.122	<0.374	<0.105	18.1	<0.137	<0.337

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Diisopropyl Ether (DIPE)	Ethyl Tert-Butyl Ether (ETBE)	Ethylbenzene	Hexachlorobutadiene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-05I	1/26/2024	N	EM17	UMCf	76.6 - 86.6	<0.960	<0.126	<0.111	0.881 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-05I	2/14/2024	N	EM18	UMCf	76.6 - 86.6	<0.960	<0.126	<0.111	0.724	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-05I	3/11/2024	N	EM19	UMCf	76.6 - 86.6	<0.960	<0.126	<0.111	0.950 J	0.253 J	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-05I	6/18/2024	N	EM20	UMCf	76.6 - 86.6	<0.960	<0.126	<0.111	0.734 J	0.260 J	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-05I	9/25/2024	N	EM21	UMCf	76.6 - 86.6	<96.0	<12.6	<11.1	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7
U4-MW-06D	4/19/2022	N	BL02	UMCf	97.1 - 107.1	<0.960	<0.126	<0.111	3.82	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-06D	2/15/2023	N	EM06	UMCf	97.1 - 107.1	<48.0	<6.30	<5.55	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9
U4-MW-06D	3/21/2023	N	EM07	UMCf	97.1 - 107.1	<0.960	<0.126	<0.111	2.77	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-06D	6/16/2023	N	EM10	UMCf	97.1 - 107.1	<0.960	<0.126	<0.111	2.12	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-06D	9/13/2023	N	EM13	UMCf	97.1 - 107.1	<0.960	<0.126	<0.111	1.32	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-06D	12/13/2023	N	EM16	UMCf	97.1 - 107.1	<0.960	<0.126	<0.111	1.61	<0.122	<0.374	<0.105	10.3	<0.137	<0.337
U4-MW-06D	3/14/2024	N	EM19	UMCf	97.1 - 107.1	<48.0	<6.30	<5.55	<7.00	<6.10	<18.7	<5.25	32.3 J	<6.85	<16.9
U4-MW-06D	6/12/2024	N	EM20	UMCf	97.1 - 107.1	<0.960	<0.126	<0.111	0.767 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-06D	9/20/2024	N	EM21	UMCf	97.1 - 107.1	<9.60	<1.26	<1.11	<1.40	<1.22	<3.74	<1.05	<1.01	<1.37	<3.37
U4-MW-06I	4/19/2022	N	BL02	UMCf	76.5 - 86.5	<0.960	<0.126	<0.111	0.273 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-06I	3/14/2023	N	EM07	UMCf	76.5 - 86.5	<0.960	<0.126	<0.111	3.44	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-06I	6/16/2023	N	EM10	UMCf	76.5 - 86.5	<0.960	<0.126	<0.111	2.69	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-06I	9/12/2023	N	EM13	UMCf	76.5 - 86.5	<48.0	<6.30	<5.55	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9
U4-MW-06I	12/12/2023	N	EM16	UMCf	76.5 - 86.5	<0.960	<0.126	<0.111	2.54	<0.122	<0.374	<0.105	4.31	<0.137	<0.337
U4-MW-06I	3/14/2024	N	EM19	UMCf	76.5 - 86.5	<96.0	<12.6	<11.1	<14.0	<12.2	<37.4	<10.5	15.8 J	<13.7	<33.7
U4-MW-06I	6/11/2024	N	EM20	UMCf	76.5 - 86.5	<0.960	<0.126	<0.111	1.39	0.169 J	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-06I	9/20/2024	N	EM21	UMCf	76.5 - 86.5	<24.0	<3.15	<2.78	<3.50	<3.05	<9.35	<2.63	<2.53	<3.43	<8.43
U4-MW-07D	4/15/2022	N	BL02	UMCf	96.8 - 106.5	<0.960	<0.126	<0.111	0.410 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-07D	10/12/2022	N	EM02	UMCf	96.8 - 106.5	<0.960	<0.126	<0.111	2.38	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-07D	10/12/2022	FD	EM02	UMCf	96.8 - 106.5	<0.960	<0.126	<0.111	1.83	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-07D	11/3/2022	N	EM03	UMCf	96.8 - 106.5	<0.960	<0.126	<0.111	2.53 J+	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-07D	12/7/2022	N	EM04	UMCf	96.8 - 106.5	<0.960	<0.126	<0.111	2.25	0.240 J	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-07D	1/11/2023	N	EM05	UMCf	96.8 - 106.5	<0.960	<0.126	<0.111	1.21	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-07D	2/14/2023	N	EM06	UMCf	96.8 - 106.5	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-07D	3/16/2023	N	EM07	UMCf	96.8 - 106.5	<0.960	<0.126	<0.111	0.211 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-07D	4/21/2023	N	EM08	UMCf	96.8 - 106.5	<0.960	<0.126	<0.111	0.146 J	0.125 J	<0.374	<0.105	<0.101	<0.137 UJ	<0.337
U4-MW-07D	5/11/2023	N	EM09	UMCf	96.8 - 106.5	<0.960	<0.126	<0.111	<0.140 UJ	<0.122 UJ	<0.374	<0.105	1.69	<0.137	<0.337
U4-MW-07D	6/13/2023	N	EM10	UMCf	96.8 - 106.5	<0.960 UJ	<0.126 UJ	<0.111 UJ	0.295 J	<0.122 UJ	<0.374 UJ	<0.105 UJ	<0.101 UJ	<0.137 UJ	<0.337 UJ
U4-MW-07D	7/17/2023	N	EM11	UMCf	96.8 - 106.5	<0.960	<0.126	<0.111	1.57	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-07D	8/11/2023	N	EM12	UMCf	96.8 - 106.5	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-07D	9/13/2023	N	EM13	UMCf	96.8 - 106.5	<0.960	<0.126	<0.111	0.754 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-07D	10/18/2023	N	EM14	UMCf	96.8 - 106.5	<96.0	<12.6	<11.1	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7
U4-MW-07D	11/16/2023	N	EM15	UMCf	96.8 - 106.5	<96.0	<12.6	<11.1	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7
U4-MW-07D	12/12/2023	N	EM16	UMCf	96.8 - 106.5	<0.960	<0.126	<0.111	0.567 J	<0.122	<0.374	<0.105	22.0	<0.137	<0.337
U4-MW-07D	1/26/2024	N	EM17	UMCf	96.8 - 106.5	<0.960	<0.126	<0.111	0.176 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-07D	2/13/2024	N	EM18	UMCf	96.8 - 106.5	<24.0	<3.15	<2.78	<3.50	<3.05	<9.35	<2.63	<2.53	<3.43	<8.43
U4-MW-07D	3/11/2024	N	EM19	UMCf	96.8 - 106.5	<24.0	<3.15	<2.78	<3.50	<3.05	<9.35	<2.63	317	<3.43	<8.43
U4-MW-07D	6/12/2024	N	EM20	UMCf	96.8 - 106.5	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-07D	9/18/2024	N	EM21	UMCf	96.8 - 106.5	<0.960	<0.126	<0.111	<0.140	0.245 J	<0.374	<0.105	195	<0.137	<0.337
U4-MW-07I	4/15/2022	N	BL02	UMCf	76.8 - 86.8	<0.960	<0.126	<0.111	0.189 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-07I	10/12/2022	N	EM02	UMCf	76.8 - 86.8	<0.960	<0.126	<0.111	3.22	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-07I	11/3/2022	N	EM03	UMCf	76.8 - 86.8	<0.960	<0.126	<0.111	2.52 J+	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Diisopropyl Ether (DIPE)	Ethyl Tert-Butyl Ether (ETBE)	Ethylbenzene	Hexachlorobutadiene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-07I	12/7/2022	N	EM04	UMCf	76.8 - 86.8	<0.960	<0.126	<0.111	2.47	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-07I	1/11/2023	N	EM05	UMCf	76.8 - 86.8	<4.80	<0.126	<0.111	1.11	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-07I	2/15/2023	N	EM06	UMCf	76.8 - 86.8	<0.960	<0.126	<0.111	0.700 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-07I	3/16/2023	N	EM07	UMCf	76.8 - 86.8	<4.80	<0.630	<0.555	<0.700	<0.610	<1.87	<0.525	<0.505	<0.685	<1.69
U4-MW-07I	4/21/2023	N	EM08	UMCf	76.8 - 86.8	<0.960	<0.126	<0.111	0.559 J	<0.122	<0.374	<0.105	<0.101	<0.137 UJ	<0.337
U4-MW-07I	5/11/2023	N	EM09	UMCf	76.8 - 86.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	7.26	<0.137	<0.337
U4-MW-07I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<4.80	<0.630	<0.555	<0.700	<0.610	<1.87	<0.525	<0.505	<0.685	<1.69
U4-MW-07I	7/17/2023	N	EM11	UMCf	76.8 - 86.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-07I	8/11/2023	N	EM12	UMCf	76.8 - 86.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-07I	9/13/2023	N	EM13	UMCf	76.8 - 86.8	<0.960	<0.126	<0.111	0.511 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-07I	10/18/2023	N	EM14	UMCf	76.8 - 86.8	<48.0	<6.30	<5.55	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9
U4-MW-07I	11/16/2023	N	EM15	UMCf	76.8 - 86.8	<48.0	<6.30	<5.55	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9
U4-MW-07I	12/11/2023	N	EM16	UMCf	76.8 - 86.8	<0.960	<0.126	<0.111	0.760 J	<0.122	<0.374	<0.105	7.52	<0.137	<0.337
U4-MW-07I	1/26/2024	N	EM17	UMCf	76.8 - 86.8	<0.960	<0.126	<0.111	0.290 J	0.270 J	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-07I	2/13/2024	N	EM18	UMCf	76.8 - 86.8	<48.0	<6.30	<5.55	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9
U4-MW-07I	3/11/2024	N	EM19	UMCf	76.8 - 86.8	<48.0	<6.30	<5.55	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9
U4-MW-07I	6/12/2024	N	EM20	UMCf	76.8 - 86.8	<0.960	<0.126	<0.111	0.191 J	0.346 J	<0.374	<0.105	<0.101	0.181 J	<0.337
U4-MW-07I	9/18/2024	N	EM21	UMCf	76.8 - 86.8	<0.960	<0.126	<0.111	<0.140	0.201 J	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-08D	4/13/2022	N	BL02	UMCf	98.6 - 108.6	<0.960	<0.126	<0.111	0.370 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-08D	12/7/2022	N	EM04	UMCf	98.6 - 108.6	<0.960	<0.126	<0.111	1.82	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-08D	3/17/2023	N	EM07	UMCf	98.6 - 108.6	<96.0	<12.6	<11.1	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7
U4-MW-08D	6/13/2023	N	EM10	UMCf	98.6 - 108.6	<0.960	<0.126	<0.111	0.778 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-08D	9/13/2023	N	EM13	UMCf	98.6 - 108.6	<0.960	<0.126	<0.111	1.83	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-08D	12/11/2023	N	EM16	UMCf	98.6 - 108.6	<0.960	<0.126	<0.111	1.27	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-08D	3/12/2024	N	EM19	UMCf	98.6 - 108.6	<192	<25.2	<22.2	<28.0	<24.4	<74.8	<21.0	<20.2	<27.4	<67.4
U4-MW-08D	6/14/2024	N	EM20	UMCf	98.6 - 108.6	<192	<25.2	<22.2	<28.0	<24.4 UJ	<74.8	<21.0	<20.2	<27.4	<67.4
U4-MW-08D	9/23/2024	N	EM21	UMCf	98.6 - 108.6	<0.960	<0.126	<0.111	0.577 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-08DD	4/20/2022	N	BL02	UMCf	119.8 - 129.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-08DD	4/20/2022	FD	BL02	UMCf	119.8 - 129.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-08DD	12/8/2022	N	EM04	UMCf	119.8 - 129.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-08DD	3/15/2023	N	EM07	UMCf	119.8 - 129.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-08DD	6/14/2023	N	EM10	UMCf	119.8 - 129.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-08DD	9/14/2023	N	EM13	UMCf	119.8 - 129.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-08DD	12/14/2023	N	EM16	UMCf	119.8 - 129.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	17.5	<0.137	<0.337
U4-MW-08DD	3/14/2024	N	EM19	UMCf	119.8 - 129.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-08DD	6/12/2024	N	EM20	UMCf	119.8 - 129.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-08DD	9/20/2024	N	EM21	UMCf	119.8 - 129.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-08I	4/13/2022	N	BL02	UMCf	78.0 - 88.0	<0.960	<0.126	<0.111	1.76	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-08I	12/7/2022	N	EM04	UMCf	78.0 - 88.0	<0.960	<0.126	<0.111	1.02	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-08I	12/7/2022	FD	EM04	UMCf	78.0 - 88.0	<0.960	<0.126	<0.111	1.05	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-08I	3/17/2023	N	EM07	UMCf	78.0 - 88.0	<48.0	<6.30	<5.55	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9
U4-MW-08I	6/13/2023	N	EM10	UMCf	78.0 - 88.0	<0.960	<0.126	<0.111	0.497 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-08I	9/13/2023	N	EM13	UMCf	78.0 - 88.0	<0.960	<0.126	<0.111	1.34	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-08I	12/11/2023	N	EM16	UMCf	78.0 - 88.0	<0.960	<0.126	<0.111	1.38	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-08I	3/12/2024	N	EM19	UMCf	78.0 - 88.0	<96.0	<12.6	<11.1	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7
U4-MW-08I	6/14/2024	N	EM20	UMCf	78.0 - 88.0	<96.0	<12.6	<11.1	<14.0	<12.2 UJ	<37.4	<10.5	<10.1	<13.7	<33.7
U4-MW-08I	9/23/2024	N	EM21	UMCf	78.0 - 88.0	<0.960	<0.126	<0.111	0.488 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Diisopropyl Ether (DIPE)	Ethyl Tert-Butyl Ether (ETBE)	Ethylbenzene	Hexachlorobutadiene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-08S	4/15/2022	N	BL02	UMCf	54.9 - 64.9	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-08S	12/7/2022	N	EM04	UMCf	54.9 - 64.9	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-08S	12/7/2022	FD	EM04	UMCf	54.9 - 64.9	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-08S	3/13/2023	N	EM07	UMCf	54.9 - 64.9	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-08S	3/13/2023	FD	EM07	UMCf	54.9 - 64.9	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-08S	6/13/2023	N	EM10	UMCf	54.9 - 64.9	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-08S	6/13/2023	FD	EM10	UMCf	54.9 - 64.9	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-08S	9/13/2023	N	EM13	UMCf	54.9 - 64.9	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-08S	9/13/2023	FD	EM13	UMCf	54.9 - 64.9	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-08S	12/14/2023	N	EM16	UMCf	54.9 - 64.9	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	37.7	<0.137	<0.337
U4-MW-08S	12/14/2023	FD	EM16	UMCf	54.9 - 64.9	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	40.3	<0.137	<0.337
U4-MW-08S	3/14/2024	N	EM19	UMCf	54.9 - 64.9	<1.92 UJ	<0.252 UJ	<0.222 UJ	<0.280 UJ	<0.244 UJ	<0.748 UJ	<0.210 UJ	<0.202 UJ	<0.274 UJ	<0.674 UJ
U4-MW-08S	3/14/2024	FD	EM19	UMCf	54.9 - 64.9	<1.92 UJ	<0.252 UJ	<0.222 UJ	<0.280 UJ	<0.244 UJ	<0.748 UJ	<0.210 UJ	<0.202 UJ	<0.274 UJ	<0.674 UJ
U4-MW-08S	3/25/2024	N	EM19	UMCf	54.9 - 64.9	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137 UJ	<0.337
U4-MW-08S	3/25/2024	FD	EM19	UMCf	54.9 - 64.9	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137 UJ	<0.337
U4-MW-08S	6/14/2024	N	EM20	UMCf	54.9 - 64.9	<0.960	<0.126	<0.111	<0.140	<0.122 UJ	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-08S	6/14/2024	FD	EM20	UMCf	54.9 - 64.9	<0.960	<0.126	<0.111	<0.140	<0.122 UJ	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-08S	9/20/2024	N	EM21	UMCf	54.9 - 64.9	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-08S	9/20/2024	FD	EM21	UMCf	54.9 - 64.9	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-09D	4/14/2022	N	BL02	UMCf	96.9 - 106.9	<0.960	<0.126	<0.111	0.814 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-09D	12/6/2022	N	EM04	UMCf	96.9 - 106.9	<9.60 UJ	<1.26 UJ	<1.11 UJ	2.99 J	<1.22 UJ	<3.74 UJ	<1.05 UJ	<1.01 UJ	<1.37 UJ	<3.37 UJ
U4-MW-09D	3/16/2023	N	EM07	UMCf	96.9 - 106.9	<9.60	<1.26	<1.11	<1.40	<1.22	<3.74	<1.05	<1.01	<1.37	<3.37
U4-MW-09D	6/14/2023	N	EM10	UMCf	96.9 - 106.9	<0.960	<0.126	<0.111	0.158 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-09D	9/12/2023	N	EM13	UMCf	96.9 - 106.9	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-09D	12/15/2023	N	EM16	UMCf	96.9 - 106.9	<24.0 UJ	<3.15 UJ	<2.78 UJ	<3.50 UJ	<3.05 UJ	<9.35 UJ	<2.63 UJ	<2.53 UJ	4.83 J	<8.43 UJ
U4-MW-09D	3/13/2024	N	EM19	UMCf	96.9 - 106.9	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	0.373 J	<0.137	<0.337
U4-MW-09D	6/13/2024	N	EM20	UMCf	96.9 - 106.9	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	0.142 J	<0.337
U4-MW-09D	9/19/2024	N	EM21	UMCf	96.9 - 106.9	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-09DD	4/14/2022	N	BL02	UMCf	119.8 - 129.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-09DD	12/6/2022	N	EM04	UMCf	119.8 - 129.8	<0.960 UJ	<0.126 UJ	<0.111 UJ	<0.140 UJ	<0.122 UJ	<0.374 UJ	<0.105 UJ	<0.101 UJ	<0.137 UJ	<0.337 UJ
U4-MW-09DD	3/21/2023	N	EM07	UMCf	119.8 - 129.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-09DD	6/15/2023	N	EM10	UMCf	119.8 - 129.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-09DD	9/13/2023	N	EM13	UMCf	119.8 - 129.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-09DD	12/13/2023	N	EM16	UMCf	119.8 - 129.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-09DD	3/14/2024	N	EM19	UMCf	119.8 - 129.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-09DD	6/13/2024	N	EM20	UMCf	119.8 - 129.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-09DD	9/20/2024	N	EM21	UMCf	119.8 - 129.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-09I	4/14/2022	N	BL02	UMCf	76.8 - 86.8	<0.960	<0.126	<0.111	0.509 J	<0.122	<0.374	<0.105	<0.101	0.232 J	<0.337
U4-MW-09I	12/6/2022	N	EM04	UMCf	76.8 - 86.8	<9.60 UJ	<1.26 UJ	<1.11 UJ	2.89 J	<1.22 UJ	<3.74 UJ	<1.05 UJ	<1.01 UJ	<1.37 UJ	<3.37 UJ
U4-MW-09I	3/16/2023	N	EM07	UMCf	76.8 - 86.8	<9.60	<1.26	<1.11	<1.40	<1.22	<3.74	<1.05	<1.01	<1.37	<3.37
U4-MW-09I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<0.960	<0.126	<0.111	0.270 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-09I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-09I	12/15/2023	N	EM16	UMCf	76.8 - 86.8	<24.0 UJ	<3.15 UJ	<2.78 UJ	<3.50 UJ	<3.05 UJ	<9.35 UJ	<2.63 UJ	<2.53 UJ	<3.43 UJ	<8.43 UJ
U4-MW-09I	3/13/2024	N	EM19	UMCf	76.8 - 86.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-09I	6/13/2024	N	EM20	UMCf	76.8 - 86.8	<0.960	<0.126	<0.111	0.317 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-09I	9/19/2024	N	EM21	UMCf	76.8 - 86.8	<0.960	<0.126	<0.111	0.310 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-09S	4/14/2022	N	BL02	UMCf	55.3 - 65.3	<0.960	<0.126	<0.111	0.374 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Diisopropyl Ether (DIPE)	Ethyl Tert-Butyl Ether (ETBE)	Ethylbenzene	Hexachlorobutadiene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-09S	12/6/2022	N	EM04	UMCf	55.3 - 65.3	<0.960 UJ	<0.126 UJ	<0.111 UJ	0.224 J	<0.122 UJ	<0.374 UJ	<0.105 UJ	<0.101 UJ	<0.137 UJ	<0.337 UJ
U4-MW-09S	3/17/2023	N	EM07	UMCf	55.3 - 65.3	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-09S	6/15/2023	N	EM10	UMCf	55.3 - 65.3	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-09S	9/13/2023	N	EM13	UMCf	55.3 - 65.3	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-09S	12/12/2023	N	EM16	UMCf	55.3 - 65.3	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	77.0	<0.137	<0.337
U4-MW-09S	3/13/2024	N	EM19	UMCf	55.3 - 65.3	<0.960	0.136 J	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	0.241 J	<0.337
U4-MW-09S	6/13/2024	N	EM20	UMCf	55.3 - 65.3	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-09S	9/19/2024	N	EM21	UMCf	55.3 - 65.3	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-10D	4/14/2022	N	BL02	UMCf	96.9 - 106.9	<0.960	<0.126	<0.111	0.400 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-10D	12/5/2022	N	EM04	UMCf	96.9 - 106.9	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-10D	3/17/2023	N	EM07	UMCf	96.9 - 106.9	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	1.61	<0.137	<0.337
U4-MW-10D	6/14/2023	N	EM10	UMCf	96.9 - 106.9	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-10D	9/13/2023	N	EM13	UMCf	96.9 - 106.9	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-10D	12/14/2023	N	EM16	UMCf	96.9 - 106.9	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-10D	3/14/2024	N	EM19	UMCf	96.9 - 106.9	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-10D	6/11/2024	N	EM20	UMCf	96.9 - 106.9	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-10D	9/26/2024	N	EM21	UMCf	96.9 - 106.9	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-10I	4/14/2022	N	BL02	UMCf	77.1 - 87.1	<0.960	<0.126	<0.111	0.460 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-10I	12/5/2022	N	EM04	UMCf	77.1 - 87.1	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-10I	3/17/2023	N	EM07	UMCf	77.1 - 87.1	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-10I	6/14/2023	N	EM10	UMCf	77.1 - 87.1	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-10I	9/13/2023	N	EM13	UMCf	77.1 - 87.1	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-10I	12/14/2023	N	EM16	UMCf	77.1 - 87.1	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-10I	3/13/2024	N	EM19	UMCf	77.1 - 87.1	<0.960	0.145 J	<0.111	0.195 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-10I	6/11/2024	N	EM20	UMCf	77.1 - 87.1	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-10I	9/25/2024	N	EM21	UMCf	77.1 - 87.1	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-11D	4/15/2022	N	BL02	UMCf	97.4 - 107.4	<0.960	<0.126	<0.111	0.584 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-11D	9/26/2022	N	EM01	UMCf	97.4 - 107.4	<48.0	<6.30	<5.55	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9
U4-MW-11D	10/11/2022	N	EM02	UMCf	97.4 - 107.4	<9.60	<1.26	<1.11	<1.40	<1.22	<3.74	<1.05	<1.01	<1.37	<3.37
U4-MW-11D	11/1/2022	N	EM03	UMCf	97.4 - 107.4	<48.0	<6.30	<5.55	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9
U4-MW-11D	12/6/2022	N	EM04	UMCf	97.4 - 107.4	<24.0 UJ	<3.15 UJ	<2.78 UJ	<3.50 UJ	<3.05 UJ	<9.35 UJ	<2.63 UJ	<2.53 UJ	<3.43 UJ	<8.43 UJ
U4-MW-11D	1/12/2023	N	EM05	UMCf	97.4 - 107.4	<192	<25.2	<22.2	<28.0	<24.4	<74.8	<21.0	<20.2	<27.4	<67.4
U4-MW-11D	2/14/2023	N	EM06	UMCf	97.4 - 107.4	<192	<25.2	<22.2	<28.0	<24.4	<74.8	<21.0	<20.2	<27.4	<67.4
U4-MW-11D	3/16/2023	N	EM07	UMCf	97.4 - 107.4	<192	<25.2	<22.2	<28.0	<24.4	<74.8	<21.0	<20.2	<27.4	<67.4
U4-MW-11D	4/18/2023	N	EM08	UMCf	97.4 - 107.4	<4.80	<0.630	<0.555	<0.700	<0.610	<1.87	<0.525	<0.505	<0.685	<1.69
U4-MW-11D	5/17/2023	N	EM09	UMCf	97.4 - 107.4	<19.2 UJ	<2.52 UJ	<2.22 UJ	<2.80 UJ	<2.44 UJ	<7.48 UJ	<2.10 UJ	<2.02 UJ	<2.74 UJ	<6.74 UJ
U4-MW-11D	6/16/2023	N	EM10	UMCf	97.4 - 107.4	<0.960	<0.126	<0.111	0.685 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-11D	7/14/2023	N	EM11	UMCf	97.4 - 107.4	<0.960	<0.126	<0.111	0.558 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-11D	8/14/2023	N	EM12	UMCf	97.4 - 107.4	<192	<25.2	<22.2	<28.0	<24.4	<74.8	<21.0	<20.2	78.8 J	<67.4
U4-MW-11D	9/13/2023	N	EM13	UMCf	97.4 - 107.4	<0.960	<0.126	<0.111	0.523 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-11D	10/18/2023	N	EM14	UMCf	97.4 - 107.4	<192	<25.2	<22.2	<28.0	<24.4	<74.8	<21.0	<20.2	<27.4	<67.4
U4-MW-11D	11/16/2023	N	EM15	UMCf	97.4 - 107.4	<48.0	<6.30	<5.55	<7.00	<6.10	<18.7	<5.25	10.4 J	<6.85	<16.9
U4-MW-11D	12/13/2023	N	EM16	UMCf	97.4 - 107.4	<0.960	<0.126	<0.111	0.372 J	<0.122	<0.374	<0.105	15.7	<0.137	<0.337
U4-MW-11D	1/25/2024	N	EM17	UMCf	97.4 - 107.4	<0.960	<0.126	<0.111	0.323 J	<0.122	<0.374	<0.105	14.3	<0.137	<0.337
U4-MW-11D	2/14/2024	N	EM18	UMCf	97.4 - 107.4	<0.960	<0.126	<0.111	0.149 J	<0.122	<0.374	<0.105	11.1	<0.137	<0.337
U4-MW-11D	3/12/2024	N	EM19	UMCf	97.4 - 107.4	<96.0	<12.6	<11.1	<14.0	<12.2	<37.4	<10.5	13.2 J	<13.7	<33.7
U4-MW-11D	6/12/2024	N	EM20	UMCf	97.4 - 107.4	<0.960	<0.126	<0.111	0.273 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Diisopropyl Ether (DIPE)	Ethyl Tert-Butyl Ether (ETBE)	Ethylbenzene	Hexachlorobutadiene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-11D	9/23/2024	N	EM21	UMCf	97.4 - 107.4	<0.960	<0.126	<0.111	0.485 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-11I	4/14/2022	N	BL02	UMCf	77.0 - 87.0	<0.960	<0.126	<0.111	0.462 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-11I	9/26/2022	N	EM01	UMCf	77.0 - 87.0	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	4.90	<0.137	<0.337
U4-MW-11I	9/26/2022	FD	EM01	UMCf	77.0 - 87.0	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	5.43	<0.137	<0.337
U4-MW-11I	10/10/2022	N	EM02	UMCf	77.0 - 87.0	<9.60	<1.26	<1.11	<1.40	<1.22	<3.74	<1.05	<1.01	<1.37	<3.37
U4-MW-11I	10/10/2022	FD	EM02	UMCf	77.0 - 87.0	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	3.02	<0.137	<0.337
U4-MW-11I	10/31/2022	N	EM03	UMCf	77.0 - 87.0	<4.80	<0.630	<0.555	<0.700	<0.610	<1.87	<0.525	<0.505	<0.685	<1.69
U4-MW-11I	10/31/2022	FD	EM03	UMCf	77.0 - 87.0	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-11I	12/6/2022	N	EM04	UMCf	77.0 - 87.0	<0.960 UJ	<0.126 UJ	<0.111 UJ	<0.140 UJ	<0.122 UJ	<0.374 UJ	<0.105 UJ	<0.101 UJ	<0.137 UJ	<0.337 UJ
U4-MW-11I	12/6/2022	FD	EM04	UMCf	77.0 - 87.0	<0.960 UJ	<0.126 UJ	<0.111 UJ	<0.140 UJ	<0.122 UJ	<0.374 UJ	<0.105 UJ	<0.101 UJ	<0.137 UJ	<0.337 UJ
U4-MW-11I	1/12/2023	N	EM05	UMCf	77.0 - 87.0	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-11I	1/12/2023	FD	EM05	UMCf	77.0 - 87.0	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-11I	2/14/2023	N	EM06	UMCf	77.0 - 87.0	<0.960	<0.126	<0.111	0.217 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-11I	2/14/2023	FD	EM06	UMCf	77.0 - 87.0	<0.960	<0.126	<0.111	0.214 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-11I	3/16/2023	N	EM07	UMCf	77.0 - 87.0	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-11I	3/16/2023	FD	EM07	UMCf	77.0 - 87.0	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-11I	4/18/2023	N	EM08	UMCf	77.0 - 87.0	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-11I	4/18/2023	FD	EM08	UMCf	77.0 - 87.0	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-11I	5/19/2023	N	EM09	UMCf	77.0 - 87.0	<0.960 UJ	<0.126 UJ	<0.111 UJ	<0.140 UJ	<0.122 UJ	<0.374 UJ	<0.105 UJ	<0.101 UJ	<0.137 UJ	<0.337 UJ
U4-MW-11I	5/19/2023	FD	EM09	UMCf	77.0 - 87.0	<0.960 UJ	<0.126 UJ	<0.111 UJ	<0.140 UJ	<0.122 UJ	<0.374 UJ	<0.105 UJ	<0.101 UJ	<0.137 UJ	<0.337 UJ
U4-MW-11I	6/15/2023	N	EM10	UMCf	77.0 - 87.0	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-11I	6/15/2023	FD	EM10	UMCf	77.0 - 87.0	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-11I	7/13/2023	N	EM11	UMCf	77.0 - 87.0	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-11I	7/13/2023	FD	EM11	UMCf	77.0 - 87.0	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-11I	8/14/2023	N	EM12	UMCf	77.0 - 87.0	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-11I	8/14/2023	FD	EM12	UMCf	77.0 - 87.0	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-11I	9/13/2023	N	EM13	UMCf	77.0 - 87.0	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-11I	9/13/2023	FD	EM13	UMCf	77.0 - 87.0	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-11I	10/19/2023	N	EM14	UMCf	77.0 - 87.0	<0.960	<0.126	<0.111	0.345 J	<0.122	<18.7	<0.105	<0.101	<0.137	<0.337
U4-MW-11I	10/19/2023	FD	EM14	UMCf	77.0 - 87.0	<0.960	<0.126	<0.111	0.385 J	<0.122	<18.7	<0.105	<0.101	<0.137	<0.337
U4-MW-11I	11/16/2023	N	EM15	UMCf	77.0 - 87.0	<48.0	<6.30	<5.55	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9
U4-MW-11I	11/16/2023	FD	EM15	UMCf	77.0 - 87.0	<48.0	<6.30	<5.55	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9
U4-MW-11I	12/13/2023	N	EM16	UMCf	77.0 - 87.0	<0.960	<0.126	<0.111	0.144 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-11I	12/13/2023	FD	EM16	UMCf	77.0 - 87.0	<0.960	<0.126	<0.111	0.157 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-11I	1/25/2024	N	EM17	UMCf	77.0 - 87.0	<0.960	<0.126	<0.111	0.206 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-11I	1/25/2024	FD	EM17	UMCf	77.0 - 87.0	<0.960	<0.126	<0.111	0.153 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-11I	2/14/2024	N	EM18	UMCf	77.0 - 87.0	<48.0	<6.30	<5.55	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9
U4-MW-11I	2/14/2024	FD	EM18	UMCf	77.0 - 87.0	<48.0	<6.30	<5.55	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9
U4-MW-11I	3/13/2024	N	EM19	UMCf	77.0 - 87.0	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-11I	3/13/2024	FD	EM19	UMCf	77.0 - 87.0	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-11I	6/12/2024	N	EM20	UMCf	77.0 - 87.0	<0.960	<0.126	<0.111	0.180 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-11I	6/12/2024	FD	EM20	UMCf	77.0 - 87.0	<0.960	<0.126	<0.111	0.174 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-11I	9/23/2024	N	EM21	UMCf	77.0 - 87.0	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-11I	9/23/2024	FD	EM21	UMCf	77.0 - 87.0	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-12D	4/15/2022	N	BL02	UMCf	97.1 - 107.1	<0.960	<0.126	<0.111	0.664 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-12D	9/27/2022	N	EM01	UMCf	97.1 - 107.1	<19.2	<2.52	<2.22	<2.80	<2.44	<7.48	<2.10	<2.02	<2.74	<6.74
U4-MW-12D	10/12/2022	N	EM02	UMCf	97.1 - 107.1	<0.960	<0.126	<0.111	0.454 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Diisopropyl Ether (DIPE)	Ethyl Tert-Butyl Ether (ETBE)	Ethylbenzene	Hexachlorobutadiene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-12D	11/2/2022	N	EM03	UMCf	97.1 - 107.1	<9.60	<1.26	<1.11	<1.40	<1.22	<3.74	<1.05	<1.01	<1.37	<3.37
U4-MW-12D	12/7/2022	N	EM04	UMCf	97.1 - 107.1	<0.960	<0.126	<0.111	0.535 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-12D	1/12/2023	N	EM05	UMCf	97.1 - 107.1	<96.0	<12.6	<11.1	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7
U4-MW-12D	2/15/2023	N	EM06	UMCf	97.1 - 107.1	<96.0	<12.6	<11.1	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7
U4-MW-12D	3/14/2023	N	EM07	UMCf	97.1 - 107.1	<48.0	<6.30	<5.55	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9
U4-MW-12D	4/17/2023	N	EM08	UMCf	97.1 - 107.1	<4.80 UJ	<0.630 UJ	<0.555 UJ	<0.700 UJ	<0.610 UJ	<1.87 UJ	<0.525 UJ	<0.505 UJ	<0.685 UJ	<1.69 UJ
U4-MW-12D	5/17/2023	N	EM09	UMCf	97.1 - 107.1	<96.0	<12.6	<11.1	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7
U4-MW-12D	6/16/2023	N	EM10	UMCf	97.1 - 107.1	<0.960	<0.126	<0.111	0.297 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-12D	7/13/2023	N	EM11	UMCf	97.1 - 107.1	<0.960	<0.126	<0.111	0.176 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-12D	8/14/2023	N	EM12	UMCf	97.1 - 107.1	<48.0	22.4 J	<5.55	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9
U4-MW-12D	9/12/2023	N	EM13	UMCf	97.1 - 107.1	<48.0	<6.30	<5.55	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9
U4-MW-12D	10/17/2023	N	EM14	UMCf	97.1 - 107.1	<4.80	<0.630	<0.555	<0.700	<0.610	<1.87	<0.525	<0.505	<0.685	<1.69
U4-MW-12D	11/15/2023	N	EM15	UMCf	97.1 - 107.1	<4.80	<0.630	<0.555	<0.700	<0.610	<1.87	<0.525	<0.505	<0.685	<1.69
U4-MW-12D	12/12/2023	N	EM16	UMCf	97.1 - 107.1	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	25.3	<0.137	<0.337
U4-MW-12D	1/24/2024	N	EM17	UMCf	97.1 - 107.1	1.16 J	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	31.1	<0.137	<0.337
U4-MW-12D	2/13/2024	N	EM18	UMCf	97.1 - 107.1	<19.2	<2.52	<2.22	<2.80	<2.44	<7.48	<2.10	<2.02	<2.74	<6.74
U4-MW-12D	3/12/2024	N	EM19	UMCf	97.1 - 107.1	<19.2	<2.52	<2.22	<2.80	<2.44	<7.48	<2.10	11.4 J	<2.74	<6.74
U4-MW-12D	6/12/2024	N	EM20	UMCf	97.1 - 107.1	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-12D	9/24/2024	N	EM21	UMCf	97.1 - 107.1	<0.960	<0.126	<0.111	0.151 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-12I	4/14/2022	N	BL02	UMCf	76.8 - 86.8	<0.960	<0.126	<0.111	0.610 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-12I	4/14/2022	FD	BL02	UMCf	76.8 - 86.8	<0.960	<0.126	<0.111	0.573 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-12I	9/27/2022	N	EM01	UMCf	76.8 - 86.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-12I	10/12/2022	N	EM02	UMCf	76.8 - 86.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-12I	11/2/2022	N	EM03	UMCf	76.8 - 86.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-12I	12/7/2022	N	EM04	UMCf	76.8 - 86.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-12I	12/7/2022	FD	EM04	UMCf	76.8 - 86.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-12I	1/13/2023	N	EM05	UMCf	76.8 - 86.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-12I	2/15/2023	N	EM06	UMCf	76.8 - 86.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-12I	3/13/2023	N	EM07	UMCf	76.8 - 86.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-12I	4/17/2023	N	EM08	UMCf	76.8 - 86.8	<0.960 UJ	<0.126 UJ	<0.111 UJ	<0.140 UJ	<0.122 UJ	<0.374 UJ	<0.105 UJ	<0.101 UJ	<0.137 UJ	<0.337 UJ
U4-MW-12I	5/17/2023	N	EM09	UMCf	76.8 - 86.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-12I	6/16/2023	N	EM10	UMCf	76.8 - 86.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-12I	7/11/2023	N	EM11	UMCf	76.8 - 86.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-12I	8/14/2023	N	EM12	UMCf	76.8 - 86.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-12I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-12I	10/17/2023	N	EM14	UMCf	76.8 - 86.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-12I	11/16/2023	N	EM15	UMCf	76.8 - 86.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-12I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	2.57	<0.137	<0.337
U4-MW-12I	1/24/2024	N	EM17	UMCf	76.8 - 86.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	5.68 J-	<0.137	<0.337
U4-MW-12I	2/13/2024	N	EM18	UMCf	76.8 - 86.8	<19.2	<2.52	<2.22	<2.80	<2.44	<7.48	<2.10	<2.02	<2.74	<6.74
U4-MW-12I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	<19.2	<2.52	<2.22	<2.80	<2.44	<7.48	<2.10	<2.02	<2.74	<6.74
U4-MW-12I	6/13/2024	N	EM20	UMCf	76.8 - 86.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-12I	9/23/2024	N	EM21	UMCf	76.8 - 86.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-13D	4/14/2022	N	BL02	UMCf	98.2 - 108.2	<0.960	<0.126	<0.111	0.639 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-13D	9/28/2022	N	EM01	UMCf	98.2 - 108.2	<9.60	<1.26	<1.11	<1.40	<1.22	<3.74	<1.05	<1.01	<1.37	<3.37
U4-MW-13D	10/11/2022	N	EM02	UMCf	98.2 - 108.2	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-13D	11/3/2022	N	EM03	UMCf	98.2 - 108.2	<0.960	<0.126	<0.111	0.551 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Diisopropyl Ether (DIPE)	Ethyl Tert-Butyl Ether (ETBE)	Ethylbenzene	Hexachlorobutadiene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-13D	12/7/2022	N	EM04	UMCf	98.2 - 108.2	<0.960	<0.126	<0.111	1.04	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-13D	1/12/2023	N	EM05	UMCf	98.2 - 108.2	<19.2	<2.52	<2.22	<2.80	<2.44	<7.48	<2.10	<2.02	<2.74	<6.74
U4-MW-13D	2/15/2023	N	EM06	UMCf	98.2 - 108.2	<0.960	<0.126	<0.111	1.12	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-13D	3/17/2023	N	EM07	UMCf	98.2 - 108.2	<19.2	<2.52	<2.22	<2.80	<2.44	<7.48	<2.10	<2.02	<2.74	<6.74
U4-MW-13D	4/18/2023	N	EM08	UMCf	98.2 - 108.2	<0.960	<0.126	<0.111	0.572 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-13D	5/17/2023	N	EM09	UMCf	98.2 - 108.2	<19.2	<2.52	<2.22	<2.80	<2.44	<7.48	<2.10	<2.02	<2.74	<6.74
U4-MW-13D	6/15/2023	N	EM10	UMCf	98.2 - 108.2	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-13D	7/12/2023	N	EM11	UMCf	98.2 - 108.2	<0.960	<0.126	<0.111	0.304 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-13D	8/11/2023	N	EM12	UMCf	98.2 - 108.2	<0.960	<0.126	<0.111	0.430 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-13D	9/11/2023	N	EM13	UMCf	98.2 - 108.2	<24.0	<3.15	<2.78	<3.50	<3.05	<9.35	<2.63	<2.53	<3.43	<8.43
U4-MW-13D	10/18/2023	N	EM14	UMCf	98.2 - 108.2	<24.0	<3.15	<2.78	<3.50	<3.05	<9.35	<2.63	<2.53	<3.43	<8.43
U4-MW-13D	11/15/2023	N	EM15	UMCf	98.2 - 108.2	<24.0	<3.15	<2.78	<3.50	<3.05	<9.35	<2.63	<2.53	<3.43	<8.43
U4-MW-13D	12/11/2023	N	EM16	UMCf	98.2 - 108.2	<0.960	<0.126	<0.111	0.504 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-13D	1/23/2024	N	EM17	UMCf	98.2 - 108.2	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-13D	2/12/2024	N	EM18	UMCf	98.2 - 108.2	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-13D	3/11/2024	N	EM19	UMCf	98.2 - 108.2	<0.960	<0.126	<0.111	0.302 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-13D	6/13/2024	N	EM20	UMCf	98.2 - 108.2	<0.960	<0.126	<0.111	0.168 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-13D	9/20/2024	N	EM21	UMCf	98.2 - 108.2	<48.0	<6.30	<5.55	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9
U4-MW-13I	4/14/2022	N	BL02	UMCf	77.1 - 87.1	<0.960	<0.126	<0.111	0.618 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-13I	9/28/2022	N	EM01	UMCf	77.1 - 87.1	<0.960	<0.126	<0.111	0.164 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-13I	10/10/2022	N	EM02	UMCf	77.1 - 87.1	<0.960	0.394 J	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-13I	11/3/2022	N	EM03	UMCf	77.1 - 87.1	<0.960	<0.126	<0.111	0.159 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-13I	12/6/2022	N	EM04	UMCf	77.1 - 87.1	<4.80 UJ	<0.630 UJ	<0.555 UJ	<0.700 UJ	<0.610 UJ	<1.87 UJ	<0.525 UJ	<0.505 UJ	<0.685 UJ	<1.69 UJ
U4-MW-13I	1/12/2023	N	EM05	UMCf	77.1 - 87.1	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-13I	2/14/2023	N	EM06	UMCf	77.1 - 87.1	<4.80	<0.630	<0.555	<0.700	<0.610	<1.87	<0.525	<0.505	<0.685	<1.69
U4-MW-13I	3/16/2023	N	EM07	UMCf	77.1 - 87.1	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-13I	4/19/2023	N	EM08	UMCf	77.1 - 87.1	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-13I	5/17/2023	N	EM09	UMCf	77.1 - 87.1	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-13I	6/15/2023	N	EM10	UMCf	77.1 - 87.1	<0.960	<0.126	<0.111	<0.140	<0.122 UJ	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-13I	7/12/2023	N	EM11	UMCf	77.1 - 87.1	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-13I	8/11/2023	N	EM12	UMCf	77.1 - 87.1	<0.960	<0.126	<0.111	0.361 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-13I	9/11/2023	N	EM13	UMCf	77.1 - 87.1	<24.0	<3.15	<2.78	<3.50	<3.05	<9.35	<2.63	<2.53	<3.43	<8.43
U4-MW-13I	10/17/2023	N	EM14	UMCf	77.1 - 87.1	<0.960	<0.126	<0.111	0.488 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-13I	11/15/2023	N	EM15	UMCf	77.1 - 87.1	<0.960	<0.126	<0.111	0.433 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-13I	12/11/2023	N	EM16	UMCf	77.1 - 87.1	<0.960	<0.126	<0.111	0.535 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-13I	1/23/2024	N	EM17	UMCf	77.1 - 87.1	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-13I	2/12/2024	N	EM18	UMCf	77.1 - 87.1	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-13I	3/11/2024	N	EM19	UMCf	77.1 - 87.1	<0.960	<0.126	<0.111	0.353 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-13I	6/13/2024	N	EM20	UMCf	77.1 - 87.1	<0.960	<0.126	<0.111	0.239 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-13I	9/20/2024	N	EM21	UMCf	77.1 - 87.1	<48.0	<6.30	<5.55	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9
U4-MW-14D	4/13/2022	N	BL02	UMCf	97.3 - 107.3	<0.960	<0.126	<0.111	0.561 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-14D	12/6/2022	N	EM04	UMCf	97.3 - 107.3	<4.80 UJ	<0.630 UJ	<0.555 UJ	0.751 J	<0.610 UJ	<1.87 UJ	<0.525 UJ	<0.505 UJ	<0.685 UJ	<1.69 UJ
U4-MW-14D	3/16/2023	N	EM07	UMCf	97.3 - 107.3	<4.80	<0.630	<0.555	<0.700	<0.610	<1.87	<0.525	<0.505	<0.685	<1.69
U4-MW-14D	6/15/2023	N	EM10	UMCf	97.3 - 107.3	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-14D	9/14/2023	N	EM13	UMCf	97.3 - 107.3	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-14D	12/15/2023	N	EM16	UMCf	97.3 - 107.3	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-14D	3/13/2024	N	EM19	UMCf	97.3 - 107.3	<0.960	0.203 J	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Diisopropyl Ether (DIPE)	Ethyl Tert-Butyl Ether (ETBE)	Ethylbenzene	Hexachlorobutadiene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-14D	6/13/2024	N	EM20	UMCf	97.3 - 107.3	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-14D	9/19/2024	N	EM21	UMCf	97.3 - 107.3	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-14I	4/14/2022	N	BL02	UMCf	77.3 - 87.3	<0.960	<0.126	<0.111	0.471 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-14I	12/6/2022	N	EM04	UMCf	77.3 - 87.3	<4.80 UJ	<0.630 UJ	<0.555 UJ	<0.700 UJ	<0.610 UJ	<1.87 UJ	<0.525 UJ	<0.505 UJ	<0.685 UJ	<1.69 UJ
U4-MW-14I	3/16/2023	N	EM07	UMCf	77.3 - 87.3	<4.80	<0.630	<0.555	<0.700	<0.610	<1.87	<0.525	<0.505	<0.685	<1.69
U4-MW-14I	6/15/2023	N	EM10	UMCf	77.3 - 87.3	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-14I	9/14/2023	N	EM13	UMCf	77.3 - 87.3	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-14I	12/14/2023	N	EM16	UMCf	77.3 - 87.3	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-14I	3/13/2024	N	EM19	UMCf	77.3 - 87.3	<0.960	0.197 J	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-14I	6/14/2024	N	EM20	UMCf	77.3 - 87.3	<0.960	<0.126	<0.111	<0.140	<0.122 UJ	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-14I	9/19/2024	N	EM21	UMCf	77.3 - 87.3	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-15D	4/13/2022	N	BL02	UMCf	96.0 - 106.0	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-15D	12/5/2022	N	EM04	UMCf	96.0 - 106.0	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-15D	3/20/2023	N	EM07	UMCf	96.0 - 106.0	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-15D	6/14/2023	N	EM10	UMCf	96.0 - 106.0	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-15D	9/13/2023	N	EM13	UMCf	96.0 - 106.0	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-15D	12/12/2023	N	EM16	UMCf	96.0 - 106.0	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-15D	3/12/2024	N	EM19	UMCf	96.0 - 106.0	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-15D	6/14/2024	N	EM20	UMCf	96.0 - 106.0	<0.960	<0.126	<0.111	<0.140	<0.122 UJ	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-15D	9/24/2024	N	EM21	UMCf	96.0 - 106.0	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-15DD	4/13/2022	N	BL02	UMCf	120.3 - 130.3	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-15DD	12/5/2022	N	EM04	UMCf	120.3 - 130.3	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-15DD	3/15/2023	N	EM07	UMCf	120.3 - 130.3	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-15DD	6/13/2023	N	EM10	UMCf	120.3 - 130.3	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-15DD	9/14/2023	N	EM13	UMCf	120.3 - 130.3	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-15DD	12/13/2023	N	EM16	UMCf	120.3 - 130.3	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-15DD	3/12/2024	N	EM19	UMCf	120.3 - 130.3	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-15DD	6/14/2024	N	EM20	UMCf	120.3 - 130.3	<0.960	<0.126	<0.111	<0.140	<0.122 UJ	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-15DD	9/24/2024	N	EM21	UMCf	120.3 - 130.3	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-15I	4/12/2022	N	BL02	UMCf	76.8 - 86.8	<0.960	<0.126	<0.111	0.447 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-15I	12/5/2022	N	EM04	UMCf	76.8 - 86.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-15I	3/17/2023	N	EM07	UMCf	76.8 - 86.8	<19.2	<2.52	<2.22	<2.80	<2.44	<7.48	<2.10	<2.02	<2.74	<6.74
U4-MW-15I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-15I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-15I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-15I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	<48.0	<6.30	<5.55	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9
U4-MW-15I	6/17/2024	N	EM20	UMCf	76.8 - 86.8	<48.0	<6.30	<5.55	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9
U4-MW-15I	9/25/2024	N	EM21	UMCf	76.8 - 86.8	<48.0 UJ	<6.30 UJ	<5.55 UJ	<7.00 UJ	<6.10 UJ	<18.7 UJ	<5.25 UJ	<5.05 UJ	<6.85 UJ	<16.9 UJ
U4-MW-15S	4/13/2022	N	BL02	UMCf	54.8 - 64.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-15S	12/5/2022	N	EM04	UMCf	54.8 - 64.8	<24.0	<3.15	<2.78	<3.50	<3.05	<9.35	<2.63	<2.53	<3.43	<8.43
U4-MW-15S	3/13/2023	N	EM07	UMCf	54.8 - 64.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	0.321 J	<0.337
U4-MW-15S	6/13/2023	N	EM10	UMCf	54.8 - 64.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-15S	9/14/2023	N	EM13	UMCf	54.8 - 64.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-15S	12/11/2023	N	EM16	UMCf	54.8 - 64.8	<1.92	<0.252	<0.222	<0.280	<0.244	<0.748	<0.210	<0.202	<0.274	<0.674
U4-MW-15S	3/12/2024	N	EM19	UMCf	54.8 - 64.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-15S	3/26/2024	N	EM19	UMCf	54.8 - 64.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-15S	6/14/2024	N	EM20	UMCf	54.8 - 64.8	<0.960	<0.126	<0.111	<0.140	<0.122 UJ	<0.374	<0.105	<0.101	<0.137	<0.337

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Diisopropyl Ether (DIPE)	Ethyl Tert-Butyl Ether (ETBE)	Ethylbenzene	Hexachlorobutadiene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-15S	9/20/2024	N	EM21	UMCf	54.8 - 64.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-16D	4/11/2022	N	BL02	UMCf	96.8 - 106.8	<0.960	<0.126	<0.111	0.533 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-16D	12/5/2022	N	EM04	UMCf	96.8 - 106.8	<0.960	<0.126	<0.111	0.216 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-16D	3/14/2023	N	EM07	UMCf	96.8 - 106.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-16D	6/13/2023	N	EM10	UMCf	96.8 - 106.8	<0.960	<0.126	<0.111	0.315 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-16D	9/15/2023	N	EM13	UMCf	96.8 - 106.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-16D	12/14/2023	N	EM16	UMCf	96.8 - 106.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-16D	3/14/2024	N	EM19	UMCf	96.8 - 106.8	<48.0	<6.30	<5.55	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9
U4-MW-16D	6/17/2024	N	EM20	UMCf	96.8 - 106.8	<48.0	<6.30	<5.55	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9
U4-MW-16D	9/20/2024	N	EM21	UMCf	96.8 - 106.8	<48.0	<6.30	<5.55	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9
U4-MW-16DD	4/12/2022	N	BL02	UMCf	120.8 - 130.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-16DD	12/5/2022	N	EM04	UMCf	120.8 - 130.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-16DD	3/15/2023	N	EM07	UMCf	120.8 - 130.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-16DD	6/13/2023	N	EM10	UMCf	120.8 - 130.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-16DD	9/14/2023	N	EM13	UMCf	120.8 - 130.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-16DD	12/13/2023	N	EM16	UMCf	120.8 - 130.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-16DD	3/14/2024	N	EM19	UMCf	120.8 - 130.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-16DD	6/17/2024	N	EM20	UMCf	120.8 - 130.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-16DD	9/19/2024	N	EM21	UMCf	120.8 - 130.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-16I	4/11/2022	N	BL02	UMCf	77.0 - 87.0	<0.960	<0.126	<0.111	0.256 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-16I	12/5/2022	N	EM04	UMCf	77.0 - 87.0	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-16I	12/5/2022	FD	EM04	UMCf	77.0 - 87.0	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-16I	3/13/2023	N	EM07	UMCf	77.0 - 87.0	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-16I	3/13/2023	FD	EM07	UMCf	77.0 - 87.0	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-16I	6/12/2023	N	EM10	UMCf	77.0 - 87.0	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-16I	6/12/2023	FD	EM10	UMCf	77.0 - 87.0	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-16I	9/11/2023	N	EM13	UMCf	77.0 - 87.0	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-16I	9/11/2023	FD	EM13	UMCf	77.0 - 87.0	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-16I	12/11/2023	N	EM16	UMCf	77.0 - 87.0	<0.960	<0.126	<0.111	0.384 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-16I	12/11/2023	FD	EM16	UMCf	77.0 - 87.0	<0.960	<0.126	<0.111	0.352 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-16I	3/11/2024	N	EM19	UMCf	77.0 - 87.0	<0.960	<0.126	<0.111	0.289 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-16I	3/11/2024	FD	EM19	UMCf	77.0 - 87.0	<0.960	<0.126	<0.111	0.324 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-16I	6/18/2024	N	EM20	UMCf	77.0 - 87.0	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-16I	6/18/2024	FD	EM20	UMCf	77.0 - 87.0	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-16I	9/19/2024	N	EM21	UMCf	77.0 - 87.0	<0.960	<0.126	<0.111	0.231 J	<0.122	<0.374	<0.105	3.16	<0.137	<0.337
U4-MW-16I	9/19/2024	FD	EM21	UMCf	77.0 - 87.0	<0.960	<0.126	<0.111	0.211 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-16S	4/12/2022	N	BL02	UMCf	54.8 - 64.8	<0.960	<0.126	<0.111	0.363 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-16S	4/12/2022	FD	BL02	UMCf	54.8 - 64.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-16S	12/6/2022	N	EM04	UMCf	54.8 - 64.8	<0.960 UJ	<0.126 UJ	<0.111 UJ	<0.140 UJ	<0.122 UJ	<0.374 UJ	<0.105 UJ	<0.101 UJ	<0.137 UJ	<0.337 UJ
U4-MW-16S	3/15/2023	N	EM07	UMCf	54.8 - 64.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-16S	6/13/2023	N	EM10	UMCf	54.8 - 64.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-16S	9/11/2023	N	EM13	UMCf	54.8 - 64.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-16S	12/11/2023	N	EM16	UMCf	54.8 - 64.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-16S	3/11/2024	N	EM19	UMCf	54.8 - 64.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-16S	6/17/2024	N	EM20	UMCf	54.8 - 64.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-MW-16S	9/20/2024	N	EM21	UMCf	54.8 - 64.8	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-SLMW	11/10/2022	N	EM03	-	-	<4.80	<0.630	<0.555	1.52 J	<0.610	<1.87	<0.525	<0.505	<0.685	<1.69

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Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Diisopropyl Ether (DIPE)	Ethyl Tert-Butyl Ether (ETBE)	Ethylbenzene	Hexachlorobutadiene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-T3	10/13/2022	N	EM02	-	-	<0.960	<0.126	<0.111	2.05	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-T3	11/3/2022	N	EM03	-	-	<0.960	<0.126	<0.111	3.01 J+	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-T3	12/6/2022	N	EM04	-	-	<19.2 UJ	<2.52 UJ	<2.22 UJ	<2.80 UJ	<2.44 UJ	<7.48 UJ	<2.10 UJ	<2.02 UJ	<2.74 UJ	<6.74 UJ
U4-T3	1/9/2023	N	EM05	-	-	<0.960	<0.126	<0.111	2.19	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-T3	2/13/2023	N	EM06	-	-	<96.0	<12.6	<11.1	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7
U4-T3	3/13/2023	N	EM07	-	-	<24.0	<3.15	<2.78	<3.50	<3.05	<9.35	<2.63	<2.53	<3.43	<8.43
U4-T3	4/19/2023	N	EM08	-	-	<0.960	<0.126	<0.111	0.810 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-T3	5/18/2023	N	EM09	-	-	<0.960	<0.126	<0.111	0.668 J	<0.122	<0.374	<0.105	0.962 J	<0.137	<0.337
U4-T3	6/12/2023	N	EM10	-	-	<0.960	<0.126	<0.111	0.682 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-T3	7/11/2023	N	EM11	-	-	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-T3	8/10/2023	N	EM12	-	-	<0.960	<0.126	<0.111	0.598 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337
U4-T3	9/11/2023	N	EM13	-	-	<0.960	<0.126	<0.111	<0.140	<0.122	<0.374	<0.105	13.0	<0.137	<0.337
U4-T3	10/16/2023	N	EM14	-	-	<24.0	<3.15	<2.78	<3.50	<3.05	<9.35	<2.63	3.08 J	<3.43	<8.43

Notes:
FD - Field duplicate
E - Field instrument error.
J - The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J- - The result is an estimated quantity, but the result may be biased low.
J+ - The result is an estimated quantity, but the result may be biased high.
N/A - Not Applicable
mg/L - milligrams per liter
µg/L - micrograms per liter
N - Normal field sample

R - The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

UMCf- Upper Muddy Creek Formation
< - The analyte was analyzed for, but was not detected above the level of the reported
-- Not tested.
U4-E-08D has been abandoned.
M-252 damaged/obstructed when checked on June 14, 2023 and September 14, 2023.
U4-MW-08S and U4-MW-15S were purged and resampled for EM19 on March 25-26, 2024; Original EM19 samples were collected via bailer due to well condition.
Lab was unable to analyze and report TDS for samples L1782240-20 (U4-E-09I-EM21) and -21 (U4-E-09I-EM21-FD) due to the thickness of the sample matrix.

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Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Isopropylbenzene	m,p-Xylene (Sum of Isomers)	Methylene Chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p-Cymene (p-Isopropyltoluene)	sec-Butylbenzene	Styrene	tert-Amyl Methyl Ether
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
M-247-100	4/20/2022	N	BL02	UMCf	100.5 - 110.5	----	----	----	----	----	----	----	----	----	----	----
M-249-100	4/20/2022	N	BL02	UMCf	99.6 - 109.6	----	----	----	----	----	----	----	----	----	----	----
M-251-100	4/19/2022	N	BL02	UMCf	92.5 - 102.5	<0.105	<0.430	1.11 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
M-251-100	10/13/2022	N	EM02	UMCf	92.5 - 102.5	<0.105	<0.430	0.845 J	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
M-251-100	11/2/2022	N	EM03	UMCf	92.5 - 102.5	<1.05	<4.30	<4.30	<10.0	<1.57	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95
M-251-100	12/8/2022	N	EM04	UMCf	92.5 - 102.5	<0.105	<0.430	0.576 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
M-251-100	1/11/2023	N	EM05	UMCf	92.5 - 102.5	<0.105	<0.430	0.536 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
M-251-100	2/13/2023	N	EM06	UMCf	92.5 - 102.5	<0.105	<0.430	0.475 J	<1.00	<0.157 UJ	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
M-251-100	3/17/2023	N	EM07	UMCf	92.5 - 102.5	<5.25	<21.5	<21.5	<50.0 UJ	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75
M-251-100	4/21/2023	N	EM08	UMCf	92.5 - 102.5	<0.105	<0.430	0.506 J	<1.00	<0.157	<0.0993	<0.174 UJ	<0.120	<0.125	<0.118	<0.195
M-251-100	5/9/2023	N	EM09	UMCf	92.5 - 102.5	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
M-251-100	6/14/2023	N	EM10	UMCf	92.5 - 102.5	<5.25	<21.5	<21.5	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75
M-251-100	7/14/2023	N	EM11	UMCf	92.5 - 102.5	<0.105	<0.430	0.443 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
M-251-100	8/10/2023	N	EM12	UMCf	92.5 - 102.5	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
M-251-100	9/14/2023	N	EM13	UMCf	92.5 - 102.5	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
M-251-100	10/19/2023	N	EM14	UMCf	92.5 - 102.5	<0.105	<0.430	0.806 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<5.90	<0.195
M-251-100	11/16/2023	N	EM15	UMCf	92.5 - 102.5	<5.25	<21.5	<21.5	<50.0 UJ	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75
M-251-100	12/12/2023	N	EM16	UMCf	92.5 - 102.5	<0.105	<0.430	1.04 J	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
M-251-100	1/25/2024	N	EM17	UMCf	92.5 - 102.5	<0.105	<0.430	1.17 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
M-251-100	2/13/2024	N	EM18	UMCf	92.5 - 102.5	<5.25	<21.5	<21.5	<50.0 UJ	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75
M-251-100	3/11/2024	N	EM19	UMCf	92.5 - 102.5	<5.25	<21.5	<21.5	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75
M-251-100	6/17/2024	N	EM20	UMCf	92.5 - 102.5	<5.25	<21.5	<21.5	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75
M-251-100	9/23/2024	N	EM21	UMCf	92.5 - 102.5	<0.105	<0.430	4.98 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
M-251-60	4/18/2022	N	BL02	UMCf	52.3 - 62.3	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
M-251-60	3/15/2023	N	EM07	UMCf	52.3 - 62.3	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
M-251-60	6/14/2023	N	EM10	UMCf	52.3 - 62.3	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
M-251-60	9/14/2023	N	EM13	UMCf	52.3 - 62.3	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
M-251-60	12/11/2023	N	EM16	UMCf	52.3 - 62.3	<0.105	<0.430	<0.430	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
M-251-60	3/12/2024	N	EM19	UMCf	52.3 - 62.3	<0.105	<0.430	0.731 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
M-251-60	6/19/2024	N	EM20	UMCf	52.3 - 62.3	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
M-251-60	9/20/2024	N	EM21	UMCf	52.3 - 62.3	<0.105	<0.430	<0.430	<1.00 UJ	<0.157 UJ	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
M-252	4/21/2022	N	BL02	UMCf	132.3 - 142.3	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
M-252	3/15/2023	N	EM07	UMCf	132.3 - 142.3	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
M-252	9/19/2023	N	EM13	UMCf	132.3 - 142.3	<0.105	<0.430	<0.430	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
M-252	12/18/2023	N	EM16	UMCf	132.3 - 142.3	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
M-252	3/12/2024	N	EM19	UMCf	132.3 - 142.3	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
M-252	6/19/2024	N	EM20	UMCf	132.3 - 142.3	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
M-252	9/24/2024	N	EM21	UMCf	132.3 - 142.3	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
M-253-100	4/20/2022	N	BL02	UMCf	100.8 - 110.8	----	----	----	----	----	----	----	----	----	----	----
M-255-100	4/20/2022	N	BL02	UMCf	100.2 - 110.2	----	----	----	----	----	----	----	----	----	----	----
U4-E-01D	4/18/2022	N	BL02	UMCf	94.7 - 109.7	<0.525	<2.15	<2.15	<5.00	<0.785 UJ	<0.497	<0.870	<0.600	<0.625	<0.590 UJ	<0.975
U4-E-01D	3/14/2023	N	EM07	UMCf	94.7 - 109.7	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-E-01D	6/20/2024	N	EM20	UMCf	94.7 - 109.7	<1.05	<4.30	5.29 J	<10.0 UJ	<1.57	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95
U4-E-01D	9/25/2024	N	EM21	UMCf	94.7 - 109.7	<1.05 UJ	<4.30 UJ	<4.30 UJ	<10.0 UJ	<1.57 UJ	<0.993 UJ	<1.74 UJ	<1.20 UJ	<1.25 UJ	<1.18 UJ	<1.95 UJ
U4-E-01I	4/19/2022	N	BL02	UMCf	74.6 - 89.6	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-E-01I	4/19/2022	FD	BL02	UMCf	74.6 - 89.6	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-E-01I	3/14/2023	N	EM07	UMCf	74.6 - 89.6	<0.105	<0.430	0.461 J	<20.0	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Isopropylbenzene	m,p-Xylene (Sum of Isomers)	Methylene Chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p-Cymene (p-Isopropyltoluene)	sec-Butylbenzene	Styrene	tert-Amyl Methyl Ether
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-E-01I	4/20/2023	N	EM08	UMCf	74.6 - 89.6	<0.105	<0.430	<0.430	<1.00 UJ	<0.157	<0.0993	<0.174 UJ	<0.120	<0.125	<0.118	<0.195
U4-E-01I	5/10/2023	N	EM09	UMCf	74.6 - 89.6	<0.105	<0.430	0.999 J	<1.00	<0.157	<0.0993	<0.174 UJ	<0.120	<0.125	<0.118	<0.195
U4-E-01I	6/12/2023	N	EM10	UMCf	74.6 - 89.6	<0.105	<0.430	2.63 J	<25.0	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-E-01I	7/11/2023	N	EM11	UMCf	74.6 - 89.6	<0.525	<2.15	3.49 J	<5.00	<0.785	<0.497	<0.870	<0.600	<0.625	<0.590	<0.975
U4-E-01I	8/10/2023	N	EM12	UMCf	74.6 - 89.6	<0.105	<0.430	1.79 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-E-01I	9/11/2023	N	EM13	UMCf	74.6 - 89.6	<0.525	<2.15	<2.15	<5.00	<0.785	<0.497	<0.870	<0.600	<0.625	<0.590	<0.975
U4-E-01I	10/16/2023	N	EM14	UMCf	74.6 - 89.6	<0.105	<0.430	2.41 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-E-01I	12/13/2023	N	EM16	UMCf	74.6 - 89.6	<1.05	<4.30	<4.30	<10.0	<1.57	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95
U4-E-01I	1/24/2024	N	EM17	UMCf	74.6 - 89.6	<2.10	<8.60	<8.60	<20.0	<3.14	<1.99	<3.48	<2.40	<2.50	<2.36	<3.90
U4-E-01I	2/14/2024	N	EM18	UMCf	74.6 - 89.6	<1.05	<4.30	<4.30	<10.0	<1.57	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95
U4-E-01I	3/12/2024	N	EM19	UMCf	74.6 - 89.6	<1.05	<4.30	<4.30	<10.0	<1.57	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95
U4-E-01I	6/20/2024	N	EM20	UMCf	74.6 - 89.6	<1.05	<4.30	8.11 J	<10.0	<1.57	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95
U4-E-01I	9/25/2024	N	EM21	UMCf	74.6 - 89.6	<1.05 UJ	<4.30 UJ	<4.30 UJ	<10.0 UJ	<1.57 UJ	<0.993 UJ	<1.74 UJ	<1.20 UJ	<1.25 UJ	<1.18 UJ	<1.95 UJ
U4-E-02D	4/20/2022	N	BL02	UMCf	94.4 - 109.4	<0.105	<0.430	0.478 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-E-02D	3/14/2023	N	EM07	UMCf	94.4 - 109.4	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-E-02D	6/19/2024	N	EM20	UMCf	94.4 - 109.4	<1.05	<4.30	4.38 J	<10.0	<1.57	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95
U4-E-02D	9/27/2024	N	EM21	UMCf	94.4 - 109.4	<2.10 UJ	<8.60 UJ	<8.60 UJ	<20.0 UJ	<3.14 UJ	<1.99 UJ	<3.48 UJ	<2.40 UJ	<2.50 UJ	<2.36 UJ	<3.90 UJ
U4-E-02I	4/18/2022	N	BL02	UMCf	74.4 - 89.4	<0.105	<0.430 UJ	<0.430	<1.00 UJ	<0.157 UJ	<0.0993 UJ	<0.174 UJ	<0.120	<0.125 UJ	<0.118 R	<0.195
U4-E-02I	3/14/2023	N	EM07	UMCf	74.4 - 89.4	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-E-02I	4/20/2023	N	EM08	UMCf	74.4 - 89.4	<0.105	<0.430	<0.430	<1.00 UJ	<0.157	<0.0993	<0.174 UJ	<0.120	<0.125	<0.118	<0.195
U4-E-02I	5/11/2023	N	EM09	UMCf	74.4 - 89.4	<0.105	<0.430	0.970 J	<1.00	<0.157	<0.0993	<0.174 UJ	<0.120	<0.125	<0.118	<0.195
U4-E-02I	6/12/2023	N	EM10	UMCf	74.4 - 89.4	<0.105	<0.430	6.89	<10.0	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-E-02I	7/11/2023	N	EM11	UMCf	74.4 - 89.4	<0.105	<0.430	4.58 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-E-02I	8/10/2023	N	EM12	UMCf	74.4 - 89.4	<0.105	<0.430	2.23 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-E-02I	9/11/2023	N	EM13	UMCf	74.4 - 89.4	<0.105	<0.430	3.59 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-E-02I	10/16/2023	N	EM14	UMCf	74.4 - 89.4	<1.05	<4.30	5.64 J	<10.0 UJ	<1.57 UJ	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95
U4-E-02I	12/14/2023	N	EM16	UMCf	74.4 - 89.4	<1.05	<4.30	6.75 J	<10.0	<1.57	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95
U4-E-02I	1/22/2024	N	EM17	UMCf	74.4 - 89.4	<0.105	<0.430	7.93	1.03 J	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	0.302 J
U4-E-02I	2/13/2024	N	EM18	UMCf	74.4 - 89.4	<0.105	<0.430	7.22	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-E-02I	3/13/2024	N	EM19	UMCf	74.4 - 89.4	<2.63	<10.7	<10.7	<25.0	<3.93	<2.48	<4.35	<3.00	<3.13	<2.95	<4.88
U4-E-02I	6/19/2024	N	EM20	UMCf	74.4 - 89.4	<10.5	<43.0	<43.0	<100	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5
U4-E-02I	9/24/2024	N	EM21	UMCf	74.4 - 89.4	<10.5 UJ	<43.0 UJ	<43.0 UJ	<100 UJ	<15.7 UJ	<9.93 UJ	<17.4 UJ	<12.0 UJ	<12.5 UJ	<11.8 UJ	<19.5 UJ
U4-E-03D	4/19/2022	N	BL02	UMCf	95.1 - 110.1	<0.105	<0.430	0.797 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-E-03D	10/13/2022	N	EM02	UMCf	95.1 - 110.1	<21.0	<86.0	<86.0	<200 UJ	<31.4	<19.9	<34.8	<24.0	<25.0	<23.6	<39.0
U4-E-03D	11/3/2022	N	EM03	UMCf	95.1 - 110.1	<0.105	<0.430	0.543 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-E-03D	12/6/2022	N	EM04	UMCf	95.1 - 110.1	<2.10 UJ	<8.60 UJ	<8.60 UJ	<20.0 UJ	<3.14 UJ	<1.99 UJ	<3.48 UJ	<2.40 UJ	<2.50 UJ	<2.36 UJ	<3.90 UJ
U4-E-03D	1/9/2023	N	EM05	UMCf	95.1 - 110.1	<0.105	<0.430	0.516 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-E-03D	2/13/2023	N	EM06	UMCf	95.1 - 110.1	<10.5	<43.0	<43.0	<100	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5
U4-E-03D	3/13/2023	N	EM07	UMCf	95.1 - 110.1	<10.5	<43.0	<43.0	<100	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5
U4-E-03D	3/14/2023	N	EM07	UMCf	95.1 - 110.1	<21.0	<86.0	<86.0	<200	<31.4	<19.9	<34.8	<24.0	<25.0	<23.6	<39.0
U4-E-03D	4/19/2023	N	EM08	UMCf	95.1 - 110.1	<0.525	<2.15	<2.15	<5.00	<0.785	<0.497	<0.870	<0.600	<0.625	<0.590	<0.975
U4-E-03D	5/11/2023	N	EM09	UMCf	95.1 - 110.1	<0.105	<0.430	2.04 J	<1.00	<0.157	<0.0993	<0.174 UJ	<0.120	<0.125	<0.118	<0.195
U4-E-03D	6/12/2023	N	EM10	UMCf	95.1 - 110.1	<0.105	<0.430	2.05 J	<100	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-E-03D	7/11/2023	N	EM11	UMCf	95.1 - 110.1	<0.105	<0.430	2.69 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-E-03D	8/10/2023	N	EM12	UMCf	95.1 - 110.1	<0.105	<0.430	3.09 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-E-03D	9/11/2023	N	EM13	UMCf	95.1 - 110.1	<0.105	<0.430	3.22 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-E-03D	10/16/2023	N	EM14	UMCf	95.1 - 110.1	<21.0	<86.0	<86.0	<200 UJ	<31.4 UJ	<19.9	<34.8	<24.0	<25.0	<23.6	<39.0

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Isopropylbenzene	m,p-Xylene (Sum of Isomers)	Methylene Chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p-Cymene (p-Isopropyltoluene)	sec-Butylbenzene	Styrene	tert-Amyl Methyl Ether
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-E-03D	6/10/2024	N	EM20	UMCf	95.1 - 110.1	<2.10	<8.60	<8.60	<20.0	<3.14	<1.99	<3.48	<2.40	<2.50	<2.36	<3.90
U4-E-03D	6/10/2024	FD	EM20	UMCf	95.1 - 110.1	<2.10	<8.60	12.3 J	<20.0	<3.14	<1.99	<3.48	<2.40	<2.50	<2.36	<3.90
U4-E-03D	9/27/2024	N	EM21	UMCf	95.1 - 110.1	<0.525 UJ	<2.15 UJ	<2.15 UJ	<5.00 UJ	<0.785 UJ	<0.497 UJ	<0.870 UJ	<0.600 UJ	<0.625 UJ	<0.590 UJ	<0.975 UJ
U4-E-03D	9/27/2024	FD	EM21	UMCf	95.1 - 110.1	<0.525 UJ	<2.15 UJ	<2.15 UJ	<5.00 UJ	<0.785 UJ	<0.497 UJ	<0.870 UJ	<0.600 UJ	<0.625 UJ	<0.590 UJ	<0.975 UJ
U4-E-04D	4/19/2022	N	BL02	UMCf	95.0 - 110.0	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-E-04D	3/14/2023	N	EM07	UMCf	95.0 - 110.0	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-E-04D	6/20/2024	N	EM20	UMCf	95.0 - 110.0	<1.05	<4.30	<4.30	<10.0	<1.57	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95
U4-E-04D	9/26/2024	N	EM21	UMCf	95.0 - 110.0	<1.05	<4.30	<4.30	<10.0	<1.57	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95
U4-E-04I	4/18/2022	N	BL02	UMCf	75.0 - 90.0	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-E-04I	3/14/2023	N	EM07	UMCf	75.0 - 90.0	<5.25	<21.5	<21.5	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75
U4-E-04I	6/20/2024	N	EM20	UMCf	75.0 - 90.0	<1.05	<4.30	15.8 J	<10.0	<1.57	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95
U4-E-04I	9/26/2024	N	EM21	UMCf	75.0 - 90.0	<1.05	<4.30	<4.30	<10.0	<1.57	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95
U4-E-05D	4/19/2022	N	BL02	UMCf	95.0 - 110.0	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-E-05D	3/16/2023	N	EM07	UMCf	95.0 - 110.0	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-E-05D	6/10/2024	N	EM20	UMCf	95.0 - 110.0	<2.10	<8.60	<8.60	<20.0	<3.14	<1.99	<3.48	<2.40	<2.50	<2.36	<3.90
U4-E-05D	9/27/2024	N	EM21	UMCf	95.0 - 110.0	<0.525 UJ	<2.15 UJ	<2.15 UJ	<5.00 UJ	<0.785 UJ	<0.497 UJ	<0.870 UJ	<0.600 UJ	<0.625 UJ	<0.590 UJ	<0.975 UJ
U4-E-05I	4/19/2022	N	BL02	UMCf	75.0 - 90.0	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-E-05I	3/15/2023	N	EM07	UMCf	75.0 - 90.0	<0.105 UJ	<0.430 UJ	<0.430 UJ	<1.00 UJ	<0.157 UJ	<0.0993 UJ	<0.174 UJ	<0.120 UJ	<0.125 UJ	<0.118 UJ	<0.195 UJ
U4-E-05I	6/19/2024	N	EM20	UMCf	75.0 - 90.0	<5.25	<21.5	27.9 J	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75
U4-E-05I	9/27/2024	N	EM21	UMCf	75.0 - 90.0	<1.05 UJ	<4.30 UJ	<4.30 UJ	<10.0 UJ	<1.57 UJ	<0.993 UJ	<1.74 UJ	<1.20 UJ	<1.25 UJ	<1.18 UJ	<1.95 UJ
U4-E-06D	4/11/2022	N	BL02	UMCf	95.1 - 110.1	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118 R	<0.195
U4-E-06D	6/20/2024	N	EM20	UMCf	95.1 - 110.1	<1.05	<4.30	6.97 J	<10.0	<1.57	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95
U4-E-06D	9/27/2024	N	EM21	UMCf	95.1 - 110.1	<0.525 UJ	<2.15 UJ	<2.15 UJ	<5.00 UJ	<0.785 UJ	<0.497 UJ	<0.870 UJ	<0.600 UJ	<0.625 UJ	<0.590 UJ	<0.975 UJ
U4-E-06I	4/11/2022	N	BL02	UMCf	73.2 - 88.2	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-E-06I	4/11/2022	FD	BL02	UMCf	73.2 - 88.2	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-E-06I	10/12/2022	N	EM02	UMCf	73.2 - 88.2	<0.105	<0.430	0.976 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-E-06I	11/3/2022	N	EM03	UMCf	73.2 - 88.2	<0.105	<0.430	2.60 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-E-06I	12/6/2022	N	EM04	UMCf	73.2 - 88.2	<1.05 UJ	<4.30 UJ	6.34 J	<10.0 UJ	<1.57 UJ	<0.993 UJ	<1.74 UJ	<1.20 UJ	<1.25 UJ	<1.18 UJ	<1.95 UJ
U4-E-06I	1/9/2023	N	EM05	UMCf	73.2 - 88.2	<0.105	<0.430	2.99 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-E-06I	2/13/2023	N	EM06	UMCf	73.2 - 88.2	<10.5	<43.0	<43.0	<100	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5
U4-E-06I	3/13/2023	N	EM07	UMCf	73.2 - 88.2	<2.10	<8.60	<8.60	<20.0	<3.14	<1.99	<3.48	<2.40	<2.50	<2.36	<3.90
U4-E-06I	4/17/2023	N	EM08	UMCf	73.2 - 88.2	<2.10	<8.60	<8.60	<20.0	<3.14	<1.99	<3.48	<2.40	<2.50	<2.36	<3.90
U4-E-06I	5/15/2023	N	EM09	UMCf	73.2 - 88.2	<2.63	<10.7	<10.7	<25.0	<3.93	<2.48	<4.35	<3.00	<3.13	<2.95	<4.88
U4-E-06I	6/12/2023	N	EM10	UMCf	73.2 - 88.2	<0.105	<0.430	1.87 J	<100	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-E-06I	7/11/2023	N	EM11	UMCf	73.2 - 88.2	<0.105	<0.430	1.96 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-E-06I	8/11/2023	N	EM12	UMCf	73.2 - 88.2	<0.525	<2.15	2.47 J	<5.00	<0.785	<0.497	<0.870	<0.600	<0.625	<0.590	<0.975
U4-E-06I	9/11/2023	N	EM13	UMCf	73.2 - 88.2	<0.105	<0.430	2.30 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-E-06I	10/16/2023	N	EM14	UMCf	73.2 - 88.2	<5.25	<21.5	<21.5	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75
U4-E-06I	12/13/2023	N	EM16	UMCf	73.2 - 88.2	<0.105	<0.430	7.03	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-E-06I	1/22/2024	N	EM17	UMCf	73.2 - 88.2	<0.105	<0.430	<0.430	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-E-06I	2/13/2024	N	EM18	UMCf	73.2 - 88.2	<5.25	<21.5	<21.5	<50.0 UJ	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75
U4-E-06I	3/11/2024	N	EM19	UMCf	73.2 - 88.2	<5.25	<21.5	<21.5	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75
U4-E-06I	6/11/2024	N	EM20	UMCf	73.2 - 88.2	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-E-06I	9/27/2024	N	EM21	UMCf	73.2 - 88.2	<2.10 UJ	<8.60 UJ	<8.60 UJ	<20.0 UJ	<3.14 UJ	<1.99 UJ	<3.48 UJ	<2.40 UJ	<2.50 UJ	<2.36 UJ	<3.90 UJ
U4-E-07D	4/12/2022	N	BL02	UMCf	94.6 - 109.6	<0.105	<0.430	0.637 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-E-07D	6/20/2024	N	EM20	UMCf	94.6 - 109.6	<1.05	<4.30	<4.30	<10.0	<1.57	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95
U4-E-07D	9/26/2024	N	EM21	UMCf	94.6 - 109.6	<1.05	<4.30	<4.30	<10.0	<1.57	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Isopropylbenzene	m,p-Xylene (Sum of Isomers)	Methylene Chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p-Cymene (p-Isopropyltoluene)	sec-Butylbenzene	Styrene	tert-Amyl Methyl Ether
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-E-07I	4/12/2022	N	BL02	UMCf	74.7 - 89.7	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-E-07I	10/11/2022	N	EM02	UMCf	74.7 - 89.7	<1.05	<4.30	<4.30	<10.0	<1.57	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95
U4-E-07I	11/3/2022	N	EM03	UMCf	74.7 - 89.7	<0.105	<0.430	2.44 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-E-07I	12/6/2022	N	EM04	UMCf	74.7 - 89.7	<2.63 UJ	<10.7 UJ	<10.7 UJ	<25.0 UJ	<3.93 UJ	<2.48 UJ	<4.35 UJ	<3.00 UJ	<3.13 UJ	<2.95 UJ	<4.88 UJ
U4-E-07I	1/9/2023	N	EM05	UMCf	74.7 - 89.7	<0.105	<0.430	0.747 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-E-07I	2/13/2023	N	EM06	UMCf	74.7 - 89.7	<10.5	<43.0	<43.0	<100	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5
U4-E-07I	3/13/2023	N	EM07	UMCf	74.7 - 89.7	<10.5	<43.0	<43.0	<100	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5
U4-E-07I	4/19/2023	N	EM08	UMCf	74.7 - 89.7	<0.525	<2.15	<2.15	<5.00	<0.785	<0.497	<0.870	<0.600	<0.625	<0.590	<0.975
U4-E-07I	5/15/2023	N	EM09	UMCf	74.7 - 89.7	<10.5	<43.0	<43.0	<100	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5
U4-E-07I	6/12/2023	N	EM10	UMCf	74.7 - 89.7	<0.105	<0.430	2.86 J	<100	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-E-07I	7/11/2023	N	EM11	UMCf	74.7 - 89.7	<0.105	<0.430	3.33 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-E-07I	8/11/2023	N	EM12	UMCf	74.7 - 89.7	<0.525	<2.15	3.45 J	<5.00	<0.785	<0.497	<0.870	<0.600	<0.625	<0.590	<0.975
U4-E-07I	9/11/2023	N	EM13	UMCf	74.7 - 89.7	<0.105	<0.430	1.81 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-E-07I	10/16/2023	N	EM14	UMCf	74.7 - 89.7	<10.5	<43.0	<43.0	<100 UJ	<15.7 UJ	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5
U4-E-07I	12/13/2023	N	EM16	UMCf	74.7 - 89.7	<0.105	<0.430	2.00 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-E-07I	1/23/2024	N	EM17	UMCf	74.7 - 89.7	<0.105	<0.430	1.88 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-E-07I	2/13/2024	N	EM18	UMCf	74.7 - 89.7	<21.0	<86.0	<86.0	<200 UJ	<31.4	<19.9	<34.8	<24.0	<25.0	<23.6	<39.0
U4-E-07I	3/11/2024	N	EM19	UMCf	74.7 - 89.7	<21.0	<86.0	<86.0	<200	<31.4	<19.9	<34.8	<24.0	<25.0	<23.6	<39.0
U4-E-07I	6/11/2024	N	EM20	UMCf	74.7 - 89.7	<0.105	<0.430	1.93 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-E-07I	9/26/2024	N	EM21	UMCf	74.7 - 89.7	<10.5	<43.0	<43.0	<100	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5
U4-E-08D	4/12/2022	N	BL02	UMCf	94.6 - 109.6	<0.105	<0.430	0.819 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-E-08D	10/11/2022	N	EM02	UMCf	94.6 - 109.6	<1.05	<4.30	<4.30	<10.0	<1.57	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95
U4-E-08D	11/3/2022	N	EM03	UMCf	94.6 - 109.6	<0.105	<0.430	0.540 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-E-08D	12/6/2022	N	EM04	UMCf	94.6 - 109.6	<2.63 UJ	<10.7 UJ	<10.7 UJ	<25.0 UJ	<3.93 UJ	<2.48 UJ	<4.35 UJ	<3.00 UJ	<3.13 UJ	<2.95 UJ	<4.88 UJ
U4-E-08D	1/9/2023	N	EM05	UMCf	94.6 - 109.6	<0.105	<0.430	1.08 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-E-08D	2/13/2023	N	EM06	UMCf	94.6 - 109.6	<10.5	<43.0	<43.0	<100	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5
U4-E-08D	3/13/2023	N	EM07	UMCf	94.6 - 109.6	<10.5	<43.0	<43.0	<100	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5
U4-E-08D	4/19/2023	N	EM08	UMCf	94.6 - 109.6	<0.525	<2.15	<2.15	<5.00	<0.785	<0.497	<0.870	<0.600	<0.625	<0.590	<0.975
U4-E-08D	5/17/2023	N	EM09	UMCf	94.6 - 109.6	<10.5	<43.0	<43.0	<100	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5
U4-E-08D	6/12/2023	N	EM10	UMCf	94.6 - 109.6	<0.105	<0.430	1.40 J	<100	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-E-08D	7/11/2023	N	EM11	UMCf	94.6 - 109.6	<0.105	<0.430	1.19 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-E-09D	4/15/2022	N	BL02	UMCf	94.5 - 109.5	<0.105	<0.430	<0.430	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-E-09D	6/10/2024	N	EM20	UMCf	94.5 - 109.5	<2.10	<8.60	<8.60	<20.0	<3.14	<1.99	<3.48	<2.40	<2.50	<2.36	<3.90
U4-E-09D	9/27/2024	N	EM21	UMCf	94.5 - 109.5	<2.10 UJ	<8.60 UJ	<8.60 UJ	<20.0 UJ	<3.14 UJ	<1.99 UJ	<3.48 UJ	<2.40 UJ	<2.50 UJ	<2.36 UJ	<3.90 UJ
U4-E-09I	4/14/2022	N	BL02	UMCf	74.9 - 89.9	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	0.220 J	<0.120	<0.125	<0.118	<0.195
U4-E-09I	6/10/2024	N	EM20	UMCf	74.9 - 89.9	<2.10	<8.60	9.00 J	<20.0	<3.14	<1.99	<3.48	<2.40	<2.50	<2.36	<3.90
U4-E-09I	6/10/2024	FD	EM20	UMCf	74.9 - 89.9	<2.10	<8.60	9.94 J	<20.0	<3.14	<1.99	<3.48	<2.40	<2.50	<2.36	<3.90
U4-E-09I	9/26/2024	N	EM21	UMCf	74.9 - 89.9	<2.10	<8.60	<8.60	<20.0	<3.14	<1.99	<3.48	<2.40	<2.50	<2.36	<3.90
U4-E-09I	9/26/2024	FD	EM21	UMCf	74.9 - 89.9	<2.10	<8.60	<8.60	<20.0	<3.14	<1.99	<3.48	<2.40	<2.50	<2.36	<3.90
U4-E-10D	4/13/2022	N	BL02	UMCf	94.5 - 109.5	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-E-10D	6/19/2024	N	EM20	UMCf	94.5 - 109.5	<1.05	<4.30	5.87 J	<10.0	<1.57	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95
U4-E-10D	9/25/2024	N	EM21	UMCf	94.5 - 109.5	<1.05	<4.30	11.9 J	<10.0	<1.57 UJ	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95
U4-E-10I	4/13/2022	N	BL02	UMCf	74.2 - 89.2	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-E-10I	6/11/2024	N	EM20	UMCf	74.2 - 89.2	<10.5	<43.0	<43.0	<100	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5
U4-E-10I	9/26/2024	N	EM21	UMCf	74.2 - 89.2	<10.5	<43.0	<43.0	<100	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5
U4-MW-01D	4/19/2022	N	BL02	UMCf	96.7 - 106.7	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-01D	2/16/2023	N	EM06	UMCf	96.7 - 106.7	<1.05	<4.30	<4.30	<10.0	<1.57	<0.993 UJ	<1.74	<1.20	<1.25	<1.18	<1.95

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Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Isopropylbenzene	m,p-Xylene (Sum of Isomers)	Methylene Chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p-Cymene (p-Isopropyltoluene)	sec-Butylbenzene	Styrene	tert-Amyl Methyl Ether
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-01D	3/20/2023	N	EM07	UMCf	96.7 - 106.7	<0.105	<0.430	<0.430	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-01D	6/13/2023	N	EM10	UMCf	96.7 - 106.7	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-01D	9/14/2023	N	EM13	UMCf	96.7 - 106.7	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-01D	12/14/2023	N	EM16	UMCf	96.7 - 106.7	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-01D	3/13/2024	N	EM19	UMCf	96.7 - 106.7	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-01D	6/18/2024	N	EM20	UMCf	96.7 - 106.7	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-01D	9/19/2024	N	EM21	UMCf	96.7 - 106.7	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-01DD	4/19/2022	N	BL02	UMCf	119.9 - 129.9	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-01DD	4/19/2022	FD	BL02	UMCf	119.9 - 129.9	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-01DD	3/15/2023	N	EM07	UMCf	119.9 - 129.9	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-01DD	6/13/2023	N	EM10	UMCf	119.9 - 129.9	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-01DD	9/14/2023	N	EM13	UMCf	119.9 - 129.9	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-01DD	12/15/2023	N	EM16	UMCf	119.9 - 129.9	<0.525	<2.15	<2.15	<5.00	<0.785	<0.497	<0.870	<0.600	<0.625	<0.590	<0.975
U4-MW-01DD	3/12/2024	N	EM19	UMCf	119.9 - 129.9	<0.525	<2.15	<2.15	<5.00	<0.785	<0.497	<0.870	<0.600	<0.625	<0.590	<0.975
U4-MW-01DD	6/18/2024	N	EM20	UMCf	119.9 - 129.9	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-01DD	9/20/2024	N	EM21	UMCf	119.9 - 129.9	<0.105	<0.430	<0.430	<1.00 UJ	<0.157 UJ	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-01I	4/19/2022	N	BL02	UMCf	76.7 - 86.7	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-01I	3/20/2023	N	EM07	UMCf	76.7 - 86.7	<0.105	<0.430	<0.430	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-01I	6/12/2023	N	EM10	UMCf	76.7 - 86.7	<0.105	<0.430	<0.430	<25.0	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-01I	9/14/2023	N	EM13	UMCf	76.7 - 86.7	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-01I	12/15/2023	N	EM16	UMCf	76.7 - 86.7	<5.25	<21.5	<21.5	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75
U4-MW-01I	3/13/2024	N	EM19	UMCf	76.7 - 86.7	<0.105	<0.430	0.430 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-01I	6/18/2024	N	EM20	UMCf	76.7 - 86.7	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-01I	9/19/2024	N	EM21	UMCf	76.7 - 86.7	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-01S	4/18/2022	N	BL02	UMCf	54.7 - 64.7	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-01S	3/15/2023	N	EM07	UMCf	54.7 - 64.7	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-01S	6/13/2023	N	EM10	UMCf	54.7 - 64.7	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-01S	9/15/2023	N	EM13	UMCf	54.7 - 64.7	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118 R	<0.195
U4-MW-01S	12/13/2023	N	EM16	UMCf	54.7 - 64.7	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118 R	<0.195
U4-MW-01S	3/13/2024	N	EM19	UMCf	54.7 - 64.7	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118 R	<0.195
U4-MW-01S	6/18/2024	N	EM20	UMCf	54.7 - 64.7	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-01S	9/20/2024	N	EM21	UMCf	54.7 - 64.7	<0.105	<0.430	<0.430	<1.00 UJ	<0.157 UJ	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-02D	4/14/2022	N	BL02	UMCf	95.0 - 110.0	<0.105	<0.430	1.47 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-02D	10/11/2022	N	EM02	UMCf	95.0 - 110.0	<0.105	<0.430	1.47 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-02D	11/1/2022	N	EM03	UMCf	95.0 - 110.0	<5.25	<21.5	<21.5	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75
U4-MW-02D	12/7/2022	N	EM04	UMCf	95.0 - 110.0	<0.105	<0.430	1.73 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-02D	1/10/2023	N	EM05	UMCf	95.0 - 110.0	<0.105	<0.430	1.33 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-02D	2/13/2023	N	EM06	UMCf	95.0 - 110.0	<0.105	<0.430	1.36 J	<1.00	<0.157 UJ	<9.93	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-02D	3/17/2023	N	EM07	UMCf	95.0 - 110.0	<10.5	<43.0	<43.0	<100 UJ	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5
U4-MW-02D	4/19/2023	N	EM08	UMCf	95.0 - 110.0	<0.525	<2.15	<2.15	<5.00	<0.785	<0.497	<0.870	<0.600	<0.625	<0.590	<0.975
U4-MW-02D	5/9/2023	N	EM09	UMCf	95.0 - 110.0	<0.525	<2.15	<2.15	<5.00	<0.785	<0.497	<0.870	<0.600	<0.625	<0.590	<0.975
U4-MW-02D	6/13/2023	N	EM10	UMCf	95.0 - 110.0	<0.105	<0.430	0.831 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-02D	7/18/2023	N	EM11	UMCf	95.0 - 110.0	<0.105	<0.430	1.16 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-02D	8/14/2023	N	EM12	UMCf	95.0 - 110.0	<26.3	<108	<108	<250	<39.3	<24.8	<43.5 UJ	<30.0	<31.3	<29.5	<48.8
U4-MW-02D	9/11/2023	N	EM13	UMCf	95.0 - 110.0	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-02D	10/19/2023	N	EM14	UMCf	95.0 - 110.0	<0.105	<0.430	1.37 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<11.8	<0.195
U4-MW-02D	11/15/2023	N	EM15	UMCf	95.0 - 110.0	<10.5	<43.0	<43.0	<100 UJ	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Isopropylbenzene	m,p-Xylene (Sum of Isomers)	Methylene Chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p-Cymene (p-Isopropyltoluene)	sec-Butylbenzene	Styrene	tert-Amyl Methyl Ether
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-02D	12/14/2023	N	EM16	UMCf	95.0 - 110.0	<10.5	<43.0	<43.0	<100	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5
U4-MW-02D	1/25/2024	N	EM17	UMCf	95.0 - 110.0	<0.105	<0.430	0.887 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-02D	2/12/2024	N	EM18	UMCf	95.0 - 110.0	<0.105	<0.430	1.09 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195
U4-MW-02D	3/13/2024	N	EM19	UMCf	95.0 - 110.0	<0.105	<0.430	1.14 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-02D	6/17/2024	N	EM20	UMCf	95.0 - 110.0	<0.105	<0.430	12.2	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-02D	9/23/2024	N	EM21	UMCf	95.0 - 110.0	<0.105	<0.430	1.36 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-02I	4/14/2022	N	BL02	UMCf	75.0 - 90.0	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-02I	10/11/2022	N	EM02	UMCf	75.0 - 90.0	<0.105	<0.430	0.571 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-02I	11/2/2022	N	EM03	UMCf	75.0 - 90.0	<1.05	<4.30	4.54 J	<10.0	<1.57	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95
U4-MW-02I	11/2/2022	FD	EM03	UMCf	75.0 - 90.0	<1.05	<4.30	<4.30	<10.0	<1.57	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95
U4-MW-02I	12/8/2022	N	EM04	UMCf	75.0 - 90.0	0.335 J	<0.430	3.23 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-02I	12/8/2022	FD	EM04	UMCf	75.0 - 90.0	<0.105	<0.430	12.3 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-02I	1/13/2023	N	EM05	UMCf	75.0 - 90.0	<1.05	<4.30	<4.30	<10.0	<1.57	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95
U4-MW-02I	1/13/2023	FD	EM05	UMCf	75.0 - 90.0	<1.05	<4.30	<4.30	<10.0	<1.57	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95
U4-MW-02I	2/15/2023	N	EM06	UMCf	75.0 - 90.0	<1.05	<4.30	<4.30	<10.0	<1.57	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95
U4-MW-02I	2/15/2023	FD	EM06	UMCf	75.0 - 90.0	<1.05	<4.30	<4.30	<10.0	<1.57	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95
U4-MW-02I	3/17/2023	N	EM07	UMCf	75.0 - 90.0	<21.0	<86.0	<86.0	<200 UJ	<31.4	<19.9	<34.8	<24.0	<25.0	<23.6	<39.0
U4-MW-02I	3/17/2023	FD	EM07	UMCf	75.0 - 90.0	<21.0	<86.0	<86.0	<200 UJ	<31.4	<19.9	<34.8	<24.0	<25.0	<23.6	<39.0
U4-MW-02I	4/20/2023	N	EM08	UMCf	75.0 - 90.0	<0.105	<0.430	6.15	<1.00 UJ	<0.157	<0.0993	<0.174 UJ	<0.120	<0.125	<0.118	<0.195
U4-MW-02I	4/20/2023	FD	EM08	UMCf	75.0 - 90.0	<0.105	<0.430	6.54	<1.00 UJ	<0.157	<0.0993	<0.174 UJ	<0.120	<0.125	<0.118	<0.195
U4-MW-02I	5/9/2023	N	EM09	UMCf	75.0 - 90.0	<0.105	<0.430	9.93 J+	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-02I	5/9/2023	FD	EM09	UMCf	75.0 - 90.0	<0.105	<0.430	9.73 J+	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-02I	6/12/2023	N	EM10	UMCf	75.0 - 90.0	<0.105	<0.430	6.47	<10.0	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-02I	6/12/2023	FD	EM10	UMCf	75.0 - 90.0	<0.105	<0.430	6.42	<10.0	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-02I	7/18/2023	N	EM11	UMCf	75.0 - 90.0	<0.105	<0.430	1.55 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-02I	7/18/2023	FD	EM11	UMCf	75.0 - 90.0	<0.105	<0.430	2.01 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-02I	8/11/2023	N	EM12	UMCf	75.0 - 90.0	<0.105	<0.430	6.37	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-02I	8/11/2023	FD	EM12	UMCf	75.0 - 90.0	<0.105	<0.430	6.77	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-02I	9/11/2023	N	EM13	UMCf	75.0 - 90.0	<0.105	<0.430	5.18	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-02I	9/11/2023	FD	EM13	UMCf	75.0 - 90.0	<0.105	<0.430	5.32	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-02I	10/19/2023	N	EM14	UMCf	75.0 - 90.0	<0.105 UJ	<0.430 UJ	4.79 J	<1.00 UJ	<0.157 UJ	<0.0993 UJ	<0.174 UJ	<0.120 UJ	<0.125 UJ	<5.90 UJ	<0.195 UJ
U4-MW-02I	10/19/2023	FD	EM14	UMCf	75.0 - 90.0	<0.105	<0.430	5.03	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<5.90	<0.195
U4-MW-02I	11/15/2023	N	EM15	UMCf	75.0 - 90.0	<5.25	<21.5	<21.5	<50.0 UJ	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75
U4-MW-02I	11/15/2023	FD	EM15	UMCf	75.0 - 90.0	<5.25	<21.5	<21.5	<50.0 UJ	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75
U4-MW-02I	12/14/2023	N	EM16	UMCf	75.0 - 90.0	<5.25	<21.5	<21.5	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75
U4-MW-02I	12/14/2023	FD	EM16	UMCf	75.0 - 90.0	<5.25	<21.5	<21.5	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75
U4-MW-02I	1/25/2024	N	EM17	UMCf	75.0 - 90.0	<0.105	<0.430	5.02	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-02I	1/25/2024	FD	EM17	UMCf	75.0 - 90.0	<0.105	<0.430	5.28	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-02I	2/12/2024	N	EM18	UMCf	75.0 - 90.0	<0.105	<0.430	4.32 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195
U4-MW-02I	2/12/2024	FD	EM18	UMCf	75.0 - 90.0	<0.105	<0.430	4.34 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195
U4-MW-02I	3/13/2024	N	EM19	UMCf	75.0 - 90.0	<0.105	<0.430	3.77 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-02I	3/13/2024	FD	EM19	UMCf	75.0 - 90.0	<0.105	<0.430	4.23 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-02I	6/17/2024	N	EM20	UMCf	75.0 - 90.0	<5.25	<21.5	<21.5	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75
U4-MW-02I	6/17/2024	FD	EM20	UMCf	75.0 - 90.0	<5.25	<21.5	<21.5	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75
U4-MW-02I	9/23/2024	N	EM21	UMCf	75.0 - 90.0	<0.105	<0.430	4.63 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-02I	9/23/2024	FD	EM21	UMCf	75.0 - 90.0	<0.105	<0.430	4.47 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-03D	4/20/2022	N	BL02	UMCf	96.6 - 106.6	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Isopropylbenzene	m,p-Xylene (Sum of Isomers)	Methylene Chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p-Cymene (p-Isopropyltoluene)	sec-Butylbenzene	Styrene	tert-Amyl Methyl Ether
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-03D	2/16/2023	N	EM06	UMCf	96.6 - 106.6	<0.525	<2.15	<2.15	<5.00	<0.785	<0.497 UJ	<0.870	<0.600	<0.625	<0.590	<0.975
U4-MW-03D	3/16/2023	N	EM07	UMCf	96.6 - 106.6	<2.10	<8.60	<8.60	<20.0	<3.14	<1.99	<3.48	<2.40	<2.50	<2.36	<3.90
U4-MW-03D	3/16/2023	FD	EM07	UMCf	96.6 - 106.6	<0.525	<2.15	<2.15	<5.00	<0.785	<0.497	<0.870	<0.600	<0.625	<0.590	<0.975
U4-MW-03D	6/15/2023	N	EM10	UMCf	96.6 - 106.6	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-03D	9/14/2023	N	EM13	UMCf	96.6 - 106.6	<0.105	<0.430	2.28 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-03D	12/13/2023	N	EM16	UMCf	96.6 - 106.6	<0.105	<0.430	4.36 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-03D	3/15/2024	N	EM19	UMCf	96.6 - 106.6	<0.105	<0.430	4.41 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-03D	6/17/2024	N	EM20	UMCf	96.6 - 106.6	<5.25	<21.5	<21.5	<50.0	<7.85	9.38 J	<8.70	<6.00	<6.25	<5.90	<9.75
U4-MW-03D	9/18/2024	N	EM21	UMCf	96.6 - 106.6	<0.105	<0.430	2.09 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-03DD	4/20/2022	N	BL02	UMCf	119.7 - 129.7	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-03DD	3/15/2023	N	EM07	UMCf	119.7 - 129.7	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-03DD	6/15/2023	N	EM10	UMCf	119.7 - 129.7	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-03DD	9/14/2023	N	EM13	UMCf	119.7 - 129.7	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-03DD	12/14/2023	N	EM16	UMCf	119.7 - 129.7	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-03DD	3/14/2024	N	EM19	UMCf	119.7 - 129.7	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-03DD	6/17/2024	N	EM20	UMCf	119.7 - 129.7	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-03DD	9/18/2024	N	EM21	UMCf	119.7 - 129.7	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-03I	4/19/2022	N	BL02	UMCf	76.6 - 86.6	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-03I	3/15/2023	N	EM07	UMCf	76.6 - 86.6	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-03I	6/14/2023	N	EM10	UMCf	76.6 - 86.6	<2.10	<8.60	<8.60	<20.0	<3.14	<1.99	<3.48	<2.40	<2.50	<2.36	<3.90
U4-MW-03I	6/14/2023	FD	EM10	UMCf	76.6 - 86.6	<2.63	<10.7	<10.7	<25.0	<3.93	<2.48	<4.35	<3.00	<3.13	<2.95	<4.88
U4-MW-03I	9/11/2023	N	EM13	UMCf	76.6 - 86.6	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-03I	9/11/2023	FD	EM13	UMCf	76.6 - 86.6	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-03I	12/13/2023	N	EM16	UMCf	76.6 - 86.6	<0.105	<0.430	3.61 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-03I	12/13/2023	FD	EM16	UMCf	76.6 - 86.6	<0.105	<0.430	3.29 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-03I	3/14/2024	N	EM19	UMCf	76.6 - 86.6	<5.25	<21.5	<21.5	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75
U4-MW-03I	3/14/2024	FD	EM19	UMCf	76.6 - 86.6	<5.25	<21.5	<21.5	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75
U4-MW-03I	6/19/2024	N	EM20	UMCf	76.6 - 86.6	<5.25	<21.5	<21.5	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75
U4-MW-03I	6/19/2024	FD	EM20	UMCf	76.6 - 86.6	<5.25	<21.5	<21.5	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75
U4-MW-03I	9/20/2024	N	EM21	UMCf	76.6 - 86.6	<0.525	<2.15	4.11 J	<5.00	<0.785	<0.497	<0.870	<0.600	<0.625	<0.590	<0.975
U4-MW-03I	9/20/2024	FD	EM21	UMCf	76.6 - 86.6	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-03S	4/18/2022	N	BL02	UMCf	54.5 - 64.5	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-03S	4/18/2022	FD	BL02	UMCf	54.5 - 64.5	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-03S	3/15/2023	N	EM07	UMCf	54.5 - 64.5	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-03S	6/15/2023	N	EM10	UMCf	54.5 - 64.5	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-03S	9/14/2023	N	EM13	UMCf	54.5 - 64.5	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-03S	12/13/2023	N	EM16	UMCf	54.5 - 64.5	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-03S	3/14/2024	N	EM19	UMCf	54.5 - 64.5	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-03S	6/14/2024	N	EM20	UMCf	54.5 - 64.5	<0.105	<0.430	<0.430	<1.00	<0.157 UJ	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195
U4-MW-03S	9/18/2024	N	EM21	UMCf	54.5 - 64.5	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-04D	4/19/2022	N	BL02	UMCf	97.0 - 107.0	<0.105	<0.430	0.856 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-04D	2/16/2023	N	EM06	UMCf	97.0 - 107.0	<5.25	<21.5	<21.5	<50.0	<7.85	<4.97 UJ	<8.70	<6.00	<6.25	<5.90	<9.75
U4-MW-04D	3/21/2023	N	EM07	UMCf	97.0 - 107.0	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-04D	6/14/2023	N	EM10	UMCf	97.0 - 107.0	<0.105	<0.430	0.479 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-04D	9/15/2023	N	EM13	UMCf	97.0 - 107.0	<0.105	<0.430	0.580 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-04D	12/12/2023	N	EM16	UMCf	97.0 - 107.0	<0.105	<0.430	1.64 J	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-04D	3/12/2024	N	EM19	UMCf	97.0 - 107.0	<5.25	<21.5	<21.5	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Isopropylbenzene	m,p-Xylene (Sum of Isomers)	Methylene Chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p-Cymene (p-Isopropyltoluene)	sec-Butylbenzene	Styrene	tert-Amyl Methyl Ether
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-04D	6/19/2024	N	EM20	UMCf	97.0 - 107.0	<5.25	<21.5	<21.5	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75
U4-MW-04D	9/24/2024	N	EM21	UMCf	97.0 - 107.0	<0.105	<0.430	1.51 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-04I	4/19/2022	N	BL02	UMCf	76.8 - 86.8	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-04I	3/20/2023	N	EM07	UMCf	76.8 - 86.8	<0.105	<0.430	0.491 J	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-04I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<0.525	<2.15	<2.15	<5.00	<0.785	<0.497	<0.870	<0.600	<0.625	<0.590	<0.975
U4-MW-04I	9/14/2023	N	EM13	UMCf	76.8 - 86.8	<0.105	<0.430	0.693 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-04I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	<0.105	<0.430	1.07 J	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-04I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	<21.0	<86.0	<86.0	<200	<31.4	<19.9	<34.8	<24.0	<25.0	<23.6	<39.0
U4-MW-04I	6/18/2024	N	EM20	UMCf	76.8 - 86.8	<0.525	<2.15	<2.15	<5.00	<0.785	<0.497	<0.870	<0.600	<0.625	<0.590	<0.975
U4-MW-04I	9/24/2024	N	EM21	UMCf	76.8 - 86.8	<0.105	<0.430	1.36 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-05D	4/15/2022	N	BL02	UMCf	98.2 - 108.2	<0.105	<0.430	<0.430	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-05D	10/13/2022	N	EM02	UMCf	98.2 - 108.2	<10.5	<43.0	<43.0	<100 UJ	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5
U4-MW-05D	11/3/2022	N	EM03	UMCf	98.2 - 108.2	<0.105	<0.430	0.767 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-05D	12/7/2022	N	EM04	UMCf	98.2 - 108.2	<0.105	<0.430	0.757 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-05D	1/11/2023	N	EM05	UMCf	98.2 - 108.2	<0.105	<0.430	0.566 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-05D	2/14/2023	N	EM06	UMCf	98.2 - 108.2	<10.5	<43.0	<43.0	<100	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5
U4-MW-05D	3/16/2023	N	EM07	UMCf	98.2 - 108.2	<10.5	<43.0	<43.0	<100	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5
U4-MW-05D	4/20/2023	N	EM08	UMCf	98.2 - 108.2	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-05D	5/10/2023	N	EM09	UMCf	98.2 - 108.2	<0.105	<0.430	4.02 J	<1.00	<0.157	<0.0993	<0.174 UJ	<0.120	<0.125	<0.118	<0.195
U4-MW-05D	6/15/2023	N	EM10	UMCf	98.2 - 108.2	<0.105	<0.430	7.82	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-05D	7/18/2023	N	EM11	UMCf	98.2 - 108.2	<0.105	<0.430	6.87	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-05D	8/14/2023	N	EM12	UMCf	98.2 - 108.2	<2.63	<10.7	<10.7	<25.0	<3.93	<2.48	<4.35 UJ	<3.00	<3.13	<2.95	<4.88
U4-MW-05D	9/12/2023	N	EM13	UMCf	98.2 - 108.2	<2.63	<10.7	<10.7	<25.0	<3.93	<2.48	<4.35	<3.00	<3.13	<2.95	<4.88
U4-MW-05D	10/18/2023	N	EM14	UMCf	98.2 - 108.2	<2.63	<10.7	<10.7	<25.0	<3.93	<2.48	<4.35	<3.00	<3.13	<2.95	<4.88
U4-MW-05D	11/16/2023	N	EM15	UMCf	98.2 - 108.2	<2.63	<10.7	<10.7	<25.0 UJ	<3.93	<2.48	<4.35	<3.00	<3.13	<2.95	<4.88
U4-MW-05D	12/14/2023	N	EM16	UMCf	98.2 - 108.2	<2.63	<10.7	<10.7	<25.0	<3.93	<2.48	<4.35	<3.00	<3.13	<2.95	<4.88
U4-MW-05D	1/26/2024	N	EM17	UMCf	98.2 - 108.2	<0.105	<0.430	4.45 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-05D	2/14/2024	N	EM18	UMCf	98.2 - 108.2	<0.105	<0.430	3.87	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-05D	3/12/2024	N	EM19	UMCf	98.2 - 108.2	<2.63	<10.7	<10.7	<25.0	<3.93	<2.48	<4.35	<3.00	<3.13	<2.95	<4.88
U4-MW-05D	6/18/2024	N	EM20	UMCf	98.2 - 108.2	<0.105	<0.430	5.35	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-05D	9/25/2024	N	EM21	UMCf	98.2 - 108.2	<5.25 UJ	<21.5 UJ	<21.5 UJ	<50.0 UJ	<7.85 UJ	<4.97 UJ	<8.70 UJ	<6.00 UJ	<6.25 UJ	<5.90 UJ	<9.75 UJ
U4-MW-05I	4/15/2022	N	BL02	UMCf	76.6 - 86.6	<0.105	<0.430	<0.430	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-05I	10/13/2022	N	EM02	UMCf	76.6 - 86.6	<10.5	<43.0	<43.0	<100 UJ	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5
U4-MW-05I	11/3/2022	N	EM03	UMCf	76.6 - 86.6	<0.105	<0.430	0.570 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-05I	12/8/2022	N	EM04	UMCf	76.6 - 86.6	<0.105	<0.430	0.635 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-05I	1/11/2023	N	EM05	UMCf	76.6 - 86.6	<0.105	<0.430	0.474 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-05I	2/14/2023	N	EM06	UMCf	76.6 - 86.6	<10.5	<43.0	<43.0	<100	<15.7	<9.93 UJ	<17.4	<12.0	<12.5	<11.8	<19.5
U4-MW-05I	3/14/2023	N	EM07	UMCf	76.6 - 86.6	<10.5	<43.0	<43.0	<100	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5
U4-MW-05I	4/21/2023	N	EM08	UMCf	76.6 - 86.6	<0.105	<0.430	0.722 J	<1.00	<0.157	<0.0993	<0.174 UJ	<0.120	<0.125	<0.118	<0.195
U4-MW-05I	5/10/2023	N	EM09	UMCf	76.6 - 86.6	<0.105	<0.430	32.9	<1.00	<0.157	<0.0993	<0.174 UJ	<0.120	<0.125	<0.118	<0.195
U4-MW-05I	6/15/2023	N	EM10	UMCf	76.6 - 86.6	<0.105	<0.430	17.1	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-05I	7/17/2023	N	EM11	UMCf	76.6 - 86.6	<0.105	<0.430	10.5	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-05I	8/14/2023	N	EM12	UMCf	76.6 - 86.6	<5.25	<21.5	<21.5	<50.0	<7.85	<4.97	<8.70 UJ	<6.00	<6.25	<5.90	<9.75
U4-MW-05I	9/13/2023	N	EM13	UMCf	76.6 - 86.6	<0.105	<0.430	9.65	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195
U4-MW-05I	10/18/2023	N	EM14	UMCf	76.6 - 86.6	<5.25	<21.5	<21.5	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75
U4-MW-05I	11/15/2023	N	EM15	UMCf	76.6 - 86.6	<5.25	<21.5	<21.5	<50.0 UJ	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75
U4-MW-05I	12/12/2023	N	EM16	UMCf	76.6 - 86.6	<0.105	<0.430	8.12	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Isopropylbenzene	m,p-Xylene (Sum of Isomers)	Methylene Chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p-Cymene (p-Isopropyltoluene)	sec-Butylbenzene	Styrene	tert-Amyl Methyl Ether
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-05I	1/26/2024	N	EM17	UMCf	76.6 - 86.6	<0.105	<0.430	5.12	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-05I	2/14/2024	N	EM18	UMCf	76.6 - 86.6	<0.105	<0.430	4.40	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-05I	3/11/2024	N	EM19	UMCf	76.6 - 86.6	<0.105	<0.430	5.86	<1.00	<0.157 UJ	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-05I	6/18/2024	N	EM20	UMCf	76.6 - 86.6	<0.105	<0.430	4.73 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-05I	9/25/2024	N	EM21	UMCf	76.6 - 86.6	<10.5	<43.0	<43.0	<100	<15.7 UJ	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5
U4-MW-06D	4/19/2022	N	BL02	UMCf	97.1 - 107.1	<0.105	<0.430	1.58 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-06D	2/15/2023	N	EM06	UMCf	97.1 - 107.1	<5.25	<21.5	<21.5	<50.0 UJ	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75 UJ
U4-MW-06D	3/21/2023	N	EM07	UMCf	97.1 - 107.1	<0.105	<0.430	0.567 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-06D	6/16/2023	N	EM10	UMCf	97.1 - 107.1	<0.105	<0.430	0.542 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-06D	9/13/2023	N	EM13	UMCf	97.1 - 107.1	<0.105	<0.430	4.45 J	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195
U4-MW-06D	12/13/2023	N	EM16	UMCf	97.1 - 107.1	<0.105	<0.430	3.87 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-06D	3/14/2024	N	EM19	UMCf	97.1 - 107.1	<5.25	<21.5	<21.5	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75
U4-MW-06D	6/12/2024	N	EM20	UMCf	97.1 - 107.1	<0.105	<0.430	3.26 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-06D	9/20/2024	N	EM21	UMCf	97.1 - 107.1	<1.05	<4.30	4.35 J	<10.0 UJ	<1.57 UJ	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95
U4-MW-06I	4/19/2022	N	BL02	UMCf	76.5 - 86.5	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-06I	3/14/2023	N	EM07	UMCf	76.5 - 86.5	<0.105	<0.430	0.560 J	<50.0	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-06I	6/16/2023	N	EM10	UMCf	76.5 - 86.5	<0.105	<0.430	1.28 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-06I	9/12/2023	N	EM13	UMCf	76.5 - 86.5	<5.25	<21.5	<21.5	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75
U4-MW-06I	12/12/2023	N	EM16	UMCf	76.5 - 86.5	<0.105	<0.430	2.87 J	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-06I	3/14/2024	N	EM19	UMCf	76.5 - 86.5	<10.5	<43.0	<43.0	<100	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5
U4-MW-06I	6/11/2024	N	EM20	UMCf	76.5 - 86.5	<0.105	<0.430	3.32 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-06I	9/20/2024	N	EM21	UMCf	76.5 - 86.5	<2.63	<10.7	<10.7	<25.0 UJ	<3.93 UJ	<2.48	<4.35	<3.00	<3.13	<2.95	<4.88
U4-MW-07D	4/15/2022	N	BL02	UMCf	96.8 - 106.5	<0.105	<0.430	<0.430	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-07D	10/12/2022	N	EM02	UMCf	96.8 - 106.5	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	0.181 J	<0.120	<0.125	<0.118	<0.195
U4-MW-07D	10/12/2022	FD	EM02	UMCf	96.8 - 106.5	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-07D	11/3/2022	N	EM03	UMCf	96.8 - 106.5	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-07D	12/7/2022	N	EM04	UMCf	96.8 - 106.5	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-07D	1/11/2023	N	EM05	UMCf	96.8 - 106.5	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-07D	2/14/2023	N	EM06	UMCf	96.8 - 106.5	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-07D	3/16/2023	N	EM07	UMCf	96.8 - 106.5	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-07D	4/21/2023	N	EM08	UMCf	96.8 - 106.5	<0.105	<0.430	1.37 J	<1.00	<0.157	<0.0993	<0.174 UJ	<0.120	<0.125	<0.118	<0.195
U4-MW-07D	5/11/2023	N	EM09	UMCf	96.8 - 106.5	<0.105	<0.430	11.0	<1.00	<0.157	<0.0993	<0.174 UJ	<0.120	<0.125	<0.118	<0.195
U4-MW-07D	6/13/2023	N	EM10	UMCf	96.8 - 106.5	<0.105 UJ	<0.430 UJ	2.86 J	<1.00 UJ	<0.157 UJ	<0.0993 UJ	<0.174 UJ	<0.120 UJ	<0.125 UJ	<0.118 UJ	<0.195 UJ
U4-MW-07D	7/17/2023	N	EM11	UMCf	96.8 - 106.5	<0.105	<0.430	3.05 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-07D	8/11/2023	N	EM12	UMCf	96.8 - 106.5	<0.105	<0.430	8.31	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-07D	9/13/2023	N	EM13	UMCf	96.8 - 106.5	<0.105	<0.430	5.26	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195
U4-MW-07D	10/18/2023	N	EM14	UMCf	96.8 - 106.5	<10.5	<43.0	<43.0	<100	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5
U4-MW-07D	11/16/2023	N	EM15	UMCf	96.8 - 106.5	<10.5	<43.0	<43.0	<100 UJ	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5
U4-MW-07D	12/12/2023	N	EM16	UMCf	96.8 - 106.5	0.120 J	<0.430	4.57 J	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-07D	1/26/2024	N	EM17	UMCf	96.8 - 106.5	<0.105	<0.430	4.71 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-07D	2/13/2024	N	EM18	UMCf	96.8 - 106.5	<2.63	<10.7	<10.7	<25.0 UJ	<3.93	<2.48	<4.35	<3.00	<3.13	<2.95	<4.88
U4-MW-07D	3/11/2024	N	EM19	UMCf	96.8 - 106.5	<2.63	<10.7	<10.7	<25.0	<3.93 UJ	<2.48	<4.35	<3.00	<3.13	<2.95	<4.88
U4-MW-07D	6/12/2024	N	EM20	UMCf	96.8 - 106.5	<0.105	<0.430	3.58 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-07D	9/18/2024	N	EM21	UMCf	96.8 - 106.5	<0.105	<0.430	4.87 J	<1.00 UJ	<0.157	<0.0993 UJ	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-07I	4/15/2022	N	BL02	UMCf	76.8 - 86.8	<0.105	<0.430	<0.430	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-07I	10/12/2022	N	EM02	UMCf	76.8 - 86.8	<0.105	<0.430	0.478 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-07I	11/3/2022	N	EM03	UMCf	76.8 - 86.8	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Isopropylbenzene	m,p-Xylene (Sum of Isomers)	Methylene Chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p-Cymene (p-Isopropyltoluene)	sec-Butylbenzene	Styrene	tert-Amyl Methyl Ether
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-07I	12/7/2022	N	EM04	UMCf	76.8 - 86.8	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-07I	1/11/2023	N	EM05	UMCf	76.8 - 86.8	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-07I	2/15/2023	N	EM06	UMCf	76.8 - 86.8	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-07I	3/16/2023	N	EM07	UMCf	76.8 - 86.8	<0.525	<2.15	<2.15	<5.00	<0.785	<0.497	<0.870	<0.600	<0.625	<0.590	<0.975
U4-MW-07I	4/21/2023	N	EM08	UMCf	76.8 - 86.8	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174 UJ	<0.120	<0.125	<0.118	<0.195
U4-MW-07I	5/11/2023	N	EM09	UMCf	76.8 - 86.8	<0.105	<0.430	2.67 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-07I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<0.525	<2.15	8.82 J	<5.00	<0.785	<0.497	<0.870	<0.600	<0.625	<0.590	<0.975
U4-MW-07I	7/17/2023	N	EM11	UMCf	76.8 - 86.8	<0.105	<0.430	4.27 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-07I	8/11/2023	N	EM12	UMCf	76.8 - 86.8	<0.105	<0.430	10.9	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-07I	9/13/2023	N	EM13	UMCf	76.8 - 86.8	<0.105	<0.430	10.5	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195
U4-MW-07I	10/18/2023	N	EM14	UMCf	76.8 - 86.8	<5.25	<21.5	<21.5	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75
U4-MW-07I	11/16/2023	N	EM15	UMCf	76.8 - 86.8	<5.25	<21.5	<21.5	<50.0 UJ	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75
U4-MW-07I	12/11/2023	N	EM16	UMCf	76.8 - 86.8	<0.105	<0.430	8.19	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-07I	1/26/2024	N	EM17	UMCf	76.8 - 86.8	<0.105	<0.430	7.02	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-07I	2/13/2024	N	EM18	UMCf	76.8 - 86.8	<5.25	<21.5	<21.5	<50.0 UJ	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75
U4-MW-07I	3/11/2024	N	EM19	UMCf	76.8 - 86.8	<5.25	<21.5	<21.5	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75
U4-MW-07I	6/12/2024	N	EM20	UMCf	76.8 - 86.8	<0.105	<0.430	6.87	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-07I	9/18/2024	N	EM21	UMCf	76.8 - 86.8	<0.105	<0.430	5.23	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-08D	4/13/2022	N	BL02	UMCf	98.6 - 108.6	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-08D	12/7/2022	N	EM04	UMCf	98.6 - 108.6	<0.105	<0.430	0.846 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-08D	3/17/2023	N	EM07	UMCf	98.6 - 108.6	<10.5	<43.0	<43.0	<100 UJ	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5
U4-MW-08D	6/13/2023	N	EM10	UMCf	98.6 - 108.6	<0.105	<0.430	4.91 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-08D	9/13/2023	N	EM13	UMCf	98.6 - 108.6	<0.105	<0.430	1.64 J	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195
U4-MW-08D	12/11/2023	N	EM16	UMCf	98.6 - 108.6	<0.105	<0.430	2.12 J	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-08D	3/12/2024	N	EM19	UMCf	98.6 - 108.6	<21.0	<86.0	<86.0	<200	<31.4	<19.9	<34.8	<24.0	<25.0	<23.6	<39.0
U4-MW-08D	6/14/2024	N	EM20	UMCf	98.6 - 108.6	<21.0	<86.0	<86.0	<200	<31.4 UJ	<19.9	<34.8	<24.0	<25.0	<23.6 UJ	<39.0
U4-MW-08D	9/23/2024	N	EM21	UMCf	98.6 - 108.6	<0.105	<0.430	1.42 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-08DD	4/20/2022	N	BL02	UMCf	119.8 - 129.8	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-08DD	4/20/2022	FD	BL02	UMCf	119.8 - 129.8	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-08DD	12/8/2022	N	EM04	UMCf	119.8 - 129.8	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-08DD	3/15/2023	N	EM07	UMCf	119.8 - 129.8	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-08DD	6/14/2023	N	EM10	UMCf	119.8 - 129.8	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-08DD	9/14/2023	N	EM13	UMCf	119.8 - 129.8	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-08DD	12/14/2023	N	EM16	UMCf	119.8 - 129.8	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-08DD	3/14/2024	N	EM19	UMCf	119.8 - 129.8	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-08DD	6/12/2024	N	EM20	UMCf	119.8 - 129.8	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-08DD	9/20/2024	N	EM21	UMCf	119.8 - 129.8	<0.105	<0.430	<0.430	<1.00 UJ	<0.157 UJ	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-08I	4/13/2022	N	BL02	UMCf	78.0 - 88.0	<0.105	<0.430	1.14 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-08I	12/7/2022	N	EM04	UMCf	78.0 - 88.0	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-08I	12/7/2022	FD	EM04	UMCf	78.0 - 88.0	<0.105	<0.430	0.436 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-08I	3/17/2023	N	EM07	UMCf	78.0 - 88.0	<5.25	<21.5	<21.5	<50.0 UJ	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75
U4-MW-08I	6/13/2023	N	EM10	UMCf	78.0 - 88.0	<0.105	<0.430	1.94 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-08I	9/13/2023	N	EM13	UMCf	78.0 - 88.0	<0.105	<0.430	5.22	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195
U4-MW-08I	12/11/2023	N	EM16	UMCf	78.0 - 88.0	<0.105	<0.430	9.52 J+	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-08I	3/12/2024	N	EM19	UMCf	78.0 - 88.0	<10.5	<43.0	<43.0	<100	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5
U4-MW-08I	6/14/2024	N	EM20	UMCf	78.0 - 88.0	<10.5	<43.0	<43.0	<100	<15.7 UJ	<9.93	<17.4	<12.0	<12.5	<11.8 UJ	<19.5
U4-MW-08I	9/23/2024	N	EM21	UMCf	78.0 - 88.0	<0.105	<0.430	5.08	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Isopropylbenzene	m,p-Xylene (Sum of Isomers)	Methylene Chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p-Cymene (p-Isopropyltoluene)	sec-Butylbenzene	Styrene	tert-Amyl Methyl Ether
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-08S	4/15/2022	N	BL02	UMCf	54.9 - 64.9	<0.105	<0.430	<0.430	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-08S	12/7/2022	N	EM04	UMCf	54.9 - 64.9	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-08S	12/7/2022	FD	EM04	UMCf	54.9 - 64.9	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-08S	3/13/2023	N	EM07	UMCf	54.9 - 64.9	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-08S	3/13/2023	FD	EM07	UMCf	54.9 - 64.9	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-08S	6/13/2023	N	EM10	UMCf	54.9 - 64.9	<0.105	<0.430	2.53 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-08S	6/13/2023	FD	EM10	UMCf	54.9 - 64.9	<0.105	<0.430	2.59 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-08S	9/13/2023	N	EM13	UMCf	54.9 - 64.9	<0.105	<0.430	<0.430	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195
U4-MW-08S	9/13/2023	FD	EM13	UMCf	54.9 - 64.9	<0.105	<0.430	<0.430	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195
U4-MW-08S	12/14/2023	N	EM16	UMCf	54.9 - 64.9	<0.105	<0.430	3.66 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-08S	12/14/2023	FD	EM16	UMCf	54.9 - 64.9	<0.105	<0.430	3.81 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-08S	3/14/2024	N	EM19	UMCf	54.9 - 64.9	<0.210 UJ	<0.860 UJ	2.46 J	<2.00 UJ	<0.314 UJ	<0.199 UJ	<0.348 UJ	<0.240 UJ	<0.250 UJ	<0.236 UJ	<0.390 UJ
U4-MW-08S	3/14/2024	FD	EM19	UMCf	54.9 - 64.9	<0.210 UJ	<0.860 UJ	3.53 J	<2.00 UJ	<0.314 UJ	<0.199 UJ	<0.348 UJ	<0.240 UJ	<0.250 UJ	<0.236 UJ	<0.390 UJ
U4-MW-08S	3/25/2024	N	EM19	UMCf	54.9 - 64.9	<0.105	<0.430 UJ	0.481 J	<1.00 UJ	0.909 J	0.400 J	<0.174 UJ	<0.120	<0.125	<0.118	<0.195
U4-MW-08S	3/25/2024	FD	EM19	UMCf	54.9 - 64.9	<0.105	<0.430 UJ	0.528 J	1.20 J	<0.157	0.103 J	<0.174 UJ	<0.120	<0.125	<0.118	<0.195
U4-MW-08S	6/14/2024	N	EM20	UMCf	54.9 - 64.9	<0.105	<0.430	<0.430	<1.00	<0.157 UJ	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195
U4-MW-08S	6/14/2024	FD	EM20	UMCf	54.9 - 64.9	<0.105	<0.430	<0.430	<1.00	<0.157 UJ	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195
U4-MW-08S	9/20/2024	N	EM21	UMCf	54.9 - 64.9	<0.105	<0.430	<0.430	<1.00 UJ	<0.157 UJ	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-08S	9/20/2024	FD	EM21	UMCf	54.9 - 64.9	<0.105	<0.430	<0.430	<1.00 UJ	<0.157 UJ	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-09D	4/14/2022	N	BL02	UMCf	96.9 - 106.9	<0.105	<0.430	0.520 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-09D	12/6/2022	N	EM04	UMCf	96.9 - 106.9	<1.05 UJ	<4.30 UJ	<4.30 UJ	<10.0 UJ	<1.57 UJ	<0.993 UJ	<1.74 UJ	<1.20 UJ	<1.25 UJ	<1.18 UJ	<1.95 UJ
U4-MW-09D	3/16/2023	N	EM07	UMCf	96.9 - 106.9	<1.05	<4.30	<4.30	<10.0	<1.57	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95
U4-MW-09D	6/14/2023	N	EM10	UMCf	96.9 - 106.9	<0.105	<0.430	14.8	<1.00	<0.157	<0.993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-09D	9/12/2023	N	EM13	UMCf	96.9 - 106.9	<0.105	<0.430	2.81 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-09D	12/15/2023	N	EM16	UMCf	96.9 - 106.9	<2.63 UJ	12.4 J	<10.7 UJ	<25.0 UJ	<3.93 UJ	5.03 J	<4.35 UJ	<3.00 UJ	<3.13 UJ	<2.95 UJ	<4.88 UJ
U4-MW-09D	3/13/2024	N	EM19	UMCf	96.9 - 106.9	<0.105	<0.430	6.06 J+	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-09D	6/13/2024	N	EM20	UMCf	96.9 - 106.9	<0.105	<0.430	5.41 J+	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-09D	9/19/2024	N	EM21	UMCf	96.9 - 106.9	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-09DD	4/14/2022	N	BL02	UMCf	119.8 - 129.8	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-09DD	12/6/2022	N	EM04	UMCf	119.8 - 129.8	<0.105 UJ	<0.430 UJ	<0.430 UJ	<1.00 UJ	<0.157 UJ	<0.0993 UJ	<0.174 UJ	<0.120 UJ	<0.125 UJ	<0.118 UJ	<0.195 UJ
U4-MW-09DD	3/21/2023	N	EM07	UMCf	119.8 - 129.8	<0.105	<0.430	<0.430	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-09DD	6/15/2023	N	EM10	UMCf	119.8 - 129.8	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-09DD	9/13/2023	N	EM13	UMCf	119.8 - 129.8	<0.105	<0.430	1.83 J	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195
U4-MW-09DD	12/13/2023	N	EM16	UMCf	119.8 - 129.8	<0.105	<0.430	0.464 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-09DD	3/14/2024	N	EM19	UMCf	119.8 - 129.8	<0.105	<0.430	1.18 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-09DD	6/13/2024	N	EM20	UMCf	119.8 - 129.8	<0.105	<0.430	0.650 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-09DD	9/20/2024	N	EM21	UMCf	119.8 - 129.8	<0.105	<0.430	<0.430	<1.00 UJ	<0.157 UJ	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-09I	4/14/2022	N	BL02	UMCf	76.8 - 86.8	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	0.326 J	<0.120	<0.125	<0.118	<0.195
U4-MW-09I	12/6/2022	N	EM04	UMCf	76.8 - 86.8	<1.05 UJ	<4.30 UJ	<4.30 UJ	<10.0 UJ	<1.57 UJ	<0.993 UJ	<1.74 UJ	<1.20 UJ	<1.25 UJ	<1.18 UJ	<1.95 UJ
U4-MW-09I	3/16/2023	N	EM07	UMCf	76.8 - 86.8	<1.05	<4.30	<4.30	<10.0	<1.57	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95
U4-MW-09I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<0.105	<0.430	6.76	<10.0	<0.157	<0.993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-09I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	<0.105	<0.430	3.08 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-09I	12/15/2023	N	EM16	UMCf	76.8 - 86.8	<2.63 UJ	<10.7 UJ	<10.7 UJ	<25.0 UJ	<3.93 UJ	<2.48 UJ	<4.35 UJ	<3.00 UJ	<3.13 UJ	<2.95 UJ	<4.88 UJ
U4-MW-09I	3/13/2024	N	EM19	UMCf	76.8 - 86.8	<0.105	<0.430	4.60 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-09I	6/13/2024	N	EM20	UMCf	76.8 - 86.8	<0.105	<0.430	1.27 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-09I	9/19/2024	N	EM21	UMCf	76.8 - 86.8	<0.105	<0.430	1.87 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-09S	4/14/2022	N	BL02	UMCf	55.3 - 65.3	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Isopropylbenzene	m,p-Xylene (Sum of Isomers)	Methylene Chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p-Cymene (p-Isopropyltoluene)	sec-Butylbenzene	Styrene	tert-Amyl Methyl Ether
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-09S	12/6/2022	N	EM04	UMCf	55.3 - 65.3	<0.105 UJ	<0.430 UJ	<0.430 UJ	<1.00 UJ	<0.157 UJ	<0.0993 UJ	<0.174 UJ	<0.120 UJ	<0.125 UJ	<0.118 UJ	<0.195 UJ
U4-MW-09S	3/17/2023	N	EM07	UMCf	55.3 - 65.3	<0.105	<0.430	<0.430	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-09S	6/15/2023	N	EM10	UMCf	55.3 - 65.3	<0.105	<0.430	1.06 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-09S	9/13/2023	N	EM13	UMCf	55.3 - 65.3	<0.105	<0.430	2.16 J	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195
U4-MW-09S	12/12/2023	N	EM16	UMCf	55.3 - 65.3	<0.105	<0.430	18.5	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-09S	3/13/2024	N	EM19	UMCf	55.3 - 65.3	<0.105	<0.430	5.94 J+	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-09S	6/13/2024	N	EM20	UMCf	55.3 - 65.3	<0.105	<0.430	0.948 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-09S	9/19/2024	N	EM21	UMCf	55.3 - 65.3	<0.105	<0.430	1.47 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-10D	4/14/2022	N	BL02	UMCf	96.9 - 106.9	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-10D	12/5/2022	N	EM04	UMCf	96.9 - 106.9	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-10D	3/17/2023	N	EM07	UMCf	96.9 - 106.9	<0.105	<0.430	1.73 J	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-10D	6/14/2023	N	EM10	UMCf	96.9 - 106.9	<0.105	<0.430	0.683 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-10D	9/13/2023	N	EM13	UMCf	96.9 - 106.9	<0.105	<0.430	0.930 J	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195
U4-MW-10D	12/14/2023	N	EM16	UMCf	96.9 - 106.9	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-10D	3/14/2024	N	EM19	UMCf	96.9 - 106.9	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-10D	6/11/2024	N	EM20	UMCf	96.9 - 106.9	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-10D	9/26/2024	N	EM21	UMCf	96.9 - 106.9	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-10I	4/14/2022	N	BL02	UMCf	77.1 - 87.1	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-10I	12/5/2022	N	EM04	UMCf	77.1 - 87.1	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-10I	3/17/2023	N	EM07	UMCf	77.1 - 87.1	<0.105	<0.430	4.66 J	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-10I	6/14/2023	N	EM10	UMCf	77.1 - 87.1	<0.105	<0.430	0.757 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-10I	9/13/2023	N	EM13	UMCf	77.1 - 87.1	<0.105	<0.430	1.26 J	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195
U4-MW-10I	12/14/2023	N	EM16	UMCf	77.1 - 87.1	<0.105	<0.430	0.922 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-10I	3/13/2024	N	EM19	UMCf	77.1 - 87.1	<0.105	<0.430	1.21 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-10I	6/11/2024	N	EM20	UMCf	77.1 - 87.1	<0.105	<0.430	<0.430	<10.0	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-10I	9/25/2024	N	EM21	UMCf	77.1 - 87.1	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-11D	4/15/2022	N	BL02	UMCf	97.4 - 107.4	<0.105	<0.430	0.565 J	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-11D	9/26/2022	N	EM01	UMCf	97.4 - 107.4	<5.25	<21.5	<21.5	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75
U4-MW-11D	10/11/2022	N	EM02	UMCf	97.4 - 107.4	<1.05	<4.30	<4.30	<10.0	<1.57	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95
U4-MW-11D	11/1/2022	N	EM03	UMCf	97.4 - 107.4	<5.25	<21.5	<21.5	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75
U4-MW-11D	12/6/2022	N	EM04	UMCf	97.4 - 107.4	<2.63 UJ	<10.7 UJ	<10.7 UJ	<25.0 UJ	<3.93 UJ	<2.48 UJ	<4.35 UJ	<3.00 UJ	<3.13 UJ	<2.95 UJ	<4.88 UJ
U4-MW-11D	1/12/2023	N	EM05	UMCf	97.4 - 107.4	<21.0	<86.0	<86.0	<200	<31.4	<19.9	<34.8	<24.0	<25.0	<23.6	<39.0
U4-MW-11D	2/14/2023	N	EM06	UMCf	97.4 - 107.4	<21.0	<86.0	<86.0	<200	<31.4	<19.9 UJ	<34.8	<24.0	<25.0	<23.6	<39.0
U4-MW-11D	3/16/2023	N	EM07	UMCf	97.4 - 107.4	<21.0	<86.0	<86.0	<200	<31.4	<19.9	<34.8	<24.0	<25.0	<23.6	<39.0
U4-MW-11D	4/18/2023	N	EM08	UMCf	97.4 - 107.4	<0.525	<2.15	<2.15	<5.00	<0.785	<0.497	<0.870	<0.600	<0.625	<0.590	<0.975
U4-MW-11D	5/17/2023	N	EM09	UMCf	97.4 - 107.4	<2.10 UJ	<8.60 UJ	<8.60 UJ	<20.0 UJ	<3.14 UJ	<1.99 UJ	<3.48 UJ	<2.40 UJ	<2.50 UJ	<2.36 UJ	<3.90 UJ
U4-MW-11D	6/16/2023	N	EM10	UMCf	97.4 - 107.4	<0.105	<0.430	1.39 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-11D	7/14/2023	N	EM11	UMCf	97.4 - 107.4	<0.105	<0.430	1.81 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-11D	8/14/2023	N	EM12	UMCf	97.4 - 107.4	<21.0	<86.0	<86.0	<200 UJ	<31.4	<19.9	<34.8	<24.0	<25.0	<23.6	<39.0
U4-MW-11D	9/13/2023	N	EM13	UMCf	97.4 - 107.4	<0.105	<0.430	2.98 J	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195
U4-MW-11D	10/18/2023	N	EM14	UMCf	97.4 - 107.4	<21.0	<86.0	<86.0	<200	<31.4	<19.9	<34.8	<24.0	<25.0	<23.6	<39.0
U4-MW-11D	11/16/2023	N	EM15	UMCf	97.4 - 107.4	<5.25	<21.5	<21.5	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75
U4-MW-11D	12/13/2023	N	EM16	UMCf	97.4 - 107.4	<0.105	<0.430	2.67 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-11D	1/25/2024	N	EM17	UMCf	97.4 - 107.4	<0.105	<0.430	2.64 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-11D	2/14/2024	N	EM18	UMCf	97.4 - 107.4	<0.105	<0.430	2.51	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-11D	3/12/2024	N	EM19	UMCf	97.4 - 107.4	<10.5	<43.0	<43.0	<100	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5
U4-MW-11D	6/12/2024	N	EM20	UMCf	97.4 - 107.4	<0.105	<0.430	2.05 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Isopropylbenzene	m,p-Xylene (Sum of Isomers)	Methylene Chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p-Cymene (p-Isopropyltoluene)	sec-Butylbenzene	Styrene	tert-Amyl Methyl Ether
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-11D	9/23/2024	N	EM21	UMCf	97.4 - 107.4	<0.105	<0.430	3.03 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-11I	4/14/2022	N	BL02	UMCf	77.0 - 87.0	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118 R	<0.195
U4-MW-11I	9/26/2022	N	EM01	UMCf	77.0 - 87.0	<0.105	<0.430	0.707 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-11I	9/26/2022	FD	EM01	UMCf	77.0 - 87.0	<0.105	<0.430	0.866 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-11I	10/10/2022	N	EM02	UMCf	77.0 - 87.0	<1.05	<4.30	5.54 J	<10.0	<1.57	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95
U4-MW-11I	10/10/2022	FD	EM02	UMCf	77.0 - 87.0	<0.105	<0.430	2.44 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-11I	10/31/2022	N	EM03	UMCf	77.0 - 87.0	<0.525	<2.15	12.9 J	<5.00	<0.785	<0.497	<0.870	<0.600	<0.625	<0.590	<0.975
U4-MW-11I	10/31/2022	FD	EM03	UMCf	77.0 - 87.0	<0.105	<0.430	14.6	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-11I	12/6/2022	N	EM04	UMCf	77.0 - 87.0	<0.105 UJ	<0.430 UJ	5.79 J+	<1.00 UJ	<0.157 UJ	<0.0993 UJ	<0.174 UJ	<0.120 UJ	<0.125 UJ	<0.118 UJ	<0.195 UJ
U4-MW-11I	12/6/2022	FD	EM04	UMCf	77.0 - 87.0	<0.105 UJ	<0.430 UJ	6.35	<1.00 UJ	<0.157 UJ	<0.0993 UJ	<0.174 UJ	<0.120 UJ	<0.125 UJ	<0.118 UJ	<0.195 UJ
U4-MW-11I	1/12/2023	N	EM05	UMCf	77.0 - 87.0	<0.105	<0.430	0.544 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-11I	1/12/2023	FD	EM05	UMCf	77.0 - 87.0	<0.105	<0.430	0.510 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-11I	2/14/2023	N	EM06	UMCf	77.0 - 87.0	<0.105	<0.430	1.58 J	<1.00	<0.157	<0.0993 UJ	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-11I	2/14/2023	FD	EM06	UMCf	77.0 - 87.0	<0.105	<0.430	1.64 J	<1.00	<0.157	<0.0993 UJ	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-11I	3/16/2023	N	EM07	UMCf	77.0 - 87.0	<0.105	<0.430	2.13 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-11I	3/16/2023	FD	EM07	UMCf	77.0 - 87.0	<0.105	<0.430	2.47 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-11I	4/18/2023	N	EM08	UMCf	77.0 - 87.0	<0.105	<0.430	8.45	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-11I	4/18/2023	FD	EM08	UMCf	77.0 - 87.0	<0.105	<0.430	8.69	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-11I	5/19/2023	N	EM09	UMCf	77.0 - 87.0	<0.105 UJ	<0.430 UJ	3.38 J	<1.00 UJ	<0.157 UJ	<0.0993 UJ	<0.174 UJ	<0.120 UJ	<0.125 UJ	<0.118 UJ	<0.195 UJ
U4-MW-11I	5/19/2023	FD	EM09	UMCf	77.0 - 87.0	<0.105 UJ	<0.430 UJ	3.38 J	<1.00 UJ	<0.157 UJ	<0.0993 UJ	<0.174 UJ	<0.120 UJ	<0.125 UJ	<0.118 UJ	<0.195 UJ
U4-MW-11I	6/15/2023	N	EM10	UMCf	77.0 - 87.0	<0.105	<0.430	1.14 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-11I	6/15/2023	FD	EM10	UMCf	77.0 - 87.0	<0.105	<0.430	1.32 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-11I	7/13/2023	N	EM11	UMCf	77.0 - 87.0	<0.105	<0.430	0.555 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-11I	7/13/2023	FD	EM11	UMCf	77.0 - 87.0	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-11I	8/14/2023	N	EM12	UMCf	77.0 - 87.0	<0.105	<0.430	2.78 J	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-11I	8/14/2023	FD	EM12	UMCf	77.0 - 87.0	<0.105	<0.430	2.57 J	<1.00	<0.157	<0.0993	<0.174 UJ	<0.120	<0.125	<0.118	<0.195
U4-MW-11I	9/13/2023	N	EM13	UMCf	77.0 - 87.0	<0.105	<0.430	3.48 J	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195
U4-MW-11I	9/13/2023	FD	EM13	UMCf	77.0 - 87.0	<0.105	<0.430	3.82 J	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195
U4-MW-11I	10/19/2023	N	EM14	UMCf	77.0 - 87.0	<0.105	<0.430	2.71 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<5.90	<0.195
U4-MW-11I	10/19/2023	FD	EM14	UMCf	77.0 - 87.0	<0.105	<0.430	2.95 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<5.90	<0.195
U4-MW-11I	11/16/2023	N	EM15	UMCf	77.0 - 87.0	<5.25	<21.5	<21.5	<50.0 UJ	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75
U4-MW-11I	11/16/2023	FD	EM15	UMCf	77.0 - 87.0	<5.25	<21.5	<21.5	<50.0 UJ	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75
U4-MW-11I	12/13/2023	N	EM16	UMCf	77.0 - 87.0	<0.105	<0.430	2.21 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-11I	12/13/2023	FD	EM16	UMCf	77.0 - 87.0	<0.105	<0.430	2.28 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-11I	1/25/2024	N	EM17	UMCf	77.0 - 87.0	<0.105	<0.430	1.92 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-11I	1/25/2024	FD	EM17	UMCf	77.0 - 87.0	<0.105	<0.430	1.86 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-11I	2/14/2024	N	EM18	UMCf	77.0 - 87.0	<5.25	<21.5	<21.5	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75
U4-MW-11I	2/14/2024	FD	EM18	UMCf	77.0 - 87.0	<5.25	<21.5	<21.5	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75
U4-MW-11I	3/13/2024	N	EM19	UMCf	77.0 - 87.0	<0.105	<0.430	2.23 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-11I	3/13/2024	FD	EM19	UMCf	77.0 - 87.0	<0.105	<0.430	2.51 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-11I	6/12/2024	N	EM20	UMCf	77.0 - 87.0	<0.105	<0.430	1.86 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-11I	6/12/2024	FD	EM20	UMCf	77.0 - 87.0	<0.105	<0.430	2.15 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-11I	9/23/2024	N	EM21	UMCf	77.0 - 87.0	<0.105	<0.430	2.02 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-11I	9/23/2024	FD	EM21	UMCf	77.0 - 87.0	<0.105	<0.430	1.91 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-12D	4/15/2022	N	BL02	UMCf	97.1 - 107.1	<0.105	<0.430	0.639 J	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-12D	9/27/2022	N	EM01	UMCf	97.1 - 107.1	<2.10	<8.60	<8.60	<20.0	<3.14	<1.99	<3.48	<2.40	<2.50	<2.36	<3.90
U4-MW-12D	10/12/2022	N	EM02	UMCf	97.1 - 107.1	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Isopropylbenzene	m,p-Xylene (Sum of Isomers)	Methylene Chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p-Cymene (p-Isopropyltoluene)	sec-Butylbenzene	Styrene	tert-Amyl Methyl Ether
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-12D	11/2/2022	N	EM03	UMCf	97.1 - 107.1	<1.05	<4.30	<4.30	<10.0	<1.57	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95
U4-MW-12D	12/7/2022	N	EM04	UMCf	97.1 - 107.1	<0.105	<0.430	1.31 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-12D	1/12/2023	N	EM05	UMCf	97.1 - 107.1	<10.5	<43.0	<43.0	<100	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5
U4-MW-12D	2/15/2023	N	EM06	UMCf	97.1 - 107.1	<10.5	<43.0	<43.0	<100 UJ	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5 UJ
U4-MW-12D	3/14/2023	N	EM07	UMCf	97.1 - 107.1	<5.25	<21.5	<21.5	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75
U4-MW-12D	4/17/2023	N	EM08	UMCf	97.1 - 107.1	<0.525 UJ	<2.15 UJ	<2.15 UJ	<5.00 UJ	<0.785 UJ	<0.497 UJ	<0.870 UJ	<0.600 UJ	<0.625 UJ	<0.590 UJ	<0.975 UJ
U4-MW-12D	5/17/2023	N	EM09	UMCf	97.1 - 107.1	<10.5	<43.0	<43.0	<100	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5
U4-MW-12D	6/16/2023	N	EM10	UMCf	97.1 - 107.1	<0.105	<0.430	0.654 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-12D	7/13/2023	N	EM11	UMCf	97.1 - 107.1	<0.105	<0.430	0.698 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-12D	8/14/2023	N	EM12	UMCf	97.1 - 107.1	<5.25	<21.5	<21.5	<50.0	<7.85	<4.97	<8.70 UJ	<6.00	<6.25	<5.90	<9.75
U4-MW-12D	9/12/2023	N	EM13	UMCf	97.1 - 107.1	<5.25	<21.5	<21.5	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75
U4-MW-12D	10/17/2023	N	EM14	UMCf	97.1 - 107.1	<0.525	<2.15	<2.15	<5.00	<0.785	<0.497	<0.870	<0.600	<0.625	<0.590	<0.975
U4-MW-12D	11/15/2023	N	EM15	UMCf	97.1 - 107.1	<0.525	<2.15	<2.15	<5.00 UJ	<0.785	<0.497	<0.870	<0.600	<0.625	<0.590	<0.975
U4-MW-12D	12/12/2023	N	EM16	UMCf	97.1 - 107.1	<0.105	<0.430	1.96 J	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-12D	1/24/2024	N	EM17	UMCf	97.1 - 107.1	<0.105	<0.430	2.77 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-12D	2/13/2024	N	EM18	UMCf	97.1 - 107.1	<2.10	<8.60	<8.60	<20.0 UJ	<3.14	<1.99	<3.48	<2.40	<2.50	<2.36	<3.90
U4-MW-12D	3/12/2024	N	EM19	UMCf	97.1 - 107.1	<2.10	<8.60	<8.60	<20.0	<3.14	<1.99	<3.48	<2.40	<2.50	<2.36	<3.90
U4-MW-12D	6/12/2024	N	EM20	UMCf	97.1 - 107.1	<0.105	<0.430	1.53 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-12D	9/24/2024	N	EM21	UMCf	97.1 - 107.1	<0.105	<0.430	1.83 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-12I	4/14/2022	N	BL02	UMCf	76.8 - 86.8	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-12I	4/14/2022	FD	BL02	UMCf	76.8 - 86.8	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-12I	9/27/2022	N	EM01	UMCf	76.8 - 86.8	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195
U4-MW-12I	10/12/2022	N	EM02	UMCf	76.8 - 86.8	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-12I	11/2/2022	N	EM03	UMCf	76.8 - 86.8	<0.105	<0.430	1.52 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-12I	12/7/2022	N	EM04	UMCf	76.8 - 86.8	<0.105	<0.430	4.69 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-12I	12/7/2022	FD	EM04	UMCf	76.8 - 86.8	<0.105	<0.430	4.62 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-12I	1/13/2023	N	EM05	UMCf	76.8 - 86.8	<0.105	<0.430	1.37 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-12I	2/15/2023	N	EM06	UMCf	76.8 - 86.8	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-12I	3/13/2023	N	EM07	UMCf	76.8 - 86.8	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-12I	4/17/2023	N	EM08	UMCf	76.8 - 86.8	<0.105 UJ	<0.430 UJ	<0.430 UJ	<1.00 UJ	<0.157 UJ	<0.0993 UJ	<0.174 UJ	<0.120 UJ	<0.125 UJ	<0.118 UJ	<0.195 UJ
U4-MW-12I	5/17/2023	N	EM09	UMCf	76.8 - 86.8	<0.105	<0.430	1.17 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-12I	6/16/2023	N	EM10	UMCf	76.8 - 86.8	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-12I	7/11/2023	N	EM11	UMCf	76.8 - 86.8	<0.105	<0.430	1.11 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-12I	8/14/2023	N	EM12	UMCf	76.8 - 86.8	<0.105	<0.430	1.55 J	<1.00	<0.157	<0.0993	<0.174 UJ	<0.120	<0.125	<0.118	<0.195
U4-MW-12I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	<0.105	<0.430	3.98 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-12I	10/17/2023	N	EM14	UMCf	76.8 - 86.8	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-12I	11/16/2023	N	EM15	UMCf	76.8 - 86.8	<0.105	<0.430	3.92 J	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-12I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	<0.105	<0.430	3.23 J	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-12I	1/24/2024	N	EM17	UMCf	76.8 - 86.8	<0.105	<0.430	2.10 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-12I	2/13/2024	N	EM18	UMCf	76.8 - 86.8	<2.10	<8.60	<8.60	<20.0 UJ	<3.14	<1.99	<3.48	<2.40	<2.50	<2.36	<3.90
U4-MW-12I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	<2.10	<8.60	<8.60	<20.0	<3.14	<1.99	<3.48	<2.40	<2.50	<2.36	<3.90
U4-MW-12I	6/13/2024	N	EM20	UMCf	76.8 - 86.8	<0.105	<0.430	1.81 J	4.15 J-	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118 R	<0.195
U4-MW-12I	9/23/2024	N	EM21	UMCf	76.8 - 86.8	<0.105	<0.430	1.24 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195
U4-MW-13D	4/14/2022	N	BL02	UMCf	98.2 - 108.2	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-13D	9/28/2022	N	EM01	UMCf	98.2 - 108.2	<1.05	<4.30	5.02 J	<10.0	<1.57	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95
U4-MW-13D	10/11/2022	N	EM02	UMCf	98.2 - 108.2	<0.105	<0.430	0.543 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-13D	11/3/2022	N	EM03	UMCf	98.2 - 108.2	<0.105	<0.430	0.508 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Isopropylbenzene	m,p-Xylene (Sum of Isomers)	Methylene Chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p-Cymene (p-Isopropyltoluene)	sec-Butylbenzene	Styrene	tert-Amyl Methyl Ether
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-13D	12/7/2022	N	EM04	UMCf	98.2 - 108.2	<0.105	<0.430	0.439 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-13D	1/12/2023	N	EM05	UMCf	98.2 - 108.2	<2.10	<8.60	<8.60	<20.0	<3.14	<1.99	<3.48	<2.40	<2.50	<2.36	<3.90
U4-MW-13D	2/15/2023	N	EM06	UMCf	98.2 - 108.2	<0.105	<0.430	<0.430	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195 UJ
U4-MW-13D	3/17/2023	N	EM07	UMCf	98.2 - 108.2	<2.10	<8.60	<8.60	<20.0 UJ	<3.14	<1.99	<3.48	<2.40	<2.50	<2.36	<3.90
U4-MW-13D	4/18/2023	N	EM08	UMCf	98.2 - 108.2	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-13D	5/17/2023	N	EM09	UMCf	98.2 - 108.2	<2.10	<8.60	<8.60	<20.0	<3.14	<1.99	<3.48	<2.40	<2.50	<2.36	<3.90
U4-MW-13D	6/15/2023	N	EM10	UMCf	98.2 - 108.2	<0.105	<0.430	1.22 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-13D	7/12/2023	N	EM11	UMCf	98.2 - 108.2	<0.105	<0.430	2.99 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-13D	8/11/2023	N	EM12	UMCf	98.2 - 108.2	<0.105	<0.430	3.47 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-13D	9/11/2023	N	EM13	UMCf	98.2 - 108.2	<2.63	<10.7	<10.7	<25.0	<3.93	<2.48	<4.35	<3.00	<3.13	<2.95	<4.88
U4-MW-13D	10/18/2023	N	EM14	UMCf	98.2 - 108.2	<2.63	<10.7	<10.7	<25.0	<3.93	<2.48	<4.35	<3.00	<3.13	<2.95	<4.88
U4-MW-13D	11/15/2023	N	EM15	UMCf	98.2 - 108.2	<2.63	<10.7	<10.7	<25.0 UJ	<3.93	<2.48	<4.35	<3.00	<3.13	<2.95	<4.88
U4-MW-13D	12/11/2023	N	EM16	UMCf	98.2 - 108.2	<0.105	<0.430	3.09 J	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-13D	1/23/2024	N	EM17	UMCf	98.2 - 108.2	<0.105	<0.430	2.25 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-13D	2/12/2024	N	EM18	UMCf	98.2 - 108.2	<0.105	<0.430	2.09 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195
U4-MW-13D	3/11/2024	N	EM19	UMCf	98.2 - 108.2	<0.105	<0.430	2.68 J	<20.0	<0.157	0.202 J	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-13D	6/13/2024	N	EM20	UMCf	98.2 - 108.2	<0.105	<0.430	1.33 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-13D	9/20/2024	N	EM21	UMCf	98.2 - 108.2	<5.25	<21.5	<21.5	<50.0 UJ	<7.85 UJ	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75
U4-MW-13I	4/14/2022	N	BL02	UMCf	77.1 - 87.1	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-13I	9/28/2022	N	EM01	UMCf	77.1 - 87.1	<0.105	<0.430	<0.430	2.01 J	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-13I	10/10/2022	N	EM02	UMCf	77.1 - 87.1	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-13I	11/3/2022	N	EM03	UMCf	77.1 - 87.1	<0.105	<0.430	0.573 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-13I	12/6/2022	N	EM04	UMCf	77.1 - 87.1	<0.525 UJ	<2.15 UJ	7.70 J	<5.00 UJ	<0.785 UJ	<0.497 UJ	<0.870 UJ	<0.600 UJ	<0.625 UJ	<0.590 UJ	<0.975 UJ
U4-MW-13I	1/12/2023	N	EM05	UMCf	77.1 - 87.1	<0.105	<0.430	1.03 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-13I	2/14/2023	N	EM06	UMCf	77.1 - 87.1	<0.525	<2.15	<2.15	<5.00	<0.785	<0.497 UJ	<0.870	<0.600	<0.625	<0.590	<0.975
U4-MW-13I	3/16/2023	N	EM07	UMCf	77.1 - 87.1	<0.105	<0.430	0.861 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-13I	4/19/2023	N	EM08	UMCf	77.1 - 87.1	<0.105	<0.430	0.905 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-13I	5/17/2023	N	EM09	UMCf	77.1 - 87.1	<0.105	<0.430	0.645 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-13I	6/15/2023	N	EM10	UMCf	77.1 - 87.1	<0.105	<0.430	0.433 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-13I	7/12/2023	N	EM11	UMCf	77.1 - 87.1	<0.105	<0.430	0.610 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-13I	8/11/2023	N	EM12	UMCf	77.1 - 87.1	<0.105	<0.430	2.39 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-13I	9/11/2023	N	EM13	UMCf	77.1 - 87.1	<2.63	<10.7	<10.7	<25.0	<3.93	<2.48	<4.35	<3.00	<3.13	<2.95	<4.88
U4-MW-13I	10/17/2023	N	EM14	UMCf	77.1 - 87.1	<0.105	<0.430	3.40 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-13I	11/15/2023	N	EM15	UMCf	77.1 - 87.1	<0.105	<0.430	3.07 J	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-13I	12/11/2023	N	EM16	UMCf	77.1 - 87.1	<0.105	<0.430	2.52 J	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-13I	1/23/2024	N	EM17	UMCf	77.1 - 87.1	<0.105	<0.430	1.93 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-13I	2/12/2024	N	EM18	UMCf	77.1 - 87.1	<0.105	<0.430	1.82 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195
U4-MW-13I	3/11/2024	N	EM19	UMCf	77.1 - 87.1	<0.105	<0.430	1.96 J	<25.0	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-13I	6/13/2024	N	EM20	UMCf	77.1 - 87.1	<0.105	<0.430	1.45 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-13I	9/20/2024	N	EM21	UMCf	77.1 - 87.1	<5.25	<21.5	<21.5	<50.0 UJ	<7.85 UJ	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75
U4-MW-14D	4/13/2022	N	BL02	UMCf	97.3 - 107.3	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-14D	12/6/2022	N	EM04	UMCf	97.3 - 107.3	<0.525 UJ	<2.15 UJ	<2.15 UJ	<5.00 UJ	<0.785 UJ	<0.497 UJ	<0.870 UJ	<0.600 UJ	<0.625 UJ	<0.590 UJ	<0.975 UJ
U4-MW-14D	3/16/2023	N	EM07	UMCf	97.3 - 107.3	<0.525	<2.15	<2.15	<5.00	<0.785	<0.497	<0.870	<0.600	<0.625	<0.590	<0.975
U4-MW-14D	6/15/2023	N	EM10	UMCf	97.3 - 107.3	<0.105	<0.430	0.531 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-14D	9/14/2023	N	EM13	UMCf	97.3 - 107.3	<0.105	<0.430	0.964 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-14D	12/15/2023	N	EM16	UMCf	97.3 - 107.3	<0.105	<0.430	1.20 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-14D	3/13/2024	N	EM19	UMCf	97.3 - 107.3	<0.105	<0.430	0.964 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Isopropylbenzene	m,p-Xylene (Sum of Isomers)	Methylene Chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p-Cymene (p-Isopropyltoluene)	sec-Butylbenzene	Styrene	tert-Amyl Methyl Ether
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-14D	6/13/2024	N	EM20	UMCf	97.3 - 107.3	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-14D	9/19/2024	N	EM21	UMCf	97.3 - 107.3	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-14I	4/14/2022	N	BL02	UMCf	77.3 - 87.3	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-14I	12/6/2022	N	EM04	UMCf	77.3 - 87.3	<0.525 UJ	<2.15 UJ	<2.15 UJ	<5.00 UJ	<0.785 UJ	<0.497 UJ	<0.870 UJ	<0.600 UJ	<0.625 UJ	<0.590 UJ	<0.975 UJ
U4-MW-14I	3/16/2023	N	EM07	UMCf	77.3 - 87.3	<0.525	<2.15	<2.15	<5.00	<0.785	<0.497	<0.870	<0.600	<0.625	<0.590	<0.975
U4-MW-14I	6/15/2023	N	EM10	UMCf	77.3 - 87.3	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-14I	9/14/2023	N	EM13	UMCf	77.3 - 87.3	<0.105	<0.430	1.40 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-14I	12/14/2023	N	EM16	UMCf	77.3 - 87.3	<0.105	<0.430	1.62 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-14I	3/13/2024	N	EM19	UMCf	77.3 - 87.3	<0.105	<0.430	1.26 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-14I	6/14/2024	N	EM20	UMCf	77.3 - 87.3	<0.105	<0.430	0.970 J	<1.00	<0.157 UJ	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195
U4-MW-14I	9/19/2024	N	EM21	UMCf	77.3 - 87.3	<0.105	<0.430	0.827 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-15D	4/13/2022	N	BL02	UMCf	96.0 - 106.0	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-15D	12/5/2022	N	EM04	UMCf	96.0 - 106.0	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-15D	3/20/2023	N	EM07	UMCf	96.0 - 106.0	<0.105	<0.430	<0.430	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-15D	6/14/2023	N	EM10	UMCf	96.0 - 106.0	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-15D	9/13/2023	N	EM13	UMCf	96.0 - 106.0	<0.105	<0.430	<0.430	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195
U4-MW-15D	12/12/2023	N	EM16	UMCf	96.0 - 106.0	<0.105	<0.430	<0.430	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-15D	3/12/2024	N	EM19	UMCf	96.0 - 106.0	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-15D	6/14/2024	N	EM20	UMCf	96.0 - 106.0	<0.105	<0.430	<0.430	<1.00	<0.157 UJ	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195
U4-MW-15D	9/24/2024	N	EM21	UMCf	96.0 - 106.0	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-15DD	4/13/2022	N	BL02	UMCf	120.3 - 130.3	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-15DD	12/5/2022	N	EM04	UMCf	120.3 - 130.3	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-15DD	3/15/2023	N	EM07	UMCf	120.3 - 130.3	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-15DD	6/13/2023	N	EM10	UMCf	120.3 - 130.3	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-15DD	9/14/2023	N	EM13	UMCf	120.3 - 130.3	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-15DD	12/13/2023	N	EM16	UMCf	120.3 - 130.3	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-15DD	3/12/2024	N	EM19	UMCf	120.3 - 130.3	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-15DD	6/14/2024	N	EM20	UMCf	120.3 - 130.3	<0.105	<0.430	<0.430	<1.00	<0.157 UJ	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195
U4-MW-15DD	9/24/2024	N	EM21	UMCf	120.3 - 130.3	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-15I	4/12/2022	N	BL02	UMCf	76.8 - 86.8	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-15I	12/5/2022	N	EM04	UMCf	76.8 - 86.8	<0.105	<0.430	1.81 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-15I	3/17/2023	N	EM07	UMCf	76.8 - 86.8	<2.10	<8.60	<8.60	<20.0 UJ	<3.14	<1.99	<3.48	<2.40	<2.50	<2.36	<3.90
U4-MW-15I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-15I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	<0.105	<0.430	1.08 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-15I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	<0.105	<0.430	1.10 J	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-15I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	<5.25	<21.5	<21.5	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75
U4-MW-15I	6/17/2024	N	EM20	UMCf	76.8 - 86.8	<5.25	<21.5	<21.5	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75
U4-MW-15I	9/25/2024	N	EM21	UMCf	76.8 - 86.8	<5.25 UJ	<21.5 UJ	<21.5 UJ	<50.0 UJ	<7.85 UJ	<4.97 UJ	<8.70 UJ	<6.00 UJ	<6.25 UJ	<5.90 UJ	<9.75 UJ
U4-MW-15S	4/13/2022	N	BL02	UMCf	54.8 - 64.8	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-15S	12/5/2022	N	EM04	UMCf	54.8 - 64.8	<2.63	<10.7	<10.7	<25.0	<3.93	<2.48	<4.35	<3.00	<3.13	<2.95	<4.88
U4-MW-15S	3/13/2023	N	EM07	UMCf	54.8 - 64.8	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-15S	6/13/2023	N	EM10	UMCf	54.8 - 64.8	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-15S	9/14/2023	N	EM13	UMCf	54.8 - 64.8	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-15S	12/11/2023	N	EM16	UMCf	54.8 - 64.8	<0.210	<0.860	<0.860	<2.00 UJ	<0.314	<0.199	<0.348	<0.240	<0.250	<0.236	<0.390
U4-MW-15S	3/12/2024	N	EM19	UMCf	54.8 - 64.8	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-15S	3/26/2024	N	EM19	UMCf	54.8 - 64.8	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-15S	6/14/2024	N	EM20	UMCf	54.8 - 64.8	<0.105	<0.430	<0.430	<1.00	<0.157 UJ	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Isopropylbenzene	m,p-Xylene (Sum of Isomers)	Methylene Chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p-Cymene (p-Isopropyltoluene)	sec-Butylbenzene	Styrene	tert-Amyl Methyl Ether
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-15S	9/20/2024	N	EM21	UMCf	54.8 - 64.8	<0.105	<0.430	<0.430	<1.00 UJ	<0.157 UJ	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-16D	4/11/2022	N	BL02	UMCf	96.8 - 106.8	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-16D	12/5/2022	N	EM04	UMCf	96.8 - 106.8	<0.105	<0.430	1.30 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-16D	3/14/2023	N	EM07	UMCf	96.8 - 106.8	<0.105	<0.430	0.576 J	<20.0	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-16D	6/13/2023	N	EM10	UMCf	96.8 - 106.8	<0.105	<0.430	0.627 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-16D	9/15/2023	N	EM13	UMCf	96.8 - 106.8	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-16D	12/14/2023	N	EM16	UMCf	96.8 - 106.8	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-16D	3/14/2024	N	EM19	UMCf	96.8 - 106.8	<5.25	<21.5	<21.5	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75
U4-MW-16D	6/17/2024	N	EM20	UMCf	96.8 - 106.8	<5.25	<21.5	<21.5	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75
U4-MW-16D	9/20/2024	N	EM21	UMCf	96.8 - 106.8	<5.25	<21.5	<21.5	<50.0 UJ	<7.85 UJ	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75
U4-MW-16DD	4/12/2022	N	BL02	UMCf	120.8 - 130.8	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-16DD	12/5/2022	N	EM04	UMCf	120.8 - 130.8	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-16DD	3/15/2023	N	EM07	UMCf	120.8 - 130.8	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-16DD	6/13/2023	N	EM10	UMCf	120.8 - 130.8	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-16DD	9/14/2023	N	EM13	UMCf	120.8 - 130.8	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-16DD	12/13/2023	N	EM16	UMCf	120.8 - 130.8	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-16DD	3/14/2024	N	EM19	UMCf	120.8 - 130.8	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-16DD	6/17/2024	N	EM20	UMCf	120.8 - 130.8	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-16DD	9/19/2024	N	EM21	UMCf	120.8 - 130.8	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-16I	4/11/2022	N	BL02	UMCf	77.0 - 87.0	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-16I	12/5/2022	N	EM04	UMCf	77.0 - 87.0	<0.105	<0.430	5.10	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-16I	12/5/2022	FD	EM04	UMCf	77.0 - 87.0	<0.105	<0.430	5.03	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-16I	3/13/2023	N	EM07	UMCf	77.0 - 87.0	<0.105	<0.430	0.963 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-16I	3/13/2023	FD	EM07	UMCf	77.0 - 87.0	<0.105	<0.430	0.963 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-16I	6/12/2023	N	EM10	UMCf	77.0 - 87.0	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-16I	6/12/2023	FD	EM10	UMCf	77.0 - 87.0	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-16I	9/11/2023	N	EM13	UMCf	77.0 - 87.0	<0.105	<0.430	0.813 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-16I	9/11/2023	FD	EM13	UMCf	77.0 - 87.0	<0.105	<0.430	0.932 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-16I	12/11/2023	N	EM16	UMCf	77.0 - 87.0	<0.105	<0.430	0.873 J	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-16I	12/11/2023	FD	EM16	UMCf	77.0 - 87.0	<0.105	<0.430	0.919 J	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-16I	3/11/2024	N	EM19	UMCf	77.0 - 87.0	<0.105	<0.430	0.718 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-16I	3/11/2024	FD	EM19	UMCf	77.0 - 87.0	<0.105	<0.430	0.655 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-16I	6/18/2024	N	EM20	UMCf	77.0 - 87.0	<0.105	<0.430	0.716 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-16I	6/18/2024	FD	EM20	UMCf	77.0 - 87.0	<0.105	<0.430	0.846 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-16I	9/19/2024	N	EM21	UMCf	77.0 - 87.0	<0.105	<0.430	0.873 J	<1.00 UJ	<0.157	<0.0993 UJ	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-16I	9/19/2024	FD	EM21	UMCf	77.0 - 87.0	<0.105	<0.430	0.826 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-16S	4/12/2022	N	BL02	UMCf	54.8 - 64.8	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-16S	4/12/2022	FD	BL02	UMCf	54.8 - 64.8	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-16S	12/6/2022	N	EM04	UMCf	54.8 - 64.8	<0.105 UJ	<0.430 UJ	0.573 J	<1.00 UJ	<0.157 UJ	<0.0993 UJ	<0.174 UJ	<0.120 UJ	<0.125 UJ	<0.118 UJ	<0.195 UJ
U4-MW-16S	3/15/2023	N	EM07	UMCf	54.8 - 64.8	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-16S	6/13/2023	N	EM10	UMCf	54.8 - 64.8	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-16S	9/11/2023	N	EM13	UMCf	54.8 - 64.8	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-16S	12/11/2023	N	EM16	UMCf	54.8 - 64.8	<0.105	<0.430	<0.430	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-16S	3/11/2024	N	EM19	UMCf	54.8 - 64.8	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-16S	6/17/2024	N	EM20	UMCf	54.8 - 64.8	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-MW-16S	9/20/2024	N	EM21	UMCf	54.8 - 64.8	<0.105	<0.430	<0.430	<1.00 UJ	<0.157 UJ	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-SLMW	11/10/2022	N	EM03	-	-	<0.525	<2.15	<2.15	<5.00	<0.785	<0.497	<0.870	<0.600	<0.625	<0.590	<0.975

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						Isopropylbenzene	m,p-Xylene (Sum of Isomers)	Methylene Chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p-Cymene (p-Isopropyltoluene)	sec-Butylbenzene	Styrene	tert-Amyl Methyl Ether
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-T3	10/13/2022	N	EM02	-	-	<0.105	<0.430	0.687 J	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-T3	11/3/2022	N	EM03	-	-	<0.105	<0.430	0.879 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-T3	12/6/2022	N	EM04	-	-	<2.10 UJ	<8.60 UJ	<8.60 UJ	<20.0 UJ	<3.14 UJ	<1.99 UJ	<3.48 UJ	<2.40 UJ	<2.50 UJ	<2.36 UJ	<3.90 UJ
U4-T3	1/9/2023	N	EM05	-	-	<0.105	<0.430	0.864 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-T3	2/13/2023	N	EM06	-	-	<10.5	<43.0	<43.0	<100	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5
U4-T3	3/13/2023	N	EM07	-	-	<2.63	<10.7	<10.7	<25.0	<3.93	<2.48	<4.35	<3.00	<3.13	<2.95	<4.88
U4-T3	4/19/2023	N	EM08	-	-	<0.105	<0.430	<0.430	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-T3	5/18/2023	N	EM09	-	-	<0.105	<0.430	1.96 J	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-T3	6/12/2023	N	EM10	-	-	<0.105	<0.430	3.51 J	<50.0	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-T3	7/11/2023	N	EM11	-	-	<0.105	<0.430	2.84 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-T3	8/10/2023	N	EM12	-	-	<0.105	<0.430	2.09 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-T3	9/11/2023	N	EM13	-	-	<0.105	<0.430	2.71 J	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195
U4-T3	10/16/2023	N	EM14	-	-	<2.63	<10.7	<10.7	<25.0	<3.93	<2.48	<4.35	<3.00	<3.13	<2.95	<4.88

Notes:
FD - Field duplicate
E - Field instrument error.
J - The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J- - The result is an estimated quantity, but the result may be biased low.
J+ - The result is an estimated quantity, but the result may be biased high.
N/A - Not Applicable
mg/L - milligrams per liter
µg/L - micrograms per liter
N - Normal field sample

R - The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

UMCf- Upper Muddy Creek Formation
< - The analyte was analyzed for, but was not detected above the level of the reported
-- Not tested.
U4-E-08D has been abandoned.
M-252 damaged/obstructed when checked on June 14, 2023 and September 14, 2023.
U4-MW-08S and U4-MW-15S were purged and resampled for EM19 on March 25-26, 2024; Original EM19 samples were collected via bailer due to well condition.
Lab was unable to analyze and report TDS for samples L1782240-20 (U4-E-09I-EM21) and -21 (U4-E-09I-EM21-FD) due to the thickness of the sample matrix.

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						tert-Butyl Alcohol	tert-Butyl Methyl Ether (MTBE)	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
M-247-100	4/20/2022	N	BL02	UMCf	100.5 - 110.5	----	----	----	----	----	----	----	----	----	----
M-249-100	4/20/2022	N	BL02	UMCf	99.6 - 109.6	----	----	----	----	----	----	----	----	----	----
M-251-100	4/19/2022	N	BL02	UMCf	92.5 - 102.5	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.907 J	<0.160	<0.234
M-251-100	10/13/2022	N	EM02	UMCf	92.5 - 102.5	12.5 J+	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.557 J	<0.160	<0.234
M-251-100	11/2/2022	N	EM03	UMCf	92.5 - 102.5	<40.6	<1.01	<1.27	<3.00	<2.78	<1.49	<1.18	<1.90	<1.60	<2.34
M-251-100	12/8/2022	N	EM04	UMCf	92.5 - 102.5	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.528 J	<0.160	<0.234
M-251-100	1/11/2023	N	EM05	UMCf	92.5 - 102.5	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.462 J	<0.160	<0.234
M-251-100	2/13/2023	N	EM06	UMCf	92.5 - 102.5	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.241 J	<0.160	<0.234
M-251-100	3/17/2023	N	EM07	UMCf	92.5 - 102.5	<203	<5.05	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7
M-251-100	4/21/2023	N	EM08	UMCf	92.5 - 102.5	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.351 J	<0.160	<0.234
M-251-100	5/9/2023	N	EM09	UMCf	92.5 - 102.5	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.356 J	<0.160	<0.234
M-251-100	6/14/2023	N	EM10	UMCf	92.5 - 102.5	<203	<5.05	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7
M-251-100	7/14/2023	N	EM11	UMCf	92.5 - 102.5	7.40	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.526 J	<0.160 UJ	<0.234
M-251-100	8/10/2023	N	EM12	UMCf	92.5 - 102.5	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
M-251-100	9/14/2023	N	EM13	UMCf	92.5 - 102.5	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
M-251-100	10/19/2023	N	EM14	UMCf	92.5 - 102.5	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.382 J	<0.160	<0.234
M-251-100	11/16/2023	N	EM15	UMCf	92.5 - 102.5	<203	<5.05	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7
M-251-100	12/12/2023	N	EM16	UMCf	92.5 - 102.5	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
M-251-100	1/25/2024	N	EM17	UMCf	92.5 - 102.5	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.385 J	<0.160	<0.234
M-251-100	2/13/2024	N	EM18	UMCf	92.5 - 102.5	<203	<5.05	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7
M-251-100	3/11/2024	N	EM19	UMCf	92.5 - 102.5	<203	<5.05	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7
M-251-100	6/17/2024	N	EM20	UMCf	92.5 - 102.5	<203	<5.05	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7
M-251-100	9/23/2024	N	EM21	UMCf	92.5 - 102.5	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.270 J	<0.160	<0.234
M-251-60	4/18/2022	N	BL02	UMCf	52.3 - 62.3	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
M-251-60	3/15/2023	N	EM07	UMCf	52.3 - 62.3	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
M-251-60	6/14/2023	N	EM10	UMCf	52.3 - 62.3	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
M-251-60	9/14/2023	N	EM13	UMCf	52.3 - 62.3	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
M-251-60	12/11/2023	N	EM16	UMCf	52.3 - 62.3	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
M-251-60	3/12/2024	N	EM19	UMCf	52.3 - 62.3	<4.06	<0.101	<0.127	<0.300	0.538 J	<0.149	<0.118	<0.190	<0.160	<0.234
M-251-60	6/19/2024	N	EM20	UMCf	52.3 - 62.3	<4.06	<0.101	<0.127	<0.300	1.25	<0.149	<0.118	<0.190	<0.160	<0.234
M-251-60	9/20/2024	N	EM21	UMCf	52.3 - 62.3	<4.06	<0.101	<0.127	<0.300	1.71	<0.149	<0.118	<0.190	<0.160	<0.234
M-252	4/21/2022	N	BL02	UMCf	132.3 - 142.3	<4.06	<0.101	<0.127	<0.300	0.292 J	<0.149	<0.118	<0.190	<0.160	<0.234
M-252	3/15/2023	N	EM07	UMCf	132.3 - 142.3	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
M-252	9/19/2023	N	EM13	UMCf	132.3 - 142.3	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
M-252	12/18/2023	N	EM16	UMCf	132.3 - 142.3	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
M-252	3/12/2024	N	EM19	UMCf	132.3 - 142.3	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
M-252	6/19/2024	N	EM20	UMCf	132.3 - 142.3	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
M-252	9/24/2024	N	EM21	UMCf	132.3 - 142.3	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
M-253-100	4/20/2022	N	BL02	UMCf	100.8 - 110.8	----	----	----	----	----	----	----	----	----	----
M-255-100	4/20/2022	N	BL02	UMCf	100.2 - 110.2	----	----	----	----	----	----	----	----	----	----
U4-E-01D	4/18/2022	N	BL02	UMCf	94.7 - 109.7	<20.3 UJ	<0.505	<0.635	<1.50	<1.39	<0.745	<0.590	<0.950	<0.800	<1.17
U4-E-01D	3/14/2023	N	EM07	UMCf	94.7 - 109.7	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-E-01D	6/20/2024	N	EM20	UMCf	94.7 - 109.7	<40.6	<1.01	<1.27	<3.00	62.2	<1.49	<1.18	<1.90	<1.60	<2.34
U4-E-01D	9/25/2024	N	EM21	UMCf	94.7 - 109.7	<40.6 UJ	<1.01 UJ	<1.27 UJ	<3.00 UJ	30.3 J	<1.49 UJ	<1.18 UJ	<1.90 UJ	<1.60 UJ	<2.34 UJ
U4-E-01I	4/19/2022	N	BL02	UMCf	74.6 - 89.6	6.58	<0.101	<0.127	<0.300	0.471 J	<0.149	<0.118	<0.190	<0.160	<0.234
U4-E-01I	4/19/2022	FD	BL02	UMCf	74.6 - 89.6	5.05	<0.101	<0.127	<0.300	0.330 J	<0.149	<0.118	<0.190	<0.160	<0.234
U4-E-01I	3/14/2023	N	EM07	UMCf	74.6 - 89.6	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						tert-Butyl Alcohol	tert-Butyl Methyl Ether (MTBE)	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-E-01I	4/20/2023	N	EM08	UMCf	74.6 - 89.6	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-E-01I	5/10/2023	N	EM09	UMCf	74.6 - 89.6	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-E-01I	6/12/2023	N	EM10	UMCf	74.6 - 89.6	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.307 J	<0.160	<0.234
U4-E-01I	7/11/2023	N	EM11	UMCf	74.6 - 89.6	<20.3	<0.505	<0.635	10.1	<1.39	<0.745	<0.590	<0.950	<0.800	<1.17
U4-E-01I	8/10/2023	N	EM12	UMCf	74.6 - 89.6	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-E-01I	9/11/2023	N	EM13	UMCf	74.6 - 89.6	<20.3	<0.505	<0.635	<1.50	<1.39	<0.745	<0.590	<0.950	<0.800	<1.17
U4-E-01I	10/16/2023	N	EM14	UMCf	74.6 - 89.6	<4.06	<0.101	<0.127	<0.300	0.910 J	<0.149	<0.118	<0.190	<0.160	<0.234
U4-E-01I	12/13/2023	N	EM16	UMCf	74.6 - 89.6	<40.6	<1.01	<1.27	<3.00	<2.78	<1.49	<1.18	<1.90	<1.60	<2.34
U4-E-01I	1/24/2024	N	EM17	UMCf	74.6 - 89.6	<81.2	<2.02	<2.54	<6.00	<5.56	<2.98	<2.36	<3.80	<3.20	<4.68
U4-E-01I	2/14/2024	N	EM18	UMCf	74.6 - 89.6	<40.6	<1.01	<1.27	<3.00	<2.78	<1.49	<1.18	<1.90	<1.60	<2.34
U4-E-01I	3/12/2024	N	EM19	UMCf	74.6 - 89.6	<40.6	<1.01	<1.27	<3.00	<2.78	<1.49	<1.18	<1.90	<1.60	<2.34
U4-E-01I	6/20/2024	N	EM20	UMCf	74.6 - 89.6	<40.6	<1.01	<1.27	<3.00	4.19 J	<1.49	<1.18	<1.90	<1.60	<2.34
U4-E-01I	9/25/2024	N	EM21	UMCf	74.6 - 89.6	<40.6 UJ	<1.01 UJ	<1.27 UJ	<3.00 UJ	<2.78 UJ	<1.49 UJ	<1.18 UJ	<1.90 UJ	<1.60 UJ	<2.34 UJ
U4-E-02D	4/20/2022	N	BL02	UMCf	94.4 - 109.4	<4.06	<0.101	<0.127	<0.300	0.644 J	<0.149	<0.118	<0.190	<0.160	<0.234
U4-E-02D	3/14/2023	N	EM07	UMCf	94.4 - 109.4	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-E-02D	6/19/2024	N	EM20	UMCf	94.4 - 109.4	<40.6	<1.01	<1.27	<3.00	<2.78	<1.49	<1.18	<1.90	<1.60	<2.34
U4-E-02D	9/27/2024	N	EM21	UMCf	94.4 - 109.4	<81.2 UJ	<2.02 UJ	<2.54 UJ	<6.00 UJ	<5.56 UJ	<2.98 UJ	<2.36 UJ	<3.80 UJ	<3.20 UJ	<4.68 UJ
U4-E-02I	4/18/2022	N	BL02	UMCf	74.4 - 89.4	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.260 J	<0.160	<0.234
U4-E-02I	3/14/2023	N	EM07	UMCf	74.4 - 89.4	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-E-02I	4/20/2023	N	EM08	UMCf	74.4 - 89.4	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-E-02I	5/11/2023	N	EM09	UMCf	74.4 - 89.4	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-E-02I	6/12/2023	N	EM10	UMCf	74.4 - 89.4	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-E-02I	7/11/2023	N	EM11	UMCf	74.4 - 89.4	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-E-02I	8/10/2023	N	EM12	UMCf	74.4 - 89.4	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-E-02I	9/11/2023	N	EM13	UMCf	74.4 - 89.4	<4.06	<0.101	<0.127	<0.300	2.67	<0.149	<0.118	<0.190	<0.160	<0.234
U4-E-02I	10/16/2023	N	EM14	UMCf	74.4 - 89.4	<40.6	<1.01	<1.27	<3.00	6.65 J	<1.49	<1.18	<1.90	<1.60	<2.34
U4-E-02I	12/14/2023	N	EM16	UMCf	74.4 - 89.4	<40.6	<1.01	<1.27	4.11 J	<2.78	<1.49	<1.18	<1.90	<1.60	<2.34
U4-E-02I	1/22/2024	N	EM17	UMCf	74.4 - 89.4	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-E-02I	2/13/2024	N	EM18	UMCf	74.4 - 89.4	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-E-02I	3/13/2024	N	EM19	UMCf	74.4 - 89.4	<102	<2.53	<3.18	<7.50	<6.95	<3.73	<2.95	<4.75	<4.00	<5.85
U4-E-02I	6/19/2024	N	EM20	UMCf	74.4 - 89.4	<406	<10.1	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4
U4-E-02I	9/24/2024	N	EM21	UMCf	74.4 - 89.4	<406 UJ	<10.1 UJ	<12.7 UJ	<30.0 UJ	<27.8 UJ	<14.9 UJ	<11.8 UJ	<19.0 UJ	<16.0 UJ	<23.4 UJ
U4-E-03D	4/19/2022	N	BL02	UMCf	95.1 - 110.1	6.74	<0.101	<0.127	<0.300	0.333 J	<0.149	<0.118	0.609 J	<0.160	<0.234
U4-E-03D	10/13/2022	N	EM02	UMCf	95.1 - 110.1	<812	<20.2	<25.4	<60.0	<55.6	<29.8	<23.6	<38.0	<32.0	<46.8
U4-E-03D	11/3/2022	N	EM03	UMCf	95.1 - 110.1	<4.06	<0.101	<0.127	0.494 J	<0.278	<0.149	<0.118	0.753 J	<0.160	<0.234
U4-E-03D	12/6/2022	N	EM04	UMCf	95.1 - 110.1	<81.2 UJ	<2.02 UJ	<2.54 UJ	<6.00 UJ	<5.56 UJ	<2.98 UJ	<2.36 UJ	<3.80 UJ	<3.20 UJ	<4.68 UJ
U4-E-03D	1/9/2023	N	EM05	UMCf	95.1 - 110.1	<4.06	<0.101	<0.127	0.342 J	<0.278	<0.149	<0.118	0.602 J	<0.160	<0.234
U4-E-03D	2/13/2023	N	EM06	UMCf	95.1 - 110.1	<406	<10.1	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4
U4-E-03D	3/13/2023	N	EM07	UMCf	95.1 - 110.1	<406	<10.1	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4
U4-E-03D	3/14/2023	N	EM07	UMCf	95.1 - 110.1	<812	<20.2	<25.4	<60.0	<55.6	<29.8	<23.6	<38.0	<32.0	<46.8
U4-E-03D	4/19/2023	N	EM08	UMCf	95.1 - 110.1	<20.3	<0.505	<0.635	<1.50	<1.39	<0.745	<0.590	<0.950	<0.800	<1.17
U4-E-03D	5/11/2023	N	EM09	UMCf	95.1 - 110.1	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.384 J	<0.160	<0.234
U4-E-03D	6/12/2023	N	EM10	UMCf	95.1 - 110.1	4.43 J	<0.101	<0.127	0.379 J	<0.278	<0.149	<0.118	0.638 J	<0.160	<0.234
U4-E-03D	7/11/2023	N	EM11	UMCf	95.1 - 110.1	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.607 J	<0.160	<0.234
U4-E-03D	8/10/2023	N	EM12	UMCf	95.1 - 110.1	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.252 J	<0.160	<0.234
U4-E-03D	9/11/2023	N	EM13	UMCf	95.1 - 110.1	<4.06	<0.101	<0.127	0.471 J	2.08	<0.149	<0.118	0.623 J	<0.160	<0.234
U4-E-03D	10/16/2023	N	EM14	UMCf	95.1 - 110.1	<812	<20.2	<25.4	<60.0	<55.6	<29.8	<23.6	<38.0	<32.0	<46.8

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						tert-Butyl Alcohol	tert-Butyl Methyl Ether (MTBE)	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-E-03D	6/10/2024	N	EM20	UMCf	95.1 - 110.1	<81.2	<2.02	<2.54	<6.00	14.0 J	<2.98	<2.36	<3.80	<3.20	<4.68
U4-E-03D	6/10/2024	FD	EM20	UMCf	95.1 - 110.1	<81.2	<2.02	<2.54	<6.00	13.8 J	<2.98	<2.36	<3.80	<3.20	<4.68
U4-E-03D	9/27/2024	N	EM21	UMCf	95.1 - 110.1	<20.3 UJ	<0.505 UJ	<0.635 UJ	<1.50 UJ	7.75 J	<0.745 UJ	<0.590 UJ	<0.950 UJ	<0.800 UJ	<1.17 UJ
U4-E-03D	9/27/2024	FD	EM21	UMCf	95.1 - 110.1	<20.3 UJ	<0.505 UJ	<0.635 UJ	<1.50 UJ	7.90 J	<0.745 UJ	<0.590 UJ	<0.950 UJ	<0.800 UJ	<1.17 UJ
U4-E-04D	4/19/2022	N	BL02	UMCf	95.0 - 110.0	5.71	<0.101	<0.127	<0.300	0.341 J	<0.149	<0.118	0.460 J	<0.160	<0.234
U4-E-04D	3/14/2023	N	EM07	UMCf	95.0 - 110.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-E-04D	6/20/2024	N	EM20	UMCf	95.0 - 110.0	<40.6	<1.01	<1.27	<3.00	60.9	<1.49	<1.18	<1.90	<1.60	<2.34
U4-E-04D	9/26/2024	N	EM21	UMCf	95.0 - 110.0	<40.6	<1.01	<1.27	<3.00	31.2	<1.49	<1.18	<1.90	<1.60	<2.34
U4-E-04I	4/18/2022	N	BL02	UMCf	75.0 - 90.0	4.31 J	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-E-04I	3/14/2023	N	EM07	UMCf	75.0 - 90.0	<203	<5.05	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7
U4-E-04I	6/20/2024	N	EM20	UMCf	75.0 - 90.0	<40.6	<1.01	<1.27	<3.00	70.6	<1.49	<1.18	<1.90	<1.60	<2.34
U4-E-04I	9/26/2024	N	EM21	UMCf	75.0 - 90.0	<40.6	<1.01	<1.27	<3.00	47.3	<1.49	<1.18	<1.90	<1.60	<2.34
U4-E-05D	4/19/2022	N	BL02	UMCf	95.0 - 110.0	<4.06	<0.101	<0.127	<0.300	0.513 J	<0.149	<0.118	0.429 J	<0.160	<0.234
U4-E-05D	3/16/2023	N	EM07	UMCf	95.0 - 110.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-E-05D	6/10/2024	N	EM20	UMCf	95.0 - 110.0	<81.2	<2.02	<2.54	<6.00	76.7	<2.98	<2.36	<3.80	<3.20	<4.68
U4-E-05D	9/27/2024	N	EM21	UMCf	95.0 - 110.0	<20.3 UJ	<0.505 UJ	<0.635 UJ	<1.50 UJ	290 J	<0.745 UJ	<0.590 UJ	<0.950 UJ	<0.800 UJ	<1.17 UJ
U4-E-05I	4/19/2022	N	BL02	UMCf	75.0 - 90.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-E-05I	3/15/2023	N	EM07	UMCf	75.0 - 90.0	<4.06 UJ	<0.101 UJ	<0.127 UJ	<0.300 UJ	<0.278 UJ	<0.149 UJ	<0.118 UJ	<0.190 UJ	<0.160 UJ	<0.234 UJ
U4-E-05I	6/19/2024	N	EM20	UMCf	75.0 - 90.0	<203	<5.05	<6.35	<15.0	803	<7.45	<5.90	<9.50	<8.00	<11.7
U4-E-05I	9/27/2024	N	EM21	UMCf	75.0 - 90.0	<40.6 UJ	<1.01 UJ	<1.27 UJ	<3.00 UJ	317 J	<1.49 UJ	<1.18 UJ	<1.90 UJ	<1.60 UJ	<2.34 UJ
U4-E-06D	4/11/2022	N	BL02	UMCf	95.1 - 110.1	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-E-06D	6/20/2024	N	EM20	UMCf	95.1 - 110.1	<40.6	<1.01	<1.27	<3.00	197	<1.49	<1.18	<1.90	<1.60	<2.34
U4-E-06D	9/27/2024	N	EM21	UMCf	95.1 - 110.1	<20.3 UJ	<0.505 UJ	<0.635 UJ	<1.50 UJ	55.2 J	<0.745 UJ	<0.590 UJ	<0.950 UJ	<0.800 UJ	<1.17 UJ
U4-E-06I	4/11/2022	N	BL02	UMCf	73.2 - 88.2	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-E-06I	4/11/2022	FD	BL02	UMCf	73.2 - 88.2	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-E-06I	10/12/2022	N	EM02	UMCf	73.2 - 88.2	<4.06	<0.101	<0.127	0.450 J	<0.278	<0.149	<0.118	0.514 J	<0.160	<0.234
U4-E-06I	11/3/2022	N	EM03	UMCf	73.2 - 88.2	<4.06	<0.101	<0.127	0.389 J	<0.278	<0.149	<0.118	0.394 J	<0.160	<0.234
U4-E-06I	12/6/2022	N	EM04	UMCf	73.2 - 88.2	<40.6 UJ	<1.01 UJ	<1.27 UJ	<3.00 UJ	<2.78 UJ	<1.49 UJ	<1.18 UJ	<1.90 UJ	<1.60 UJ	<2.34 UJ
U4-E-06I	1/9/2023	N	EM05	UMCf	73.2 - 88.2	<4.06	<0.101	<0.127	0.300 J	<0.278	<0.149	<0.118	0.429 J	<0.160	<0.234
U4-E-06I	2/13/2023	N	EM06	UMCf	73.2 - 88.2	<406	<10.1	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4
U4-E-06I	3/13/2023	N	EM07	UMCf	73.2 - 88.2	<81.2	<2.02	<2.54	<6.00	<5.56	<2.98	<2.36	<3.80	<3.20	<4.68
U4-E-06I	4/17/2023	N	EM08	UMCf	73.2 - 88.2	<81.2	<2.02	<2.54	<6.00	<5.56	<2.98	<2.36	<3.80	<3.20	<4.68
U4-E-06I	5/15/2023	N	EM09	UMCf	73.2 - 88.2	<102	<2.53	<3.18	<7.50	<6.95	<3.73	<2.95	<4.75	<4.00	<5.85
U4-E-06I	6/12/2023	N	EM10	UMCf	73.2 - 88.2	15.6 J+	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.629 J	<0.160	<0.234
U4-E-06I	7/11/2023	N	EM11	UMCf	73.2 - 88.2	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.512 J	<0.160	<0.234
U4-E-06I	8/11/2023	N	EM12	UMCf	73.2 - 88.2	<20.3	<0.505	<0.635	<1.50	<1.39	<0.745	<0.590	<0.950	<0.800	<1.17
U4-E-06I	9/11/2023	N	EM13	UMCf	73.2 - 88.2	<4.06	<0.101	<0.127	<0.300	0.863 J	<0.149	<0.118	0.263 J	<0.160	<0.234
U4-E-06I	10/16/2023	N	EM14	UMCf	73.2 - 88.2	1,440	<5.05	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7
U4-E-06I	12/13/2023	N	EM16	UMCf	73.2 - 88.2	<4.06	<0.101	<0.127	<0.300	10.4	<0.149	<0.118	0.193 J	<0.160	<0.234
U4-E-06I	1/22/2024	N	EM17	UMCf	73.2 - 88.2	<4.06	<0.101	<0.127	<0.300	25.6	<0.149	<0.118	<0.190	<0.160	<0.234
U4-E-06I	2/13/2024	N	EM18	UMCf	73.2 - 88.2	<203	<5.05	<6.35	<15.0	19.8 J	<7.45	<5.90	<9.50	<8.00	<11.7
U4-E-06I	3/11/2024	N	EM19	UMCf	73.2 - 88.2	<203	<5.05	<6.35	<15.0	14.5 J	<7.45	<5.90	<9.50	<8.00	<11.7
U4-E-06I	6/11/2024	N	EM20	UMCf	73.2 - 88.2	<4.06	<0.101	<0.127	<0.300	9.64	<0.149	<0.118	0.266 J	<0.160	<0.234
U4-E-06I	9/27/2024	N	EM21	UMCf	73.2 - 88.2	<81.2 UJ	<2.02 UJ	<2.54 UJ	<6.00 UJ	<5.56 UJ	<2.98 UJ	<2.36 UJ	<3.80 UJ	<3.20 UJ	<4.68 UJ
U4-E-07D	4/12/2022	N	BL02	UMCf	94.6 - 109.6	4.41 J	<0.101	<0.127	<0.300	3.53	<0.149	<0.118	0.745 J	<0.160	<0.234
U4-E-07D	6/20/2024	N	EM20	UMCf	94.6 - 109.6	<40.6	<1.01	<1.27	<3.00	8.37 J	<1.49	<1.18	<1.90	<1.60	<2.34
U4-E-07D	9/26/2024	N	EM21	UMCf	94.6 - 109.6	<40.6	<1.01	<1.27	<3.00	<2.78	<1.49	<1.18	<1.90	<1.60	<2.34

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						tert-Butyl Alcohol	tert-Butyl Methyl Ether (MTBE)	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-E-07I	4/12/2022	N	BL02	UMCf	74.7 - 89.7	13.0	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.259 J	<0.160	<0.234
U4-E-07I	10/11/2022	N	EM02	UMCf	74.7 - 89.7	<40.6	<1.01	<1.27	<3.00	<2.78	<1.49	<1.18	<1.90	<1.60	<2.34
U4-E-07I	11/3/2022	N	EM03	UMCf	74.7 - 89.7	<4.06	<0.101	<0.127	0.397 J	<0.278	<0.149	<0.118	0.652 J	<0.160	<0.234
U4-E-07I	12/6/2022	N	EM04	UMCf	74.7 - 89.7	<102 UJ	<2.53 UJ	<3.18 UJ	<7.50 UJ	<6.95 UJ	<3.73 UJ	<2.95 UJ	<4.75 UJ	<4.00 UJ	<5.85 UJ
U4-E-07I	1/9/2023	N	EM05	UMCf	74.7 - 89.7	<4.06	<0.101	<0.127	0.370 J	<0.278	<0.149	<0.118	0.819 J	<0.160	<0.234
U4-E-07I	2/13/2023	N	EM06	UMCf	74.7 - 89.7	<406	<10.1	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4
U4-E-07I	3/13/2023	N	EM07	UMCf	74.7 - 89.7	<406	<10.1	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4
U4-E-07I	4/19/2023	N	EM08	UMCf	74.7 - 89.7	<20.3	<0.505	<0.635	<1.50	<1.39	<0.745	<0.590	<0.950	<0.800	<1.17
U4-E-07I	5/15/2023	N	EM09	UMCf	74.7 - 89.7	<406	<10.1	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4
U4-E-07I	6/12/2023	N	EM10	UMCf	74.7 - 89.7	26.7 J+	<0.101	<0.127	0.394 J	<0.278	<0.149	<0.118	0.666 J	<0.160	<0.234
U4-E-07I	7/11/2023	N	EM11	UMCf	74.7 - 89.7	<4.06	<0.101	<0.127	0.307 J	<0.278	<0.149	<0.118	0.512 J	<0.160	<0.234
U4-E-07I	8/11/2023	N	EM12	UMCf	74.7 - 89.7	<20.3	<0.505	<0.635	<1.50	<1.39	<0.745	<0.590	<0.950	<0.800	<1.17
U4-E-07I	9/11/2023	N	EM13	UMCf	74.7 - 89.7	<4.06	<0.101	<0.127	0.479 J	<0.278	<0.149	<0.118	0.614 J	<0.160	<0.234
U4-E-07I	10/16/2023	N	EM14	UMCf	74.7 - 89.7	<406	<10.1	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4
U4-E-07I	12/13/2023	N	EM16	UMCf	74.7 - 89.7	<4.06	<0.101	<0.127	0.448 J	<0.278	<0.149	<0.118	0.837 J	<0.160	<0.234
U4-E-07I	1/23/2024	N	EM17	UMCf	74.7 - 89.7	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-E-07I	2/13/2024	N	EM18	UMCf	74.7 - 89.7	<812	<20.2	<25.4	<60.0	<55.6	<29.8	<23.6	<38.0	<32.0	<46.8
U4-E-07I	3/11/2024	N	EM19	UMCf	74.7 - 89.7	<812	<20.2	<25.4	<60.0	<55.6	<29.8	<23.6	<38.0	<32.0	<46.8
U4-E-07I	6/11/2024	N	EM20	UMCf	74.7 - 89.7	<4.06	<0.101	<0.127	0.370 J	<0.278	<0.149	<0.118	0.784 J	<0.160	<0.234
U4-E-07I	9/26/2024	N	EM21	UMCf	74.7 - 89.7	<406	<10.1	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4
U4-E-08D	4/12/2022	N	BL02	UMCf	94.6 - 109.6	5.12	<0.101	<0.127	<0.300	1.49	<0.149	<0.118	0.807 J	<0.160	<0.234
U4-E-08D	10/11/2022	N	EM02	UMCf	94.6 - 109.6	<40.6	<1.01	<1.27	<3.00	<2.78	<1.49	<1.18	<1.90	<1.60	<2.34
U4-E-08D	11/3/2022	N	EM03	UMCf	94.6 - 109.6	<4.06	<0.101	<0.127	0.399 J	<0.278	<0.149	<0.118	1.13	<0.160	<0.234
U4-E-08D	12/6/2022	N	EM04	UMCf	94.6 - 109.6	<102 UJ	<2.53 UJ	<3.18 UJ	<7.50 UJ	<6.95 UJ	<3.73 UJ	<2.95 UJ	<4.75 UJ	<4.00 UJ	<5.85 UJ
U4-E-08D	1/9/2023	N	EM05	UMCf	94.6 - 109.6	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.706 J	<0.160	<0.234
U4-E-08D	2/13/2023	N	EM06	UMCf	94.6 - 109.6	<406	<10.1	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4
U4-E-08D	3/13/2023	N	EM07	UMCf	94.6 - 109.6	<406	<10.1	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4
U4-E-08D	4/19/2023	N	EM08	UMCf	94.6 - 109.6	<20.3	<0.505	<0.635	<1.50	<1.39	<0.745	<0.590	<0.950	<0.800	<1.17
U4-E-08D	5/17/2023	N	EM09	UMCf	94.6 - 109.6	<406	<10.1	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4
U4-E-08D	6/12/2023	N	EM10	UMCf	94.6 - 109.6	58.3 J+	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.522 J	<0.160	<0.234
U4-E-08D	7/11/2023	N	EM11	UMCf	94.6 - 109.6	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.575 J	<0.160	<0.234
U4-E-09D	4/15/2022	N	BL02	UMCf	94.5 - 109.5	<4.06	<0.101	<0.127	<0.300	0.672 J	<0.149	<0.118	0.211 J	<0.160	<0.234
U4-E-09D	6/10/2024	N	EM20	UMCf	94.5 - 109.5	<81.2	<2.02	<2.54	<6.00	<5.56	<2.98	<2.36	<3.80	<3.20	<4.68
U4-E-09D	9/27/2024	N	EM21	UMCf	94.5 - 109.5	<81.2 UJ	<2.02 UJ	<2.54 UJ	<6.00 UJ	<5.56 UJ	<2.98 UJ	<2.36 UJ	<3.80 UJ	<3.20 UJ	<4.68 UJ
U4-E-09I	4/14/2022	N	BL02	UMCf	74.9 - 89.9	12.7	<0.101	<0.127	<0.300	0.454 J	<0.149	<0.118	0.223 J	<0.160	<0.234
U4-E-09I	6/10/2024	N	EM20	UMCf	74.9 - 89.9	<81.2	<2.02	<2.54	<6.00	<5.56	<2.98	<2.36	<3.80	<3.20	<4.68
U4-E-09I	6/10/2024	FD	EM20	UMCf	74.9 - 89.9	<81.2	<2.02	<2.54	<6.00	<5.56	<2.98	<2.36	<3.80	<3.20	<4.68
U4-E-09I	9/26/2024	N	EM21	UMCf	74.9 - 89.9	<81.2	<2.02	<2.54	<6.00	51.8	<2.98	<2.36	<3.80	<3.20	<4.68
U4-E-09I	9/26/2024	FD	EM21	UMCf	74.9 - 89.9	<81.2	<2.02	<2.54	<6.00	53.1	<2.98	<2.36	<3.80	<3.20	<4.68
U4-E-10D	4/13/2022	N	BL02	UMCf	94.5 - 109.5	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.235 J	<0.160	<0.234
U4-E-10D	6/19/2024	N	EM20	UMCf	94.5 - 109.5	<40.6	<1.01	<1.27	<3.00	<2.78	<1.49	<1.18	<1.90	<1.60	<2.34
U4-E-10D	9/25/2024	N	EM21	UMCf	94.5 - 109.5	<40.6	<1.01	<1.27	<3.00	<2.78	<1.49	<1.18	<1.90	<1.60	<2.34
U4-E-10I	4/13/2022	N	BL02	UMCf	74.2 - 89.2	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-E-10I	6/11/2024	N	EM20	UMCf	74.2 - 89.2	<406	<10.1	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4
U4-E-10I	9/26/2024	N	EM21	UMCf	74.2 - 89.2	<406	<10.1	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4
U4-MW-01D	4/19/2022	N	BL02	UMCf	96.7 - 106.7	7.15	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-01D	2/16/2023	N	EM06	UMCf	96.7 - 106.7	<40.6	<1.01	<1.27	<3.00	<2.78	<1.49	<1.18	<1.90	<1.60	<2.34

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						tert-Butyl Alcohol	tert-Butyl Methyl Ether (MTBE)	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-01D	3/20/2023	N	EM07	UMCf	96.7 - 106.7	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.204 J	<0.160	<0.234
U4-MW-01D	6/13/2023	N	EM10	UMCf	96.7 - 106.7	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-01D	9/14/2023	N	EM13	UMCf	96.7 - 106.7	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-01D	12/14/2023	N	EM16	UMCf	96.7 - 106.7	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-01D	3/13/2024	N	EM19	UMCf	96.7 - 106.7	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-01D	6/18/2024	N	EM20	UMCf	96.7 - 106.7	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-01D	9/19/2024	N	EM21	UMCf	96.7 - 106.7	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-01DD	4/19/2022	N	BL02	UMCf	119.9 - 129.9	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-01DD	4/19/2022	FD	BL02	UMCf	119.9 - 129.9	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-01DD	3/15/2023	N	EM07	UMCf	119.9 - 129.9	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-01DD	6/13/2023	N	EM10	UMCf	119.9 - 129.9	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-01DD	9/14/2023	N	EM13	UMCf	119.9 - 129.9	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-01DD	12/15/2023	N	EM16	UMCf	119.9 - 129.9	<20.3	<0.505	<0.635	<1.50	<1.39	<0.745	<0.590	<0.950	<0.800	<1.17
U4-MW-01DD	3/12/2024	N	EM19	UMCf	119.9 - 129.9	<20.3	<0.505	<0.635	<1.50	<1.39	<0.745	<0.590	<0.950	<0.800	<1.17
U4-MW-01DD	6/18/2024	N	EM20	UMCf	119.9 - 129.9	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-01DD	9/20/2024	N	EM21	UMCf	119.9 - 129.9	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-01I	4/19/2022	N	BL02	UMCf	76.7 - 86.7	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-01I	3/20/2023	N	EM07	UMCf	76.7 - 86.7	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.192 J	<0.160	<0.234
U4-MW-01I	6/12/2023	N	EM10	UMCf	76.7 - 86.7	38.4 J+	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-01I	9/14/2023	N	EM13	UMCf	76.7 - 86.7	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-01I	12/15/2023	N	EM16	UMCf	76.7 - 86.7	<203	<5.05	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7
U4-MW-01I	3/13/2024	N	EM19	UMCf	76.7 - 86.7	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-01I	6/18/2024	N	EM20	UMCf	76.7 - 86.7	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-01I	9/19/2024	N	EM21	UMCf	76.7 - 86.7	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-01S	4/18/2022	N	BL02	UMCf	54.7 - 64.7	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-01S	3/15/2023	N	EM07	UMCf	54.7 - 64.7	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-01S	6/13/2023	N	EM10	UMCf	54.7 - 64.7	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-01S	9/15/2023	N	EM13	UMCf	54.7 - 64.7	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-01S	12/13/2023	N	EM16	UMCf	54.7 - 64.7	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-01S	3/13/2024	N	EM19	UMCf	54.7 - 64.7	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-01S	6/18/2024	N	EM20	UMCf	54.7 - 64.7	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-01S	9/20/2024	N	EM21	UMCf	54.7 - 64.7	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-02D	4/14/2022	N	BL02	UMCf	95.0 - 110.0	5.42	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.883 J	<0.160	<0.234
U4-MW-02D	10/11/2022	N	EM02	UMCf	95.0 - 110.0	<4.06	<0.101	<0.127	0.459 J	<0.278	<0.149	<0.118	1.23	<0.160	<0.234
U4-MW-02D	11/1/2022	N	EM03	UMCf	95.0 - 110.0	<203	<5.05	<6.35	<15.0	<13.9	<7.45	<5.90	<95.0	<8.00	<11.7
U4-MW-02D	12/7/2022	N	EM04	UMCf	95.0 - 110.0	14.9	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	1.28	<0.160	<0.234
U4-MW-02D	1/10/2023	N	EM05	UMCf	95.0 - 110.0	5.93	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	1.07	<0.160	<0.234
U4-MW-02D	2/13/2023	N	EM06	UMCf	95.0 - 110.0	<4.06	<0.101	<0.127	0.320 J	<0.278	<0.149	<0.118	1.30	<0.160	<0.234
U4-MW-02D	3/17/2023	N	EM07	UMCf	95.0 - 110.0	<406	<10.1	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4
U4-MW-02D	4/19/2023	N	EM08	UMCf	95.0 - 110.0	<20.3	<0.505	<0.635	<1.50	<1.39	<0.745	<0.590	<0.950	<0.800	<1.17
U4-MW-02D	5/9/2023	N	EM09	UMCf	95.0 - 110.0	<20.3	<0.505	<0.635	<1.50	<1.39	<0.745	<0.590	1.21 J	<0.800	<1.17
U4-MW-02D	6/13/2023	N	EM10	UMCf	95.0 - 110.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.767 J	<0.160	<0.234
U4-MW-02D	7/18/2023	N	EM11	UMCf	95.0 - 110.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	1.02 J	<0.160	<0.234
U4-MW-02D	8/14/2023	N	EM12	UMCf	95.0 - 110.0	<1,020	<25.3	<31.8	<75.0	<69.5	<37.3	<29.5	<47.5	<40.0	<58.5
U4-MW-02D	9/11/2023	N	EM13	UMCf	95.0 - 110.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.609 J	<0.160	<0.234
U4-MW-02D	10/19/2023	N	EM14	UMCf	95.0 - 110.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	1.06	<0.160	<0.234
U4-MW-02D	11/15/2023	N	EM15	UMCf	95.0 - 110.0	<406	<10.1	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						tert-Butyl Alcohol	tert-Butyl Methyl Ether (MTBE)	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-02D	12/14/2023	N	EM16	UMCf	95.0 - 110.0	<406	<10.1	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4
U4-MW-02D	1/25/2024	N	EM17	UMCf	95.0 - 110.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.684 J	<0.160	<0.234
U4-MW-02D	2/12/2024	N	EM18	UMCf	95.0 - 110.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.705 J	<0.160	<0.234
U4-MW-02D	3/13/2024	N	EM19	UMCf	95.0 - 110.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.845 J	<0.160	<0.234
U4-MW-02D	6/17/2024	N	EM20	UMCf	95.0 - 110.0	<4.06	<0.101	<0.127	<0.300	0.293 J	<0.149	<0.118	0.778 J	<0.160	<0.234
U4-MW-02D	9/23/2024	N	EM21	UMCf	95.0 - 110.0	18.4	<0.101	<0.127	<0.300	0.314 J	<0.149	<0.118	0.772 J	<0.160	<0.234
U4-MW-02I	4/14/2022	N	BL02	UMCf	75.0 - 90.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.222 J	<0.160	<0.234
U4-MW-02I	10/11/2022	N	EM02	UMCf	75.0 - 90.0	<4.06	<0.101	<0.127	0.429 J	<0.278	<0.149	<0.118	0.414 J	<0.160	<0.234
U4-MW-02I	11/2/2022	N	EM03	UMCf	75.0 - 90.0	<40.6	<1.01	<1.27	<3.00	<2.78	<1.49	<1.18	<1.90	<1.60	<2.34
U4-MW-02I	11/2/2022	FD	EM03	UMCf	75.0 - 90.0	<40.6	<1.01	<1.27	<3.00	<2.78	<1.49	<1.18	<1.90	<1.60	<2.34
U4-MW-02I	12/8/2022	N	EM04	UMCf	75.0 - 90.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-02I	12/8/2022	FD	EM04	UMCf	75.0 - 90.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-02I	1/13/2023	N	EM05	UMCf	75.0 - 90.0	<40.6	<1.01	<1.27	<3.00	<2.78	<1.49	<1.18	<1.90	<1.60	<2.34
U4-MW-02I	1/13/2023	FD	EM05	UMCf	75.0 - 90.0	<40.6	<1.01	<1.27	<3.00	<2.78	<1.49	<1.18	<1.90	<1.60	<2.34
U4-MW-02I	2/15/2023	N	EM06	UMCf	75.0 - 90.0	<40.6	<1.01	<1.27	<3.00	<2.78	<1.49	<1.18	<1.90	<1.60	<2.34
U4-MW-02I	2/15/2023	FD	EM06	UMCf	75.0 - 90.0	<40.6	<1.01	<1.27	<3.00	<2.78	<1.49	<1.18	<1.90	<1.60	<2.34
U4-MW-02I	3/17/2023	N	EM07	UMCf	75.0 - 90.0	<812	<20.2	<25.4	<60.0	<55.6	<29.8	<23.6	<38.0	<32.0	<46.8
U4-MW-02I	3/17/2023	FD	EM07	UMCf	75.0 - 90.0	<812	<20.2	<25.4	<60.0	<55.6	<29.8	<23.6	<38.0	<32.0	<46.8
U4-MW-02I	4/20/2023	N	EM08	UMCf	75.0 - 90.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-02I	4/20/2023	FD	EM08	UMCf	75.0 - 90.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-02I	5/9/2023	N	EM09	UMCf	75.0 - 90.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-02I	5/9/2023	FD	EM09	UMCf	75.0 - 90.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-02I	6/12/2023	N	EM10	UMCf	75.0 - 90.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-02I	6/12/2023	FD	EM10	UMCf	75.0 - 90.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-02I	7/18/2023	N	EM11	UMCf	75.0 - 90.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-02I	7/18/2023	FD	EM11	UMCf	75.0 - 90.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-02I	8/11/2023	N	EM12	UMCf	75.0 - 90.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-02I	8/11/2023	FD	EM12	UMCf	75.0 - 90.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.247 J	<0.160	<0.234
U4-MW-02I	9/11/2023	N	EM13	UMCf	75.0 - 90.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-02I	9/11/2023	FD	EM13	UMCf	75.0 - 90.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.223 J	<0.160	<0.234
U4-MW-02I	10/19/2023	N	EM14	UMCf	75.0 - 90.0	<4.06 UJ	<0.101 UJ	<0.127 UJ	<0.300 UJ	<0.278 UJ	<0.149 UJ	<0.118 UJ	0.432 J	<0.160 UJ	<0.234 UJ
U4-MW-02I	10/19/2023	FD	EM14	UMCf	75.0 - 90.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.587 J	<0.160	<0.234
U4-MW-02I	11/15/2023	N	EM15	UMCf	75.0 - 90.0	<203	<5.05	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7
U4-MW-02I	11/15/2023	FD	EM15	UMCf	75.0 - 90.0	<203	<5.05	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7
U4-MW-02I	12/14/2023	N	EM16	UMCf	75.0 - 90.0	<203	<5.05	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7
U4-MW-02I	12/14/2023	FD	EM16	UMCf	75.0 - 90.0	<203	<5.05	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7
U4-MW-02I	1/25/2024	N	EM17	UMCf	75.0 - 90.0	<4.06	<0.101	<0.127	0.904 J	16.2	<0.149	<0.118	0.768 J	<0.160	<0.234
U4-MW-02I	1/25/2024	FD	EM17	UMCf	75.0 - 90.0	<4.06	<0.101	<0.127	0.739 J	16.5	<0.149	<0.118	0.841 J	<0.160	<0.234
U4-MW-02I	2/12/2024	N	EM18	UMCf	75.0 - 90.0	<4.06	<0.101	<0.127	0.421 J	13.9	<0.149	<0.118	0.665 J	<0.160	<0.234
U4-MW-02I	2/12/2024	FD	EM18	UMCf	75.0 - 90.0	<4.06	<0.101	<0.127	0.437 J	13.3	<0.149	<0.118	0.711 J	<0.160	<0.234
U4-MW-02I	3/13/2024	N	EM19	UMCf	75.0 - 90.0	<4.06	<0.101	<0.127	0.469 J	13.2	<0.149	<0.118	0.514 J	<0.160	<0.234
U4-MW-02I	3/13/2024	FD	EM19	UMCf	75.0 - 90.0	<4.06	<0.101	<0.127	0.715 J	18.2	<0.149	<0.118	0.713 J	<0.160	<0.234
U4-MW-02I	6/17/2024	N	EM20	UMCf	75.0 - 90.0	<203	<5.05	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7
U4-MW-02I	6/17/2024	FD	EM20	UMCf	75.0 - 90.0	<203	<5.05	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7
U4-MW-02I	9/23/2024	N	EM21	UMCf	75.0 - 90.0	<4.06	<0.101	<0.127	0.411 J	5.02	<0.149	<0.118	0.491 J	<0.160	<0.234
U4-MW-02I	9/23/2024	FD	EM21	UMCf	75.0 - 90.0	<4.06	<0.101	<0.127	0.520 J	5.98	<0.149	<0.118	0.445 J	<0.160	<0.234
U4-MW-03D	4/20/2022	N	BL02	UMCf	96.6 - 106.6	5.74 J	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.208 J	<0.160	<0.234

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						tert-Butyl Alcohol	tert-Butyl Methyl Ether (MTBE)	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-03D	2/16/2023	N	EM06	UMCf	96.6 - 106.6	<20.3	<0.505	<0.635	<1.50	<13.9	<0.745	<0.590	<0.950	<0.800	<1.17
U4-MW-03D	3/16/2023	N	EM07	UMCf	96.6 - 106.6	<81.2	<2.02	<2.54	<6.00	<5.56	<2.98	<2.36	<3.80	<3.20	<4.68
U4-MW-03D	3/16/2023	FD	EM07	UMCf	96.6 - 106.6	<20.3	<0.505	<0.635	<1.50	<1.39	<0.745	<0.590	<0.950	<0.800	<1.17
U4-MW-03D	6/15/2023	N	EM10	UMCf	96.6 - 106.6	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118 UJ	<0.190	<0.160	<0.234
U4-MW-03D	9/14/2023	N	EM13	UMCf	96.6 - 106.6	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-03D	12/13/2023	N	EM16	UMCf	96.6 - 106.6	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.204 J	<0.160	<0.234
U4-MW-03D	3/15/2024	N	EM19	UMCf	96.6 - 106.6	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-03D	6/17/2024	N	EM20	UMCf	96.6 - 106.6	<203	<5.05	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7
U4-MW-03D	9/18/2024	N	EM21	UMCf	96.6 - 106.6	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-03DD	4/20/2022	N	BL02	UMCf	119.7 - 129.7	<4.06	<0.101	<0.127	<0.300	0.285 J	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-03DD	3/15/2023	N	EM07	UMCf	119.7 - 129.7	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-03DD	6/15/2023	N	EM10	UMCf	119.7 - 129.7	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118 UJ	<0.190	<0.160	<0.234
U4-MW-03DD	9/14/2023	N	EM13	UMCf	119.7 - 129.7	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-03DD	12/14/2023	N	EM16	UMCf	119.7 - 129.7	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-03DD	3/14/2024	N	EM19	UMCf	119.7 - 129.7	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-03DD	6/17/2024	N	EM20	UMCf	119.7 - 129.7	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-03DD	9/18/2024	N	EM21	UMCf	119.7 - 129.7	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.247 J	<0.160	<0.234
U4-MW-03I	4/19/2022	N	BL02	UMCf	76.6 - 86.6	4.28 J	<0.101	<0.127	<0.300	0.798 J	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-03I	3/15/2023	N	EM07	UMCf	76.6 - 86.6	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-03I	6/14/2023	N	EM10	UMCf	76.6 - 86.6	<81.2	<2.02	<2.54	<6.00	<5.56	<2.98	<2.36	<3.80	<3.20	<4.68
U4-MW-03I	6/14/2023	FD	EM10	UMCf	76.6 - 86.6	<102	<2.53	<3.18	<7.50	<6.95	<3.73	<2.95	<4.75	<4.00	<5.85
U4-MW-03I	9/11/2023	N	EM13	UMCf	76.6 - 86.6	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.190 J	<0.160	<0.234
U4-MW-03I	9/11/2023	FD	EM13	UMCf	76.6 - 86.6	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-03I	12/13/2023	N	EM16	UMCf	76.6 - 86.6	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.246 J	<0.160	<0.234
U4-MW-03I	12/13/2023	FD	EM16	UMCf	76.6 - 86.6	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.225 J	<0.160	<0.234
U4-MW-03I	3/14/2024	N	EM19	UMCf	76.6 - 86.6	<203	<5.05	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7
U4-MW-03I	3/14/2024	FD	EM19	UMCf	76.6 - 86.6	<203	<5.05	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7
U4-MW-03I	6/19/2024	N	EM20	UMCf	76.6 - 86.6	<203	<5.05	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7
U4-MW-03I	6/19/2024	FD	EM20	UMCf	76.6 - 86.6	<203	<5.05	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7
U4-MW-03I	9/20/2024	N	EM21	UMCf	76.6 - 86.6	<20.3	<0.505	<0.635	<1.50	<1.39	<0.745	<0.590	<0.950	<0.800	<1.17
U4-MW-03I	9/20/2024	FD	EM21	UMCf	76.6 - 86.6	<4.06	<0.101	<0.127	<0.300	1.74	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-03S	4/18/2022	N	BL02	UMCf	54.5 - 64.5	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-03S	4/18/2022	FD	BL02	UMCf	54.5 - 64.5	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-03S	3/15/2023	N	EM07	UMCf	54.5 - 64.5	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-03S	6/15/2023	N	EM10	UMCf	54.5 - 64.5	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118 UJ	<0.190	<0.160	<0.234
U4-MW-03S	9/14/2023	N	EM13	UMCf	54.5 - 64.5	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-03S	12/13/2023	N	EM16	UMCf	54.5 - 64.5	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-03S	3/14/2024	N	EM19	UMCf	54.5 - 64.5	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-03S	6/14/2024	N	EM20	UMCf	54.5 - 64.5	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118 UJ	<0.190	<0.160	<0.234
U4-MW-03S	9/18/2024	N	EM21	UMCf	54.5 - 64.5	<4.06	<0.101	<0.127	<0.300	0.315 J	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-04D	4/19/2022	N	BL02	UMCf	97.0 - 107.0	5.59	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.805 J	<0.160	<0.234
U4-MW-04D	2/16/2023	N	EM06	UMCf	97.0 - 107.0	<203	<5.05	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7
U4-MW-04D	3/21/2023	N	EM07	UMCf	97.0 - 107.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-04D	6/14/2023	N	EM10	UMCf	97.0 - 107.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-04D	9/15/2023	N	EM13	UMCf	97.0 - 107.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-04D	12/12/2023	N	EM16	UMCf	97.0 - 107.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-04D	3/12/2024	N	EM19	UMCf	97.0 - 107.0	<203	<5.05	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						tert-Butyl Alcohol	tert-Butyl Methyl Ether (MTBE)	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-04D	6/19/2024	N	EM20	UMCf	97.0 - 107.0	<203	<5.05	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7
U4-MW-04D	9/24/2024	N	EM21	UMCf	97.0 - 107.0	7.66	<0.101	<0.127	<0.300	2.21	<0.149	<0.118	<9.50	<0.160	<0.234
U4-MW-04I	4/19/2022	N	BL02	UMCf	76.8 - 86.8	10.8	<0.101	<0.127	<0.300	0.375 J	<0.149	<0.118	0.225 J	<0.160	<0.234
U4-MW-04I	3/20/2023	N	EM07	UMCf	76.8 - 86.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.315 J	<0.160	<0.234
U4-MW-04I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<20.3	<0.505	<0.635	<1.50	<1.39	<0.745	<0.590	<0.950	<0.800	<1.17
U4-MW-04I	9/14/2023	N	EM13	UMCf	76.8 - 86.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-04I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.646 J	<0.160	<0.234
U4-MW-04I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	<812	<20.2	<25.4	<60.0	<55.6	<29.8	<23.6	<38.0	<32.0	<46.8
U4-MW-04I	6/18/2024	N	EM20	UMCf	76.8 - 86.8	<20.3	<0.505	<0.635	<1.50	<1.39	<0.745	<0.590	<0.950	<0.800	<1.17
U4-MW-04I	9/24/2024	N	EM21	UMCf	76.8 - 86.8	5.63	<0.101	<0.127	<0.300	0.508 J	<0.149	<0.118	<19.0	<0.160	<0.234
U4-MW-05D	4/15/2022	N	BL02	UMCf	98.2 - 108.2	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.920 J	<0.160	<0.234
U4-MW-05D	10/13/2022	N	EM02	UMCf	98.2 - 108.2	<406	<10.1	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4
U4-MW-05D	11/3/2022	N	EM03	UMCf	98.2 - 108.2	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.421 J	<0.160	<0.234
U4-MW-05D	12/7/2022	N	EM04	UMCf	98.2 - 108.2	6.34	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.543 J	<0.160	0.238 J
U4-MW-05D	1/11/2023	N	EM05	UMCf	98.2 - 108.2	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.492 J	<0.160	<0.234
U4-MW-05D	2/14/2023	N	EM06	UMCf	98.2 - 108.2	<406	<10.1	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4
U4-MW-05D	3/16/2023	N	EM07	UMCf	98.2 - 108.2	<406	<10.1	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4
U4-MW-05D	4/20/2023	N	EM08	UMCf	98.2 - 108.2	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.241 J	<0.160	<0.234
U4-MW-05D	5/10/2023	N	EM09	UMCf	98.2 - 108.2	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.216 J	<0.160	<0.234
U4-MW-05D	6/15/2023	N	EM10	UMCf	98.2 - 108.2	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118 UJ	<0.190	<0.160	<0.234
U4-MW-05D	7/18/2023	N	EM11	UMCf	98.2 - 108.2	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-05D	8/14/2023	N	EM12	UMCf	98.2 - 108.2	<102	<2.53	<3.18	<7.50	<6.95	<3.73	<2.95	<4.75	<4.00	<5.85
U4-MW-05D	9/12/2023	N	EM13	UMCf	98.2 - 108.2	<102	<2.53	<3.18	<7.50	<6.95	<3.73	<2.95	<4.75	<4.00	<5.85
U4-MW-05D	10/18/2023	N	EM14	UMCf	98.2 - 108.2	<102	<2.53	<3.18	<7.50	<6.95	<3.73	<2.95	<4.75	<4.00	<5.85
U4-MW-05D	11/16/2023	N	EM15	UMCf	98.2 - 108.2	<102	<2.53	<3.18	<7.50	<6.95	<3.73	<2.95	<4.75	<4.00	<5.85
U4-MW-05D	12/14/2023	N	EM16	UMCf	98.2 - 108.2	<102	<2.53	<3.18	<7.50	<6.95	<3.73	<2.95	<4.75	<4.00	<5.85
U4-MW-05D	1/26/2024	N	EM17	UMCf	98.2 - 108.2	<4.06	<0.101	<0.127	<0.300	1.12 J+	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-05D	2/14/2024	N	EM18	UMCf	98.2 - 108.2	<4.06	<0.101	<0.127	<0.300	1.17 J+	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-05D	3/12/2024	N	EM19	UMCf	98.2 - 108.2	<102	<2.53	<3.18	<7.50	<6.95	<3.73	<2.95	<4.75	<4.00	<5.85
U4-MW-05D	6/18/2024	N	EM20	UMCf	98.2 - 108.2	<4.06	<0.101	<0.127	<0.300	0.467 J	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-05D	9/25/2024	N	EM21	UMCf	98.2 - 108.2	<203 UJ	<5.05 UJ	<6.35 UJ	<15.0 UJ	<13.9 UJ	<7.45 UJ	<5.90 UJ	<9.50 UJ	<8.00 UJ	<11.7 UJ
U4-MW-05I	4/15/2022	N	BL02	UMCf	76.6 - 86.6	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.500 J	<0.160	<0.234
U4-MW-05I	10/13/2022	N	EM02	UMCf	76.6 - 86.6	<406	<10.1	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4
U4-MW-05I	11/3/2022	N	EM03	UMCf	76.6 - 86.6	<4.06	<0.101	<0.127	0.354 J	<0.278	<0.149	<0.118	0.797 J	<0.160	<0.234
U4-MW-05I	12/8/2022	N	EM04	UMCf	76.6 - 86.6	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.693 J	<0.160	<0.234
U4-MW-05I	1/11/2023	N	EM05	UMCf	76.6 - 86.6	<4.06	<0.101	<0.127	0.331 J	<0.278	<0.149	<0.118	0.592 J	<0.160	<0.234
U4-MW-05I	2/14/2023	N	EM06	UMCf	76.6 - 86.6	<406	<10.1	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4
U4-MW-05I	3/14/2023	N	EM07	UMCf	76.6 - 86.6	<406	<10.1	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4
U4-MW-05I	4/21/2023	N	EM08	UMCf	76.6 - 86.6	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-05I	5/10/2023	N	EM09	UMCf	76.6 - 86.6	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-05I	6/15/2023	N	EM10	UMCf	76.6 - 86.6	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118 UJ	<0.190	<0.160	<0.234
U4-MW-05I	7/17/2023	N	EM11	UMCf	76.6 - 86.6	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-05I	8/14/2023	N	EM12	UMCf	76.6 - 86.6	<203	<5.05	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7
U4-MW-05I	9/13/2023	N	EM13	UMCf	76.6 - 86.6	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-05I	10/18/2023	N	EM14	UMCf	76.6 - 86.6	<203	<5.05	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7
U4-MW-05I	11/15/2023	N	EM15	UMCf	76.6 - 86.6	<203	<5.05	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7
U4-MW-05I	12/12/2023	N	EM16	UMCf	76.6 - 86.6	<4.06	<0.101	<0.127	<0.300	0.612 J	<0.149	<0.118	<0.190	<0.160	<0.234

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						tert-Butyl Alcohol	tert-Butyl Methyl Ether (MTBE)	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-05I	1/26/2024	N	EM17	UMCf	76.6 - 86.6	<4.06	<0.101	<0.127	<0.300	1.08 J+	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-05I	2/14/2024	N	EM18	UMCf	76.6 - 86.6	<4.06	<0.101	<0.127	<0.300	0.566 J	<0.149	<0.118	0.193	<0.160	<0.234
U4-MW-05I	3/11/2024	N	EM19	UMCf	76.6 - 86.6	<4.06	<0.101	<0.127	<0.300	0.820 J	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-05I	6/18/2024	N	EM20	UMCf	76.6 - 86.6	<4.06	<0.101	<0.127	<0.300	1.23	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-05I	9/25/2024	N	EM21	UMCf	76.6 - 86.6	<406	<10.1	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4
U4-MW-06D	4/19/2022	N	BL02	UMCf	97.1 - 107.1	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.524 J	<0.160	<0.234
U4-MW-06D	2/15/2023	N	EM06	UMCf	97.1 - 107.1	<203	<5.05	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7
U4-MW-06D	3/21/2023	N	EM07	UMCf	97.1 - 107.1	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-06D	6/16/2023	N	EM10	UMCf	97.1 - 107.1	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<9.50	<0.160	<0.234
U4-MW-06D	9/13/2023	N	EM13	UMCf	97.1 - 107.1	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-06D	12/13/2023	N	EM16	UMCf	97.1 - 107.1	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-06D	3/14/2024	N	EM19	UMCf	97.1 - 107.1	<203	<5.05	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7
U4-MW-06D	6/12/2024	N	EM20	UMCf	97.1 - 107.1	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-06D	9/20/2024	N	EM21	UMCf	97.1 - 107.1	<40.6	<1.01	<1.27	<3.00	<2.78	<1.49	<1.18	<1.90	<1.60	<2.34
U4-MW-06I	4/19/2022	N	BL02	UMCf	76.5 - 86.5	<4.06	<0.101	<0.127	<0.300	0.332 J	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-06I	3/14/2023	N	EM07	UMCf	76.5 - 86.5	5.95 J+	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.369 J	<0.160	<0.234
U4-MW-06I	6/16/2023	N	EM10	UMCf	76.5 - 86.5	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<9.50	<0.160	<0.234
U4-MW-06I	9/12/2023	N	EM13	UMCf	76.5 - 86.5	<203	<5.05	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7
U4-MW-06I	12/12/2023	N	EM16	UMCf	76.5 - 86.5	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-06I	3/14/2024	N	EM19	UMCf	76.5 - 86.5	<406	<10.1	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4
U4-MW-06I	6/11/2024	N	EM20	UMCf	76.5 - 86.5	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.403 J	<0.160	<0.234
U4-MW-06I	9/20/2024	N	EM21	UMCf	76.5 - 86.5	<102	<2.53	<3.18	<7.50	<6.95	<3.73	<2.95	<4.75	<4.00	<5.85
U4-MW-07D	4/15/2022	N	BL02	UMCf	96.8 - 106.5	5.04 J	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.191 J	<0.160	<0.234
U4-MW-07D	10/12/2022	N	EM02	UMCf	96.8 - 106.5	<4.06	<0.101	<0.127	<0.300	0.557 J	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-07D	10/12/2022	FD	EM02	UMCf	96.8 - 106.5	<4.06	<0.101	<0.127	<0.300	0.576 J	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-07D	11/3/2022	N	EM03	UMCf	96.8 - 106.5	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-07D	12/7/2022	N	EM04	UMCf	96.8 - 106.5	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-07D	1/11/2023	N	EM05	UMCf	96.8 - 106.5	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-07D	2/14/2023	N	EM06	UMCf	96.8 - 106.5	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-07D	3/16/2023	N	EM07	UMCf	96.8 - 106.5	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-07D	4/21/2023	N	EM08	UMCf	96.8 - 106.5	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-07D	5/11/2023	N	EM09	UMCf	96.8 - 106.5	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-07D	6/13/2023	N	EM10	UMCf	96.8 - 106.5	<4.06 UJ	<0.101 UJ	<0.127 UJ	<0.300 UJ	<0.278 UJ	<0.149 UJ	<0.118 UJ	<0.190 UJ	<0.160 UJ	<0.234 UJ
U4-MW-07D	7/17/2023	N	EM11	UMCf	96.8 - 106.5	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.288 J	<0.160	<0.234
U4-MW-07D	8/11/2023	N	EM12	UMCf	96.8 - 106.5	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-07D	9/13/2023	N	EM13	UMCf	96.8 - 106.5	<4.06	<0.101	<0.127	<0.300	4.23	<0.149	<0.118	0.220 J	<0.160	<0.234
U4-MW-07D	10/18/2023	N	EM14	UMCf	96.8 - 106.5	<406	<10.1	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4
U4-MW-07D	11/16/2023	N	EM15	UMCf	96.8 - 106.5	<406	<10.1	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4
U4-MW-07D	12/12/2023	N	EM16	UMCf	96.8 - 106.5	<4.06	<0.101	<0.127	<0.300	12.0	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-07D	1/26/2024	N	EM17	UMCf	96.8 - 106.5	<4.06	<0.101	<0.127	<0.300	1.66 J+	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-07D	2/13/2024	N	EM18	UMCf	96.8 - 106.5	<102	<2.53	<3.18	<7.50	<6.95	<3.73	<2.95	<4.75	<4.00	<5.85
U4-MW-07D	3/11/2024	N	EM19	UMCf	96.8 - 106.5	<102	<2.53	<3.18	<7.50	<6.95	<3.73	<2.95	<4.75	<4.00	<5.85
U4-MW-07D	6/12/2024	N	EM20	UMCf	96.8 - 106.5	<4.06	<0.101	<0.127	<0.300	0.886 J	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-07D	9/18/2024	N	EM21	UMCf	96.8 - 106.5	<4.06	<0.101	<0.127	<0.300	1.12	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-07I	4/15/2022	N	BL02	UMCf	76.8 - 86.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-07I	10/12/2022	N	EM02	UMCf	76.8 - 86.8	<4.06	<0.101	<0.127	<0.300	0.315 J	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-07I	11/3/2022	N	EM03	UMCf	76.8 - 86.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						tert-Butyl Alcohol	tert-Butyl Methyl Ether (MTBE)	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-07I	12/7/2022	N	EM04	UMCf	76.8 - 86.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-07I	1/11/2023	N	EM05	UMCf	76.8 - 86.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-07I	2/15/2023	N	EM06	UMCf	76.8 - 86.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-07I	3/16/2023	N	EM07	UMCf	76.8 - 86.8	<20.3	<0.505	<0.635	<1.50	<1.39	<0.745	<0.590	<0.950	<0.800	<1.17
U4-MW-07I	4/21/2023	N	EM08	UMCf	76.8 - 86.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-07I	5/11/2023	N	EM09	UMCf	76.8 - 86.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-07I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<20.3	<0.505	<0.635	<1.50	<1.39	<0.745	<0.590	<0.950	<0.800	<1.17
U4-MW-07I	7/17/2023	N	EM11	UMCf	76.8 - 86.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-07I	8/11/2023	N	EM12	UMCf	76.8 - 86.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-07I	9/13/2023	N	EM13	UMCf	76.8 - 86.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-07I	10/18/2023	N	EM14	UMCf	76.8 - 86.8	<203	<5.05	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7
U4-MW-07I	11/16/2023	N	EM15	UMCf	76.8 - 86.8	<203	<5.05	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7
U4-MW-07I	12/11/2023	N	EM16	UMCf	76.8 - 86.8	<4.06	<0.101	<0.127	<0.300	8.41	<0.149	<0.118	0.205 J	<0.160	<0.234
U4-MW-07I	1/26/2024	N	EM17	UMCf	76.8 - 86.8	<4.06	<0.101	<0.127	<0.300	1.30 J+	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-07I	2/13/2024	N	EM18	UMCf	76.8 - 86.8	<203	<5.05	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7
U4-MW-07I	3/11/2024	N	EM19	UMCf	76.8 - 86.8	<203	<5.05	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7
U4-MW-07I	6/12/2024	N	EM20	UMCf	76.8 - 86.8	<4.06	<0.101	<0.127	<0.300	0.570 J	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-07I	9/18/2024	N	EM21	UMCf	76.8 - 86.8	<4.06	<0.101	<0.127 UJ	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-08D	4/13/2022	N	BL02	UMCf	98.6 - 108.6	8.05	<0.101	<0.127	2.63	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-08D	12/7/2022	N	EM04	UMCf	98.6 - 108.6	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.670 J	<0.160	<0.234
U4-MW-08D	3/17/2023	N	EM07	UMCf	98.6 - 108.6	<406	<10.1	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4
U4-MW-08D	6/13/2023	N	EM10	UMCf	98.6 - 108.6	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.584 J	<0.160	<0.234
U4-MW-08D	9/13/2023	N	EM13	UMCf	98.6 - 108.6	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	1.09	<0.160	<0.234
U4-MW-08D	12/11/2023	N	EM16	UMCf	98.6 - 108.6	<4.06	<0.101	<0.127	<0.300	2.35 J+	<0.149	<0.118	0.565 J	<0.160	<0.234
U4-MW-08D	3/12/2024	N	EM19	UMCf	98.6 - 108.6	<812	<20.2	<25.4	<60.0	<55.6	<29.8	<23.6	<38.0	<32.0	<46.8
U4-MW-08D	6/14/2024	N	EM20	UMCf	98.6 - 108.6	<812	<20.2	<25.4	<60.0	<55.6	<29.8	<23.6 UJ	<38.0	<32.0	<46.8
U4-MW-08D	9/23/2024	N	EM21	UMCf	98.6 - 108.6	<4.06	<0.101	<0.127	<0.300	0.612 J	<0.149	<0.118	0.242 J	<0.160	<0.234
U4-MW-08DD	4/20/2022	N	BL02	UMCf	119.8 - 129.8	<4.06	<0.101	<0.127	<0.300	0.486 J	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-08DD	4/20/2022	FD	BL02	UMCf	119.8 - 129.8	<4.06	<0.101	<0.127	<0.300	0.531 J	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-08DD	12/8/2022	N	EM04	UMCf	119.8 - 129.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-08DD	3/15/2023	N	EM07	UMCf	119.8 - 129.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-08DD	6/14/2023	N	EM10	UMCf	119.8 - 129.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-08DD	9/14/2023	N	EM13	UMCf	119.8 - 129.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-08DD	12/14/2023	N	EM16	UMCf	119.8 - 129.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-08DD	3/14/2024	N	EM19	UMCf	119.8 - 129.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-08DD	6/12/2024	N	EM20	UMCf	119.8 - 129.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-08DD	9/20/2024	N	EM21	UMCf	119.8 - 129.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-08I	4/13/2022	N	BL02	UMCf	78.0 - 88.0	6.37	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.904 J	<0.160	0.413 J
U4-MW-08I	12/7/2022	N	EM04	UMCf	78.0 - 88.0	5.48	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.466 J	<0.160	<0.234
U4-MW-08I	12/7/2022	FD	EM04	UMCf	78.0 - 88.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.489 J	<0.160	<0.234
U4-MW-08I	3/17/2023	N	EM07	UMCf	78.0 - 88.0	<203	<5.05	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7
U4-MW-08I	6/13/2023	N	EM10	UMCf	78.0 - 88.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.329 J	<0.160	<0.234
U4-MW-08I	9/13/2023	N	EM13	UMCf	78.0 - 88.0	<4.06 UJ	<0.101	<0.127	0.405 J	<0.278	<0.149	<0.118	0.649 J	<0.160	<0.234
U4-MW-08I	12/11/2023	N	EM16	UMCf	78.0 - 88.0	<4.06	<0.101	<0.127	0.362 J	0.421 J	<0.149	<0.118	0.699 J	<0.160	<0.234
U4-MW-08I	3/12/2024	N	EM19	UMCf	78.0 - 88.0	<406	<10.1	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4
U4-MW-08I	6/14/2024	N	EM20	UMCf	78.0 - 88.0	<406	<10.1	<12.7	<30.0	<27.8	<14.9	<11.8 UJ	<19.0	<16.0	<23.4
U4-MW-08I	9/23/2024	N	EM21	UMCf	78.0 - 88.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						tert-Butyl Alcohol	tert-Butyl Methyl Ether (MTBE)	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-08S	4/15/2022	N	BL02	UMCf	54.9 - 64.9	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-08S	12/7/2022	N	EM04	UMCf	54.9 - 64.9	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-08S	12/7/2022	FD	EM04	UMCf	54.9 - 64.9	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-08S	3/13/2023	N	EM07	UMCf	54.9 - 64.9	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-08S	3/13/2023	FD	EM07	UMCf	54.9 - 64.9	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-08S	6/13/2023	N	EM10	UMCf	54.9 - 64.9	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-08S	6/13/2023	FD	EM10	UMCf	54.9 - 64.9	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-08S	9/13/2023	N	EM13	UMCf	54.9 - 64.9	<4.06	<0.101	<0.127	<0.300	1.64 J+	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-08S	9/13/2023	FD	EM13	UMCf	54.9 - 64.9	<4.06	<0.101	<0.127	<0.300	1.60 J+	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-08S	12/14/2023	N	EM16	UMCf	54.9 - 64.9	<4.06	<0.101	<0.127	<0.300	1.22 J+	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-08S	12/14/2023	FD	EM16	UMCf	54.9 - 64.9	<4.06	<0.101	<0.127	<0.300	1.24 J+	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-08S	3/14/2024	N	EM19	UMCf	54.9 - 64.9	<8.12 UJ	<0.202 UJ	<0.254 UJ	<0.600 UJ	1.50 J	<0.298 UJ	<0.236 UJ	<0.380 UJ	<0.320 UJ	<0.468 UJ
U4-MW-08S	3/14/2024	FD	EM19	UMCf	54.9 - 64.9	<8.12 UJ	<0.202 UJ	<0.254 UJ	<0.600 UJ	1.80 J	<0.298 UJ	<0.236 UJ	<0.380 UJ	<0.320 UJ	<0.468 UJ
U4-MW-08S	3/25/2024	N	EM19	UMCf	54.9 - 64.9	<4.06	<0.101	<0.127	<0.300	0.504 J	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-08S	3/25/2024	FD	EM19	UMCf	54.9 - 64.9	<4.06	<0.101	<0.127	<0.300	0.868 J	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-08S	6/14/2024	N	EM20	UMCf	54.9 - 64.9	<4.06	<0.101	<0.127	<0.300	1.24	<0.149	<0.118 UJ	<0.190	<0.160	<0.234
U4-MW-08S	6/14/2024	FD	EM20	UMCf	54.9 - 64.9	<4.06	<0.101	<0.127	<0.300	1.26	<0.149	<0.118 UJ	<0.190	<0.160	<0.234
U4-MW-08S	9/20/2024	N	EM21	UMCf	54.9 - 64.9	<4.06	<0.101	<0.127	<0.300	0.710 J	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-08S	9/20/2024	FD	EM21	UMCf	54.9 - 64.9	<4.06	<0.101	<0.127	<0.300	0.760 J	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-09D	4/14/2022	N	BL02	UMCf	96.9 - 106.9	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.195 J	<0.160	<0.234
U4-MW-09D	12/6/2022	N	EM04	UMCf	96.9 - 106.9	<40.6 UJ	<1.01 UJ	<1.27 UJ	<3.00 UJ	<2.78 UJ	<1.49 UJ	<1.18 UJ	<1.90 UJ	<1.60 UJ	<2.34 UJ
U4-MW-09D	3/16/2023	N	EM07	UMCf	96.9 - 106.9	<40.6	<1.01	<1.27	<3.00	<2.78	<1.49	<1.18	<1.90	<1.60	<2.34
U4-MW-09D	6/14/2023	N	EM10	UMCf	96.9 - 106.9	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-09D	9/12/2023	N	EM13	UMCf	96.9 - 106.9	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-09D	12/15/2023	N	EM16	UMCf	96.9 - 106.9	<102 UJ	<2.53 UJ	<3.18 UJ	<7.50 UJ	<6.95 UJ	<3.73 UJ	<2.95 UJ	<4.75 UJ	<4.00 UJ	<5.85 UJ
U4-MW-09D	3/13/2024	N	EM19	UMCf	96.9 - 106.9	<4.06	<0.101	<0.127	<0.300	2.81	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-09D	6/13/2024	N	EM20	UMCf	96.9 - 106.9	<4.06	<0.101	<0.127	<0.300	6.01	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-09D	9/19/2024	N	EM21	UMCf	96.9 - 106.9	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-09DD	4/14/2022	N	BL02	UMCf	119.8 - 129.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-09DD	12/6/2022	N	EM04	UMCf	119.8 - 129.8	<4.06 UJ	<0.101 UJ	<0.127 UJ	<0.300 UJ	<0.278 UJ	<0.149 UJ	<0.118 UJ	<0.190 UJ	<0.160 UJ	<0.234 UJ
U4-MW-09DD	3/21/2023	N	EM07	UMCf	119.8 - 129.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-09DD	6/15/2023	N	EM10	UMCf	119.8 - 129.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-09DD	9/13/2023	N	EM13	UMCf	119.8 - 129.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-09DD	12/13/2023	N	EM16	UMCf	119.8 - 129.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-09DD	3/14/2024	N	EM19	UMCf	119.8 - 129.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-09DD	6/13/2024	N	EM20	UMCf	119.8 - 129.8	<4.06	<0.101	<0.127	<0.300	0.381 J	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-09DD	9/20/2024	N	EM21	UMCf	119.8 - 129.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-09I	4/14/2022	N	BL02	UMCf	76.8 - 86.8	<4.06	<0.101	<0.127	<0.300	3.30	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-09I	12/6/2022	N	EM04	UMCf	76.8 - 86.8	<40.6 UJ	<1.01 UJ	<1.27 UJ	<3.00 UJ	<2.78 UJ	<1.49 UJ	<1.18 UJ	<1.90 UJ	<1.60 UJ	<2.34 UJ
U4-MW-09I	3/16/2023	N	EM07	UMCf	76.8 - 86.8	<40.6	<1.01	<1.27	<3.00	<2.78	<1.49	<1.18	<1.90	<1.60	<2.34
U4-MW-09I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-09I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-09I	12/15/2023	N	EM16	UMCf	76.8 - 86.8	<102 UJ	<2.53 UJ	<3.18 UJ	<7.50 UJ	<6.95 UJ	<3.73 UJ	<2.95 UJ	<4.75 UJ	<4.00 UJ	<5.85 UJ
U4-MW-09I	3/13/2024	N	EM19	UMCf	76.8 - 86.8	<4.06	<0.101	<0.127	<0.300	3.17	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-09I	6/13/2024	N	EM20	UMCf	76.8 - 86.8	<4.06	<0.101	<0.127	<0.300	1.49	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-09I	9/19/2024	N	EM21	UMCf	76.8 - 86.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-09S	4/14/2022	N	BL02	UMCf	55.3 - 65.3	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234

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Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						tert-Butyl Alcohol	tert-Butyl Methyl Ether (MTBE)	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-09S	12/6/2022	N	EM04	UMCf	55.3 - 65.3	<4.06 UJ	<0.101 UJ	<0.127 UJ	<0.300 UJ	<0.278 UJ	<0.149 UJ	<0.118 UJ	<0.190 UJ	<0.160 UJ	<0.234 UJ
U4-MW-09S	3/17/2023	N	EM07	UMCf	55.3 - 65.3	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-09S	6/15/2023	N	EM10	UMCf	55.3 - 65.3	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-09S	9/13/2023	N	EM13	UMCf	55.3 - 65.3	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-09S	12/12/2023	N	EM16	UMCf	55.3 - 65.3	<4.06	<0.101	<0.127	<0.300	1.37	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-09S	3/13/2024	N	EM19	UMCf	55.3 - 65.3	<4.06	<0.101	<0.127	<0.300	1.26	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-09S	6/13/2024	N	EM20	UMCf	55.3 - 65.3	<4.06	<0.101	<0.127	<0.300	1.89	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-09S	9/19/2024	N	EM21	UMCf	55.3 - 65.3	12.4 J+	<0.101	<0.127	<0.300	0.743 J	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-10D	4/14/2022	N	BL02	UMCf	96.9 - 106.9	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-10D	12/5/2022	N	EM04	UMCf	96.9 - 106.9	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-10D	3/17/2023	N	EM07	UMCf	96.9 - 106.9	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-10D	6/14/2023	N	EM10	UMCf	96.9 - 106.9	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-10D	9/13/2023	N	EM13	UMCf	96.9 - 106.9	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-10D	12/14/2023	N	EM16	UMCf	96.9 - 106.9	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-10D	3/14/2024	N	EM19	UMCf	96.9 - 106.9	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-10D	6/11/2024	N	EM20	UMCf	96.9 - 106.9	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-10D	9/26/2024	N	EM21	UMCf	96.9 - 106.9	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-10I	4/14/2022	N	BL02	UMCf	77.1 - 87.1	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-10I	12/5/2022	N	EM04	UMCf	77.1 - 87.1	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-10I	3/17/2023	N	EM07	UMCf	77.1 - 87.1	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-10I	6/14/2023	N	EM10	UMCf	77.1 - 87.1	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-10I	9/13/2023	N	EM13	UMCf	77.1 - 87.1	<4.06	<0.101	<0.127	<0.300	6.13	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-10I	12/14/2023	N	EM16	UMCf	77.1 - 87.1	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-10I	3/13/2024	N	EM19	UMCf	77.1 - 87.1	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.308 J	<0.160	<0.234
U4-MW-10I	6/11/2024	N	EM20	UMCf	77.1 - 87.1	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-10I	9/25/2024	N	EM21	UMCf	77.1 - 87.1	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-11D	4/15/2022	N	BL02	UMCf	97.4 - 107.4	<406	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.873 J	<0.160	<0.234
U4-MW-11D	9/26/2022	N	EM01	UMCf	97.4 - 107.4	<203	<5.05	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7
U4-MW-11D	10/11/2022	N	EM02	UMCf	97.4 - 107.4	<40.6	<1.01	<1.27	<3.00	<2.78	<1.49	<1.18	<1.90	<1.60	<2.34
U4-MW-11D	11/1/2022	N	EM03	UMCf	97.4 - 107.4	<203	<5.05	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7
U4-MW-11D	12/6/2022	N	EM04	UMCf	97.4 - 107.4	<102 UJ	<2.53 UJ	<3.18 UJ	<7.50 UJ	<6.95 UJ	<3.73 UJ	<2.95 UJ	<4.75 UJ	<4.00 UJ	<5.85 UJ
U4-MW-11D	1/12/2023	N	EM05	UMCf	97.4 - 107.4	<812	<20.2	<25.4	<60.0	<55.6	<29.8	<23.6	<38.0	<32.0	<46.8
U4-MW-11D	2/14/2023	N	EM06	UMCf	97.4 - 107.4	<812	<20.2	<25.4	<60.0	<55.6	<29.8	<23.6	<38.0	<32.0	<46.8
U4-MW-11D	3/16/2023	N	EM07	UMCf	97.4 - 107.4	<812	<20.2	<25.4	<60.0	<55.6	<29.8	<23.6	<38.0	<32.0	<46.8
U4-MW-11D	4/18/2023	N	EM08	UMCf	97.4 - 107.4	<20.3	<0.505	<0.635	<1.50	<1.39	<0.745	<0.590	<0.950	<0.800	<1.17
U4-MW-11D	5/17/2023	N	EM09	UMCf	97.4 - 107.4	<81.2 UJ	<2.02 UJ	<2.54 UJ	<6.00 UJ	<5.56 UJ	<2.98 UJ	<2.36 UJ	<3.80 UJ	<3.20 UJ	<4.68 UJ
U4-MW-11D	6/16/2023	N	EM10	UMCf	97.4 - 107.4	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<9.50	<0.160	<0.234
U4-MW-11D	7/14/2023	N	EM11	UMCf	97.4 - 107.4	5.22	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.875 J	<0.160 UJ	<0.234
U4-MW-11D	8/14/2023	N	EM12	UMCf	97.4 - 107.4	<812	<20.2	<25.4	<60.0	<55.6	<29.8	<23.6	<38.0	<32.0	<46.8
U4-MW-11D	9/13/2023	N	EM13	UMCf	97.4 - 107.4	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.637 J	<0.160	<0.234
U4-MW-11D	10/18/2023	N	EM14	UMCf	97.4 - 107.4	<812	<20.2	<25.4	<60.0	<55.6	<29.8	<23.6	<38.0	<32.0	<46.8
U4-MW-11D	11/16/2023	N	EM15	UMCf	97.4 - 107.4	<203	<5.05	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7
U4-MW-11D	12/13/2023	N	EM16	UMCf	97.4 - 107.4	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.474 J	<0.160	<0.234
U4-MW-11D	1/25/2024	N	EM17	UMCf	97.4 - 107.4	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.325 J	<0.160	<0.234
U4-MW-11D	2/14/2024	N	EM18	UMCf	97.4 - 107.4	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.286	<0.160	<0.234
U4-MW-11D	3/12/2024	N	EM19	UMCf	97.4 - 107.4	<406	<10.1	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4
U4-MW-11D	6/12/2024	N	EM20	UMCf	97.4 - 107.4	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.202 J	<0.160	<0.234

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						tert-Butyl Alcohol	tert-Butyl Methyl Ether (MTBE)	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride
						μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L
U4-MW-11D	9/23/2024	N	EM21	UMCf	97.4 - 107.4	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.744 J	<0.160	<0.234
U4-MW-11I	4/14/2022	N	BL02	UMCf	77.0 - 87.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.194 J	<0.160	<0.234
U4-MW-11I	9/26/2022	N	EM01	UMCf	77.0 - 87.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-11I	9/26/2022	FD	EM01	UMCf	77.0 - 87.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-11I	10/10/2022	N	EM02	UMCf	77.0 - 87.0	<40.6	<1.01	<1.27	95.7 J	3.30 J	<1.49	<1.18	<1.90	<1.60	<2.34
U4-MW-11I	10/10/2022	FD	EM02	UMCf	77.0 - 87.0	<4.06	<0.101	<0.127	1.82 J	<0.278	<0.149	<0.118	0.631 J	<0.160	<0.234
U4-MW-11I	10/31/2022	N	EM03	UMCf	77.0 - 87.0	<20.3	<0.505	<0.635	<1.50	<1.39	<0.745	<0.590	<0.950	<0.800	<1.17
U4-MW-11I	10/31/2022	FD	EM03	UMCf	77.0 - 87.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-11I	12/6/2022	N	EM04	UMCf	77.0 - 87.0	<4.06 UJ	<0.101 UJ	<0.127 UJ	<0.300 UJ	<0.278 UJ	<0.149 UJ	<0.118 UJ	<0.190 UJ	<0.160 UJ	<0.234 UJ
U4-MW-11I	12/6/2022	FD	EM04	UMCf	77.0 - 87.0	<4.06 UJ	<0.101 UJ	<0.127 UJ	<0.300 UJ	<0.278 UJ	<0.149 UJ	<0.118 UJ	<0.190 UJ	<0.160 UJ	<0.234 UJ
U4-MW-11I	1/12/2023	N	EM05	UMCf	77.0 - 87.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-11I	1/12/2023	FD	EM05	UMCf	77.0 - 87.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-11I	2/14/2023	N	EM06	UMCf	77.0 - 87.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.472 J	<0.160	<0.234
U4-MW-11I	2/14/2023	FD	EM06	UMCf	77.0 - 87.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.478 J	<0.160	<0.234
U4-MW-11I	3/16/2023	N	EM07	UMCf	77.0 - 87.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-11I	3/16/2023	FD	EM07	UMCf	77.0 - 87.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-11I	4/18/2023	N	EM08	UMCf	77.0 - 87.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-11I	4/18/2023	FD	EM08	UMCf	77.0 - 87.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-11I	5/19/2023	N	EM09	UMCf	77.0 - 87.0	<4.06 UJ	<0.101 UJ	<0.127 UJ	<0.300 UJ	<0.278 UJ	<0.149 UJ	<0.118 UJ	<0.190 UJ	<0.160 UJ	<0.234 UJ
U4-MW-11I	5/19/2023	FD	EM09	UMCf	77.0 - 87.0	<4.06 UJ	<0.101 UJ	<0.127 UJ	<0.300 UJ	<0.278 UJ	<0.149 UJ	<0.118 UJ	<0.190 UJ	<0.160 UJ	<0.234 UJ
U4-MW-11I	6/15/2023	N	EM10	UMCf	77.0 - 87.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-11I	6/15/2023	FD	EM10	UMCf	77.0 - 87.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-11I	7/13/2023	N	EM11	UMCf	77.0 - 87.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-11I	7/13/2023	FD	EM11	UMCf	77.0 - 87.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-11I	8/14/2023	N	EM12	UMCf	77.0 - 87.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-11I	8/14/2023	FD	EM12	UMCf	77.0 - 87.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.275 J	<0.160	<0.234
U4-MW-11I	9/13/2023	N	EM13	UMCf	77.0 - 87.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.306 J	<0.160	<0.234
U4-MW-11I	9/13/2023	FD	EM13	UMCf	77.0 - 87.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.362 J	<0.160	<0.234
U4-MW-11I	10/19/2023	N	EM14	UMCf	77.0 - 87.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.618 J	<0.160	<0.234
U4-MW-11I	10/19/2023	FD	EM14	UMCf	77.0 - 87.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.680 J	<0.160	<0.234
U4-MW-11I	11/16/2023	N	EM15	UMCf	77.0 - 87.0	<203	<5.05	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7
U4-MW-11I	11/16/2023	FD	EM15	UMCf	77.0 - 87.0	<203	<5.05	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7
U4-MW-11I	12/13/2023	N	EM16	UMCf	77.0 - 87.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-11I	12/13/2023	FD	EM16	UMCf	77.0 - 87.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.248 J	<0.160	<0.234
U4-MW-11I	1/25/2024	N	EM17	UMCf	77.0 - 87.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-11I	1/25/2024	FD	EM17	UMCf	77.0 - 87.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-11I	2/14/2024	N	EM18	UMCf	77.0 - 87.0	<203	<5.05	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7
U4-MW-11I	2/14/2024	FD	EM18	UMCf	77.0 - 87.0	<203	<5.05	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7
U4-MW-11I	3/13/2024	N	EM19	UMCf	77.0 - 87.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-11I	3/13/2024	FD	EM19	UMCf	77.0 - 87.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.194 J	<0.160	<0.234
U4-MW-11I	6/12/2024	N	EM20	UMCf	77.0 - 87.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.235 J	<0.160	<0.234
U4-MW-11I	6/12/2024	FD	EM20	UMCf	77.0 - 87.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.423 J	<0.160	<0.234
U4-MW-11I	9/23/2024	N	EM21	UMCf	77.0 - 87.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.503 J	<0.160	<0.234
U4-MW-11I	9/23/2024	FD	EM21	UMCf	77.0 - 87.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.376 J	<0.160	<0.234
U4-MW-12D	4/15/2022	N	BL02	UMCf	97.1 - 107.1	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.752 J	<0.160	<0.234
U4-MW-12D	9/27/2022	N	EM01	UMCf	97.1 - 107.1	<81.2	<2.02	<2.54	<6.00	<5.56	<2.98	<2.36	<3.80	<3.20	<4.68
U4-MW-12D	10/12/2022	N	EM02	UMCf	97.1 - 107.1	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.684 J	<0.160	<0.234

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Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						tert-Butyl Alcohol	tert-Butyl Methyl Ether (MTBE)	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-12D	11/2/2022	N	EM03	UMCf	97.1 - 107.1	<40.6	<1.01	<1.27	<3.00	<2.78	<1.49	<1.18	<1.90	<1.60	<2.34
U4-MW-12D	12/7/2022	N	EM04	UMCf	97.1 - 107.1	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.741 J	<0.160	<0.234
U4-MW-12D	1/12/2023	N	EM05	UMCf	97.1 - 107.1	<406	<10.1	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4
U4-MW-12D	2/15/2023	N	EM06	UMCf	97.1 - 107.1	<406	<10.1	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4
U4-MW-12D	3/14/2023	N	EM07	UMCf	97.1 - 107.1	<203	<5.05	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7
U4-MW-12D	4/17/2023	N	EM08	UMCf	97.1 - 107.1	<20.3 UJ	<0.505 UJ	<0.635 UJ	<1.50 UJ	<1.39 UJ	<0.745 UJ	<0.590 UJ	<0.950 UJ	<0.800 UJ	<1.17 UJ
U4-MW-12D	5/17/2023	N	EM09	UMCf	97.1 - 107.1	<406	<10.1	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4
U4-MW-12D	6/16/2023	N	EM10	UMCf	97.1 - 107.1	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<9.50	<0.160	<0.234
U4-MW-12D	7/13/2023	N	EM11	UMCf	97.1 - 107.1	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.192 J	<0.160	<0.234
U4-MW-12D	8/14/2023	N	EM12	UMCf	97.1 - 107.1	<203	<5.05	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7
U4-MW-12D	9/12/2023	N	EM13	UMCf	97.1 - 107.1	<203	<5.05	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7
U4-MW-12D	10/17/2023	N	EM14	UMCf	97.1 - 107.1	<20.3	<0.505	<0.635	<1.50	<1.39	<0.745	<0.590	<0.950	<0.800	<1.17
U4-MW-12D	11/15/2023	N	EM15	UMCf	97.1 - 107.1	<20.3	<0.505	<0.635	<1.50	<1.39	<0.745	<0.590	<0.950	<0.800	<1.17
U4-MW-12D	12/12/2023	N	EM16	UMCf	97.1 - 107.1	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-12D	1/24/2024	N	EM17	UMCf	97.1 - 107.1	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-12D	2/13/2024	N	EM18	UMCf	97.1 - 107.1	<81.2	<2.02	<2.54	<6.00	<5.56	<2.98	<2.36	<3.80	<3.20	<4.68
U4-MW-12D	3/12/2024	N	EM19	UMCf	97.1 - 107.1	<81.2	<2.02	<2.54	<6.00	<5.56	<2.98	<2.36	<3.80	<3.20	<4.68
U4-MW-12D	6/12/2024	N	EM20	UMCf	97.1 - 107.1	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-12D	9/24/2024	N	EM21	UMCf	97.1 - 107.1	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<9.50	<0.160	<0.234
U4-MW-12I	4/14/2022	N	BL02	UMCf	76.8 - 86.8	5.31	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.363 J	<0.160	<0.234
U4-MW-12I	4/14/2022	FD	BL02	UMCf	76.8 - 86.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.314 J	<0.160	<0.234
U4-MW-12I	9/27/2022	N	EM01	UMCf	76.8 - 86.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-12I	10/12/2022	N	EM02	UMCf	76.8 - 86.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-12I	11/2/2022	N	EM03	UMCf	76.8 - 86.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-12I	12/7/2022	N	EM04	UMCf	76.8 - 86.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-12I	12/7/2022	FD	EM04	UMCf	76.8 - 86.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-12I	1/13/2023	N	EM05	UMCf	76.8 - 86.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-12I	2/15/2023	N	EM06	UMCf	76.8 - 86.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-12I	3/13/2023	N	EM07	UMCf	76.8 - 86.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-12I	4/17/2023	N	EM08	UMCf	76.8 - 86.8	<4.06 UJ	<0.101 UJ	<0.127 UJ	<0.300 UJ	<0.278 UJ	<0.149 UJ	<0.118 UJ	<0.190 UJ	<0.160 UJ	<0.234 UJ
U4-MW-12I	5/17/2023	N	EM09	UMCf	76.8 - 86.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-12I	6/16/2023	N	EM10	UMCf	76.8 - 86.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-12I	7/11/2023	N	EM11	UMCf	76.8 - 86.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-12I	8/14/2023	N	EM12	UMCf	76.8 - 86.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-12I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-12I	10/17/2023	N	EM14	UMCf	76.8 - 86.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-12I	11/16/2023	N	EM15	UMCf	76.8 - 86.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-12I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-12I	1/24/2024	N	EM17	UMCf	76.8 - 86.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-12I	2/13/2024	N	EM18	UMCf	76.8 - 86.8	<81.2	<2.02	<2.54	<6.00	<5.56	<2.98	<2.36	<3.80	<3.20	<4.68
U4-MW-12I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	<81.2	<2.02	<2.54	<6.00	<5.56	<2.98	<2.36	<3.80	<3.20	<4.68
U4-MW-12I	6/13/2024	N	EM20	UMCf	76.8 - 86.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-12I	9/23/2024	N	EM21	UMCf	76.8 - 86.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.284 J	<0.160	<0.234
U4-MW-13D	4/14/2022	N	BL02	UMCf	98.2 - 108.2	7.16	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.456 J	<0.160	<0.234
U4-MW-13D	9/28/2022	N	EM01	UMCf	98.2 - 108.2	<40.6	<1.01	<1.27	<3.00	<2.78	<1.49	<1.18	<1.90	<1.60	<2.34
U4-MW-13D	10/11/2022	N	EM02	UMCf	98.2 - 108.2	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-13D	11/3/2022	N	EM03	UMCf	98.2 - 108.2	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						tert-Butyl Alcohol	tert-Butyl Methyl Ether (MTBE)	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-13D	12/7/2022	N	EM04	UMCf	98.2 - 108.2	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-13D	1/12/2023	N	EM05	UMCf	98.2 - 108.2	<81.2	<2.02	<2.54	<6.00	<5.56	<2.98	<2.36	<3.80	<3.20	<4.68
U4-MW-13D	2/15/2023	N	EM06	UMCf	98.2 - 108.2	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-13D	3/17/2023	N	EM07	UMCf	98.2 - 108.2	<81.2	<2.02	<2.54	<6.00	<5.56	<2.98	<2.36	<3.80	<3.20	<4.68
U4-MW-13D	4/18/2023	N	EM08	UMCf	98.2 - 108.2	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-13D	5/17/2023	N	EM09	UMCf	98.2 - 108.2	<81.2	<2.02	<2.54	<6.00	<5.56	<2.98	<2.36	<3.80	<3.20	<4.68
U4-MW-13D	6/15/2023	N	EM10	UMCf	98.2 - 108.2	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-13D	7/12/2023	N	EM11	UMCf	98.2 - 108.2	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-13D	8/11/2023	N	EM12	UMCf	98.2 - 108.2	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-13D	9/11/2023	N	EM13	UMCf	98.2 - 108.2	<102	<2.53	<3.18	<7.50	<6.95	<3.73	<2.95	<4.75	<4.00	<5.85
U4-MW-13D	10/18/2023	N	EM14	UMCf	98.2 - 108.2	<102	<2.53	<3.18	<7.50	<6.95	<3.73	<2.95	<4.75	<4.00	<5.85
U4-MW-13D	11/15/2023	N	EM15	UMCf	98.2 - 108.2	<102	<2.53	<3.18	<7.50	<6.95	<3.73	<2.95	<4.75	<4.00	<5.85
U4-MW-13D	12/11/2023	N	EM16	UMCf	98.2 - 108.2	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-13D	1/23/2024	N	EM17	UMCf	98.2 - 108.2	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-13D	2/12/2024	N	EM18	UMCf	98.2 - 108.2	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-13D	3/11/2024	N	EM19	UMCf	98.2 - 108.2	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-13D	6/13/2024	N	EM20	UMCf	98.2 - 108.2	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-13D	9/20/2024	N	EM21	UMCf	98.2 - 108.2	<203	<5.05	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7
U4-MW-13I	4/14/2022	N	BL02	UMCf	77.1 - 87.1	4.13 J	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.291 J	<0.160	<0.234
U4-MW-13I	9/28/2022	N	EM01	UMCf	77.1 - 87.1	<4.06	<0.101	<0.127	<0.300	0.395 J	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-13I	10/10/2022	N	EM02	UMCf	77.1 - 87.1	<4.06	<0.101	<0.127	5.02	0.914 J	<0.149	<0.118	1.49	<0.160	<0.234
U4-MW-13I	11/3/2022	N	EM03	UMCf	77.1 - 87.1	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-13I	12/6/2022	N	EM04	UMCf	77.1 - 87.1	<20.3 UJ	<0.505 UJ	<0.635 UJ	<1.50 UJ	<1.39 UJ	<0.745 UJ	<0.590 UJ	<0.950 UJ	<0.800 UJ	<1.17 UJ
U4-MW-13I	1/12/2023	N	EM05	UMCf	77.1 - 87.1	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-13I	2/14/2023	N	EM06	UMCf	77.1 - 87.1	<20.3	<0.505	<0.635	<1.50	<1.39	<0.745	<0.590	<0.950	<0.800	<1.17
U4-MW-13I	3/16/2023	N	EM07	UMCf	77.1 - 87.1	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-13I	4/19/2023	N	EM08	UMCf	77.1 - 87.1	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-13I	5/17/2023	N	EM09	UMCf	77.1 - 87.1	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-13I	6/15/2023	N	EM10	UMCf	77.1 - 87.1	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118 UJ	<0.190	<0.160	<0.234
U4-MW-13I	7/12/2023	N	EM11	UMCf	77.1 - 87.1	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-13I	8/11/2023	N	EM12	UMCf	77.1 - 87.1	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-13I	9/11/2023	N	EM13	UMCf	77.1 - 87.1	<102	<2.53	<3.18	<7.50	<6.95	<3.73	<2.95	<4.75	<4.00	<5.85
U4-MW-13I	10/17/2023	N	EM14	UMCf	77.1 - 87.1	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-13I	11/15/2023	N	EM15	UMCf	77.1 - 87.1	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.200 J	<0.160	<0.234
U4-MW-13I	12/11/2023	N	EM16	UMCf	77.1 - 87.1	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-13I	1/23/2024	N	EM17	UMCf	77.1 - 87.1	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-13I	2/12/2024	N	EM18	UMCf	77.1 - 87.1	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-13I	3/11/2024	N	EM19	UMCf	77.1 - 87.1	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-13I	6/13/2024	N	EM20	UMCf	77.1 - 87.1	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-13I	9/20/2024	N	EM21	UMCf	77.1 - 87.1	<203	<5.05	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7
U4-MW-14D	4/13/2022	N	BL02	UMCf	97.3 - 107.3	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.295 J	<0.160	<0.234
U4-MW-14D	12/6/2022	N	EM04	UMCf	97.3 - 107.3	<20.3 UJ	<0.505 UJ	<0.635 UJ	<1.50 UJ	<1.39 UJ	<0.745 UJ	<0.590 UJ	<0.950 UJ	<0.800 UJ	<1.17 UJ
U4-MW-14D	3/16/2023	N	EM07	UMCf	97.3 - 107.3	<20.3	<0.505	<0.635	<1.50	<1.39	<0.745	<0.590	<0.950	<0.800	<1.17
U4-MW-14D	6/15/2023	N	EM10	UMCf	97.3 - 107.3	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-14D	9/14/2023	N	EM13	UMCf	97.3 - 107.3	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-14D	12/15/2023	N	EM16	UMCf	97.3 - 107.3	<4.06	<0.101	<0.127	<0.300	0.400 J	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-14D	3/13/2024	N	EM19	UMCf	97.3 - 107.3	<4.06	<0.101	<0.127	<0.300	0.540 J	<0.149	<0.118	<0.190	<0.160	<0.234

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						tert-Butyl Alcohol	tert-Butyl Methyl Ether (MTBE)	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-14D	6/13/2024	N	EM20	UMCf	97.3 - 107.3	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-14D	9/19/2024	N	EM21	UMCf	97.3 - 107.3	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-14I	4/14/2022	N	BL02	UMCf	77.3 - 87.3	6.75	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-14I	12/6/2022	N	EM04	UMCf	77.3 - 87.3	<20.3 UJ	<0.505 UJ	<0.635 UJ	<1.50 UJ	<1.39 UJ	<0.745 UJ	<0.590 UJ	<0.950 UJ	<0.800 UJ	<1.17 UJ
U4-MW-14I	3/16/2023	N	EM07	UMCf	77.3 - 87.3	<20.3	<0.505	<0.635	<1.50	<1.39	<0.745	<0.590	<0.950	<0.800	<1.17
U4-MW-14I	6/15/2023	N	EM10	UMCf	77.3 - 87.3	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-14I	9/14/2023	N	EM13	UMCf	77.3 - 87.3	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-14I	12/14/2023	N	EM16	UMCf	77.3 - 87.3	<4.06	<0.101	<0.127	<0.300	0.903 J	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-14I	3/13/2024	N	EM19	UMCf	77.3 - 87.3	<4.06	<0.101	<0.127	<0.300	0.750 J	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-14I	6/14/2024	N	EM20	UMCf	77.3 - 87.3	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118 UJ	<0.190	<0.160	<0.234
U4-MW-14I	9/19/2024	N	EM21	UMCf	77.3 - 87.3	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-15D	4/13/2022	N	BL02	UMCf	96.0 - 106.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-15D	12/5/2022	N	EM04	UMCf	96.0 - 106.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-15D	3/20/2023	N	EM07	UMCf	96.0 - 106.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-15D	6/14/2023	N	EM10	UMCf	96.0 - 106.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-15D	9/13/2023	N	EM13	UMCf	96.0 - 106.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-15D	12/12/2023	N	EM16	UMCf	96.0 - 106.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-15D	3/12/2024	N	EM19	UMCf	96.0 - 106.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-15D	6/14/2024	N	EM20	UMCf	96.0 - 106.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118 UJ	<0.190	<0.160	<0.234
U4-MW-15D	9/24/2024	N	EM21	UMCf	96.0 - 106.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-15DD	4/13/2022	N	BL02	UMCf	120.3 - 130.3	4.48 J	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-15DD	12/5/2022	N	EM04	UMCf	120.3 - 130.3	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-15DD	3/15/2023	N	EM07	UMCf	120.3 - 130.3	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-15DD	6/13/2023	N	EM10	UMCf	120.3 - 130.3	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-15DD	9/14/2023	N	EM13	UMCf	120.3 - 130.3	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-15DD	12/13/2023	N	EM16	UMCf	120.3 - 130.3	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-15DD	3/12/2024	N	EM19	UMCf	120.3 - 130.3	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-15DD	6/14/2024	N	EM20	UMCf	120.3 - 130.3	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118 UJ	<0.190	<0.160	<0.234
U4-MW-15DD	9/24/2024	N	EM21	UMCf	120.3 - 130.3	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-15I	4/12/2022	N	BL02	UMCf	76.8 - 86.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.215 J	<0.160	<0.234
U4-MW-15I	12/5/2022	N	EM04	UMCf	76.8 - 86.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-15I	3/17/2023	N	EM07	UMCf	76.8 - 86.8	<81.2	<2.02	<2.54	<6.00	<5.56	<2.98	<2.36	<3.80	<3.20	<4.68
U4-MW-15I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-15I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-15I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-15I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	<203	<5.05	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7
U4-MW-15I	6/17/2024	N	EM20	UMCf	76.8 - 86.8	<203	<5.05	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7
U4-MW-15I	9/25/2024	N	EM21	UMCf	76.8 - 86.8	<203 UJ	<5.05 UJ	<6.35 UJ	<15.0 UJ	<13.9 UJ	<7.45 UJ	<5.90 UJ	<9.50 UJ	<8.00 UJ	<11.7 UJ
U4-MW-15S	4/13/2022	N	BL02	UMCf	54.8 - 64.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-15S	12/5/2022	N	EM04	UMCf	54.8 - 64.8	<102	<2.53	<3.18	<7.50	<6.95	<3.73	<2.95	<4.75	<4.00	<5.85
U4-MW-15S	3/13/2023	N	EM07	UMCf	54.8 - 64.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-15S	6/13/2023	N	EM10	UMCf	54.8 - 64.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-15S	9/14/2023	N	EM13	UMCf	54.8 - 64.8	<4.06	<0.101	<0.127	<0.300	61.9	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-15S	12/11/2023	N	EM16	UMCf	54.8 - 64.8	<8.12	<0.202	<0.254	<0.600	13.7	<0.298	<0.236	<0.380	<0.320	<0.468
U4-MW-15S	3/12/2024	N	EM19	UMCf	54.8 - 64.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-15S	3/26/2024	N	EM19	UMCf	54.8 - 64.8	<4.06	<0.101	<0.127	<0.300	2.54	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-15S	6/14/2024	N	EM20	UMCf	54.8 - 64.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118 UJ	<0.190	<0.160	<0.234

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						tert-Butyl Alcohol	tert-Butyl Methyl Ether (MTBE)	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-15S	9/20/2024	N	EM21	UMCf	54.8 - 64.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-16D	4/11/2022	N	BL02	UMCf	96.8 - 106.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.534 J	<0.160	<0.234
U4-MW-16D	12/5/2022	N	EM04	UMCf	96.8 - 106.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.260 J	<0.160	<0.234
U4-MW-16D	3/14/2023	N	EM07	UMCf	96.8 - 106.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-16D	6/13/2023	N	EM10	UMCf	96.8 - 106.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.418 J	<0.160	<0.234
U4-MW-16D	9/15/2023	N	EM13	UMCf	96.8 - 106.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-16D	12/14/2023	N	EM16	UMCf	96.8 - 106.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-16D	3/14/2024	N	EM19	UMCf	96.8 - 106.8	<203	<5.05	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7
U4-MW-16D	6/17/2024	N	EM20	UMCf	96.8 - 106.8	<203	<5.05	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7
U4-MW-16D	9/20/2024	N	EM21	UMCf	96.8 - 106.8	<203	<5.05	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7
U4-MW-16DD	4/12/2022	N	BL02	UMCf	120.8 - 130.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-16DD	12/5/2022	N	EM04	UMCf	120.8 - 130.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-16DD	3/15/2023	N	EM07	UMCf	120.8 - 130.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-16DD	6/13/2023	N	EM10	UMCf	120.8 - 130.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-16DD	9/14/2023	N	EM13	UMCf	120.8 - 130.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-16DD	12/13/2023	N	EM16	UMCf	120.8 - 130.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-16DD	3/14/2024	N	EM19	UMCf	120.8 - 130.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-16DD	6/17/2024	N	EM20	UMCf	120.8 - 130.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-16DD	9/19/2024	N	EM21	UMCf	120.8 - 130.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-16I	4/11/2022	N	BL02	UMCf	77.0 - 87.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-16I	12/5/2022	N	EM04	UMCf	77.0 - 87.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-16I	12/5/2022	FD	EM04	UMCf	77.0 - 87.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-16I	3/13/2023	N	EM07	UMCf	77.0 - 87.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-16I	3/13/2023	FD	EM07	UMCf	77.0 - 87.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-16I	6/12/2023	N	EM10	UMCf	77.0 - 87.0	6.66 J+	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-16I	6/12/2023	FD	EM10	UMCf	77.0 - 87.0	4.56 J	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-16I	9/11/2023	N	EM13	UMCf	77.0 - 87.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-16I	9/11/2023	FD	EM13	UMCf	77.0 - 87.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-16I	12/11/2023	N	EM16	UMCf	77.0 - 87.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.456 J	<0.160	<0.234
U4-MW-16I	12/11/2023	FD	EM16	UMCf	77.0 - 87.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.446 J	<0.160	<0.234
U4-MW-16I	3/11/2024	N	EM19	UMCf	77.0 - 87.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.367 J	<0.160	<0.234
U4-MW-16I	3/11/2024	FD	EM19	UMCf	77.0 - 87.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.276 J	<0.160	<0.234
U4-MW-16I	6/18/2024	N	EM20	UMCf	77.0 - 87.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-16I	6/18/2024	FD	EM20	UMCf	77.0 - 87.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-16I	9/19/2024	N	EM21	UMCf	77.0 - 87.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.471 J	<0.160	<0.234
U4-MW-16I	9/19/2024	FD	EM21	UMCf	77.0 - 87.0	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.390 J	<0.160	<0.234
U4-MW-16S	4/12/2022	N	BL02	UMCf	54.8 - 64.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-16S	4/12/2022	FD	BL02	UMCf	54.8 - 64.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-16S	12/6/2022	N	EM04	UMCf	54.8 - 64.8	<4.06 UJ	<0.101 UJ	<0.127 UJ	<0.300 UJ	<0.278 UJ	<0.149 UJ	<0.118 UJ	<0.190 UJ	<0.160 UJ	<0.234 UJ
U4-MW-16S	3/15/2023	N	EM07	UMCf	54.8 - 64.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-16S	6/13/2023	N	EM10	UMCf	54.8 - 64.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-16S	9/11/2023	N	EM13	UMCf	54.8 - 64.8	<4.06	<0.101	<0.127	<0.300	0.417 J	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-16S	12/11/2023	N	EM16	UMCf	54.8 - 64.8	<4.06	<0.101	<0.127	<0.300	10.2	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-16S	3/11/2024	N	EM19	UMCf	54.8 - 64.8	<4.06	<0.101	<0.127	<0.300	7.85	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-16S	6/17/2024	N	EM20	UMCf	54.8 - 64.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-MW-16S	9/20/2024	N	EM21	UMCf	54.8 - 64.8	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-SLMW	11/10/2022	N	EM03	-	-	<20.3	<0.505	<0.635	<1.50	<1.39	<0.745	<0.590	<0.950	<0.800	<1.17

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B
						tert-Butyl Alcohol	tert-Butyl Methyl Ether (MTBE)	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-T3	10/13/2022	N	EM02	-	-	35.0 J+	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.525 J	<0.160	<0.234
U4-T3	11/3/2022	N	EM03	-	-	<4.06	<0.101	<0.127	0.440 J	<0.278	<0.149	<0.118	0.746 J	<0.160	<0.234
U4-T3	12/6/2022	N	EM04	-	-	<81.2 UJ	<2.02 UJ	<2.54 UJ	<6.00 UJ	<5.56 UJ	<2.98 UJ	<2.36 UJ	<3.80 UJ	<3.20 UJ	<4.68 UJ
U4-T3	1/9/2023	N	EM05	-	-	<4.06	<0.101	<0.127	0.353 J	<0.278	<0.149	<0.118	0.584 J	<0.160	<0.234
U4-T3	2/13/2023	N	EM06	-	-	<406	<10.1	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4
U4-T3	3/13/2023	N	EM07	-	-	<102	<2.53	<3.18	<7.50	<6.95	<3.73	<2.95	<4.75	<4.00	<5.85
U4-T3	4/19/2023	N	EM08	-	-	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.210 J	<0.160	<0.234
U4-T3	5/18/2023	N	EM09	-	-	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.339 J	<0.160	<0.234
U4-T3	6/12/2023	N	EM10	-	-	7.68 J+	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.289 J	<0.160	<0.234
U4-T3	7/11/2023	N	EM11	-	-	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	0.385 J	<0.160	<0.234
U4-T3	8/10/2023	N	EM12	-	-	<4.06	<0.101	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234
U4-T3	9/11/2023	N	EM13	-	-	<4.06	<0.101	<0.127	<0.300	1.83	<0.149	<0.118	<0.190	<0.160	<0.234
U4-T3	10/16/2023	N	EM14	-	-	<102	<2.53	<3.18	<7.50	<6.95	<3.73	<2.95	<4.75	<4.00	<5.85

Notes:
FD - Field duplicate
E - Field instrument error.
J - The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J- - The result is an estimated quantity, but the result may be biased low.
J+ - The result is an estimated quantity, but the result may be biased high.
N/A - Not Applicable
mg/L - milligrams per liter
µg/L - micrograms per liter
N - Normal field sample

R - The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

UMCf- Upper Muddy Creek Formation
< - The analyte was analyzed for, but was not detected above the level of the reported
-- Not tested.
U4-E-08D has been abandoned.
M-252 damaged/obstructed when checked on June 14, 2023 and September 14, 2023.
U4-MW-08S and U4-MW-15S were purged and resampled for EM19 on March 25-26, 2024; Original EM19 samples were collected via bailer due to well condition.
Lab was unable to analyze and report TDS for samples L1782240-20 (U4-E-09I-EM21) and -21 (U4-E-09I-EM21-FD) due to the thickness of the sample matrix.

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Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G
						Xylenes, Total	3-Methylbutanoic Acid	Acetic Acid	Butyric Acid	Formic Acid	Hexanoic Acid	i-Hexanoic Acid	Lactic Acid	Pentanoic Acid	Propionic Acid	Pyruvic Acid
						µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
M-247-100	4/20/2022	N	BL02	UMCf	100.5 - 110.5	----	----	----	----	----	----	----	----	----	----	----
M-249-100	4/20/2022	N	BL02	UMCf	99.6 - 109.6	----	----	----	----	----	----	----	----	----	----	----
M-251-100	4/19/2022	N	BL02	UMCf	92.5 - 102.5	<0.174	----	----	----	----	----	----	----	----	----	----
M-251-100	10/13/2022	N	EM02	UMCf	92.5 - 102.5	<0.174	----	----	----	----	----	----	----	----	----	----
M-251-100	11/2/2022	N	EM03	UMCf	92.5 - 102.5	<1.74	----	----	----	----	----	----	----	----	----	----
M-251-100	12/8/2022	N	EM04	UMCf	92.5 - 102.5	<0.174	----	----	----	----	----	----	----	----	----	----
M-251-100	1/11/2023	N	EM05	UMCf	92.5 - 102.5	<0.174	----	----	----	----	----	----	----	----	----	----
M-251-100	2/13/2023	N	EM06	UMCf	92.5 - 102.5	<0.174	----	----	----	----	----	----	----	----	----	----
M-251-100	3/17/2023	N	EM07	UMCf	92.5 - 102.5	<8.70	<6.1 UJ	28 J	<5.8 UJ	630 J	<5.8 UJ	<5.6 UJ	<5.3 UJ	<5.6 UJ	5.6 J	<6.0 UJ
M-251-100	4/21/2023	N	EM08	UMCf	92.5 - 102.5	<0.174	----	----	----	----	----	----	----	----	----	----
M-251-100	5/9/2023	N	EM09	UMCf	92.5 - 102.5	<0.174	----	----	----	----	----	----	----	----	----	----
M-251-100	6/14/2023	N	EM10	UMCf	92.5 - 102.5	<8.70	----	----	----	----	----	----	----	----	----	----
M-251-100	7/14/2023	N	EM11	UMCf	92.5 - 102.5	<0.174	----	----	----	----	----	----	----	----	----	----
M-251-100	8/10/2023	N	EM12	UMCf	92.5 - 102.5	<0.174	----	----	----	----	----	----	----	----	----	----
M-251-100	9/14/2023	N	EM13	UMCf	92.5 - 102.5	<0.174	<30.4	<61.6	<28.8	<27.4	<28.8 UJ	<27.8 UJ	29.2 J	<27.8 UJ	<26.5	<29.9
M-251-100	10/19/2023	N	EM14	UMCf	92.5 - 102.5	<0.174	----	----	----	----	----	----	----	----	----	----
M-251-100	11/16/2023	N	EM15	UMCf	92.5 - 102.5	<8.70	----	----	----	----	----	----	----	----	----	----
M-251-100	12/12/2023	N	EM16	UMCf	92.5 - 102.5	<0.174	<0.061	75.8 J+	<0.058	<0.055	<0.058	<0.056	35.6 J+	<0.056	19.5	<0.060
M-251-100	1/25/2024	N	EM17	UMCf	92.5 - 102.5	<0.174	----	----	----	----	----	----	----	----	----	----
M-251-100	2/13/2024	N	EM18	UMCf	92.5 - 102.5	<8.70	----	----	----	----	----	----	----	----	----	----
M-251-100	3/11/2024	N	EM19	UMCf	92.5 - 102.5	<8.70	<0.12	559	163	142	<0.24	<0.11	2,770	<0.17	350	<0.12
M-251-100	6/17/2024	N	EM20	UMCf	92.5 - 102.5	<8.70	6.8 J	735	448	65.3	14.1	<0.11	2,990	29.6	432	17.8
M-251-100	9/23/2024	N	EM21	UMCf	92.5 - 102.5	<0.174	<0.12	792	417	33.0	<0.24	<0.11	1,240	23.1 J	409	<0.12
M-251-60	4/18/2022	N	BL02	UMCf	52.3 - 62.3	<0.174	----	----	----	----	----	----	----	----	----	----
M-251-60	3/15/2023	N	EM07	UMCf	52.3 - 62.3	<0.174	----	----	----	----	----	----	----	----	----	----
M-251-60	6/14/2023	N	EM10	UMCf	52.3 - 62.3	<0.174	----	----	----	----	----	----	----	----	----	----
M-251-60	9/14/2023	N	EM13	UMCf	52.3 - 62.3	<0.174	----	----	----	----	----	----	----	----	----	----
M-251-60	12/11/2023	N	EM16	UMCf	52.3 - 62.3	<0.174	----	----	----	----	----	----	----	----	----	----
M-251-60	3/12/2024	N	EM19	UMCf	52.3 - 62.3	<0.174	----	----	----	----	----	----	----	----	----	----
M-251-60	6/19/2024	N	EM20	UMCf	52.3 - 62.3	<0.174	----	----	----	----	----	----	----	----	----	----
M-251-60	9/20/2024	N	EM21	UMCf	52.3 - 62.3	<0.174	----	----	----	----	----	----	----	----	----	----
M-252	4/21/2022	N	BL02	UMCf	132.3 - 142.3	<0.174	----	----	----	----	----	----	----	----	----	----
M-252	3/15/2023	N	EM07	UMCf	132.3 - 142.3	<0.174	----	----	----	----	----	----	----	----	----	----
M-252	9/19/2023	N	EM13	UMCf	132.3 - 142.3	<0.174	----	----	----	----	----	----	----	----	----	----
M-252	12/18/2023	N	EM16	UMCf	132.3 - 142.3	<0.174	----	----	----	----	----	----	----	----	----	----
M-252	3/12/2024	N	EM19	UMCf	132.3 - 142.3	<0.174	----	----	----	----	----	----	----	----	----	----
M-252	6/19/2024	N	EM20	UMCf	132.3 - 142.3	<0.174	----	----	----	----	----	----	----	----	----	----
M-252	9/24/2024	N	EM21	UMCf	132.3 - 142.3	<0.174	----	----	----	----	----	----	----	----	----	----
M-253-100	4/20/2022	N	BL02	UMCf	100.8 - 110.8	----	----	----	----	----	----	----	----	----	----	----
M-255-100	4/20/2022	N	BL02	UMCf	100.2 - 110.2	----	----	----	----	----	----	----	----	----	----	----
U4-E-01D	4/18/2022	N	BL02	UMCf	94.7 - 109.7	<0.870	----	----	----	----	----	----	----	----	----	----
U4-E-01D	3/14/2023	N	EM07	UMCf	94.7 - 109.7	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-01D	6/20/2024	N	EM20	UMCf	94.7 - 109.7	<1.74	----	----	----	----	----	----	----	----	----	----
U4-E-01D	9/25/2024	N	EM21	UMCf	94.7 - 109.7	<1.74 UJ	----	----	----	----	----	----	----	----	----	----
U4-E-01I	4/19/2022	N	BL02	UMCf	74.6 - 89.6	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-01I	4/19/2022	FD	BL02	UMCf	74.6 - 89.6	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-01I	3/14/2023	N	EM07	UMCf	74.6 - 89.6	<0.174	----	----	----	----	----	----	----	----	----	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G
						Xylenes, Total	3-Methylbutanoic Acid	Acetic Acid	Butyric Acid	Formic Acid	Hexanoic Acid	i-Hexanoic Acid	Lactic Acid	Pentanoic Acid	Propionic Acid	Pyruvic Acid
						µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
U4-E-01I	4/20/2023	N	EM08	UMCf	74.6 - 89.6	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-01I	5/10/2023	N	EM09	UMCf	74.6 - 89.6	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-01I	6/12/2023	N	EM10	UMCf	74.6 - 89.6	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-01I	7/11/2023	N	EM11	UMCf	74.6 - 89.6	<0.870	----	----	----	----	----	----	----	----	----	----
U4-E-01I	8/10/2023	N	EM12	UMCf	74.6 - 89.6	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-01I	9/11/2023	N	EM13	UMCf	74.6 - 89.6	<0.870	----	----	----	----	----	----	----	----	----	----
U4-E-01I	10/16/2023	N	EM14	UMCf	74.6 - 89.6	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-01I	12/13/2023	N	EM16	UMCf	74.6 - 89.6	<1.74	----	----	----	----	----	----	----	----	----	----
U4-E-01I	1/24/2024	N	EM17	UMCf	74.6 - 89.6	<3.48	----	----	----	----	----	----	----	----	----	----
U4-E-01I	2/14/2024	N	EM18	UMCf	74.6 - 89.6	<1.74	----	----	----	----	----	----	----	----	----	----
U4-E-01I	3/12/2024	N	EM19	UMCf	74.6 - 89.6	<1.74	----	----	----	----	----	----	----	----	----	----
U4-E-01I	6/20/2024	N	EM20	UMCf	74.6 - 89.6	<1.74	----	----	----	----	----	----	----	----	----	----
U4-E-01I	9/25/2024	N	EM21	UMCf	74.6 - 89.6	<1.74 UJ	----	----	----	----	----	----	----	----	----	----
U4-E-02D	4/20/2022	N	BL02	UMCf	94.4 - 109.4	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-02D	3/14/2023	N	EM07	UMCf	94.4 - 109.4	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-02D	6/19/2024	N	EM20	UMCf	94.4 - 109.4	<1.74	----	----	----	----	----	----	----	----	----	----
U4-E-02D	9/27/2024	N	EM21	UMCf	94.4 - 109.4	<3.48 UJ	----	----	----	----	----	----	----	----	----	----
U4-E-02I	4/18/2022	N	BL02	UMCf	74.4 - 89.4	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-02I	3/14/2023	N	EM07	UMCf	74.4 - 89.4	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-02I	4/20/2023	N	EM08	UMCf	74.4 - 89.4	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-02I	5/11/2023	N	EM09	UMCf	74.4 - 89.4	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-02I	6/12/2023	N	EM10	UMCf	74.4 - 89.4	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-02I	7/11/2023	N	EM11	UMCf	74.4 - 89.4	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-02I	8/10/2023	N	EM12	UMCf	74.4 - 89.4	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-02I	9/11/2023	N	EM13	UMCf	74.4 - 89.4	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-02I	10/16/2023	N	EM14	UMCf	74.4 - 89.4	<1.74	----	----	----	----	----	----	----	----	----	----
U4-E-02I	12/14/2023	N	EM16	UMCf	74.4 - 89.4	<1.74	----	----	----	----	----	----	----	----	----	----
U4-E-02I	1/22/2024	N	EM17	UMCf	74.4 - 89.4	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-02I	2/13/2024	N	EM18	UMCf	74.4 - 89.4	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-02I	3/13/2024	N	EM19	UMCf	74.4 - 89.4	<4.35	----	----	----	----	----	----	----	----	----	----
U4-E-02I	6/19/2024	N	EM20	UMCf	74.4 - 89.4	<17.4	----	----	----	----	----	----	----	----	----	----
U4-E-02I	9/24/2024	N	EM21	UMCf	74.4 - 89.4	<17.4 UJ	----	----	----	----	----	----	----	----	----	----
U4-E-03D	4/19/2022	N	BL02	UMCf	95.1 - 110.1	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-03D	10/13/2022	N	EM02	UMCf	95.1 - 110.1	<34.8	----	----	----	----	----	----	----	----	----	----
U4-E-03D	11/3/2022	N	EM03	UMCf	95.1 - 110.1	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-03D	12/6/2022	N	EM04	UMCf	95.1 - 110.1	<3.48 UJ	----	----	----	----	----	----	----	----	----	----
U4-E-03D	1/9/2023	N	EM05	UMCf	95.1 - 110.1	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-03D	2/13/2023	N	EM06	UMCf	95.1 - 110.1	<17.4	----	----	----	----	----	----	----	----	----	----
U4-E-03D	3/13/2023	N	EM07	UMCf	95.1 - 110.1	<17.4	----	----	----	----	----	----	----	----	----	----
U4-E-03D	3/14/2023	N	EM07	UMCf	95.1 - 110.1	<34.8	----	----	----	----	----	----	----	----	----	----
U4-E-03D	4/19/2023	N	EM08	UMCf	95.1 - 110.1	<0.870	----	----	----	----	----	----	----	----	----	----
U4-E-03D	5/11/2023	N	EM09	UMCf	95.1 - 110.1	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-03D	6/12/2023	N	EM10	UMCf	95.1 - 110.1	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-03D	7/11/2023	N	EM11	UMCf	95.1 - 110.1	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-03D	8/10/2023	N	EM12	UMCf	95.1 - 110.1	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-03D	9/11/2023	N	EM13	UMCf	95.1 - 110.1	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-03D	10/16/2023	N	EM14	UMCf	95.1 - 110.1	<34.8	----	----	----	----	----	----	----	----	----	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G
						Xylenes, Total	3-Methylbutanoic Acid	Acetic Acid	Butyric Acid	Formic Acid	Hexanoic Acid	i-Hexanoic Acid	Lactic Acid	Pentanoic Acid	Propionic Acid	Pyruvic Acid
						µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
U4-E-03D	6/10/2024	N	EM20	UMCf	95.1 - 110.1	<3.48	----	----	----	----	----	----	----	----	----	----
U4-E-03D	6/10/2024	FD	EM20	UMCf	95.1 - 110.1	<3.48	----	----	----	----	----	----	----	----	----	----
U4-E-03D	9/27/2024	N	EM21	UMCf	95.1 - 110.1	<0.870 UJ	----	----	----	----	----	----	----	----	----	----
U4-E-03D	9/27/2024	FD	EM21	UMCf	95.1 - 110.1	<0.870 UJ	----	----	----	----	----	----	----	----	----	----
U4-E-04D	4/19/2022	N	BL02	UMCf	95.0 - 110.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-04D	3/14/2023	N	EM07	UMCf	95.0 - 110.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-04D	6/20/2024	N	EM20	UMCf	95.0 - 110.0	<1.74	----	----	----	----	----	----	----	----	----	----
U4-E-04D	9/26/2024	N	EM21	UMCf	95.0 - 110.0	<1.74	----	----	----	----	----	----	----	----	----	----
U4-E-04I	4/18/2022	N	BL02	UMCf	75.0 - 90.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-04I	3/14/2023	N	EM07	UMCf	75.0 - 90.0	<8.70	----	----	----	----	----	----	----	----	----	----
U4-E-04I	6/20/2024	N	EM20	UMCf	75.0 - 90.0	<1.74	----	----	----	----	----	----	----	----	----	----
U4-E-04I	9/26/2024	N	EM21	UMCf	75.0 - 90.0	<1.74	----	----	----	----	----	----	----	----	----	----
U4-E-05D	4/19/2022	N	BL02	UMCf	95.0 - 110.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-05D	3/16/2023	N	EM07	UMCf	95.0 - 110.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-05D	6/10/2024	N	EM20	UMCf	95.0 - 110.0	<3.48	----	----	----	----	----	----	----	----	----	----
U4-E-05D	9/27/2024	N	EM21	UMCf	95.0 - 110.0	<0.870 UJ	----	----	----	----	----	----	----	----	----	----
U4-E-05I	4/19/2022	N	BL02	UMCf	75.0 - 90.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-05I	3/15/2023	N	EM07	UMCf	75.0 - 90.0	<0.174 UJ	----	----	----	----	----	----	----	----	----	----
U4-E-05I	6/19/2024	N	EM20	UMCf	75.0 - 90.0	<8.70	----	----	----	----	----	----	----	----	----	----
U4-E-05I	9/27/2024	N	EM21	UMCf	75.0 - 90.0	<1.74 UJ	----	----	----	----	----	----	----	----	----	----
U4-E-06D	4/11/2022	N	BL02	UMCf	95.1 - 110.1	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-06D	6/20/2024	N	EM20	UMCf	95.1 - 110.1	<1.74	----	----	----	----	----	----	----	----	----	----
U4-E-06D	9/27/2024	N	EM21	UMCf	95.1 - 110.1	<0.870 UJ	----	----	----	----	----	----	----	----	----	----
U4-E-06I	4/11/2022	N	BL02	UMCf	73.2 - 88.2	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-06I	4/11/2022	FD	BL02	UMCf	73.2 - 88.2	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-06I	10/12/2022	N	EM02	UMCf	73.2 - 88.2	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-06I	11/3/2022	N	EM03	UMCf	73.2 - 88.2	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-06I	12/6/2022	N	EM04	UMCf	73.2 - 88.2	<1.74 UJ	----	----	----	----	----	----	----	----	----	----
U4-E-06I	1/9/2023	N	EM05	UMCf	73.2 - 88.2	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-06I	2/13/2023	N	EM06	UMCf	73.2 - 88.2	<17.4	----	----	----	----	----	----	----	----	----	----
U4-E-06I	3/13/2023	N	EM07	UMCf	73.2 - 88.2	<3.48	----	----	----	----	----	----	----	----	----	----
U4-E-06I	4/17/2023	N	EM08	UMCf	73.2 - 88.2	<3.48	----	----	----	----	----	----	----	----	----	----
U4-E-06I	5/15/2023	N	EM09	UMCf	73.2 - 88.2	<4.35	----	----	----	----	----	----	----	----	----	----
U4-E-06I	6/12/2023	N	EM10	UMCf	73.2 - 88.2	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-06I	7/11/2023	N	EM11	UMCf	73.2 - 88.2	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-06I	8/11/2023	N	EM12	UMCf	73.2 - 88.2	<0.870	----	----	----	----	----	----	----	----	----	----
U4-E-06I	9/11/2023	N	EM13	UMCf	73.2 - 88.2	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-06I	10/16/2023	N	EM14	UMCf	73.2 - 88.2	<8.70	----	----	----	----	----	----	----	----	----	----
U4-E-06I	12/13/2023	N	EM16	UMCf	73.2 - 88.2	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-06I	1/22/2024	N	EM17	UMCf	73.2 - 88.2	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-06I	2/13/2024	N	EM18	UMCf	73.2 - 88.2	<8.70	----	----	----	----	----	----	----	----	----	----
U4-E-06I	3/11/2024	N	EM19	UMCf	73.2 - 88.2	<8.70	----	----	----	----	----	----	----	----	----	----
U4-E-06I	6/11/2024	N	EM20	UMCf	73.2 - 88.2	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-06I	9/27/2024	N	EM21	UMCf	73.2 - 88.2	<3.48 UJ	----	----	----	----	----	----	----	----	----	----
U4-E-07D	4/12/2022	N	BL02	UMCf	94.6 - 109.6	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-07D	6/20/2024	N	EM20	UMCf	94.6 - 109.6	<1.74	----	----	----	----	----	----	----	----	----	----
U4-E-07D	9/26/2024	N	EM21	UMCf	94.6 - 109.6	<1.74	----	----	----	----	----	----	----	----	----	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G
						Xylenes, Total	3-Methylbutanoic Acid	Acetic Acid	Butyric Acid	Formic Acid	Hexanoic Acid	i-Hexanoic Acid	Lactic Acid	Pentanoic Acid	Propionic Acid	Pyruvic Acid
						µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
U4-E-07I	4/12/2022	N	BL02	UMCf	74.7 - 89.7	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-07I	10/11/2022	N	EM02	UMCf	74.7 - 89.7	<1.74	----	----	----	----	----	----	----	----	----	----
U4-E-07I	11/3/2022	N	EM03	UMCf	74.7 - 89.7	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-07I	12/6/2022	N	EM04	UMCf	74.7 - 89.7	<4.35 UJ	----	----	----	----	----	----	----	----	----	----
U4-E-07I	1/9/2023	N	EM05	UMCf	74.7 - 89.7	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-07I	2/13/2023	N	EM06	UMCf	74.7 - 89.7	<17.4	----	----	----	----	----	----	----	----	----	----
U4-E-07I	3/13/2023	N	EM07	UMCf	74.7 - 89.7	<17.4	----	----	----	----	----	----	----	----	----	----
U4-E-07I	4/19/2023	N	EM08	UMCf	74.7 - 89.7	<0.870	----	----	----	----	----	----	----	----	----	----
U4-E-07I	5/15/2023	N	EM09	UMCf	74.7 - 89.7	<17.4	----	----	----	----	----	----	----	----	----	----
U4-E-07I	6/12/2023	N	EM10	UMCf	74.7 - 89.7	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-07I	7/11/2023	N	EM11	UMCf	74.7 - 89.7	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-07I	8/11/2023	N	EM12	UMCf	74.7 - 89.7	<0.870	----	----	----	----	----	----	----	----	----	----
U4-E-07I	9/11/2023	N	EM13	UMCf	74.7 - 89.7	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-07I	10/16/2023	N	EM14	UMCf	74.7 - 89.7	<17.4	----	----	----	----	----	----	----	----	----	----
U4-E-07I	12/13/2023	N	EM16	UMCf	74.7 - 89.7	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-07I	1/23/2024	N	EM17	UMCf	74.7 - 89.7	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-07I	2/13/2024	N	EM18	UMCf	74.7 - 89.7	<34.8	----	----	----	----	----	----	----	----	----	----
U4-E-07I	3/11/2024	N	EM19	UMCf	74.7 - 89.7	<34.8	----	----	----	----	----	----	----	----	----	----
U4-E-07I	6/11/2024	N	EM20	UMCf	74.7 - 89.7	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-07I	9/26/2024	N	EM21	UMCf	74.7 - 89.7	<17.4	----	----	----	----	----	----	----	----	----	----
U4-E-08D	4/12/2022	N	BL02	UMCf	94.6 - 109.6	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-08D	10/11/2022	N	EM02	UMCf	94.6 - 109.6	<1.74	----	----	----	----	----	----	----	----	----	----
U4-E-08D	11/3/2022	N	EM03	UMCf	94.6 - 109.6	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-08D	12/6/2022	N	EM04	UMCf	94.6 - 109.6	<4.35 UJ	----	----	----	----	----	----	----	----	----	----
U4-E-08D	1/9/2023	N	EM05	UMCf	94.6 - 109.6	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-08D	2/13/2023	N	EM06	UMCf	94.6 - 109.6	<17.4	----	----	----	----	----	----	----	----	----	----
U4-E-08D	3/13/2023	N	EM07	UMCf	94.6 - 109.6	<17.4	----	----	----	----	----	----	----	----	----	----
U4-E-08D	4/19/2023	N	EM08	UMCf	94.6 - 109.6	<0.870	----	----	----	----	----	----	----	----	----	----
U4-E-08D	5/17/2023	N	EM09	UMCf	94.6 - 109.6	<17.4	----	----	----	----	----	----	----	----	----	----
U4-E-08D	6/12/2023	N	EM10	UMCf	94.6 - 109.6	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-08D	7/11/2023	N	EM11	UMCf	94.6 - 109.6	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-09D	4/15/2022	N	BL02	UMCf	94.5 - 109.5	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-09D	6/10/2024	N	EM20	UMCf	94.5 - 109.5	<3.48	----	----	----	----	----	----	----	----	----	----
U4-E-09D	9/27/2024	N	EM21	UMCf	94.5 - 109.5	<3.48 UJ	----	----	----	----	----	----	----	----	----	----
U4-E-09I	4/14/2022	N	BL02	UMCf	74.9 - 89.9	0.220 J	----	----	----	----	----	----	----	----	----	----
U4-E-09I	6/10/2024	N	EM20	UMCf	74.9 - 89.9	<3.48	----	----	----	----	----	----	----	----	----	----
U4-E-09I	6/10/2024	FD	EM20	UMCf	74.9 - 89.9	<3.48	----	----	----	----	----	----	----	----	----	----
U4-E-09I	9/26/2024	N	EM21	UMCf	74.9 - 89.9	<3.48	----	----	----	----	----	----	----	----	----	----
U4-E-09I	9/26/2024	FD	EM21	UMCf	74.9 - 89.9	<3.48	----	----	----	----	----	----	----	----	----	----
U4-E-10D	4/13/2022	N	BL02	UMCf	94.5 - 109.5	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-10D	6/19/2024	N	EM20	UMCf	94.5 - 109.5	<1.74	----	----	----	----	----	----	----	----	----	----
U4-E-10D	9/25/2024	N	EM21	UMCf	94.5 - 109.5	<1.74	----	----	----	----	----	----	----	----	----	----
U4-E-10I	4/13/2022	N	BL02	UMCf	74.2 - 89.2	<0.174	----	----	----	----	----	----	----	----	----	----
U4-E-10I	6/11/2024	N	EM20	UMCf	74.2 - 89.2	<17.4	----	----	----	----	----	----	----	----	----	----
U4-E-10I	9/26/2024	N	EM21	UMCf	74.2 - 89.2	<17.4	----	----	----	----	----	----	----	----	----	----
U4-MW-01D	4/19/2022	N	BL02	UMCf	96.7 - 106.7	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-01D	2/16/2023	N	EM06	UMCf	96.7 - 106.7	<1.74	----	----	----	----	----	----	----	----	----	----

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Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G
						Xylenes, Total	3-Methylbutanoic Acid	Acetic Acid	Butyric Acid	Formic Acid	Hexanoic Acid	i-Hexanoic Acid	Lactic Acid	Pentanoic Acid	Propionic Acid	Pyruvic Acid
						µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
U4-MW-01D	3/20/2023	N	EM07	UMCf	96.7 - 106.7	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-01D	6/13/2023	N	EM10	UMCf	96.7 - 106.7	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-01D	9/14/2023	N	EM13	UMCf	96.7 - 106.7	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-01D	12/14/2023	N	EM16	UMCf	96.7 - 106.7	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-01D	3/13/2024	N	EM19	UMCf	96.7 - 106.7	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-01D	6/18/2024	N	EM20	UMCf	96.7 - 106.7	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-01D	9/19/2024	N	EM21	UMCf	96.7 - 106.7	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-01DD	4/19/2022	N	BL02	UMCf	119.9 - 129.9	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-01DD	4/19/2022	FD	BL02	UMCf	119.9 - 129.9	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-01DD	3/15/2023	N	EM07	UMCf	119.9 - 129.9	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-01DD	6/13/2023	N	EM10	UMCf	119.9 - 129.9	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-01DD	9/14/2023	N	EM13	UMCf	119.9 - 129.9	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-01DD	12/15/2023	N	EM16	UMCf	119.9 - 129.9	<0.870	----	----	----	----	----	----	----	----	----	----
U4-MW-01DD	3/12/2024	N	EM19	UMCf	119.9 - 129.9	<0.870	----	----	----	----	----	----	----	----	----	----
U4-MW-01DD	6/18/2024	N	EM20	UMCf	119.9 - 129.9	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-01DD	9/20/2024	N	EM21	UMCf	119.9 - 129.9	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-01I	4/19/2022	N	BL02	UMCf	76.7 - 86.7	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-01I	3/20/2023	N	EM07	UMCf	76.7 - 86.7	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-01I	6/12/2023	N	EM10	UMCf	76.7 - 86.7	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-01I	9/14/2023	N	EM13	UMCf	76.7 - 86.7	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-01I	12/15/2023	N	EM16	UMCf	76.7 - 86.7	<8.70	----	----	----	----	----	----	----	----	----	----
U4-MW-01I	3/13/2024	N	EM19	UMCf	76.7 - 86.7	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-01I	6/18/2024	N	EM20	UMCf	76.7 - 86.7	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-01I	9/19/2024	N	EM21	UMCf	76.7 - 86.7	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-01S	4/18/2022	N	BL02	UMCf	54.7 - 64.7	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-01S	3/15/2023	N	EM07	UMCf	54.7 - 64.7	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-01S	6/13/2023	N	EM10	UMCf	54.7 - 64.7	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-01S	9/15/2023	N	EM13	UMCf	54.7 - 64.7	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-01S	12/13/2023	N	EM16	UMCf	54.7 - 64.7	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-01S	3/13/2024	N	EM19	UMCf	54.7 - 64.7	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-01S	6/18/2024	N	EM20	UMCf	54.7 - 64.7	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-01S	9/20/2024	N	EM21	UMCf	54.7 - 64.7	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-02D	4/14/2022	N	BL02	UMCf	95.0 - 110.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-02D	10/11/2022	N	EM02	UMCf	95.0 - 110.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-02D	11/1/2022	N	EM03	UMCf	95.0 - 110.0	<8.70	----	----	----	----	----	----	----	----	----	----
U4-MW-02D	12/7/2022	N	EM04	UMCf	95.0 - 110.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-02D	1/10/2023	N	EM05	UMCf	95.0 - 110.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-02D	2/13/2023	N	EM06	UMCf	95.0 - 110.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-02D	3/17/2023	N	EM07	UMCf	95.0 - 110.0	<17.4	<12 UJ	49 J	<12 UJ	1,200 J	<12 UJ	<11 UJ	<11 UJ	<11 UJ	<11 UJ	<12 UJ
U4-MW-02D	4/19/2023	N	EM08	UMCf	95.0 - 110.0	<0.870	----	----	----	----	----	----	----	----	----	----
U4-MW-02D	5/9/2023	N	EM09	UMCf	95.0 - 110.0	<0.870	----	----	----	----	----	----	----	----	----	----
U4-MW-02D	6/13/2023	N	EM10	UMCf	95.0 - 110.0	<0.174	<12	34 J	<12	1,100 J+	<12	<11	<11	<11	12 J	<12
U4-MW-02D	7/18/2023	N	EM11	UMCf	95.0 - 110.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-02D	8/14/2023	N	EM12	UMCf	95.0 - 110.0	<43.5	----	----	----	----	----	----	----	----	----	----
U4-MW-02D	9/11/2023	N	EM13	UMCf	95.0 - 110.0	<0.174	<12.2	28.8 J	<11.5	<11.0	<11.5 UJ	<11.1 UJ	<10.6	<11.1 UJ	<10.6	<12.0
U4-MW-02D	10/19/2023	N	EM14	UMCf	95.0 - 110.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-02D	11/15/2023	N	EM15	UMCf	95.0 - 110.0	<17.4	----	----	----	----	----	----	----	----	----	----

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Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G
						Xylenes, Total	3-Methylbutanoic Acid	Acetic Acid	Butyric Acid	Formic Acid	Hexanoic Acid	i-Hexanoic Acid	Lactic Acid	Pentanoic Acid	Propionic Acid	Pyruvic Acid
						µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
U4-MW-02D	12/14/2023	N	EM16	UMCf	95.0 - 110.0	<17.4	<0.061	30.0	<0.058	<0.055	<0.058	<0.056	37.1	<0.056	<0.053	<0.060
U4-MW-02D	1/25/2024	N	EM17	UMCf	95.0 - 110.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-02D	2/12/2024	N	EM18	UMCf	95.0 - 110.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-02D	3/13/2024	N	EM19	UMCf	95.0 - 110.0	<0.174	<0.12	<0.12	<0.058	<0.11	<0.24	<0.11	<0.12	<0.17	<0.053	<0.12
U4-MW-02D	6/17/2024	N	EM20	UMCf	95.0 - 110.0	<0.174	<0.12	<0.12	<0.058	<0.11	<0.24	<0.11	<0.12	<0.17	<0.053	<0.12
U4-MW-02D	9/23/2024	N	EM21	UMCf	95.0 - 110.0	<0.174	<0.12	<0.12	<0.058	<0.11	<0.24	<0.11	<0.12	<0.17	<0.053	<0.12
U4-MW-02I	4/14/2022	N	BL02	UMCf	75.0 - 90.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	10/11/2022	N	EM02	UMCf	75.0 - 90.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	11/2/2022	N	EM03	UMCf	75.0 - 90.0	<1.74	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	11/2/2022	FD	EM03	UMCf	75.0 - 90.0	<1.74	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	12/8/2022	N	EM04	UMCf	75.0 - 90.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	12/8/2022	FD	EM04	UMCf	75.0 - 90.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	1/13/2023	N	EM05	UMCf	75.0 - 90.0	<1.74	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	1/13/2023	FD	EM05	UMCf	75.0 - 90.0	<1.74	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	2/15/2023	N	EM06	UMCf	75.0 - 90.0	<1.74	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	2/15/2023	FD	EM06	UMCf	75.0 - 90.0	<1.74	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	3/17/2023	N	EM07	UMCf	75.0 - 90.0	<34.8	<12 UJ	60 J	<12 UJ	1,200 J	<12 UJ	<11 UJ	<11 UJ	<11 UJ	18 J	<12 UJ
U4-MW-02I	3/17/2023	FD	EM07	UMCf	75.0 - 90.0	<34.8	<12 UJ	61 J	<12 UJ	1,200 J	<12 UJ	<11 UJ	<11 UJ	<11 UJ	17 J	<12 UJ
U4-MW-02I	4/20/2023	N	EM08	UMCf	75.0 - 90.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	4/20/2023	FD	EM08	UMCf	75.0 - 90.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	5/9/2023	N	EM09	UMCf	75.0 - 90.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	5/9/2023	FD	EM09	UMCf	75.0 - 90.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	6/12/2023	N	EM10	UMCf	75.0 - 90.0	<0.174	<1.2	200	48	94	<1.2	<1.1	8.0 J	1.3 J	30	1.8 J
U4-MW-02I	6/12/2023	FD	EM10	UMCf	75.0 - 90.0	<0.174	<1.2	190	46	98	<1.2	<1.1	8.2 J	<1.1	30	<1.2
U4-MW-02I	7/18/2023	N	EM11	UMCf	75.0 - 90.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	7/18/2023	FD	EM11	UMCf	75.0 - 90.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	8/11/2023	N	EM12	UMCf	75.0 - 90.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	8/11/2023	FD	EM12	UMCf	75.0 - 90.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	9/11/2023	N	EM13	UMCf	75.0 - 90.0	<0.174	<3.0	122 J	75.4 J	<2.7	<2.9 UJ	<2.8 UJ	11.8 J	<2.8 UJ	21.1 J	<3.0
U4-MW-02I	9/11/2023	FD	EM13	UMCf	75.0 - 90.0	<0.174	<60.9	213 J	91.0 J	<54.9	<57.6 UJ	<55.5 UJ	<53.0	<55.5 UJ	<53.0 UJ	<59.8
U4-MW-02I	10/19/2023	N	EM14	UMCf	75.0 - 90.0	<0.174 UJ	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	10/19/2023	FD	EM14	UMCf	75.0 - 90.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	11/15/2023	N	EM15	UMCf	75.0 - 90.0	<8.70	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	11/15/2023	FD	EM15	UMCf	75.0 - 90.0	<8.70	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	12/14/2023	N	EM16	UMCf	75.0 - 90.0	<8.70	<0.061	209	97.6	<0.055	<0.058	<0.056	156	<0.056	61.9	<0.060
U4-MW-02I	12/14/2023	FD	EM16	UMCf	75.0 - 90.0	<8.70	<0.061	212	84.8	<0.055	<0.058	<0.056	162	<0.056	70.3	<0.060
U4-MW-02I	1/25/2024	N	EM17	UMCf	75.0 - 90.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	1/25/2024	FD	EM17	UMCf	75.0 - 90.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	2/12/2024	N	EM18	UMCf	75.0 - 90.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	2/12/2024	FD	EM18	UMCf	75.0 - 90.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-02I	3/13/2024	N	EM19	UMCf	75.0 - 90.0	<0.174	<0.12	166	<0.058	<0.11	<0.24	<0.11	109	<0.17	147	<0.12
U4-MW-02I	3/13/2024	FD	EM19	UMCf	75.0 - 90.0	<0.174	<0.12	190	<0.058	<0.11	<0.24	<0.11	130	<0.17	161	<0.12
U4-MW-02I	6/17/2024	N	EM20	UMCf	75.0 - 90.0	<8.70	<0.12	161	107	<0.11	<0.24	<0.11	21.3	<0.17	43.6	<0.12
U4-MW-02I	6/17/2024	FD	EM20	UMCf	75.0 - 90.0	<8.70	<0.12	162	107	<0.11	<0.24	<0.11	28.6	<0.17	46.5	7.2 J
U4-MW-02I	9/23/2024	N	EM21	UMCf	75.0 - 90.0	<0.174	<0.12	<0.12	<0.058	<0.11	<0.24	<0.11	<0.12	<0.17	<0.053	<0.12
U4-MW-02I	9/23/2024	FD	EM21	UMCf	75.0 - 90.0	<0.174	<0.12	<0.12	<0.058	<0.11	<0.24	<0.11	<0.12	<0.17	<0.053	<0.12
U4-MW-03D	4/20/2022	N	BL02	UMCf	96.6 - 106.6	<0.174	----	----	----	----	----	----	----	----	----	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G
						Xylenes, Total	3-Methylbutanoic Acid	Acetic Acid	Butyric Acid	Formic Acid	Hexanoic Acid	i-Hexanoic Acid	Lactic Acid	Pentanoic Acid	Propionic Acid	Pyruvic Acid
						µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
U4-MW-03D	2/16/2023	N	EM06	UMCf	96.6 - 106.6	<0.870	----	----	----	----	----	----	----	----	----	----
U4-MW-03D	3/16/2023	N	EM07	UMCf	96.6 - 106.6	<3.48	----	----	----	----	----	----	----	----	----	----
U4-MW-03D	3/16/2023	FD	EM07	UMCf	96.6 - 106.6	<0.870	----	----	----	----	----	----	----	----	----	----
U4-MW-03D	6/15/2023	N	EM10	UMCf	96.6 - 106.6	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-03D	9/14/2023	N	EM13	UMCf	96.6 - 106.6	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-03D	12/13/2023	N	EM16	UMCf	96.6 - 106.6	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-03D	3/15/2024	N	EM19	UMCf	96.6 - 106.6	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-03D	6/17/2024	N	EM20	UMCf	96.6 - 106.6	<8.70	----	----	----	----	----	----	----	----	----	----
U4-MW-03D	9/18/2024	N	EM21	UMCf	96.6 - 106.6	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-03DD	4/20/2022	N	BL02	UMCf	119.7 - 129.7	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-03DD	3/15/2023	N	EM07	UMCf	119.7 - 129.7	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-03DD	6/15/2023	N	EM10	UMCf	119.7 - 129.7	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-03DD	9/14/2023	N	EM13	UMCf	119.7 - 129.7	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-03DD	12/14/2023	N	EM16	UMCf	119.7 - 129.7	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-03DD	3/14/2024	N	EM19	UMCf	119.7 - 129.7	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-03DD	6/17/2024	N	EM20	UMCf	119.7 - 129.7	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-03DD	9/18/2024	N	EM21	UMCf	119.7 - 129.7	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-03I	4/19/2022	N	BL02	UMCf	76.6 - 86.6	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-03I	3/15/2023	N	EM07	UMCf	76.6 - 86.6	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-03I	6/14/2023	N	EM10	UMCf	76.6 - 86.6	<3.48	----	----	----	----	----	----	----	----	----	----
U4-MW-03I	6/14/2023	FD	EM10	UMCf	76.6 - 86.6	<4.35	----	----	----	----	----	----	----	----	----	----
U4-MW-03I	9/11/2023	N	EM13	UMCf	76.6 - 86.6	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-03I	9/11/2023	FD	EM13	UMCf	76.6 - 86.6	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-03I	12/13/2023	N	EM16	UMCf	76.6 - 86.6	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-03I	12/13/2023	FD	EM16	UMCf	76.6 - 86.6	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-03I	3/14/2024	N	EM19	UMCf	76.6 - 86.6	<8.70	----	----	----	----	----	----	----	----	----	----
U4-MW-03I	3/14/2024	FD	EM19	UMCf	76.6 - 86.6	<8.70	----	----	----	----	----	----	----	----	----	----
U4-MW-03I	6/19/2024	N	EM20	UMCf	76.6 - 86.6	<8.70	----	----	----	----	----	----	----	----	----	----
U4-MW-03I	6/19/2024	FD	EM20	UMCf	76.6 - 86.6	<8.70	----	----	----	----	----	----	----	----	----	----
U4-MW-03I	9/20/2024	N	EM21	UMCf	76.6 - 86.6	<0.870	----	----	----	----	----	----	----	----	----	----
U4-MW-03I	9/20/2024	FD	EM21	UMCf	76.6 - 86.6	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-03S	4/18/2022	N	BL02	UMCf	54.5 - 64.5	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-03S	4/18/2022	FD	BL02	UMCf	54.5 - 64.5	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-03S	3/15/2023	N	EM07	UMCf	54.5 - 64.5	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-03S	6/15/2023	N	EM10	UMCf	54.5 - 64.5	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-03S	9/14/2023	N	EM13	UMCf	54.5 - 64.5	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-03S	12/13/2023	N	EM16	UMCf	54.5 - 64.5	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-03S	3/14/2024	N	EM19	UMCf	54.5 - 64.5	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-03S	6/14/2024	N	EM20	UMCf	54.5 - 64.5	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-03S	9/18/2024	N	EM21	UMCf	54.5 - 64.5	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-04D	4/19/2022	N	BL02	UMCf	97.0 - 107.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-04D	2/16/2023	N	EM06	UMCf	97.0 - 107.0	<8.70	----	----	----	----	----	----	----	----	----	----
U4-MW-04D	3/21/2023	N	EM07	UMCf	97.0 - 107.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-04D	6/14/2023	N	EM10	UMCf	97.0 - 107.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-04D	9/15/2023	N	EM13	UMCf	97.0 - 107.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-04D	12/12/2023	N	EM16	UMCf	97.0 - 107.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-04D	3/12/2024	N	EM19	UMCf	97.0 - 107.0	<8.70	----	----	----	----	----	----	----	----	----	----

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Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G
						Xylenes, Total	3-Methylbutanoic Acid	Acetic Acid	Butyric Acid	Formic Acid	Hexanoic Acid	i-Hexanoic Acid	Lactic Acid	Pentanoic Acid	Propionic Acid	Pyruvic Acid
						µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
U4-MW-04D	6/19/2024	N	EM20	UMCf	97.0 - 107.0	<8.70	----	----	----	----	----	----	----	----	----	----
U4-MW-04D	9/24/2024	N	EM21	UMCf	97.0 - 107.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-04I	4/19/2022	N	BL02	UMCf	76.8 - 86.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-04I	3/20/2023	N	EM07	UMCf	76.8 - 86.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-04I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<0.870	----	----	----	----	----	----	----	----	----	----
U4-MW-04I	9/14/2023	N	EM13	UMCf	76.8 - 86.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-04I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-04I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	<34.8	----	----	----	----	----	----	----	----	----	----
U4-MW-04I	6/18/2024	N	EM20	UMCf	76.8 - 86.8	<0.870	----	----	----	----	----	----	----	----	----	----
U4-MW-04I	9/24/2024	N	EM21	UMCf	76.8 - 86.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-05D	4/15/2022	N	BL02	UMCf	98.2 - 108.2	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-05D	10/13/2022	N	EM02	UMCf	98.2 - 108.2	<17.4	----	----	----	----	----	----	----	----	----	----
U4-MW-05D	11/3/2022	N	EM03	UMCf	98.2 - 108.2	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-05D	12/7/2022	N	EM04	UMCf	98.2 - 108.2	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-05D	1/11/2023	N	EM05	UMCf	98.2 - 108.2	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-05D	2/14/2023	N	EM06	UMCf	98.2 - 108.2	<17.4	----	----	----	----	----	----	----	----	----	----
U4-MW-05D	3/16/2023	N	EM07	UMCf	98.2 - 108.2	<17.4	<6.1	28 J	<5.8	620 J+	<5.8	<5.6	<5.3	<5.6	5.5 J	<6.0
U4-MW-05D	4/20/2023	N	EM08	UMCf	98.2 - 108.2	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-05D	5/10/2023	N	EM09	UMCf	98.2 - 108.2	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-05D	6/15/2023	N	EM10	UMCf	98.2 - 108.2	<0.174	<3.0	150	24 J	280	<2.9	<2.8	16 J	<2.8	21 J	<3.0
U4-MW-05D	7/18/2023	N	EM11	UMCf	98.2 - 108.2	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-05D	8/14/2023	N	EM12	UMCf	98.2 - 108.2	<4.35	----	----	----	----	----	----	----	----	----	----
U4-MW-05D	9/12/2023	N	EM13	UMCf	98.2 - 108.2	<4.35	<3.0	111	21.9 J	<2.7	<2.9 UJ	<2.8 UJ	12.0 J	<2.8 UJ	18.9 J	3.2 J
U4-MW-05D	10/18/2023	N	EM14	UMCf	98.2 - 108.2	<4.35	----	----	----	----	----	----	----	----	----	----
U4-MW-05D	11/16/2023	N	EM15	UMCf	98.2 - 108.2	<4.35	----	----	----	----	----	----	----	----	----	----
U4-MW-05D	12/14/2023	N	EM16	UMCf	98.2 - 108.2	<4.35	<0.061	575	417	124	3.8	<0.056	1,250	6.1	178	74.0
U4-MW-05D	1/26/2024	N	EM17	UMCf	98.2 - 108.2	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-05D	2/14/2024	N	EM18	UMCf	98.2 - 108.2	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-05D	3/12/2024	N	EM19	UMCf	98.2 - 108.2	<4.35	<0.12	415	213	<0.11	<0.24	<0.11	378	<0.17	314	<0.12
U4-MW-05D	6/18/2024	N	EM20	UMCf	98.2 - 108.2	<0.174	<0.12	61.9	60.9	<0.11	<0.24	<0.11	45.0	9.4 J	53.4	<0.12
U4-MW-05D	9/25/2024	N	EM21	UMCf	98.2 - 108.2	<8.70 UJ	<0.12	45.2	47.5	<0.11	<0.24	<0.11	10.5 J	<0.17	47.5	<0.12
U4-MW-05I	4/15/2022	N	BL02	UMCf	76.6 - 86.6	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-05I	10/13/2022	N	EM02	UMCf	76.6 - 86.6	<17.4	----	----	----	----	----	----	----	----	----	----
U4-MW-05I	11/3/2022	N	EM03	UMCf	76.6 - 86.6	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-05I	12/8/2022	N	EM04	UMCf	76.6 - 86.6	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-05I	1/11/2023	N	EM05	UMCf	76.6 - 86.6	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-05I	2/14/2023	N	EM06	UMCf	76.6 - 86.6	<17.4	----	----	----	----	----	----	----	----	----	----
U4-MW-05I	3/14/2023	N	EM07	UMCf	76.6 - 86.6	<17.4	<3.0	14 J	<2.9	290	2.9 J	<2.8	11 J	<2.8	2.9 J	<3.0
U4-MW-05I	4/21/2023	N	EM08	UMCf	76.6 - 86.6	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-05I	5/10/2023	N	EM09	UMCf	76.6 - 86.6	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-05I	6/15/2023	N	EM10	UMCf	76.6 - 86.6	<0.174	<6.1	460	170	120	<5.8	<5.6	15 J	9.2 J	120	<6.0
U4-MW-05I	7/17/2023	N	EM11	UMCf	76.6 - 86.6	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-05I	8/14/2023	N	EM12	UMCf	76.6 - 86.6	<8.70	----	----	----	----	----	----	----	----	----	----
U4-MW-05I	9/13/2023	N	EM13	UMCf	76.6 - 86.6	<0.174	<30.4	145 J	<28.8	<27.4	<28.8 UJ	<27.8 UJ	32.9 J	<27.8 UJ	<26.5	<29.9
U4-MW-05I	10/18/2023	N	EM14	UMCf	76.6 - 86.6	<8.70	----	----	----	----	----	----	----	----	----	----
U4-MW-05I	11/15/2023	N	EM15	UMCf	76.6 - 86.6	<8.70	----	----	----	----	----	----	----	----	----	----
U4-MW-05I	12/12/2023	N	EM16	UMCf	76.6 - 86.6	<0.174	<0.061	264	87.8	<0.055	<0.058	<0.056	154 J+	<0.056	61.0	35.3

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G
						Xylenes, Total	3-Methylbutanoic Acid	Acetic Acid	Butyric Acid	Formic Acid	Hexanoic Acid	i-Hexanoic Acid	Lactic Acid	Pentanoic Acid	Propionic Acid	Pyruvic Acid
						µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
U4-MW-05I	1/26/2024	N	EM17	UMCf	76.6 - 86.6	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-05I	2/14/2024	N	EM18	UMCf	76.6 - 86.6	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-05I	3/11/2024	N	EM19	UMCf	76.6 - 86.6	<0.174	<0.12	77.8	<0.058	<0.11	<0.24	<0.11	58.5	<0.17	<0.053	<0.12
U4-MW-05I	6/18/2024	N	EM20	UMCf	76.6 - 86.6	<0.174	<0.12	30.4	46.0	<0.11	<0.24	<0.11	71.2	<0.17	41.0	<0.12
U4-MW-05I	9/25/2024	N	EM21	UMCf	76.6 - 86.6	<17.4	<0.12	12.8	10.5 J	<0.11	<0.24	<0.11	<0.12	<0.17	13.5	<0.12
U4-MW-06D	4/19/2022	N	BL02	UMCf	97.1 - 107.1	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-06D	2/15/2023	N	EM06	UMCf	97.1 - 107.1	<8.70	----	----	----	----	----	----	----	----	----	----
U4-MW-06D	3/21/2023	N	EM07	UMCf	97.1 - 107.1	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-06D	6/16/2023	N	EM10	UMCf	97.1 - 107.1	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-06D	9/13/2023	N	EM13	UMCf	97.1 - 107.1	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-06D	12/13/2023	N	EM16	UMCf	97.1 - 107.1	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-06D	3/14/2024	N	EM19	UMCf	97.1 - 107.1	<8.70	----	----	----	----	----	----	----	----	----	----
U4-MW-06D	6/12/2024	N	EM20	UMCf	97.1 - 107.1	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-06D	9/20/2024	N	EM21	UMCf	97.1 - 107.1	<1.74	----	----	----	----	----	----	----	----	----	----
U4-MW-06I	4/19/2022	N	BL02	UMCf	76.5 - 86.5	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-06I	3/14/2023	N	EM07	UMCf	76.5 - 86.5	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-06I	6/16/2023	N	EM10	UMCf	76.5 - 86.5	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-06I	9/12/2023	N	EM13	UMCf	76.5 - 86.5	<8.70	----	----	----	----	----	----	----	----	----	----
U4-MW-06I	12/12/2023	N	EM16	UMCf	76.5 - 86.5	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-06I	3/14/2024	N	EM19	UMCf	76.5 - 86.5	<17.4	----	----	----	----	----	----	----	----	----	----
U4-MW-06I	6/11/2024	N	EM20	UMCf	76.5 - 86.5	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-06I	9/20/2024	N	EM21	UMCf	76.5 - 86.5	<4.35	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	4/15/2022	N	BL02	UMCf	96.8 - 106.5	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	10/12/2022	N	EM02	UMCf	96.8 - 106.5	0.181 J	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	10/12/2022	FD	EM02	UMCf	96.8 - 106.5	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	11/3/2022	N	EM03	UMCf	96.8 - 106.5	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	12/7/2022	N	EM04	UMCf	96.8 - 106.5	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	1/11/2023	N	EM05	UMCf	96.8 - 106.5	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	2/14/2023	N	EM06	UMCf	96.8 - 106.5	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	3/16/2023	N	EM07	UMCf	96.8 - 106.5	<0.174	<0.61	2.8 J	<0.58	61 J+	<0.58	<0.56	<0.53	<0.56	0.54 J	<0.60
U4-MW-07D	4/21/2023	N	EM08	UMCf	96.8 - 106.5	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	5/11/2023	N	EM09	UMCf	96.8 - 106.5	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	6/13/2023	N	EM10	UMCf	96.8 - 106.5	<0.174 UJ	<12	370 J+	150	120 J+	<12	<11	19 J	<11	180	<12
U4-MW-07D	7/17/2023	N	EM11	UMCf	96.8 - 106.5	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	8/11/2023	N	EM12	UMCf	96.8 - 106.5	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	9/13/2023	N	EM13	UMCf	96.8 - 106.5	<0.174	<30.4	174 J	54.0 J	<27.4	<28.8 UJ	<27.8 UJ	43.0 J	<27.8 UJ	47.2 J	<29.9
U4-MW-07D	10/18/2023	N	EM14	UMCf	96.8 - 106.5	<17.4	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	11/16/2023	N	EM15	UMCf	96.8 - 106.5	<17.4	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	12/12/2023	N	EM16	UMCf	96.8 - 106.5	<0.174	<0.061	378	267	39.0	<0.058	<0.056	913	<0.056	131	44.5
U4-MW-07D	1/26/2024	N	EM17	UMCf	96.8 - 106.5	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	2/13/2024	N	EM18	UMCf	96.8 - 106.5	<4.35	----	----	----	----	----	----	----	----	----	----
U4-MW-07D	3/11/2024	N	EM19	UMCf	96.8 - 106.5	<4.35	<0.12	844	674	<0.11	<0.24	<0.11	2,660	159	1,500	<0.12
U4-MW-07D	6/12/2024	N	EM20	UMCf	96.8 - 106.5	<0.174	<0.12 UJ	845 J	1,540 J	<0.11 UJ	<0.24 UJ	<0.11 UJ	1,040 J	204 J	1,670 J	<0.12 UJ
U4-MW-07D	9/18/2024	N	EM21	UMCf	96.8 - 106.5	<0.174	<0.12	679	1,220	<0.11	26.9	<0.11	897	117	1,140	<0.12
U4-MW-07I	4/15/2022	N	BL02	UMCf	76.8 - 86.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-07I	10/12/2022	N	EM02	UMCf	76.8 - 86.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-07I	11/3/2022	N	EM03	UMCf	76.8 - 86.8	<0.174	----	----	----	----	----	----	----	----	----	----

Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G
						Xylenes, Total	3-Methylbutanoic Acid	Acetic Acid	Butyric Acid	Formic Acid	Hexanoic Acid	i-Hexanoic Acid	Lactic Acid	Pentanoic Acid	Propionic Acid	Pyruvic Acid
						µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
U4-MW-07I	12/7/2022	N	EM04	UMCf	76.8 - 86.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-07I	1/11/2023	N	EM05	UMCf	76.8 - 86.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-07I	2/15/2023	N	EM06	UMCf	76.8 - 86.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-07I	3/16/2023	N	EM07	UMCf	76.8 - 86.8	<0.870	<0.61	3.0 J	<0.58	66 J+	<0.58	<0.56	<0.53	<0.56	0.59 J	<0.60
U4-MW-07I	4/21/2023	N	EM08	UMCf	76.8 - 86.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-07I	5/11/2023	N	EM09	UMCf	76.8 - 86.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-07I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<0.870	<3.0	260	7.8 J	220	6.6 J	<2.8	12 J	<2.8	23 J	<3.0
U4-MW-07I	7/17/2023	N	EM11	UMCf	76.8 - 86.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-07I	8/11/2023	N	EM12	UMCf	76.8 - 86.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-07I	9/13/2023	N	EM13	UMCf	76.8 - 86.8	<0.174	<30.4	330	207 J	<27.4	<28.8 UJ	<27.8 UJ	38.4 J	<27.8 UJ	157 J	<29.9
U4-MW-07I	10/18/2023	N	EM14	UMCf	76.8 - 86.8	<8.70	----	----	----	----	----	----	----	----	----	----
U4-MW-07I	11/16/2023	N	EM15	UMCf	76.8 - 86.8	<8.70	----	----	----	----	----	----	----	----	----	----
U4-MW-07I	12/11/2023	N	EM16	UMCf	76.8 - 86.8	<0.174	<0.061	287	186	8.9	<0.058	<0.056	514 J	4.2	92.3	27.2
U4-MW-07I	1/26/2024	N	EM17	UMCf	76.8 - 86.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-07I	2/13/2024	N	EM18	UMCf	76.8 - 86.8	<8.70	----	----	----	----	----	----	----	----	----	----
U4-MW-07I	3/11/2024	N	EM19	UMCf	76.8 - 86.8	<8.70	<0.12	422	211	<0.11	<0.24	<0.11	994	<0.17	466	<0.12
U4-MW-07I	6/12/2024	N	EM20	UMCf	76.8 - 86.8	<0.174	<0.12 UJ	477 J	462 J	<0.11 UJ	28.7 J	<0.11 UJ	47.2 J	77.6 J	672 J	<0.12 UJ
U4-MW-07I	9/18/2024	N	EM21	UMCf	76.8 - 86.8	<0.174	<0.12	340	196	6.2 J	<0.24	<0.11	143	37.5	268	8.4 J
U4-MW-08D	4/13/2022	N	BL02	UMCf	98.6 - 108.6	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-08D	12/7/2022	N	EM04	UMCf	98.6 - 108.6	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-08D	3/17/2023	N	EM07	UMCf	98.6 - 108.6	<17.4	----	----	----	----	----	----	----	----	----	----
U4-MW-08D	6/13/2023	N	EM10	UMCf	98.6 - 108.6	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-08D	9/13/2023	N	EM13	UMCf	98.6 - 108.6	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-08D	12/11/2023	N	EM16	UMCf	98.6 - 108.6	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-08D	3/12/2024	N	EM19	UMCf	98.6 - 108.6	<34.8	----	----	----	----	----	----	----	----	----	----
U4-MW-08D	6/14/2024	N	EM20	UMCf	98.6 - 108.6	<34.8	----	----	----	----	----	----	----	----	----	----
U4-MW-08D	9/23/2024	N	EM21	UMCf	98.6 - 108.6	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-08DD	4/20/2022	N	BL02	UMCf	119.8 - 129.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-08DD	4/20/2022	FD	BL02	UMCf	119.8 - 129.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-08DD	12/8/2022	N	EM04	UMCf	119.8 - 129.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-08DD	3/15/2023	N	EM07	UMCf	119.8 - 129.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-08DD	6/14/2023	N	EM10	UMCf	119.8 - 129.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-08DD	9/14/2023	N	EM13	UMCf	119.8 - 129.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-08DD	12/14/2023	N	EM16	UMCf	119.8 - 129.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-08DD	3/14/2024	N	EM19	UMCf	119.8 - 129.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-08DD	6/12/2024	N	EM20	UMCf	119.8 - 129.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-08DD	9/20/2024	N	EM21	UMCf	119.8 - 129.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-08I	4/13/2022	N	BL02	UMCf	78.0 - 88.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-08I	12/7/2022	N	EM04	UMCf	78.0 - 88.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-08I	12/7/2022	FD	EM04	UMCf	78.0 - 88.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-08I	3/17/2023	N	EM07	UMCf	78.0 - 88.0	<8.70	----	----	----	----	----	----	----	----	----	----
U4-MW-08I	6/13/2023	N	EM10	UMCf	78.0 - 88.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-08I	9/13/2023	N	EM13	UMCf	78.0 - 88.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-08I	12/11/2023	N	EM16	UMCf	78.0 - 88.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-08I	3/12/2024	N	EM19	UMCf	78.0 - 88.0	<17.4	----	----	----	----	----	----	----	----	----	----
U4-MW-08I	6/14/2024	N	EM20	UMCf	78.0 - 88.0	<17.4	----	----	----	----	----	----	----	----	----	----
U4-MW-08I	9/23/2024	N	EM21	UMCf	78.0 - 88.0	<0.174	----	----	----	----	----	----	----	----	----	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G
						Xylenes, Total	3-Methylbutanoic Acid	Acetic Acid	Butyric Acid	Formic Acid	Hexanoic Acid	i-Hexanoic Acid	Lactic Acid	Pentanoic Acid	Propionic Acid	Pyruvic Acid
						µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
U4-MW-08S	4/15/2022	N	BL02	UMCf	54.9 - 64.9	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-08S	12/7/2022	N	EM04	UMCf	54.9 - 64.9	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-08S	12/7/2022	FD	EM04	UMCf	54.9 - 64.9	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-08S	3/13/2023	N	EM07	UMCf	54.9 - 64.9	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-08S	3/13/2023	FD	EM07	UMCf	54.9 - 64.9	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-08S	6/13/2023	N	EM10	UMCf	54.9 - 64.9	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-08S	6/13/2023	FD	EM10	UMCf	54.9 - 64.9	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-08S	9/13/2023	N	EM13	UMCf	54.9 - 64.9	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-08S	9/13/2023	FD	EM13	UMCf	54.9 - 64.9	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-08S	12/14/2023	N	EM16	UMCf	54.9 - 64.9	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-08S	12/14/2023	FD	EM16	UMCf	54.9 - 64.9	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-08S	3/14/2024	N	EM19	UMCf	54.9 - 64.9	<0.348 UJ	----	----	----	----	----	----	----	----	----	----
U4-MW-08S	3/14/2024	FD	EM19	UMCf	54.9 - 64.9	<0.348 UJ	----	----	----	----	----	----	----	----	----	----
U4-MW-08S	3/25/2024	N	EM19	UMCf	54.9 - 64.9	<0.174 UJ	----	----	----	----	----	----	----	----	----	----
U4-MW-08S	3/25/2024	FD	EM19	UMCf	54.9 - 64.9	<0.174 UJ	----	----	----	----	----	----	----	----	----	----
U4-MW-08S	6/14/2024	N	EM20	UMCf	54.9 - 64.9	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-08S	6/14/2024	FD	EM20	UMCf	54.9 - 64.9	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-08S	9/20/2024	N	EM21	UMCf	54.9 - 64.9	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-08S	9/20/2024	FD	EM21	UMCf	54.9 - 64.9	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-09D	4/14/2022	N	BL02	UMCf	96.9 - 106.9	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-09D	12/6/2022	N	EM04	UMCf	96.9 - 106.9	<1.74 UJ	----	----	----	----	----	----	----	----	----	----
U4-MW-09D	3/16/2023	N	EM07	UMCf	96.9 - 106.9	<1.74	----	----	----	----	----	----	----	----	----	----
U4-MW-09D	6/14/2023	N	EM10	UMCf	96.9 - 106.9	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-09D	9/12/2023	N	EM13	UMCf	96.9 - 106.9	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-09D	12/15/2023	N	EM16	UMCf	96.9 - 106.9	12.4 J	----	----	----	----	----	----	----	----	----	----
U4-MW-09D	3/13/2024	N	EM19	UMCf	96.9 - 106.9	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-09D	6/13/2024	N	EM20	UMCf	96.9 - 106.9	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-09D	9/19/2024	N	EM21	UMCf	96.9 - 106.9	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-09DD	4/14/2022	N	BL02	UMCf	119.8 - 129.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-09DD	12/6/2022	N	EM04	UMCf	119.8 - 129.8	<0.174 UJ	----	----	----	----	----	----	----	----	----	----
U4-MW-09DD	3/21/2023	N	EM07	UMCf	119.8 - 129.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-09DD	6/15/2023	N	EM10	UMCf	119.8 - 129.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-09DD	9/13/2023	N	EM13	UMCf	119.8 - 129.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-09DD	12/13/2023	N	EM16	UMCf	119.8 - 129.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-09DD	3/14/2024	N	EM19	UMCf	119.8 - 129.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-09DD	6/13/2024	N	EM20	UMCf	119.8 - 129.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-09DD	9/20/2024	N	EM21	UMCf	119.8 - 129.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-09I	4/14/2022	N	BL02	UMCf	76.8 - 86.8	0.326 J	----	----	----	----	----	----	----	----	----	----
U4-MW-09I	12/6/2022	N	EM04	UMCf	76.8 - 86.8	<1.74 UJ	----	----	----	----	----	----	----	----	----	----
U4-MW-09I	3/16/2023	N	EM07	UMCf	76.8 - 86.8	<1.74	----	----	----	----	----	----	----	----	----	----
U4-MW-09I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-09I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-09I	12/15/2023	N	EM16	UMCf	76.8 - 86.8	<4.35 UJ	----	----	----	----	----	----	----	----	----	----
U4-MW-09I	3/13/2024	N	EM19	UMCf	76.8 - 86.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-09I	6/13/2024	N	EM20	UMCf	76.8 - 86.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-09I	9/19/2024	N	EM21	UMCf	76.8 - 86.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-09S	4/14/2022	N	BL02	UMCf	55.3 - 65.3	<0.174	----	----	----	----	----	----	----	----	----	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G
						Xylenes, Total	3-Methylbutanoic Acid	Acetic Acid	Butyric Acid	Formic Acid	Hexanoic Acid	i-Hexanoic Acid	Lactic Acid	Pentanoic Acid	Propionic Acid	Pyruvic Acid
						µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
U4-MW-09S	12/6/2022	N	EM04	UMCf	55.3 - 65.3	<0.174 UJ	----	----	----	----	----	----	----	----	----	----
U4-MW-09S	3/17/2023	N	EM07	UMCf	55.3 - 65.3	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-09S	6/15/2023	N	EM10	UMCf	55.3 - 65.3	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-09S	9/13/2023	N	EM13	UMCf	55.3 - 65.3	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-09S	12/12/2023	N	EM16	UMCf	55.3 - 65.3	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-09S	3/13/2024	N	EM19	UMCf	55.3 - 65.3	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-09S	6/13/2024	N	EM20	UMCf	55.3 - 65.3	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-09S	9/19/2024	N	EM21	UMCf	55.3 - 65.3	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-10D	4/14/2022	N	BL02	UMCf	96.9 - 106.9	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-10D	12/5/2022	N	EM04	UMCf	96.9 - 106.9	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-10D	3/17/2023	N	EM07	UMCf	96.9 - 106.9	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-10D	6/14/2023	N	EM10	UMCf	96.9 - 106.9	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-10D	9/13/2023	N	EM13	UMCf	96.9 - 106.9	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-10D	12/14/2023	N	EM16	UMCf	96.9 - 106.9	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-10D	3/14/2024	N	EM19	UMCf	96.9 - 106.9	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-10D	6/11/2024	N	EM20	UMCf	96.9 - 106.9	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-10D	9/26/2024	N	EM21	UMCf	96.9 - 106.9	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-10I	4/14/2022	N	BL02	UMCf	77.1 - 87.1	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-10I	12/5/2022	N	EM04	UMCf	77.1 - 87.1	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-10I	3/17/2023	N	EM07	UMCf	77.1 - 87.1	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-10I	6/14/2023	N	EM10	UMCf	77.1 - 87.1	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-10I	9/13/2023	N	EM13	UMCf	77.1 - 87.1	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-10I	12/14/2023	N	EM16	UMCf	77.1 - 87.1	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-10I	3/13/2024	N	EM19	UMCf	77.1 - 87.1	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-10I	6/11/2024	N	EM20	UMCf	77.1 - 87.1	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-10I	9/25/2024	N	EM21	UMCf	77.1 - 87.1	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-11D	4/15/2022	N	BL02	UMCf	97.4 - 107.4	<0.174	<6.1	25 J	<5.8	460	<5.8	<5.6	<5.3	<5.6	<5.3	<6.0
U4-MW-11D	9/26/2022	N	EM01	UMCf	97.4 - 107.4	<8.70	----	----	----	----	----	----	----	----	----	----
U4-MW-11D	10/11/2022	N	EM02	UMCf	97.4 - 107.4	<1.74	----	----	----	----	----	----	----	----	----	----
U4-MW-11D	11/1/2022	N	EM03	UMCf	97.4 - 107.4	<8.70	----	----	----	----	----	----	----	----	----	----
U4-MW-11D	12/6/2022	N	EM04	UMCf	97.4 - 107.4	<4.35 UJ	<3.0	27 J+	4.1 J	320 J+	<2.9	<2.8	6.7 J	<2.8	3.4 J	<3.0
U4-MW-11D	1/12/2023	N	EM05	UMCf	97.4 - 107.4	<34.8	----	----	----	----	----	----	----	----	----	----
U4-MW-11D	2/14/2023	N	EM06	UMCf	97.4 - 107.4	<34.8	----	----	----	----	----	----	----	----	----	----
U4-MW-11D	3/16/2023	N	EM07	UMCf	97.4 - 107.4	<34.8	<12	<25	<12	670 J+	<12	<11	<11	<11	<11	<12
U4-MW-11D	4/18/2023	N	EM08	UMCf	97.4 - 107.4	<0.870	----	----	----	----	----	----	----	----	----	----
U4-MW-11D	5/17/2023	N	EM09	UMCf	97.4 - 107.4	<3.48 UJ	----	----	----	----	----	----	----	----	----	----
U4-MW-11D	6/16/2023	N	EM10	UMCf	97.4 - 107.4	<0.174	<12	36 J	<12	1,100	<12	<11	<11	<11	16 J	<12
U4-MW-11D	7/14/2023	N	EM11	UMCf	97.4 - 107.4	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-11D	8/14/2023	N	EM12	UMCf	97.4 - 107.4	<34.8	----	----	----	----	----	----	----	----	----	----
U4-MW-11D	9/13/2023	N	EM13	UMCf	97.4 - 107.4	<0.174	<30.4	<61.6	<28.8	<27.4	<28.8 UJ	<27.8 UJ	<26.5	<27.8 UJ	<26.5	<29.9
U4-MW-11D	10/18/2023	N	EM14	UMCf	97.4 - 107.4	<34.8	----	----	----	----	----	----	----	----	----	----
U4-MW-11D	11/16/2023	N	EM15	UMCf	97.4 - 107.4	<8.70	----	----	----	----	----	----	----	----	----	----
U4-MW-11D	12/13/2023	N	EM16	UMCf	97.4 - 107.4	<0.174	<0.061	118	54.6	<0.055	<0.058	<0.056	43.7	<0.056	46.3	<0.060
U4-MW-11D	1/25/2024	N	EM17	UMCf	97.4 - 107.4	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-11D	2/14/2024	N	EM18	UMCf	97.4 - 107.4	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-11D	3/12/2024	N	EM19	UMCf	97.4 - 107.4	<17.4	<0.12	<0.12	<0.058	<0.11	<0.24	<0.11	<0.12	<0.17	<0.053	<0.12
U4-MW-11D	6/12/2024	N	EM20	UMCf	97.4 - 107.4	<0.174	<0.12 UJ	<0.12 UJ	<0.058 UJ	<0.11 UJ	<0.24 UJ	<0.11 UJ	<0.12 UJ	<0.17 UJ	<0.053 UJ	<0.12 UJ

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Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G
						Xylenes, Total	3-Methylbutanoic Acid	Acetic Acid	Butyric Acid	Formic Acid	Hexanoic Acid	i-Hexanoic Acid	Lactic Acid	Pentanoic Acid	Propionic Acid	Pyruvic Acid
						µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
U4-MW-11D	9/23/2024	N	EM21	UMCf	97.4 - 107.4	<0.174	<0.12	<0.12	<0.058	<0.11	<0.24	678	<0.12	<0.17	<0.053	<0.12
U4-MW-11I	4/14/2022	N	BL02	UMCf	77.0 - 87.0	<0.174	<1.2	3.6 J	<1.2	91	<1.2	<1.1	<1.1	<1.1	<1.1	<1.2
U4-MW-11I	9/26/2022	N	EM01	UMCf	77.0 - 87.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	9/26/2022	FD	EM01	UMCf	77.0 - 87.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	10/10/2022	N	EM02	UMCf	77.0 - 87.0	<1.74	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	10/10/2022	FD	EM02	UMCf	77.0 - 87.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	10/31/2022	N	EM03	UMCf	77.0 - 87.0	<0.870	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	10/31/2022	FD	EM03	UMCf	77.0 - 87.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	12/6/2022	N	EM04	UMCf	77.0 - 87.0	<0.174 UJ	<6.1 UJ	480 J-	11 J	21 J	<5.8 UJ	<5.6 UJ	8.7 J	<5.6 UJ	21 J	<6.0 UJ
U4-MW-11I	12/6/2022	FD	EM04	UMCf	77.0 - 87.0	<0.174 UJ	<6.1 UJ	490 J-	15 J	53 J	<5.8 UJ	<5.6 UJ	10 J	<5.6 UJ	26 J	<6.0 UJ
U4-MW-11I	1/12/2023	N	EM05	UMCf	77.0 - 87.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	1/12/2023	FD	EM05	UMCf	77.0 - 87.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	2/14/2023	N	EM06	UMCf	77.0 - 87.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	2/14/2023	FD	EM06	UMCf	77.0 - 87.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	3/16/2023	N	EM07	UMCf	77.0 - 87.0	<0.174	<3.0	270	<2.9	59 J+	<2.9	<2.8	4.4 J	<2.8	92	<3.0
U4-MW-11I	3/16/2023	FD	EM07	UMCf	77.0 - 87.0	<0.174	<3.0	290	<2.9	58 J+	<2.9	<2.8	3.7 J	<2.8	94	<3.0
U4-MW-11I	4/18/2023	N	EM08	UMCf	77.0 - 87.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	4/18/2023	FD	EM08	UMCf	77.0 - 87.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	5/19/2023	N	EM09	UMCf	77.0 - 87.0	<0.174 UJ	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	5/19/2023	FD	EM09	UMCf	77.0 - 87.0	<0.174 UJ	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	6/15/2023	N	EM10	UMCf	77.0 - 87.0	<0.174	1.3 J	90	<0.58	63	0.63 J	<0.56	7.6	<0.56	46	1.9 J
U4-MW-11I	6/15/2023	FD	EM10	UMCf	77.0 - 87.0	<0.174	0.96 J	95	<0.58	61	<0.58	<0.56	7.8	<0.56	48	1.4 J
U4-MW-11I	7/13/2023	N	EM11	UMCf	77.0 - 87.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	7/13/2023	FD	EM11	UMCf	77.0 - 87.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	8/14/2023	N	EM12	UMCf	77.0 - 87.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	8/14/2023	FD	EM12	UMCf	77.0 - 87.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	9/13/2023	N	EM13	UMCf	77.0 - 87.0	<0.174	<30.4	<61.6	<28.8	<27.4	<28.8 UJ	<27.8 UJ	30.1 J	<27.8 UJ	<26.5	<29.9
U4-MW-11I	9/13/2023	FD	EM13	UMCf	77.0 - 87.0	<0.174	<30.4	<61.6	<28.8	<27.4	<28.8 UJ	<27.8 UJ	44.6 J	<27.8 UJ	<26.5	<29.9
U4-MW-11I	10/19/2023	N	EM14	UMCf	77.0 - 87.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	10/19/2023	FD	EM14	UMCf	77.0 - 87.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	11/16/2023	N	EM15	UMCf	77.0 - 87.0	<8.70	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	11/16/2023	FD	EM15	UMCf	77.0 - 87.0	<8.70	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	12/13/2023	N	EM16	UMCf	77.0 - 87.0	<0.174	<0.061	<0.12	<0.058	<0.055	<0.058	<0.056	28.3	<0.056	<0.053	<0.060
U4-MW-11I	12/13/2023	FD	EM16	UMCf	77.0 - 87.0	<0.174	<0.061	<0.12	<0.058	<0.055	<0.058	<0.056	28.0	<0.056	<0.053	<0.060
U4-MW-11I	1/25/2024	N	EM17	UMCf	77.0 - 87.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	1/25/2024	FD	EM17	UMCf	77.0 - 87.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	2/14/2024	N	EM18	UMCf	77.0 - 87.0	<8.70	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	2/14/2024	FD	EM18	UMCf	77.0 - 87.0	<8.70	----	----	----	----	----	----	----	----	----	----
U4-MW-11I	3/13/2024	N	EM19	UMCf	77.0 - 87.0	<0.174	<0.12	<0.12	<0.058	<0.11	<0.24	<0.11	<0.12	<0.17	<0.053	<0.12
U4-MW-11I	3/13/2024	FD	EM19	UMCf	77.0 - 87.0	<0.174	<0.12	<0.12	<0.058	<0.11	<0.24	<0.11	<0.12	<0.17	<0.053	<0.12
U4-MW-11I	6/12/2024	N	EM20	UMCf	77.0 - 87.0	<0.174	<0.12 UJ	<0.12 UJ	<0.058 UJ	<0.11 UJ	<0.24 UJ	<0.11 UJ	18.2 J	<0.17 UJ	<0.053 UJ	<0.12 UJ
U4-MW-11I	6/12/2024	FD	EM20	UMCf	77.0 - 87.0	<0.174	<0.12 UJ	<0.12 UJ	<0.058 UJ	<0.11 UJ	<0.24 UJ	<0.11 UJ	14.2 J	<0.17 UJ	<0.053 UJ	<0.12 UJ
U4-MW-11I	9/23/2024	N	EM21	UMCf	77.0 - 87.0	<0.174	<0.12	<0.12	<0.058	<0.11	<0.24	<0.11	<0.12	<0.17	<0.053	<0.12
U4-MW-11I	9/23/2024	FD	EM21	UMCf	77.0 - 87.0	<0.174	<0.12	<0.12	<0.058	<0.11	<0.24	<0.11	<0.12	<0.17	<0.053	<0.12
U4-MW-12D	4/15/2022	N	BL02	UMCf	97.1 - 107.1	<0.174	<6.1	26 J	<5.8	460	<5.8	43 J	<5.3	<5.6	<5.3	<6.0
U4-MW-12D	9/27/2022	N	EM01	UMCf	97.1 - 107.1	<3.48	----	----	----	----	----	----	----	----	----	----
U4-MW-12D	10/12/2022	N	EM02	UMCf	97.1 - 107.1	<0.174	----	----	----	----	----	----	----	----	----	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G
						Xylenes, Total	3-Methylbutanoic Acid	Acetic Acid	Butyric Acid	Formic Acid	Hexanoic Acid	i-Hexanoic Acid	Lactic Acid	Pentanoic Acid	Propionic Acid	Pyruvic Acid
						µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
U4-MW-12D	11/2/2022	N	EM03	UMCf	97.1 - 107.1	<1.74	----	----	----	----	----	----	----	----	----	----
U4-MW-12D	12/7/2022	N	EM04	UMCf	97.1 - 107.1	<0.174	<6.1 R	49 J	<5.8 R	<5.5 R	6.9 J	<5.6 R	9.4 J	<5.6 R	1,500 J-	<6.0 R
U4-MW-12D	1/12/2023	N	EM05	UMCf	97.1 - 107.1	<17.4	----	----	----	----	----	----	----	----	----	----
U4-MW-12D	2/15/2023	N	EM06	UMCf	97.1 - 107.1	<17.4	----	----	----	----	----	----	----	----	----	----
U4-MW-12D	3/14/2023	N	EM07	UMCf	97.1 - 107.1	<8.70	<6.1	65	<5.8	260	<5.8	<5.6	<5.3	<5.6	10 J	<6.0
U4-MW-12D	4/17/2023	N	EM08	UMCf	97.1 - 107.1	<0.870 UJ	----	----	----	----	----	----	----	----	----	----
U4-MW-12D	5/17/2023	N	EM09	UMCf	97.1 - 107.1	<17.4	----	----	----	----	----	----	----	----	----	----
U4-MW-12D	6/16/2023	N	EM10	UMCf	97.1 - 107.1	<0.174	<12	28 J	<12	1,200	<12	<11	<11	<11	11 J	<12
U4-MW-12D	7/13/2023	N	EM11	UMCf	97.1 - 107.1	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-12D	8/14/2023	N	EM12	UMCf	97.1 - 107.1	<8.70	----	----	----	----	----	----	----	----	----	----
U4-MW-12D	9/12/2023	N	EM13	UMCf	97.1 - 107.1	<8.70	<3.0	10.9 J	<2.9	<2.7	<2.9 UJ	<2.8 UJ	6.1 J	<2.8 UJ	<2.6	<3.0
U4-MW-12D	10/17/2023	N	EM14	UMCf	97.1 - 107.1	<0.870	----	----	----	----	----	----	----	----	----	----
U4-MW-12D	11/15/2023	N	EM15	UMCf	97.1 - 107.1	<0.870	----	----	----	----	----	----	----	----	----	----
U4-MW-12D	12/12/2023	N	EM16	UMCf	97.1 - 107.1	<0.174	<0.061	252	93.6	<0.055	3.8	<0.056	32.2 J+	<0.056	136	<0.060
U4-MW-12D	1/24/2024	N	EM17	UMCf	97.1 - 107.1	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-12D	2/13/2024	N	EM18	UMCf	97.1 - 107.1	<3.48	----	----	----	----	----	----	----	----	----	----
U4-MW-12D	3/12/2024	N	EM19	UMCf	97.1 - 107.1	<3.48	<0.12	317	64.2	<0.11	56.1	<0.11	<0.12	<0.17	170	<0.12
U4-MW-12D	6/12/2024	N	EM20	UMCf	97.1 - 107.1	<0.174	<0.12 UJ	10.6 J	3.2 J	<0.11 UJ	<0.24 UJ	<0.11 UJ	9.4 J	<0.17 UJ	<0.053 UJ	<0.12 UJ
U4-MW-12D	9/24/2024	N	EM21	UMCf	97.1 - 107.1	<0.174	<0.12	22.0	5.1 J	<0.11	<0.24	<0.11	<0.12	<0.17	7.8 J	<0.12
U4-MW-12I	4/14/2022	N	BL02	UMCf	76.8 - 86.8	<0.174	<6.1	<12	<5.8	240	<5.8	<5.6	<5.3	<5.6	<5.3	<6.0
U4-MW-12I	4/14/2022	FD	BL02	UMCf	76.8 - 86.8	<0.174	<6.1	<12	<5.8	220	<5.8	<5.6	<5.3	<5.6	<5.3	<6.0
U4-MW-12I	9/27/2022	N	EM01	UMCf	76.8 - 86.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-12I	10/12/2022	N	EM02	UMCf	76.8 - 86.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-12I	11/2/2022	N	EM03	UMCf	76.8 - 86.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-12I	12/7/2022	N	EM04	UMCf	76.8 - 86.8	<0.174	<1.2 R	170 J-	<1.2 R	110 J-	2.1 J	<1.1 R	6.9 J	<1.1 R	6.1 J	<1.2 R
U4-MW-12I	12/7/2022	FD	EM04	UMCf	76.8 - 86.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-12I	1/13/2023	N	EM05	UMCf	76.8 - 86.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-12I	2/15/2023	N	EM06	UMCf	76.8 - 86.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-12I	3/13/2023	N	EM07	UMCf	76.8 - 86.8	<0.174	<6.1	590	26 J	54	<5.8	<5.6	15 J	<5.6	150	<6.0
U4-MW-12I	4/17/2023	N	EM08	UMCf	76.8 - 86.8	<0.174 UJ	----	----	----	----	----	----	----	----	----	----
U4-MW-12I	5/17/2023	N	EM09	UMCf	76.8 - 86.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-12I	6/16/2023	N	EM10	UMCf	76.8 - 86.8	<0.174	<3.0	170	<2.9	290	<2.9	<2.8	<2.7	<2.8	82	<3.0
U4-MW-12I	7/11/2023	N	EM11	UMCf	76.8 - 86.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-12I	8/14/2023	N	EM12	UMCf	76.8 - 86.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-12I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	<0.174	<1.2	3.5 J	<1.2	<1.1	<1.2 UJ	<1.1 UJ	10.6	<1.1 UJ	<1.1	<1.2
U4-MW-12I	10/17/2023	N	EM14	UMCf	76.8 - 86.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-12I	11/16/2023	N	EM15	UMCf	76.8 - 86.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-12I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	<0.174	<0.061	<0.12	<0.058	<0.055	<0.058	<0.056	17.9 J+	<0.056 R	<0.053	<0.060
U4-MW-12I	1/24/2024	N	EM17	UMCf	76.8 - 86.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-12I	2/13/2024	N	EM18	UMCf	76.8 - 86.8	<3.48	----	----	----	----	----	----	----	----	----	----
U4-MW-12I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	<3.48	<0.12 UJ	<0.12	<0.058	<0.11	<0.24	<0.11	<0.12	<0.17	<0.053	<0.12
U4-MW-12I	6/13/2024	N	EM20	UMCf	76.8 - 86.8	<0.174	<0.12	<0.12	<0.058	<0.11	<0.24	<0.11	40.5 J	<0.17	<0.053	<0.12
U4-MW-12I	9/23/2024	N	EM21	UMCf	76.8 - 86.8	<0.174	<0.12	<0.12	<0.058	<0.11	<0.24	<0.11 R	<0.12	<0.17	<0.053	<0.12
U4-MW-13D	4/14/2022	N	BL02	UMCf	98.2 - 108.2	<0.174	<12	27 J	<12	490	<12	<11	<11	<11	<11	<12
U4-MW-13D	9/28/2022	N	EM01	UMCf	98.2 - 108.2	<1.74	----	----	----	----	----	----	----	----	----	----
U4-MW-13D	10/11/2022	N	EM02	UMCf	98.2 - 108.2	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-13D	11/3/2022	N	EM03	UMCf	98.2 - 108.2	<0.174	----	----	----	----	----	----	----	----	----	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G
						Xylenes, Total	3-Methylbutanoic Acid	Acetic Acid	Butyric Acid	Formic Acid	Hexanoic Acid	i-Hexanoic Acid	Lactic Acid	Pentanoic Acid	Propionic Acid	Pyruvic Acid
						µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
U4-MW-13D	12/7/2022	N	EM04	UMCf	98.2 - 108.2	<0.174	<3.0 R	18 J	<2.9 R	<2.7 R	<2.9 R	<2.8 R	6.6 J	<2.8 R	300 J-	<3.0 R
U4-MW-13D	1/12/2023	N	EM05	UMCf	98.2 - 108.2	<3.48	----	----	----	----	----	----	----	----	----	----
U4-MW-13D	2/15/2023	N	EM06	UMCf	98.2 - 108.2	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-13D	3/17/2023	N	EM07	UMCf	98.2 - 108.2	<3.48	<1.2 UJ	5.2 J	<1.2 UJ	130 J	<1.2 UJ	<1.1 UJ	<1.1 UJ	<1.1 UJ	<1.1 UJ	<1.2 UJ
U4-MW-13D	4/18/2023	N	EM08	UMCf	98.2 - 108.2	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-13D	5/17/2023	N	EM09	UMCf	98.2 - 108.2	<3.48	----	----	----	----	----	----	----	----	----	----
U4-MW-13D	6/15/2023	N	EM10	UMCf	98.2 - 108.2	<0.174	<1.2	5.7 J	<1.2	120	<1.2	<1.1	5.2 J	<1.1	1.8 J	<1.2
U4-MW-13D	7/12/2023	N	EM11	UMCf	98.2 - 108.2	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-13D	8/11/2023	N	EM12	UMCf	98.2 - 108.2	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-13D	9/11/2023	N	EM13	UMCf	98.2 - 108.2	<4.35	<3.0	7.4 J	<2.9	<2.7	<2.9 UJ	<2.8 UJ	4.9 J	<2.8 UJ	<2.6	<3.0
U4-MW-13D	10/18/2023	N	EM14	UMCf	98.2 - 108.2	<4.35	----	----	----	----	----	----	----	----	----	----
U4-MW-13D	11/15/2023	N	EM15	UMCf	98.2 - 108.2	<4.35	----	----	----	----	----	----	----	----	----	----
U4-MW-13D	12/11/2023	N	EM16	UMCf	98.2 - 108.2	<0.174	<0.061	<0.12	<0.058	<0.055	<0.058	<0.056	18.1 J+	<0.056	<0.053	<0.060
U4-MW-13D	1/23/2024	N	EM17	UMCf	98.2 - 108.2	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-13D	2/12/2024	N	EM18	UMCf	98.2 - 108.2	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-13D	3/11/2024	N	EM19	UMCf	98.2 - 108.2	<0.174	<0.12	<0.12	<0.058	<0.11	<0.24	<0.11	<0.12	<0.17	<0.053	<0.12
U4-MW-13D	6/13/2024	N	EM20	UMCf	98.2 - 108.2	<0.174	<0.12	<0.12	<0.058	<0.11	<0.24	<0.11	14.1 J	<0.17	<0.053	<0.12
U4-MW-13D	9/20/2024	N	EM21	UMCf	98.2 - 108.2	<8.70	<0.12	<0.12	<0.058	<0.11	<0.24	<0.11	<0.12	<0.17	<0.053	<0.12
U4-MW-13I	4/14/2022	N	BL02	UMCf	77.1 - 87.1	<0.174	<3.0	17 J	<2.9	240	<2.9	<2.8	21 J	<2.8	<2.6	<3.0
U4-MW-13I	9/28/2022	N	EM01	UMCf	77.1 - 87.1	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-13I	10/10/2022	N	EM02	UMCf	77.1 - 87.1	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-13I	11/3/2022	N	EM03	UMCf	77.1 - 87.1	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-13I	12/6/2022	N	EM04	UMCf	77.1 - 87.1	<0.870 UJ	<1.2	68	<1.2	130 J+	<1.2	<1.1	7.3 J	<1.1	1.5 J	<1.2
U4-MW-13I	1/12/2023	N	EM05	UMCf	77.1 - 87.1	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-13I	2/14/2023	N	EM06	UMCf	77.1 - 87.1	<0.870	----	----	----	----	----	----	----	----	----	----
U4-MW-13I	3/16/2023	N	EM07	UMCf	77.1 - 87.1	<0.174	<0.61	56	<0.58	58 J+	<0.58	<0.56	<0.53	<0.56	4.2 J	<0.60
U4-MW-13I	4/19/2023	N	EM08	UMCf	77.1 - 87.1	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-13I	5/17/2023	N	EM09	UMCf	77.1 - 87.1	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-13I	6/15/2023	N	EM10	UMCf	77.1 - 87.1	<0.174	<0.61	4.2 J	<0.58	58	<0.58	<0.56	12	<0.56	0.86 J	<0.60
U4-MW-13I	7/12/2023	N	EM11	UMCf	77.1 - 87.1	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-13I	8/11/2023	N	EM12	UMCf	77.1 - 87.1	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-13I	9/11/2023	N	EM13	UMCf	77.1 - 87.1	<4.35	<30.4	<61.6	<28.8	<27.4	<28.8 UJ	<27.8 UJ	<26.5	<27.8 UJ	<26.5	<29.9
U4-MW-13I	10/17/2023	N	EM14	UMCf	77.1 - 87.1	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-13I	11/15/2023	N	EM15	UMCf	77.1 - 87.1	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-13I	12/11/2023	N	EM16	UMCf	77.1 - 87.1	<0.174	<0.061	<0.12	<0.058	<0.055	<0.058	<0.056	20.1 J+	<0.056	<0.053	<0.060
U4-MW-13I	1/23/2024	N	EM17	UMCf	77.1 - 87.1	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-13I	2/12/2024	N	EM18	UMCf	77.1 - 87.1	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-13I	3/11/2024	N	EM19	UMCf	77.1 - 87.1	<0.174	<0.12	<0.12	<0.058	<0.11	<0.24	<0.11	<0.12	<0.17	<0.053	<0.12
U4-MW-13I	6/13/2024	N	EM20	UMCf	77.1 - 87.1	<0.174	<0.12	<0.12	<0.058	<0.11	<0.24	<0.11	31.9 J	<0.17	<0.053	<0.12
U4-MW-13I	9/20/2024	N	EM21	UMCf	77.1 - 87.1	<8.70	<0.12	<0.12	<0.058	<0.11	<0.24	<0.11	<0.12	<0.17	<0.053	<0.12
U4-MW-14D	4/13/2022	N	BL02	UMCf	97.3 - 107.3	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-14D	12/6/2022	N	EM04	UMCf	97.3 - 107.3	<0.870 UJ	----	----	----	----	----	----	----	----	----	----
U4-MW-14D	3/16/2023	N	EM07	UMCf	97.3 - 107.3	<0.870	----	----	----	----	----	----	----	----	----	----
U4-MW-14D	6/15/2023	N	EM10	UMCf	97.3 - 107.3	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-14D	9/14/2023	N	EM13	UMCf	97.3 - 107.3	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-14D	12/15/2023	N	EM16	UMCf	97.3 - 107.3	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-14D	3/13/2024	N	EM19	UMCf	97.3 - 107.3	<0.174	----	----	----	----	----	----	----	----	----	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G
						Xylenes, Total	3-Methylbutanoic Acid	Acetic Acid	Butyric Acid	Formic Acid	Hexanoic Acid	i-Hexanoic Acid	Lactic Acid	Pentanoic Acid	Propionic Acid	Pyruvic Acid
						µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
U4-MW-14D	6/13/2024	N	EM20	UMCf	97.3 - 107.3	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-14D	9/19/2024	N	EM21	UMCf	97.3 - 107.3	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-14I	4/14/2022	N	BL02	UMCf	77.3 - 87.3	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-14I	12/6/2022	N	EM04	UMCf	77.3 - 87.3	<0.870 UJ	----	----	----	----	----	----	----	----	----	----
U4-MW-14I	3/16/2023	N	EM07	UMCf	77.3 - 87.3	<0.870	----	----	----	----	----	----	----	----	----	----
U4-MW-14I	6/15/2023	N	EM10	UMCf	77.3 - 87.3	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-14I	9/14/2023	N	EM13	UMCf	77.3 - 87.3	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-14I	12/14/2023	N	EM16	UMCf	77.3 - 87.3	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-14I	3/13/2024	N	EM19	UMCf	77.3 - 87.3	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-14I	6/14/2024	N	EM20	UMCf	77.3 - 87.3	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-14I	9/19/2024	N	EM21	UMCf	77.3 - 87.3	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-15D	4/13/2022	N	BL02	UMCf	96.0 - 106.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-15D	12/5/2022	N	EM04	UMCf	96.0 - 106.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-15D	3/20/2023	N	EM07	UMCf	96.0 - 106.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-15D	6/14/2023	N	EM10	UMCf	96.0 - 106.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-15D	9/13/2023	N	EM13	UMCf	96.0 - 106.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-15D	12/12/2023	N	EM16	UMCf	96.0 - 106.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-15D	3/12/2024	N	EM19	UMCf	96.0 - 106.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-15D	6/14/2024	N	EM20	UMCf	96.0 - 106.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-15D	9/24/2024	N	EM21	UMCf	96.0 - 106.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-15DD	4/13/2022	N	BL02	UMCf	120.3 - 130.3	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-15DD	12/5/2022	N	EM04	UMCf	120.3 - 130.3	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-15DD	3/15/2023	N	EM07	UMCf	120.3 - 130.3	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-15DD	6/13/2023	N	EM10	UMCf	120.3 - 130.3	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-15DD	9/14/2023	N	EM13	UMCf	120.3 - 130.3	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-15DD	12/13/2023	N	EM16	UMCf	120.3 - 130.3	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-15DD	3/12/2024	N	EM19	UMCf	120.3 - 130.3	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-15DD	6/14/2024	N	EM20	UMCf	120.3 - 130.3	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-15DD	9/24/2024	N	EM21	UMCf	120.3 - 130.3	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-15I	4/12/2022	N	BL02	UMCf	76.8 - 86.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-15I	12/5/2022	N	EM04	UMCf	76.8 - 86.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-15I	3/17/2023	N	EM07	UMCf	76.8 - 86.8	<3.48	----	----	----	----	----	----	----	----	----	----
U4-MW-15I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-15I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-15I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-15I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	<8.70	----	----	----	----	----	----	----	----	----	----
U4-MW-15I	6/17/2024	N	EM20	UMCf	76.8 - 86.8	<8.70	----	----	----	----	----	----	----	----	----	----
U4-MW-15I	9/25/2024	N	EM21	UMCf	76.8 - 86.8	<8.70 UJ	----	----	----	----	----	----	----	----	----	----
U4-MW-15S	4/13/2022	N	BL02	UMCf	54.8 - 64.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-15S	12/5/2022	N	EM04	UMCf	54.8 - 64.8	<4.35	----	----	----	----	----	----	----	----	----	----
U4-MW-15S	3/13/2023	N	EM07	UMCf	54.8 - 64.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-15S	6/13/2023	N	EM10	UMCf	54.8 - 64.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-15S	9/14/2023	N	EM13	UMCf	54.8 - 64.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-15S	12/11/2023	N	EM16	UMCf	54.8 - 64.8	<0.348	----	----	----	----	----	----	----	----	----	----
U4-MW-15S	3/12/2024	N	EM19	UMCf	54.8 - 64.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-15S	3/26/2024	N	EM19	UMCf	54.8 - 64.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-15S	6/14/2024	N	EM20	UMCf	54.8 - 64.8	<0.174	----	----	----	----	----	----	----	----	----	----

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Table 2
Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G
						Xylenes, Total	3-Methylbutanoic Acid	Acetic Acid	Butyric Acid	Formic Acid	Hexanoic Acid	i-Hexanoic Acid	Lactic Acid	Pentanoic Acid	Propionic Acid	Pyruvic Acid
						µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
U4-MW-15S	9/20/2024	N	EM21	UMCf	54.8 - 64.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-16D	4/11/2022	N	BL02	UMCf	96.8 - 106.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-16D	12/5/2022	N	EM04	UMCf	96.8 - 106.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-16D	3/14/2023	N	EM07	UMCf	96.8 - 106.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-16D	6/13/2023	N	EM10	UMCf	96.8 - 106.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-16D	9/15/2023	N	EM13	UMCf	96.8 - 106.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-16D	12/14/2023	N	EM16	UMCf	96.8 - 106.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-16D	3/14/2024	N	EM19	UMCf	96.8 - 106.8	<8.70	----	----	----	----	----	----	----	----	----	----
U4-MW-16D	6/17/2024	N	EM20	UMCf	96.8 - 106.8	<8.70	----	----	----	----	----	----	----	----	----	----
U4-MW-16D	9/20/2024	N	EM21	UMCf	96.8 - 106.8	<8.70	----	----	----	----	----	----	----	----	----	----
U4-MW-16DD	4/12/2022	N	BL02	UMCf	120.8 - 130.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-16DD	12/5/2022	N	EM04	UMCf	120.8 - 130.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-16DD	3/15/2023	N	EM07	UMCf	120.8 - 130.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-16DD	6/13/2023	N	EM10	UMCf	120.8 - 130.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-16DD	9/14/2023	N	EM13	UMCf	120.8 - 130.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-16DD	12/13/2023	N	EM16	UMCf	120.8 - 130.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-16DD	3/14/2024	N	EM19	UMCf	120.8 - 130.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-16DD	6/17/2024	N	EM20	UMCf	120.8 - 130.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-16DD	9/19/2024	N	EM21	UMCf	120.8 - 130.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-16I	4/11/2022	N	BL02	UMCf	77.0 - 87.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-16I	12/5/2022	N	EM04	UMCf	77.0 - 87.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-16I	12/5/2022	FD	EM04	UMCf	77.0 - 87.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-16I	3/13/2023	N	EM07	UMCf	77.0 - 87.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-16I	3/13/2023	FD	EM07	UMCf	77.0 - 87.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-16I	6/12/2023	N	EM10	UMCf	77.0 - 87.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-16I	6/12/2023	FD	EM10	UMCf	77.0 - 87.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-16I	9/11/2023	N	EM13	UMCf	77.0 - 87.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-16I	9/11/2023	FD	EM13	UMCf	77.0 - 87.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-16I	12/11/2023	N	EM16	UMCf	77.0 - 87.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-16I	12/11/2023	FD	EM16	UMCf	77.0 - 87.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-16I	3/11/2024	N	EM19	UMCf	77.0 - 87.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-16I	3/11/2024	FD	EM19	UMCf	77.0 - 87.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-16I	6/18/2024	N	EM20	UMCf	77.0 - 87.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-16I	6/18/2024	FD	EM20	UMCf	77.0 - 87.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-16I	9/19/2024	N	EM21	UMCf	77.0 - 87.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-16I	9/19/2024	FD	EM21	UMCf	77.0 - 87.0	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-16S	4/12/2022	N	BL02	UMCf	54.8 - 64.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-16S	4/12/2022	FD	BL02	UMCf	54.8 - 64.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-16S	12/6/2022	N	EM04	UMCf	54.8 - 64.8	<0.174 UJ	----	----	----	----	----	----	----	----	----	----
U4-MW-16S	3/15/2023	N	EM07	UMCf	54.8 - 64.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-16S	6/13/2023	N	EM10	UMCf	54.8 - 64.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-16S	9/11/2023	N	EM13	UMCf	54.8 - 64.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-16S	12/11/2023	N	EM16	UMCf	54.8 - 64.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-16S	3/11/2024	N	EM19	UMCf	54.8 - 64.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-16S	6/17/2024	N	EM20	UMCf	54.8 - 64.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-MW-16S	9/20/2024	N	EM21	UMCf	54.8 - 64.8	<0.174	----	----	----	----	----	----	----	----	----	----
U4-SLMW	11/10/2022	N	EM03	-	-	<0.870	----	----	----	----	----	----	----	----	----	----

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Groundwater Analytical Results
Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatile Organic Compounds by SW8260B	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G	Volatile Fatty Acids by AM20GAX/AM23G
						Xylenes, Total	3-Methylbutanoic Acid	Acetic Acid	Butyric Acid	Formic Acid	Hexanoic Acid	i-Hexanoic Acid	Lactic Acid	Pentanoic Acid	Propionic Acid	Pyruvic Acid
						µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
U4-T3	10/13/2022	N	EM02	-	-	<0.174	----	----	----	----	----	----	----	----	----	----
U4-T3	11/3/2022	N	EM03	-	-	<0.174	----	----	----	----	----	----	----	----	----	----
U4-T3	12/6/2022	N	EM04	-	-	<3.48 UJ	----	----	----	----	----	----	----	----	----	----
U4-T3	1/9/2023	N	EM05	-	-	<0.174	----	----	----	----	----	----	----	----	----	----
U4-T3	2/13/2023	N	EM06	-	-	<17.4	----	----	----	----	----	----	----	----	----	----
U4-T3	3/13/2023	N	EM07	-	-	<4.35	----	----	----	----	----	----	----	----	----	----
U4-T3	4/19/2023	N	EM08	-	-	<0.174	----	----	----	----	----	----	----	----	----	----
U4-T3	5/18/2023	N	EM09	-	-	<0.174	----	----	----	----	----	----	----	----	----	----
U4-T3	6/12/2023	N	EM10	-	-	<0.174	----	----	----	----	----	----	----	----	----	----
U4-T3	7/11/2023	N	EM11	-	-	<0.174	----	----	----	----	----	----	----	----	----	----
U4-T3	8/10/2023	N	EM12	-	-	<0.174	----	----	----	----	----	----	----	----	----	----
U4-T3	9/11/2023	N	EM13	-	-	<0.174	----	----	----	----	----	----	----	----	----	----
U4-T3	10/16/2023	N	EM14	-	-	<4.35	----	----	----	----	----	----	----	----	----	----

Notes:
FD - Field duplicate
E - Field instrument error.
J - The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J- - The result is an estimated quantity, but the result may be biased low.
J+ - The result is an estimated quantity, but the result may be biased high.
N/A - Not Applicable
mg/L - milligrams per liter
µg/L - micrograms per liter
N - Normal field sample

R - The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

UMCf- Upper Muddy Creek Formation
< - The analyte was analyzed for, but was not detected above the level of the reported
-- Not tested.
U4-E-08D has been abandoned.
M-252 damaged/obstructed when checked on June 14, 2023 and September 14, 2023.
U4-MW-08S and U4-MW-15S were purged and resampled for EM19 on March 25-26, 2024; Original EM19 samples were collected via bailer due to well condition.
Lab was unable to analyze and report TDS for samples L1782240-20 (U4-E-09I-EM21) and -21 (U4-E-09I-EM21-FD) due to the thickness of the sample matrix.