

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: October 2, 2024

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 August 2024 toward successfully implementing the Unit 4 Source Area In-Situ Bioremediation (ISB) Treatability Study.

Task Progress Update: August 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, 2023 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, 2024 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 2023 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.
 - Effectiveness Monitoring – The effectiveness monitoring program included a baseline groundwater sampling event completed in April 2022 prior to system start-up. Following start-up in early September 2022, the effectiveness monitoring program was implemented in accordance with the Work Plan Addendum. Monthly effectiveness monitoring sampling concluded in March 2024, and the study has now transitioned into the post-treatment evaluation phase to evaluate long-term changes in contaminant concentrations and geochemical conditions following system shut down. The post-treatment effectiveness monitoring program consists of two quarterly

sampling events. The first post-treatment effectiveness monitoring event was conducted from June 10 through June 20, 2024. Available draft groundwater analytical results from the baseline sampling event and subsequent monitoring events performed from September 2022 to June 2024 are presented in **Table 2**. The June 2024 groundwater results are summarized below. Final validated data will be provided in the final treatability study results report.

- Area 1 Intermediate – The June 2024 sampling event was conducted approximately three 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 June 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 indicated concentration reductions of greater than 99 percent compared to baseline concentrations. Perchlorate concentrations in the groundwater sample collected from the remaining former extraction well U4-E-02I indicated a concentration reduction of approximately 76 percent compared to the baseline concentration. Perchlorate concentrations in groundwater samples collected from all three monitoring wells screened in the overlying shallow zone were the lowest measured to date and represented reductions ranging from 76 percent to greater than 99 percent compared to baseline conditions. Perchlorate concentrations in groundwater samples collected from three of the seven intermediate monitoring wells located within or around the perimeter of the Area 1 intermediate treatment zone (namely, U4-MW-02I, U4-MW-03I, and U4-MW-07I) reduced significantly compared to the previous sampling event. For example, perchlorate concentrations in the groundwater sample collected from U4-MW-02I decreased from 1,050 mg/L in March 2024 to 388 mg/L in June 2024, which represents a reduction of 70 percent compared to pre-ISB baseline concentrations in March 2023. Perchlorate concentrations in the groundwater samples collected from the remaining four intermediate monitoring wells located within or around the perimeter of the Area 1 intermediate treatment zone were generally similar to the previous March 2024 sampling event.
 - Chlorate concentrations in the 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) indicated concentration reductions ranging from 81 percent to greater than 99 percent compared to baseline concentrations. Of the samples collected from the three intermediate monitoring wells located immediately within Area 1, the greatest chlorate concentration reduction of 84 percent was observed in the groundwater sample collected from monitoring well U4-MW-02I, with a chlorate concentration of 1,900 mg/L compared to a pre-ISB baseline concentration of 12,000 mg/L. In addition, the June 2024 concentration of 1,740 mg/L in the groundwater sample collected from monitoring well U4-MW-07I is significantly lower than the March 2024 concentration of 5,340 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 4,670 mg/L in March 2024 to 1,260 mg/L in June 2024, representing a reduction of 79 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 the lowest chlorate concentrations measured in groundwater collected from these locations since the start of ISB, with reductions ranging from 82 to greater than 99 percent compared to March 2023 pre-ISB baseline concentrations.

- 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 indicated concentration reductions of greater than 84 percent compared to baseline concentrations. Nitrate concentration reductions in samples collected from within and around Area 1 were generally greater than perchlorate and chlorate, with reductions ranging from 76 percent to greater than 99 percent compared to pre-ISB baseline concentrations in samples collected from six of the 10 shallow and intermediate monitoring wells. Nitrate concentrations in groundwater samples collected from four monitoring wells were below the sample detection limit of 0.48 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 86 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 ranging from 80 percent to greater than 99 percent compared to the March 2023 pre-ISB baseline concentrations.
- TOC concentrations in groundwater samples collected from intermediate monitoring wells located in the immediate vicinity of Area 1 and former intermediate injection/extraction wells ranged from 141 mg/L to 8,830 mg/L in June 2024, which is substantially above baseline concentrations and indicates widespread carbon substrate distribution in the subsurface has been sustained 3 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 375 mg/L measured in the groundwater sample collected from intermediate perimeter monitoring well U4-MW-03I.
- Area 1 Deep – The June 2024 sampling event performed three 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 June 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 March 2024 sampling event. When compared to baseline concentrations prior to the start of the treatability study (April 2022), results indicate perchlorate concentration reductions in groundwater samples collected from three of these monitoring wells ranging from 32 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 March 2024 sampling event, with reductions of up to 76 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 limits in all five former injection/extraction wells. Additionally, the results from the groundwater sample collected from U4-MW-02D in June 2024 indicated the lowest chlorate concentration since the treatability study began, with a concentration of 13,900 mg/L compared to the previous March 2024 concentration of 18,500 mg/L. Chlorate concentrations measured in groundwater samples collected from the three remaining deep zone monitoring wells within Area 1, namely, U4-MW-05D, U4-MW-07D, and M-251-100, were similar to or slightly higher than those observed during the previous March 2024 sampling event. Chlorate concentrations in groundwater samples collected from two downgradient deep perimeter monitoring wells U4-MW-01D and U4-MW-03D were the lowest concentrations measured to date in groundwater at these locations, with an average reduction of 38 percent compared to pre-ISB March 2023 baseline concentrations. Chlorate concentrations in groundwater collected from the remaining deep perimeter monitoring wells and underlying deep zone fluctuated but generally remained similar to the previous sampling events. Notable results from these monitoring wells include chlorate concentration reductions of 57 percent and 76 percent in groundwater samples collected from the underlying deep zone monitoring wells of U4-MW-01DD and U4-MW-03DD, respectively.
- Nitrate concentration reductions were also generally similar to perchlorate and chlorate. Nitrate concentrations were less than sample detection limits in four 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 37 percent to greater than 99 percent. Nitrate was not detected above the sample detection limit of 4.8 mg/L in groundwater samples collected from M-251-100, U4-MW-02D, and U4-MW-07D in June 2024. Nitrate concentration reductions in groundwater samples collected from three of the four deep perimeter monitoring wells (i.e., U4-MW-01D, U4-MW-03D, and U4-MW-04D) ranged from 47 percent to 95 percent when compared to March 2023 pre-ISB concentrations. Nitrate concentrations in groundwater collected from the underlying deep zone

- monitoring well M-252 were below the sample detection limit for the first time since the study began.
- Hexavalent concentrations were less than sample detection limits in groundwater samples collected from all five former injection/extraction wells. Additionally, results indicated hexavalent chromium concentration reductions ranging from 41 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 4.78 µg/L and 3.34 µg/L, respectively, and are the lowest concentrations observed since the study began. These results represent greater than 99 percent reduction when compared to pre-study baseline concentrations of 23,900 µg/L and 96,900 µg/L, respectively. Hexavalent chromium concentrations in groundwater samples collected from two of the four deep perimeter monitoring wells (i.e., U4-MW-01D and U4-MW-03D) were the lowest measured to date in groundwater at these locations, with an average reduction of 66 percent compared to pre-*ISB* March 2023 baseline concentrations. Results from groundwater collected from monitoring wells screened within the underlying deep zone indicated hexavalent chromium concentration reductions ranging from 59 percent to greater than 99 percent.
 - During the June 2024 sampling event, TOC concentrations in groundwater samples collected from the five former deep injection/extraction wells ranged from 4,670 mg/L to 9,800 mg/L, while TOC concentrations in the groundwater samples collected from three of the four Area 1 deep zone monitoring wells ranged from 151 mg/L to 3,220 mg/L. These concentrations are significantly elevated compared to baseline TOC concentrations of less than 2 mg/L and indicated continued widespread carbon substrate distribution in the Area 1 deep zone. Elevated TOC concentrations were also detected in groundwater samples collected from three perimeter monitoring wells (U4-MW-03D, U4-MW-04D, and U4-MW-06D), with concentrations ranging from 7.5 mg/L to 397 mg/L in June 2024.
 - Area 2 Intermediate – During the June 2024 sampling event performed approximately three 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 June 2024 sampling event are summarized below.
 - Approximately three months after ceasing carbon substrate injections, perchlorate concentrations increased compared to previous sampling events 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 0.03 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 ranging from less than 0.015 mg/L to 31 mg/L). Perchlorate concentrations in groundwater collected from the six intermediate perimeter monitoring wells fluctuated but generally remained similar to the previous March 2024 sampling event.

- Chlorate concentration trends were generally similar to perchlorate trends. Chlorate concentrations in groundwater collected from the six intermediate perimeter monitoring wells fluctuated but generally remained similar or increased compared to the previous March 2024 sampling event. However, notable chlorate concentration reductions that were sustained three months after ceasing carbon substrate injections include greater than 98 percent reductions in groundwater samples collected from three of the four former injection/extraction wells and greater than 99 percent reduction in groundwater samples collected from all four of the overlying shallow monitoring wells.
- Nitrate concentration reductions were generally greater than perchlorate and chlorate concentration reductions. Nitrate concentrations in groundwater samples collected from monitoring wells U4-MW-12I and U4-MW-13I and former injection/extraction wells U4-E-06I and U4-E-10I indicated concentrations below sample detection limits. Nitrate concentrations in groundwater samples collected in June 2024 from seven of the ten shallow and intermediate perimeter monitoring wells were significantly reduced compared to baseline concentrations, with samples collected from four locations (U4-MW-08S, U4-MW-09S, U4-MW-10I, and U4-MW-15S) measuring less than the sample detection limit of 4.8 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 98 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 0.150 µg/L to less than 4 µg/L. Hexavalent chromium concentrations in groundwater samples collected from the six intermediate perimeter monitoring wells fluctuated but generally remained similar to the previous March 2024 sampling event.
- During the June 2024 sampling event, TOC concentrations in groundwater samples collected from the four former intermediate injection/extraction wells ranged from 10.7 mg/L to 7,560 mg/L. These concentrations are significantly elevated compared to the average baseline TOC concentration of 1.25 mg/L. TOC concentrations in groundwater samples collected from intermediate monitoring wells within Area 2 ranged from 3.22 mg/L to 10.2 mg/L, which are slightly elevated above baseline concentrations. The highest TOC concentration measured within the Area 2 intermediate zone of 7,560 mg/L was detected in groundwater collected from former intermediate injection well U4-E-10I. TOC concentrations in groundwater samples collected from all ten intermediate and shallow perimeter monitoring wells were elevated above baseline concentrations and ranged from 3.55 mg/L to 76.1 mg/L.

- Area 2 Deep – During the June 2024 sampling event performed approximately three 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 June 2024 sampling event are summarized below.
 - When compared to baseline concentrations, perchlorate concentration reductions ranging from 19 percent to 65 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 94 percent to greater than 99 percent in groundwater samples collected from the four former injection/extraction wells that were sampled in June 2024. Lastly, perchlorate concentration reductions ranging from 57 percent to 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 58 percent and nitrate reductions averaging 84 percent. Significant chlorate and nitrate concentration reductions of greater than 90 percent were reported in groundwater samples collected from all four of the injection/extraction wells. Lastly, significant chlorate and/or nitrate concentration reductions were reported in groundwater samples collected from seven of the ten perimeter monitoring wells, with reductions ranging from 43 percent to greater than 99 percent when compared to baseline concentrations.
 - Hexavalent chromium concentrations were less than the sample detection limits in groundwater samples collected from all four former injection/extraction wells and concentration reductions ranging from 35 percent to 76 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 74 percent were also observed in groundwater samples collected from nine of the ten perimeter monitoring wells sampled in June 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 June 2024 sampling event, TOC concentrations in groundwater samples collected from the four former deep injection/extraction wells ranged from 71 mg/L to 8,390 mg/L. These concentrations are significantly elevated compared to the average baseline TOC concentration of 2.17 mg/L. 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) ranged from 2.3 mg/L to 47.7 mg/L. Lastly, elevated TOC concentrations ranging from 9.94 mg/L to 117 mg/L were also observed in groundwater samples collected from four of the ten perimeter wells sampled in June 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 is scheduled to be performed in September 2024 in accordance with the Work Plan Addendum.
- Health and Safety
 - There were no health and safety incidents related to Task M21 in August 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: _____

10/2/24

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.



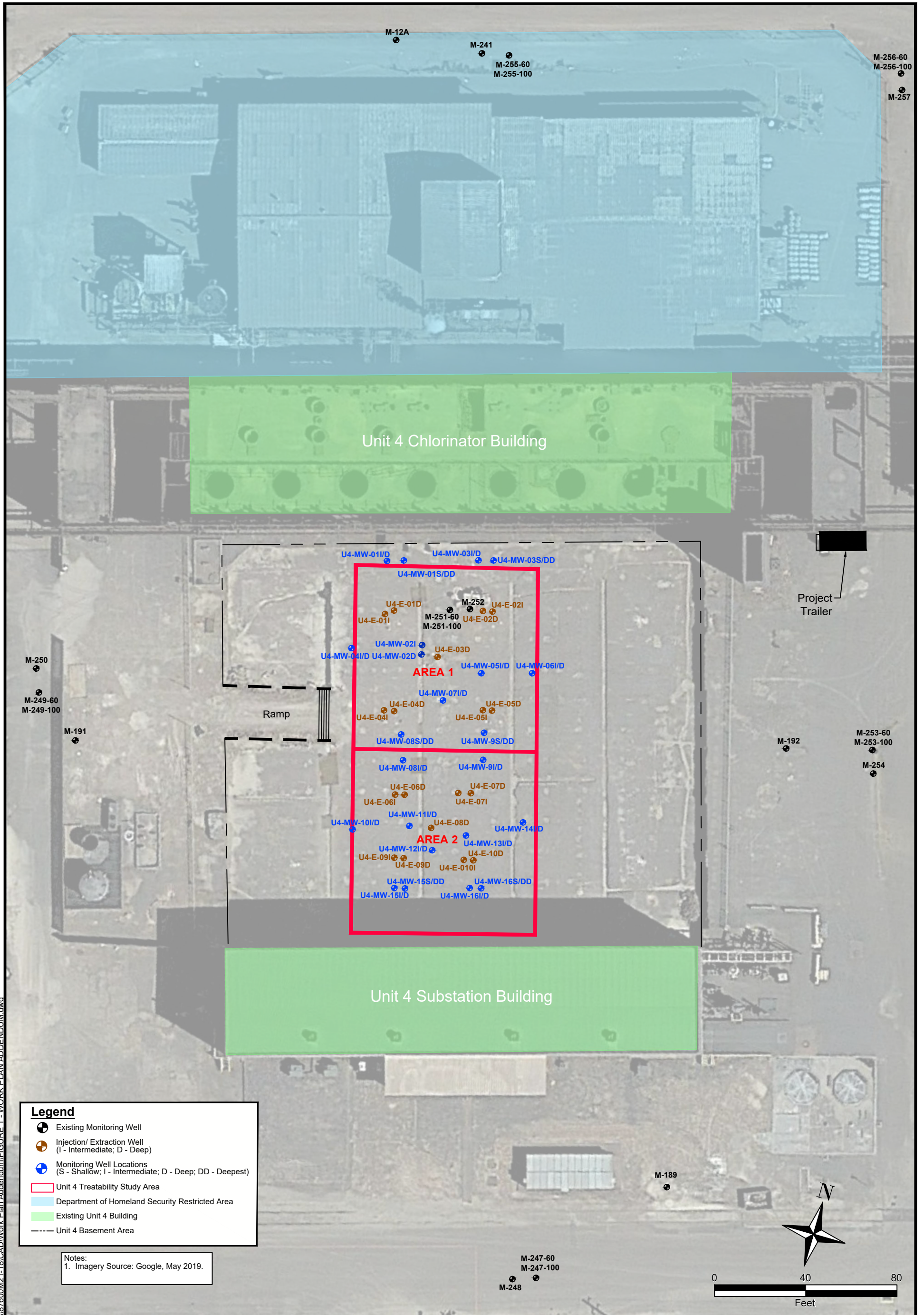
Christopher Hayes, CEM
Environmental Engineer
Tetra Tech, Inc.

October 2, 2024

Date

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

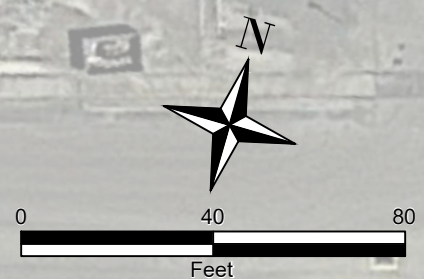
Figure



Legend

- Existing Monitoring Well
- ⊕ Injection/ Extraction Well (I - Intermediate, D - Deep)
- ⊕ Monitoring Well Locations (S - Shallow; I - Intermediate; D - Deep; DD - Deepest)
- ▭ Unit 4 Treatability Study Area
- ▭ Department of Homeland Security Restricted Area
- ▭ Existing Unit 4 Building
- Unit 4 Basement Area

Notes:
1. Imagery Source: Google, May 2019.



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

TETRA TECH

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\\its318fs3.tl.local\CES\Projects\87600\M21-18\CAD\Work Plan Addendum\FIGURE 1 - WORK PLAN ADDENDUM.dwg

Tables

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

Well ID	Screened Lithology	Northing	Easting	Ground Surface Elevation ¹	Top of Casing Elevation	Construction Type	Casing Material	Screen Material	Slot Size	Filter Pack Gradation	Borehole Diameter	Borehole Total Depth	Well Diameter	Nominal Screen Length	Well Total Depth	Bottom of Screen	Top of Screen
				feet amsl	feet amsl				inches		inches	feet bgs ¹	inches	feet	feet bgs ¹	feet bgs ¹	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.

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
						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
						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	----	----	----	----	----	----	----
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
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	----	----	----	----
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	----	----	----	----
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
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	----	----	----	----
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	----	----	----	----
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
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	----	----	----	----
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	----	----	----	----
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
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	----	----	----	----
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	----	----	----	----
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
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
M-251-60	4/18/2022	N	BL02	UMCf	52.3 - 62.3	27,900	316,000	<2,400	----	----	----	----	----	----	----
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
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
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
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
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
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
M-252	4/21/2022	N	BL02	UMCf	132.3 - 142.3	91,200	381,000	<2,400	----	----	----	----	----	----	----
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
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
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
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
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
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	----	----	----	----	----	----	----
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
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
U4-E-01I	4/19/2022	N	BL02	UMCf	74.6 - 89.6	219,000	1,670,000	<24,000	----	----	----	----	----	----	----
U4-E-01I	4/19/2022	FD	BL02	UMCf	74.6 - 89.6	253,000	2,010,000	<24,000	----	----	----	----	----	----	----
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

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
						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
						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	----	----	----	----	----	----	----
U4-E-01I	5/10/2023	N	EM09	UMCf	74.6 - 89.6	262,000	2,590,000	<24,000	----	----	----	----	----	----	----
U4-E-01I	6/12/2023	N	EM10	UMCf	74.6 - 89.6	466,000	4,230,000	<24000 UJ	----	----	----	----	----	----	----
U4-E-01I	7/11/2023	N	EM11	UMCf	74.6 - 89.6	138,000	912,000	131,000	----	----	----	----	----	----	----
U4-E-01I	8/10/2023	N	EM12	UMCf	74.6 - 89.6	66,000	457,000	<24,000	----	----	----	----	----	----	----
U4-E-01I	9/11/2023	N	EM13	UMCf	74.6 - 89.6	24,800	197,000	500,000	----	----	----	----	----	----	----
U4-E-01I	10/16/2023	N	EM14	UMCf	74.6 - 89.6	54,700	497,000	103,000	----	----	----	----	----	----	----
U4-E-01I	12/13/2023	N	EM16	UMCf	74.6 - 89.6	24,800	1,100	239,000 J-	----	----	----	----	----	----	----
U4-E-01I	1/24/2024	N	EM17	UMCf	74.6 - 89.6	1,220	<24,000	324,000	----	----	----	----	----	----	----
U4-E-01I	2/14/2024	N	EM18	UMCf	74.6 - 89.6	<0.300	54,800	350,000	----	----	----	----	----	----	----
U4-E-01I	3/12/2024	N	EM19	UMCf	74.6 - 89.6	<30.0	58,200	529,000	----	----	----	----	----	----	----
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
U4-E-02D	4/20/2022	N	BL02	UMCf	94.4 - 109.4	1,040,000	5,060,000	<24,000	----	----	----	----	----	----	----
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
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
U4-E-02I	4/18/2022	N	BL02	UMCf	74.4 - 89.4	428,000	2,390,000	<24000 R	----	----	----	----	----	----	----
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
U4-E-02I	4/20/2023	N	EM08	UMCf	74.4 - 89.4	274,000	1,140,000	<24,000	----	----	----	----	----	----	----
U4-E-02I	5/11/2023	N	EM09	UMCf	74.4 - 89.4	309,000	1,190,000	<24,000	----	----	----	----	----	----	----
U4-E-02I	6/12/2023	N	EM10	UMCf	74.4 - 89.4	194,000	913,000	64,100 J-	----	----	----	----	----	----	----
U4-E-02I	7/11/2023	N	EM11	UMCf	74.4 - 89.4	193,000	859,000	39,200 J	----	----	----	----	----	----	----
U4-E-02I	8/10/2023	N	EM12	UMCf	74.4 - 89.4	133,000	572,000	80,300	----	----	----	----	----	----	----
U4-E-02I	9/11/2023	N	EM13	UMCf	74.4 - 89.4	111,000	508,000	999,000	----	----	----	----	----	----	----
U4-E-02I	10/16/2023	N	EM14	UMCf	74.4 - 89.4	63,400	237,000	149,000	----	----	----	----	----	----	----
U4-E-02I	12/14/2023	N	EM16	UMCf	74.4 - 89.4	21,600	89,400	494,000 J-	----	----	----	----	----	----	----
U4-E-02I	1/22/2024	N	EM17	UMCf	74.4 - 89.4	25,800	61,800	711,000 J-	----	----	----	----	----	----	----
U4-E-02I	2/13/2024	N	EM18	UMCf	74.4 - 89.4	33,200	94,000	936,000	----	----	----	----	----	----	----
U4-E-02I	3/13/2024	N	EM19	UMCf	74.4 - 89.4	2,020	55,600	627,000	----	----	----	----	----	----	----
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
U4-E-03D	4/19/2022	N	BL02	UMCf	95.1 - 110.1	2,170,000	16,600,000	<24,000	----	----	----	----	----	----	----
U4-E-03D	10/13/2022	N	EM02	UMCf	95.1 - 110.1	1,320,000	8,100,000	<240,000	----	----	----	----	----	----	----
U4-E-03D	11/3/2022	N	EM03	UMCf	95.1 - 110.1	1,090,000	7,560,000	<240,000	----	----	----	----	----	----	----
U4-E-03D	12/6/2022	N	EM04	UMCf	95.1 - 110.1	1,110,000 J+	6,630,000	<240000 UJ	----	----	----	----	----	----	----
U4-E-03D	1/9/2023	N	EM05	UMCf	95.1 - 110.1	937,000	6,670,000	<240,000	----	----	----	----	----	----	----
U4-E-03D	2/13/2023	N	EM06	UMCf	95.1 - 110.1	948,000	6,890,000	<24,000	----	----	----	----	----	----	----
U4-E-03D	3/13/2023	N	EM07	UMCf	95.1 - 110.1	654,000 J-	6,260,000	<24,000	----	----	----	----	----	----	----
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
U4-E-03D	4/19/2023	N	EM08	UMCf	95.1 - 110.1	948,000	6,990,000	<24,000	----	----	----	----	----	----	----
U4-E-03D	5/11/2023	N	EM09	UMCf	95.1 - 110.1	797,000	5,450,000	27,000 J	----	----	----	----	----	----	----
U4-E-03D	6/12/2023	N	EM10	UMCf	95.1 - 110.1	835,000	5,650,000	<240000 UJ	----	----	----	----	----	----	----
U4-E-03D	7/11/2023	N	EM11	UMCf	95.1 - 110.1	963,000	6,280,000	<240,000	----	----	----	----	----	----	----
U4-E-03D	8/10/2023	N	EM12	UMCf	95.1 - 110.1	934,000	6,410,000	<240,000	----	----	----	----	----	----	----
U4-E-03D	9/11/2023	N	EM13	UMCf	95.1 - 110.1	1,030,000	7,790,000	<24,000	----	----	----	----	----	----	----

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
						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
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-E-03D	10/16/2023	N	EM14	UMCf	95.1 - 110.1	1,100,000	7,760,000	<24,000	----	----	----	----	----	----	----
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
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
U4-E-04D	4/19/2022	N	BL02	UMCf	95.0 - 110.0	1,270,000	12,100,000	<24,000	----	----	----	----	----	----	----
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
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
U4-E-04I	4/18/2022	N	BL02	UMCf	75.0 - 90.0	47,900	793,000	<2,400	----	----	----	----	----	----	----
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
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
U4-E-05D	4/19/2022	N	BL02	UMCf	95.0 - 110.0	1,900,000	11,600,000	<240,000	----	----	----	----	----	----	----
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
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
U4-E-05I	4/19/2022	N	BL02	UMCf	75.0 - 90.0	164,000	993,000	<24,000	----	----	----	----	----	----	----
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
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
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
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
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
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
U4-E-06I	10/12/2022	N	EM02	UMCf	73.2 - 88.2	367,000	4,900,000	<240,000	----	----	----	----	----	----	----
U4-E-06I	11/3/2022	N	EM03	UMCf	73.2 - 88.2	243,000	3,180,000	<240,000	----	----	----	----	----	----	----
U4-E-06I	12/6/2022	N	EM04	UMCf	73.2 - 88.2	133,000 J+	1,860,000	25,700 J	----	----	----	----	----	----	----
U4-E-06I	1/9/2023	N	EM05	UMCf	73.2 - 88.2	346,000	5,170,000 J-	<240,000	----	----	----	----	----	----	----
U4-E-06I	2/13/2023	N	EM06	UMCf	73.2 - 88.2	313,000	4,250,000	<24,000	----	----	----	----	----	----	----
U4-E-06I	3/13/2023	N	EM07	UMCf	73.2 - 88.2	145,000	1,550,000	63,600	----	----	----	----	----	----	----
U4-E-06I	4/17/2023	N	EM08	UMCf	73.2 - 88.2	163,000	2,300,000	<24,000	----	----	----	----	----	----	----
U4-E-06I	5/15/2023	N	EM09	UMCf	73.2 - 88.2	490,000	7,840,000	<24,000	----	----	----	----	----	----	----
U4-E-06I	6/12/2023	N	EM10	UMCf	73.2 - 88.2	431,000	5,570,000	<240000 UJ	----	----	----	----	----	----	----
U4-E-06I	7/11/2023	N	EM11	UMCf	73.2 - 88.2	440,000	6,040,000	<240,000	----	----	----	----	----	----	----
U4-E-06I	8/11/2023	N	EM12	UMCf	73.2 - 88.2	461,000	6,900,000	<24,000	----	----	----	----	----	----	----
U4-E-06I	9/11/2023	N	EM13	UMCf	73.2 - 88.2	171,000	2,810,000	31,700 J	----	----	----	----	----	----	----
U4-E-06I	10/16/2023	N	EM14	UMCf	73.2 - 88.2	119,000	2,010,000	<24,000	----	----	----	----	----	----	----
U4-E-06I	12/13/2023	N	EM16	UMCf	73.2 - 88.2	179,000	1,510,000	76,700	----	----	----	----	----	----	----
U4-E-06I	1/22/2024	N	EM17	UMCf	73.2 - 88.2	198,000	895,000	53,200	----	----	----	----	----	----	----
U4-E-06I	2/13/2024	N	EM18	UMCf	73.2 - 88.2	219,000	305,000	<24,000	----	----	----	----	----	----	----
U4-E-06I	3/11/2024	N	EM19	UMCf	73.2 - 88.2	95,400	12,700	<120	----	----	----	----	----	----	----
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
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	----	----	----
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
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	----	----	----
U4-E-07I	10/11/2022	N	EM02	UMCf	74.7 - 89.7	948,000	7,420,000	<240,000	----	----	----	----	----	----	----
U4-E-07I	11/3/2022	N	EM03	UMCf	74.7 - 89.7	877,000	6,410,000	<240,000	----	----	----	----	----	----	----
U4-E-07I	12/6/2022	N	EM04	UMCf	74.7 - 89.7	891,000	6,320,000	<240000 UJ	----	----	----	----	----	----	----

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
						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
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-E-07I	1/9/2023	N	EM05	UMCf	74.7 - 89.7	855,000	7,100,000	531,000	----	----	----	----	----	----	----
U4-E-07I	2/13/2023	N	EM06	UMCf	74.7 - 89.7	858,000	7,680,000	<24,000	----	----	----	----	----	----	----
U4-E-07I	3/13/2023	N	EM07	UMCf	74.7 - 89.7	768,000 J-	7,090,000	<24,000	----	----	----	----	----	----	----
U4-E-07I	4/19/2023	N	EM08	UMCf	74.7 - 89.7	738,000	6,690,000	<24,000	----	----	----	----	----	----	----
U4-E-07I	5/15/2023	N	EM09	UMCf	74.7 - 89.7	561,000	5,320,000	<24,000	----	----	----	----	----	----	----
U4-E-07I	6/12/2023	N	EM10	UMCf	74.7 - 89.7	618,000	5,540,000	<24000 UJ	----	----	----	----	----	----	----
U4-E-07I	7/11/2023	N	EM11	UMCf	74.7 - 89.7	667,000	6,050,000	<24,000	----	----	----	----	----	----	----
U4-E-07I	8/11/2023	N	EM12	UMCf	74.7 - 89.7	672,000	5,870,000	<24,000	----	----	----	----	----	----	----
U4-E-07I	9/11/2023	N	EM13	UMCf	74.7 - 89.7	689,000	7,300,000	<24,000	----	----	----	----	----	----	----
U4-E-07I	10/16/2023	N	EM14	UMCf	74.7 - 89.7	687,000	7,380,000	<24,000	----	----	----	----	----	----	----
U4-E-07I	12/13/2023	N	EM16	UMCf	74.7 - 89.7	747,000	8,270,000	<24,000	----	----	----	----	----	----	----
U4-E-07I	1/23/2024	N	EM17	UMCf	74.7 - 89.7	920,000	7,010,000	<120,000	----	----	----	----	----	----	----
U4-E-07I	2/13/2024	N	EM18	UMCf	74.7 - 89.7	975,000	7,090,000	<120,000	----	----	----	----	----	----	----
U4-E-07I	3/11/2024	N	EM19	UMCf	74.7 - 89.7	801,000	7,890,000	<24,000	----	----	----	----	----	----	----
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
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	----	----	----
U4-E-08D	10/11/2022	N	EM02	UMCf	94.6 - 109.6	1,330,000	12,000,000	<240,000	----	----	----	----	----	----	----
U4-E-08D	11/3/2022	N	EM03	UMCf	94.6 - 109.6	1,200,000	15,000,000	<240,000	----	----	----	----	----	----	----
U4-E-08D	12/6/2022	N	EM04	UMCf	94.6 - 109.6	1,110,000 J+	9,590,000	<240000 UJ	----	----	----	----	----	----	----
U4-E-08D	1/9/2023	N	EM05	UMCf	94.6 - 109.6	1,140,000	10,900,000	<240,000	----	----	----	----	----	----	----
U4-E-08D	2/13/2023	N	EM06	UMCf	94.6 - 109.6	1,070,000	9,600,000	<240,000	----	----	----	----	----	----	----
U4-E-08D	3/13/2023	N	EM07	UMCf	94.6 - 109.6	1,130,000	8,690,000	<240,000	----	----	----	----	----	----	----
U4-E-08D	4/19/2023	N	EM08	UMCf	94.6 - 109.6	930,000	779,000	<24,000	----	----	----	----	----	----	----
U4-E-08D	5/17/2023	N	EM09	UMCf	94.6 - 109.6	910,000	8,830,000	<24,000	----	----	----	----	----	----	----
U4-E-08D	6/12/2023	N	EM10	UMCf	94.6 - 109.6	859,000	7,060,000	<240000 UJ	----	----	----	----	----	----	----
U4-E-08D	7/11/2023	N	EM11	UMCf	94.6 - 109.6	921,000	8,980,000	<24,000	----	----	----	----	----	----	----
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
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
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
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
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
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
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
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
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
U4-MW-01D	4/19/2022	N	BL02	UMCf	96.7 - 106.7	708,000	5,180,000	<24,000	----	----	----	----	----	----	----
U4-MW-01D	2/16/2023	N	EM06	UMCf	96.7 - 106.7	647,000	6,010,000	----	----	----	----	----	----	----	----
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
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
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
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
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
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

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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
						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
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-01DD	4/19/2022	N	BL02	UMCf	119.9 - 129.9	29,800	217,000	<2,400	----	----	----	----	----	----	----
U4-MW-01DD	4/19/2022	FD	BL02	UMCf	119.9 - 129.9	28,500	202,000	<2,400	----	----	----	----	----	----	----
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
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
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
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
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
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
U4-MW-01I	4/19/2022	N	BL02	UMCf	76.7 - 86.7	410,000	3,510,000	<24,000	----	----	----	----	----	----	----
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
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
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
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
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
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
U4-MW-01S	4/18/2022	N	BL02	UMCf	54.7 - 64.7	37,300	312,000	<2,400	----	----	----	----	----	----	----
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
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
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
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
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
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
U4-MW-02D	4/14/2022	N	BL02	UMCf	95.0 - 110.0	2,850,000	24,800,000	<240,000	----	----	----	----	----	----	----
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
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	----	----	----	----
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	----	----	----	----
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
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	----	----	----	----
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	----	----	----	----
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
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	----	----	----	----
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	----	----	----	----
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
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+	----	----	----	----
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	----	----	----	----
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
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
U4-MW-02I	4/14/2022	N	BL02	UMCf	75.0 - 90.0	291,000	2,420,000	<24,000	----	----	----	----	----	----	----

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
						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
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
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
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
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	----	----	----	----
U4-MW-02I	4/20/2023	FD	EM08	UMCf	75.0 - 90.0	32,200	212,000	<2,400	<117	1,560	<33.3	----	----	----	----
U4-MW-02I	5/9/2023	N	EM09	UMCf	75.0 - 90.0	35,000	187,000	37,600	<117	894	38.4 J	----	----	----	----
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	----	----	----	----
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
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
U4-MW-02I	7/18/2023	N	EM11	UMCf	75.0 - 90.0	158	<120	33,900 J-	<117	1,400	<33.3 UJ	----	----	----	----
U4-MW-02I	7/18/2023	FD	EM11	UMCf	75.0 - 90.0	159	<240	37,300 J-	<117	1,400	35.4 J	----	----	----	----
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	----	----	----	----
U4-MW-02I	8/11/2023	FD	EM12	UMCf	75.0 - 90.0	429,000	3,120,000	<24,000	<117	<700	<33.3	----	----	----	----
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
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
U4-MW-02I	10/19/2023	N	EM14	UMCf	75.0 - 90.0	678,000	5,630,000	<24,000	<117	<700	<33.3	----	----	----	----
U4-MW-02I	10/19/2023	FD	EM14	UMCf	75.0 - 90.0	692,000	5,640,000	<24,000	<117	<700	<33.3	----	----	----	----
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	----	----	----	----
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	----	----	----	----
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
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
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	----	----	----	----
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	----	----	----	----
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	----	----	----	----
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	----	----	----	----
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
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
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
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
U4-MW-03D	4/20/2022	N	BL02	UMCf	96.6 - 106.6	1,430,000	9,200,000	<240,000	----	----	----	----	----	----	----
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
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
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
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

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
						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
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
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
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
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
U4-MW-03DD	4/20/2022	N	BL02	UMCf	119.7 - 129.7	152,000	735,000	<2,400	----	----	----	----	----	----	----
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
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
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
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
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
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
U4-MW-03I	4/19/2022	N	BL02	UMCf	76.6 - 86.6	207,000	1,200,000	<24,000	----	----	----	----	----	----	----
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
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
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
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
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
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
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
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
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
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
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
U4-MW-03S	4/18/2022	N	BL02	UMCf	54.5 - 64.5	26,500	262,000	<2,400	----	----	----	----	----	----	----
U4-MW-03S	4/18/2022	FD	BL02	UMCf	54.5 - 64.5	26,200	264,000	<2,400	----	----	----	----	----	----	----
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
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
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
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
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
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
U4-MW-04D	4/19/2022	N	BL02	UMCf	97.0 - 107.0	3,270,000	26,400,000	<240,000	----	----	----	----	----	----	----
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
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
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
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
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
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
U4-MW-04I	4/19/2022	N	BL02	UMCf	76.8 - 86.8	1,100,000	10,700,000	<24,000	----	----	----	----	----	----	----
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
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
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
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

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
						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
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
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
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
U4-MW-05D	4/15/2022	N	BL02	UMCf	98.2 - 108.2	2,240,000	13,600,000	<240,000	----	----	----	----	----	----	----
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
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	----	----	----	----
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	----	----	----	----
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
U4-MW-05D	7/18/2023	N	EM11	UMCf	98.2 - 108.2	683,000	2,170,000	<24,000	<117	<140	<33.3	----	----	----	----
U4-MW-05D	8/14/2023	N	EM12	UMCf	98.2 - 108.2	940,000	3,610,000	<24,000	<117	<560	<33.3	----	----	----	----
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
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	----	----	----	----
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	----	----	----	----
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
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	----	----	----	----
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	----	----	----	----
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
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
U4-MW-05I	4/15/2022	N	BL02	UMCf	76.6 - 86.6	1,220,000	8,940,000	<24,000	----	----	----	----	----	----	----
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
U4-MW-05I	4/21/2023	N	EM08	UMCf	76.6 - 86.6	174,000	434,000	41,400	<117	<140	<33.3	----	----	----	----
U4-MW-05I	5/10/2023	N	EM09	UMCf	76.6 - 86.6	73,900	104,000	204,000	<117	<140	54.4 J	----	----	----	----
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
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	----	----	----	----
U4-MW-05I	8/14/2023	N	EM12	UMCf	76.6 - 86.6	488,000	1,210,000	<24,000	<117	<140	100 J	----	----	----	----
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
U4-MW-05I	10/18/2023	N	EM14	UMCf	76.6 - 86.6	431,000	1,020,000	<24,000	<117	<140	2,680	----	----	----	----
U4-MW-05I	11/15/2023	N	EM15	UMCf	76.6 - 86.6	415,000 J-	860,000	<12000 UJ	<117	<140	<33.3	----	----	----	----
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
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	----	----	----	----
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	----	----	----	----
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
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
U4-MW-06D	4/19/2022	N	BL02	UMCf	97.1 - 107.1	4,270,000	17,900,000	<240,000	----	----	----	----	----	----	----

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
						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
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
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
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
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
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
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
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
U4-MW-06I	4/19/2022	N	BL02	UMCf	76.5 - 86.5	201,000	801,000	<24,000	----	----	----	----	----	----	----
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
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
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
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
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
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
U4-MW-07D	4/15/2022	N	BL02	UMCf	96.8 - 106.5	471,000	5,210,000	<24,000	----	----	----	----	----	----	----
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
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	----	----	----	----
U4-MW-07D	5/11/2023	N	EM09	UMCf	96.8 - 106.5	41,700	111,000	179,000	<117	1,570	<33.3	----	----	----	----
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
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	----	----	----	----
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	----	----	----	----
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
U4-MW-07D	10/18/2023	N	EM14	UMCf	96.8 - 106.5	481,000	4,580,000	75,100	<117	<700	<33.3	----	----	----	----
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	----	----	----	----
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
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	----	----	----	----
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+	----	----	----	----
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
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
U4-MW-07I	4/15/2022	N	BL02	UMCf	76.8 - 86.8	140,000	1,150,000	<24,000	----	----	----	----	----	----	----
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	----	----	----	----	----	----	----	----
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
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	----	----	----	----

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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
						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
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-07I	5/11/2023	N	EM09	UMCf	76.8 - 86.8	1,810	1,130	80,000	<117	831	48.0 J	----	----	----	----
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
U4-MW-07I	7/17/2023	N	EM11	UMCf	76.8 - 86.8	391,000	2,940,000	<24,000	<117	<140	<33.3	----	----	----	----
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	----	----	----	----
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
U4-MW-07I	10/18/2023	N	EM14	UMCf	76.8 - 86.8	213,000	1,170,000	205,000	<117	<140	<33.3	----	----	----	----
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	----	----	----	----
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
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	----	----	----	----
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	----	----	----	----
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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	----	----	----	----
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
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
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
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
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
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
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
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
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
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
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

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
						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
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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	----	----	----	----
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
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
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
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
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
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
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
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

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						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
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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-	----	----	----	----
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	----	----	----	----
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	----	----	----	----
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
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	----	----	----	----
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	----	----	----	----
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
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	----	----	----	----
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	----	----	----	----
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
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	----	----	----	----
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	----	----	----	----
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
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+	----	----	----	----
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	----	----	----	----
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
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+	----	----	----	----
U4-MW-11D	2/14/2024	N	EM18	UMCf	97.4 - 107.4	898,000	9,900,000	<240,000	<117	<560	201 J	----	----	----	----
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
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
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
U4-MW-11I	9/26/2022	N	EM01	UMCf	77.0 - 87.0	33,000	266,000	54,400	<117	968	739 J	----	----	----	----
U4-MW-11I	9/26/2022	FD	EM01	UMCf	77.0 - 87.0	34,400	265,000	53,300	<117	792	35.9 J	----	----	----	----
U4-MW-11I	10/10/2022	N	EM02	UMCf	77.0 - 87.0	530	<2,400	66,800	<117	970 J	<33.3 UJ	----	----	----	----
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	----	----	----	----

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
						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
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
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	----	----	----	----
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	----	----	----	----
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
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
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	----	----	----	----
U4-MW-11I	1/12/2023	FD	EM05	UMCf	77.0 - 87.0	389	2,220	<24.0	120 J	1,050	<33.3	----	----	----	----
U4-MW-11I	2/14/2023	N	EM06	UMCf	77.0 - 87.0	213,000	3,030,000	<24,000	572	<140	<33.3	----	----	----	----
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	----	----	----	----
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
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
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	----	----	----	----
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	----	----	----	----
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	----	----	----	----
U4-MW-11I	5/19/2023	FD	EM09	UMCf	77.0 - 87.0	478	3,070 J	<24.0	<117	1,150	<33.3	----	----	----	----
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
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
U4-MW-11I	7/13/2023	N	EM11	UMCf	77.0 - 87.0	1,340	9,920	<240	<117	1,530	96.7 J	----	----	----	----
U4-MW-11I	7/13/2023	FD	EM11	UMCf	77.0 - 87.0	1,310	10,700	<240	<117	1,520	133	----	----	----	----
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	----	----	----	----
U4-MW-11I	8/14/2023	FD	EM12	UMCf	77.0 - 87.0	342,000	3,390,000	<24,000	<117	<140	<33.3	----	----	----	----
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
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
U4-MW-11I	10/19/2023	N	EM14	UMCf	77.0 - 87.0	597,000	9,720,000	<24,000	<117	<280	<33.3	----	----	----	----
U4-MW-11I	10/19/2023	FD	EM14	UMCf	77.0 - 87.0	616,000	9,710,000	<24,000	<117	<560	<33.3	----	----	----	----
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	----	----	----	----
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	----	----	----	----
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
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
U4-MW-11I	1/25/2024	N	EM17	UMCf	77.0 - 87.0	541,000	7,780,000	<24,000	<117	<700	101 J+	----	----	----	----
U4-MW-11I	1/25/2024	FD	EM17	UMCf	77.0 - 87.0	541,000	7,700,000	<24,000	<117	<700	103 J+	----	----	----	----
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	----	----	----	----
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	----	----	----	----
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
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
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
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
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
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-	----	----	----	----
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	----	----	----	----
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	----	----	----	----
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
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	----	----	----	----
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	----	----	----	----

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
						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
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
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
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	----	----	----	----
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	----	----	----	----
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
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	----	----	----	----
U4-MW-12D	8/14/2023	N	EM12	UMCf	97.1 - 107.1	357,000	4,010,000	<24,000	<117	<280	<33.3	----	----	----	----
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
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	----	----	----	----
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	----	----	----	----
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
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	----	----	----	----
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	----	----	----	----
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
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
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
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
U4-MW-12I	9/27/2022	N	EM01	UMCf	76.8 - 86.8	51,500	535,000	<2,400	<117	<140	271 J-	----	----	----	----
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	----	----	----	----
U4-MW-12I	11/2/2022	N	EM03	UMCf	76.8 - 86.8	28,800	170,000	<2400 UJ	<117	<140 UJ	<33.3	----	----	----	----
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	----	----	----	----
U4-MW-12I	2/15/2023	N	EM06	UMCf	76.8 - 86.8	1,720 J+	16,900	46,000	<117	878	<33.3	----	----	----	----
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
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	----	----	----	----
U4-MW-12I	5/17/2023	N	EM09	UMCf	76.8 - 86.8	36,700	<240	<240 UJ	<117	1,050	98.7 J	----	----	----	----
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
U4-MW-12I	7/11/2023	N	EM11	UMCf	76.8 - 86.8	469	3,660	<240	<117	1,470 J-	50.4 J	----	----	----	----
U4-MW-12I	8/14/2023	N	EM12	UMCf	76.8 - 86.8	238,000	2,110,000	<24,000	<117	<140	<33.3	----	----	----	----
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
U4-MW-12I	10/17/2023	N	EM14	UMCf	76.8 - 86.8	321	1,700	<240	195 J	1,530	<33.3 UJ	----	----	----	----
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	----	----	----	----
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
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	----	----	----	----
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	----	----	----	----
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
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
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
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	----	----	----	----
U4-MW-13D	10/11/2022	N	EM02	UMCf	98.2 - 108.2	413,000	4,100,000	<120,000	<117	<560	<33.3	----	----	----	----
U4-MW-13D	11/3/2022	N	EM03	UMCf	98.2 - 108.2	433,000	4,080,000	<240,000	<117	<280	<33.3	----	----	----	----
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
U4-MW-13D	1/12/2023	N	EM05	UMCf	98.2 - 108.2	383,000	3,950,000	<240,000	<117	<280	<33.3	----	----	----	----

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
						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
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
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	----	----	----	----
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
U4-MW-13D	4/18/2023	N	EM08	UMCf	98.2 - 108.2	224,000	1,910,000	<24,000	<117	<140	<33.3	----	----	----	----
U4-MW-13D	5/17/2023	N	EM09	UMCf	98.2 - 108.2	207,000	1,660,000	<24,000	<117	<140	<33.3	----	----	----	----
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
U4-MW-13D	7/12/2023	N	EM11	UMCf	98.2 - 108.2	224,000	1,770,000	<24,000	<117	<140	<33.3	----	----	----	----
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	----	----	----	----
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
U4-MW-13D	10/18/2023	N	EM14	UMCf	98.2 - 108.2	314,000	3,130,000	<24,000	<117	<700	<33.3	----	----	----	----
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	----	----	----	----
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
U4-MW-13D	1/23/2024	N	EM17	UMCf	98.2 - 108.2	365,000	3,270,000	<120,000	<117	<560	<33.3	----	----	----	----
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	----	----	----	----
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
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
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
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	----	----	----	----
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	----	----	----	----
U4-MW-13I	11/3/2022	N	EM03	UMCf	77.1 - 87.1	149,000	830,000	<24,000	<117	<140	<33.3	----	----	----	----
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
U4-MW-13I	1/12/2023	N	EM05	UMCf	77.1 - 87.1	59,400	261,000	<24,000	<117	<140	75.6 J	----	----	----	----
U4-MW-13I	2/14/2023	N	EM06	UMCf	77.1 - 87.1	117,000	790,000	<24,000	183 J	<140	<33.3	----	----	----	----
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
U4-MW-13I	4/19/2023	N	EM08	UMCf	77.1 - 87.1	1,350	4,660	<240	<117	848	54.7 J	----	----	----	----
U4-MW-13I	5/17/2023	N	EM09	UMCf	77.1 - 87.1	5,630	52,900	<240	582	1,360	122 J+	----	----	----	----
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
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	----	----	----	----
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	----	----	----	----
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
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	----	----	----	----
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	----	----	----	----
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
U4-MW-13I	1/23/2024	N	EM17	UMCf	77.1 - 87.1	712,000	5,050,000	<24,000	<585	<140	<33.3	----	----	----	----
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	----	----	----	----
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
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
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
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
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
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
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
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
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

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
						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
						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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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	----	----	----
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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

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 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
						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
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
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
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
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
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
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
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
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
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	----	----	----
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
U4-MW-16S	4/12/2022	N	BL02	UMCf	54.8 - 64.8	9,400	64,100	<240	<117	<140	<33.3	64,800	----	----	----
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	----	----	----
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
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
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
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
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
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
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
U4-SLMW	11/10/2022	N	EM03		-	<0.300	4,220 J-	<240	<117	325	46.9 J	----	----	----	----
U4-T3	10/13/2022	N	EM02		-	928,000	7,380,000	<240,000	----	----	----	----	----	----	----
U4-T3	11/3/2022	N	EM03		-	887,000	7,450,000	<240,000	----	----	----	----	----	----	----
U4-T3	12/6/2022	N	EM04		-	766,000	5,280,000	<240000 UJ	----	----	----	----	----	----	----

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
						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
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-T3	1/9/2023	N	EM05		-	886,000	7,910,000	<240,000	----	----	----	----	----	----	----
U4-T3	2/13/2023	N	EM06		-	877,000	7,800,000	<24,000	----	----	----	----	----	----	----
U4-T3	3/13/2023	N	EM07		-	815,000	7,400,000	<24,000	----	----	----	----	----	----	----
U4-T3	4/19/2023	N	EM08		-	406,000	2,880,000	<24,000	----	----	----	----	----	----	----
U4-T3	5/18/2023	N	EM09		-	498,000	4,200,000	<24,000	----	----	----	----	----	----	----
U4-T3	6/12/2023	N	EM10		-	488,000	3,720,000	<240000 UJ	----	----	----	----	----	----	----
U4-T3	7/11/2023	N	EM11		-	451,000	3,990,000	<24,000	----	----	----	----	----	----	----
U4-T3	8/10/2023	N	EM12		-	252,000	2,110,000	30,400 J	----	----	----	----	----	----	----
U4-T3	9/11/2023	N	EM13		-	217,000	1,990,000	54,900 J+	----	----	----	----	----	----	----
U4-T3	10/16/2023	N	EM14		-	149,000	1,090,000	29,300 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 sample quantitation limit.
- 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.

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	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
						Chloride	Nitrate (as N)	Sulfate	Aluminum	Antimony	Arsenic	Barium	Beryllium
						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	5,360,000	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	1,480,000 J+	15,000 J-	388,000 J	<56.1	<5.15	12.4	75.8	<0.330
M-251-100	4/21/2023	N	EM08	UMCf	92.5 - 102.5	2,250,000	23,000	503,000	----	----	----	----	----
M-251-100	5/9/2023	N	EM09	UMCf	92.5 - 102.5	2,290,000	23,200	513,000	----	----	----	----	----
M-251-100	6/14/2023	N	EM10	UMCf	92.5 - 102.5	2,120,000	24,500 J-	469,000 J	143 J	<5.15	9.84 J	117	<0.330
M-251-100	7/14/2023	N	EM11	UMCf	92.5 - 102.5	2,390,000	23,800	519,000	----	----	----	----	----
M-251-100	8/10/2023	N	EM12	UMCf	92.5 - 102.5	1,870,000	16,200 J+	361,000 J	----	----	----	----	----
M-251-100	9/14/2023	N	EM13	UMCf	92.5 - 102.5	2,410,000	26,800 J+	454,000 J	<56.1	<5.15	6.38 J	119	<0.330
M-251-100	10/19/2023	N	EM14	UMCf	92.5 - 102.5	2,490,000	3,340	465,000	----	----	----	----	----
M-251-100	11/16/2023	N	EM15	UMCf	92.5 - 102.5	2,230,000	20,800	390,000 J	----	----	----	----	----
M-251-100	12/12/2023	N	EM16	UMCf	92.5 - 102.5	2,450,000	20,100 J+	465,000 J	85.4 J	<10.3	7.09 J	155	<0.330
M-251-100	1/25/2024	N	EM17	UMCf	92.5 - 102.5	2,490,000	23,500	465,000 J	----	----	----	----	----
M-251-100	2/13/2024	N	EM18	UMCf	92.5 - 102.5	1,490,000	<4,800	365,000 J	----	----	----	----	----
M-251-100	3/11/2024	N	EM19	UMCf	92.5 - 102.5	1,470,000	<4800 UJ	365,000 J	3,070	<5.15	16.0	273	0.414 J
M-251-100	6/17/2024	N	EM20	UMCf	92.5 - 102.5	2,430,000	<4,800	514,000	1,840	<10.3	16.7 J	362	0.477 J
M-251-60	4/18/2022	N	BL02	UMCf	52.3 - 62.3	234,000	2,360	1,220,000	----	----	----	----	----
M-251-60	3/15/2023	N	EM07	UMCf	52.3 - 62.3	240,000	4,430	1,130,000	138 J	2.99 J	49.8	28.8	<0.330
M-251-60	6/14/2023	N	EM10	UMCf	52.3 - 62.3	246,000	3,720 J	1,150,000	105 J	1.82 J	60.3	7.04	<0.330
M-251-60	9/14/2023	N	EM13	UMCf	52.3 - 62.3	281,000	6,040	1,150,000	60.6 J	2.01 J	47.6	20.1	<0.330
M-251-60	12/11/2023	N	EM16	UMCf	52.3 - 62.3	293,000	3,180 J	1,020,000	172 J	1.91 J	49.1	15.2	<0.330
M-251-60	3/12/2024	N	EM19	UMCf	52.3 - 62.3	339,000	<48.0	589,000	<56.1	2.11 J	93.8	10.8	<0.330
M-251-60	6/19/2024	N	EM20	UMCf	52.3 - 62.3	324,000	630 J	122,000	151 J	1.87 J	64.6	3.85 J	<0.330
M-252	4/21/2022	N	BL02	UMCf	132.3 - 142.3	259,000	2,440	180,000	----	----	----	----	----
M-252	3/15/2023	N	EM07	UMCf	132.3 - 142.3	344,000	1,230	153,000	<56.1	<1.03	4.03	661	<0.330
M-252	9/19/2023	N	EM13	UMCf	132.3 - 142.3	325,000	1,720	165,000	56.6 J	<1.03	7.37	338	<0.330
M-252	12/18/2023	N	EM16	UMCf	132.3 - 142.3	366,000	1,390	168,000	<56.1	<1.03	4.88	376	<0.330
M-252	3/12/2024	N	EM19	UMCf	132.3 - 142.3	478,000	4,640	158,000	<56.1	<1.03	4.69	630	<0.330
M-252	6/19/2024	N	EM20	UMCf	132.3 - 142.3	382,000	<48.0	165,000	<56.1	<1.03	10.5	498	<0.330
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	4,560,000	45,200	1,020,000	----	----	----	----	----
U4-E-01D	3/14/2023	N	EM07	UMCf	94.7 - 109.7	108,000	357	229,000	<56.1	<1.03	1.52 J	133	<0.330
U4-E-01D	6/20/2024	N	EM20	UMCf	94.7 - 109.7	372,000	<480	214,000	<505	<9.27	44.7	113	<2.97
U4-E-01I	4/19/2022	N	BL02	UMCf	74.6 - 89.6	542,000	4,170	1,050,000	----	----	----	----	----
U4-E-01I	4/19/2022	FD	BL02	UMCf	74.6 - 89.6	706,000	6,420	1,030,000	----	----	----	----	----
U4-E-01I	3/14/2023	N	EM07	UMCf	74.6 - 89.6	892,000	8,200	389,000	<56.1	<1.03	15.1	49.5	<0.330

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	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
						Chloride	Nitrate (as N)	Sulfate	Aluminum	Antimony	Arsenic	Barium	Beryllium
						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	693,000	----	----	----	----	----	----	----
U4-E-01I	5/10/2023	N	EM09	UMCf	74.6 - 89.6	686,000	----	----	----	----	----	----	----
U4-E-01I	6/12/2023	N	EM10	UMCf	74.6 - 89.6	1,410,000	----	----	----	----	----	----	----
U4-E-01I	7/11/2023	N	EM11	UMCf	74.6 - 89.6	528,000	----	----	----	----	----	----	----
U4-E-01I	8/10/2023	N	EM12	UMCf	74.6 - 89.6	347,000	----	----	----	----	----	----	----
U4-E-01I	9/11/2023	N	EM13	UMCf	74.6 - 89.6	334,000	----	250,000 J	----	----	----	----	----
U4-E-01I	10/16/2023	N	EM14	UMCf	74.6 - 89.6	375,000	----	----	----	----	----	----	----
U4-E-01I	12/13/2023	N	EM16	UMCf	74.6 - 89.6	160,000	<4,800	136,000 J	----	----	----	----	----
U4-E-01I	1/24/2024	N	EM17	UMCf	74.6 - 89.6	177,000	7,590 J	111,000 J	----	----	----	----	----
U4-E-01I	2/14/2024	N	EM18	UMCf	74.6 - 89.6	150,000	<480	185,000	----	----	----	----	----
U4-E-01I	3/12/2024	N	EM19	UMCf	74.6 - 89.6	141,000	3,320	244,000	----	----	----	----	----
U4-E-01I	6/20/2024	N	EM20	UMCf	74.6 - 89.6	299,000	<480	199,000	613	<9.27	18.2	18.8	<0.330
U4-E-02D	4/20/2022	N	BL02	UMCf	94.4 - 109.4	1,460,000	12,200	1,120,000	----	----	----	----	----
U4-E-02D	3/14/2023	N	EM07	UMCf	94.4 - 109.4	109,000	311	234,000	<56.1	<1.03	1.39 J	138	<0.330
U4-E-02D	6/19/2024	N	EM20	UMCf	94.4 - 109.4	309,000	<480	260,000	485	<5.15	32.2	46.0	<0.330
U4-E-02I	4/18/2022	N	BL02	UMCf	74.4 - 89.4	842,000	7,430	1,020,000	----	----	----	----	----
U4-E-02I	3/14/2023	N	EM07	UMCf	74.4 - 89.4	218,000	374	253,000	<56.1	<1.03	18.2	58.1	<0.330
U4-E-02I	4/20/2023	N	EM08	UMCf	74.4 - 89.4	503,000	----	----	----	----	----	----	----
U4-E-02I	5/11/2023	N	EM09	UMCf	74.4 - 89.4	604,000	----	----	----	----	----	----	----
U4-E-02I	6/12/2023	N	EM10	UMCf	74.4 - 89.4	569,000	----	----	----	----	----	----	----
U4-E-02I	7/11/2023	N	EM11	UMCf	74.4 - 89.4	576,000	----	----	----	----	----	----	----
U4-E-02I	8/10/2023	N	EM12	UMCf	74.4 - 89.4	544,000	----	----	----	----	----	----	----
U4-E-02I	9/11/2023	N	EM13	UMCf	74.4 - 89.4	523,000	----	111,000	----	----	----	----	----
U4-E-02I	10/16/2023	N	EM14	UMCf	74.4 - 89.4	497,000	----	----	----	----	----	----	----
U4-E-02I	12/14/2023	N	EM16	UMCf	74.4 - 89.4	231,000	<4,800	177,000 J	----	----	----	----	----
U4-E-02I	1/22/2024	N	EM17	UMCf	74.4 - 89.4	539,000	6,670 J	369,000 J	----	----	----	----	----
U4-E-02I	2/13/2024	N	EM18	UMCf	74.4 - 89.4	715,000	<4,800	450,000 J	----	----	----	----	----
U4-E-02I	3/13/2024	N	EM19	UMCf	74.4 - 89.4	308,000 J+	<4,800	357,000 J	----	----	----	----	----
U4-E-02I	6/19/2024	N	EM20	UMCf	74.4 - 89.4	841,000	1,210	503,000	16,700	6.87 J	132	2,690	3.04 J
U4-E-03D	4/19/2022	N	BL02	UMCf	95.1 - 110.1	4,310,000	48,700	1,420,000	----	----	----	----	----
U4-E-03D	10/13/2022	N	EM02	UMCf	95.1 - 110.1	2,400,000	----	----	----	----	----	----	----
U4-E-03D	11/3/2022	N	EM03	UMCf	95.1 - 110.1	1,950,000	----	----	----	----	----	----	----
U4-E-03D	12/6/2022	N	EM04	UMCf	95.1 - 110.1	1,740,000	----	----	----	----	----	----	----
U4-E-03D	1/9/2023	N	EM05	UMCf	95.1 - 110.1	1,730,000	----	----	----	----	----	----	----
U4-E-03D	2/13/2023	N	EM06	UMCf	95.1 - 110.1	1,620,000	----	----	----	----	----	----	----
U4-E-03D	3/13/2023	N	EM07	UMCf	95.1 - 110.1	1,690,000	16,100	----	----	----	----	----	----
U4-E-03D	3/14/2023	N	EM07	UMCf	95.1 - 110.1	1,700,000	12,100	591,000	<56.1	<5.15	21.2	65.5	<0.330
U4-E-03D	4/19/2023	N	EM08	UMCf	95.1 - 110.1	1,750,000	----	----	----	----	----	----	----
U4-E-03D	5/11/2023	N	EM09	UMCf	95.1 - 110.1	1,530,000	----	----	----	----	----	----	----
U4-E-03D	6/12/2023	N	EM10	UMCf	95.1 - 110.1	1,870,000	----	----	----	----	----	----	----
U4-E-03D	7/11/2023	N	EM11	UMCf	95.1 - 110.1	2,180,000	----	----	----	----	----	----	----
U4-E-03D	8/10/2023	N	EM12	UMCf	95.1 - 110.1	2,360,000	----	----	----	----	----	----	----
U4-E-03D	9/11/2023	N	EM13	UMCf	95.1 - 110.1	2,280,000	----	537,000	----	----	----	----	----

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	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
						Chloride	Nitrate (as N)	Sulfate	Aluminum	Antimony	Arsenic	Barium	Beryllium
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-E-03D	10/16/2023	N	EM14	UMCf	95.1 - 110.1	2,340,000	----	----	----	----	----	----	----
U4-E-03D	6/10/2024	N	EM20	UMCf	95.1 - 110.1	261,000	<480 R	52,300 J-	373	1.82 J	60.1	55.4	0.397 J
U4-E-03D	6/10/2024	FD	EM20	UMCf	95.1 - 110.1	278,000	<480 R	55,300 J-	374	2.48 J	59.1	50.4	0.425 J
U4-E-04D	4/19/2022	N	BL02	UMCf	95.0 - 110.0	2,640,000	27,800	508,000	----	----	----	----	----
U4-E-04D	3/14/2023	N	EM07	UMCf	95.0 - 110.0	106,000	328	235,000	<56.1	<1.03	1.61 J	138	<0.330
U4-E-04D	6/20/2024	N	EM20	UMCf	95.0 - 110.0	319,000	<480	232,000	<505	11.0 J	46.4	56.3	<2.97
U4-E-04I	4/18/2022	N	BL02	UMCf	75.0 - 90.0	321,000	3,940	1,090,000	----	----	----	----	----
U4-E-04I	3/14/2023	N	EM07	UMCf	75.0 - 90.0	2,810,000	<480	709,000	<56.1	<5.15	18.6	82.7	<0.330
U4-E-04I	6/20/2024	N	EM20	UMCf	75.0 - 90.0	316,000	<480	190,000	<56.1	1.99 J	40.5	84.8	<0.330
U4-E-05D	4/19/2022	N	BL02	UMCf	95.0 - 110.0	2,770,000	4,770	758,000	----	----	----	----	----
U4-E-05D	3/16/2023	N	EM07	UMCf	95.0 - 110.0	110,000	<48.0	237,000	<56.1	<1.03	4.08	156	<0.330
U4-E-05D	6/10/2024	N	EM20	UMCf	95.0 - 110.0	167,000	3,190	28,600 J	166 J	1.96 J	18.7	27.0	<0.330
U4-E-05I	4/19/2022	N	BL02	UMCf	75.0 - 90.0	400,000	3,290	1,100,000	----	----	----	----	----
U4-E-05I	3/15/2023	N	EM07	UMCf	75.0 - 90.0	368,000	4,630	363,000	<56.1	<1.03	32.9	30.3	<0.330
U4-E-05I	6/19/2024	N	EM20	UMCf	75.0 - 90.0	295,000	<480	159,000	<505	<9.27	54.6	18.9 J	<2.97
U4-E-06D	4/11/2022	N	BL02	UMCf	95.1 - 110.1	1,150,000	12,200	214,000	81.0 J	<1.03	5.21	187 J	<0.330
U4-E-06D	6/20/2024	N	EM20	UMCf	95.1 - 110.1	517,000	<480	12,500 J	1,690	<9.27	129	171	<0.330
U4-E-06I	4/11/2022	N	BL02	UMCf	73.2 - 88.2	355,000	3,550	1,220,000	87.1 J	<1.03	32.9	34.2	<0.330
U4-E-06I	4/11/2022	FD	BL02	UMCf	73.2 - 88.2	345,000	3,660	1,300,000	68.8 J	<1.03	32.6	33.8	<0.330
U4-E-06I	10/12/2022	N	EM02	UMCf	73.2 - 88.2	1,140,000	----	----	----	----	----	----	----
U4-E-06I	11/3/2022	N	EM03	UMCf	73.2 - 88.2	895,000	----	----	----	----	----	----	----
U4-E-06I	12/6/2022	N	EM04	UMCf	73.2 - 88.2	572,000	----	----	----	----	----	----	----
U4-E-06I	1/9/2023	N	EM05	UMCf	73.2 - 88.2	1,340,000	----	----	----	----	----	----	----
U4-E-06I	2/13/2023	N	EM06	UMCf	73.2 - 88.2	1,200,000	----	----	----	----	----	----	----
U4-E-06I	3/13/2023	N	EM07	UMCf	73.2 - 88.2	753,000	<960 R	----	----	----	----	----	----
U4-E-06I	4/17/2023	N	EM08	UMCf	73.2 - 88.2	905,000	----	----	----	----	----	----	----
U4-E-06I	5/15/2023	N	EM09	UMCf	73.2 - 88.2	1,920,000	----	----	----	----	----	----	----
U4-E-06I	6/12/2023	N	EM10	UMCf	73.2 - 88.2	1,670,000	----	----	----	----	----	----	----
U4-E-06I	7/11/2023	N	EM11	UMCf	73.2 - 88.2	1,680,000	----	----	----	----	----	----	----
U4-E-06I	8/11/2023	N	EM12	UMCf	73.2 - 88.2	1,900,000	----	----	----	----	----	----	----
U4-E-06I	9/11/2023	N	EM13	UMCf	73.2 - 88.2	949,000	----	379,000	----	----	----	----	----
U4-E-06I	10/16/2023	N	EM14	UMCf	73.2 - 88.2	766,000	----	----	----	----	----	----	----
U4-E-06I	12/13/2023	N	EM16	UMCf	73.2 - 88.2	1,830,000	6,080 J	550,000 J+	----	----	----	----	----
U4-E-06I	1/22/2024	N	EM17	UMCf	73.2 - 88.2	2,070,000	775 J	436,000	----	----	----	----	----
U4-E-06I	2/13/2024	N	EM18	UMCf	73.2 - 88.2	2,570,000	40,500 J	559,000 J	----	----	----	----	----
U4-E-06I	3/11/2024	N	EM19	UMCf	73.2 - 88.2	3,400,000	<48.0 UJ	358,000	----	----	----	----	----
U4-E-06I	6/11/2024	N	EM20	UMCf	73.2 - 88.2	2,800,000	<4,800	554,000	<56.1	<5.15	92.0	244	<0.330
U4-E-07D	4/12/2022	N	BL02	UMCf	94.6 - 109.6	3,780,000	56,100	965,000	<280	<10.3	12.2 J	135	<1.65
U4-E-07D	6/20/2024	N	EM20	UMCf	94.6 - 109.6	1,520,000	<480	910,000	<56.1	4.73	19.1	229	<0.330
U4-E-07I	4/12/2022	N	BL02	UMCf	74.7 - 89.7	723,000	10,200	1,120,000	117 J	1.17 J	72.5	29.6 J+	<0.330
U4-E-07I	10/11/2022	N	EM02	UMCf	74.7 - 89.7	1,810,000	----	----	----	----	----	----	----
U4-E-07I	11/3/2022	N	EM03	UMCf	74.7 - 89.7	1,580,000	----	----	----	----	----	----	----
U4-E-07I	12/6/2022	N	EM04	UMCf	74.7 - 89.7	1,490,000	----	----	----	----	----	----	----

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	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
						Chloride	Nitrate (as N)	Sulfate	Aluminum	Antimony	Arsenic	Barium	Beryllium
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-E-07I	1/9/2023	N	EM05	UMCf	74.7 - 89.7	1,720,000	----	----	----	----	----	----	----
U4-E-07I	2/13/2023	N	EM06	UMCf	74.7 - 89.7	1,690,000	----	----	----	----	----	----	----
U4-E-07I	3/13/2023	N	EM07	UMCf	74.7 - 89.7	1,770,000	14,200	----	----	----	----	----	----
U4-E-07I	4/19/2023	N	EM08	UMCf	74.7 - 89.7	1,630,000	----	----	----	----	----	----	----
U4-E-07I	5/15/2023	N	EM09	UMCf	74.7 - 89.7	1,600,000	----	----	----	----	----	----	----
U4-E-07I	6/12/2023	N	EM10	UMCf	74.7 - 89.7	1,530,000	----	----	----	----	----	----	----
U4-E-07I	7/11/2023	N	EM11	UMCf	74.7 - 89.7	1,750,000	----	----	----	----	----	----	----
U4-E-07I	8/11/2023	N	EM12	UMCf	74.7 - 89.7	1,860,000	----	----	----	----	----	----	----
U4-E-07I	9/11/2023	N	EM13	UMCf	74.7 - 89.7	2,080,000	----	685,000	----	----	----	----	----
U4-E-07I	10/16/2023	N	EM14	UMCf	74.7 - 89.7	2,020,000	----	----	----	----	----	----	----
U4-E-07I	12/13/2023	N	EM16	UMCf	74.7 - 89.7	1,990,000	14,500	555,000 J+	----	----	----	----	----
U4-E-07I	1/23/2024	N	EM17	UMCf	74.7 - 89.7	2,420,000	10,300	670,000	----	----	----	----	----
U4-E-07I	2/13/2024	N	EM18	UMCf	74.7 - 89.7	1,970,000	11,200	533,000	----	----	----	----	----
U4-E-07I	3/11/2024	N	EM19	UMCf	74.7 - 89.7	1,800,000	10,900 J-	494,000 J	----	----	----	----	----
U4-E-07I	6/11/2024	N	EM20	UMCf	74.7 - 89.7	1,750,000	10,500	665,000	<56.1	<5.15	40.7	82.0	<0.330
U4-E-08D	4/12/2022	N	BL02	UMCf	94.6 - 109.6	4,180,000	63,500	948,000	<280	<10.3	5.36 J	143	<1.65
U4-E-08D	10/11/2022	N	EM02	UMCf	94.6 - 109.6	2,780,000	----	----	----	----	----	----	----
U4-E-08D	11/3/2022	N	EM03	UMCf	94.6 - 109.6	2,490,000	----	----	----	----	----	----	----
U4-E-08D	12/6/2022	N	EM04	UMCf	94.6 - 109.6	2,210,000	----	----	----	----	----	----	----
U4-E-08D	1/9/2023	N	EM05	UMCf	94.6 - 109.6	2,400,000	----	----	----	----	----	----	----
U4-E-08D	2/13/2023	N	EM06	UMCf	94.6 - 109.6	2,140,000	----	----	----	----	----	----	----
U4-E-08D	3/13/2023	N	EM07	UMCf	94.6 - 109.6	2,370,000	14,600	----	----	----	----	----	----
U4-E-08D	4/19/2023	N	EM08	UMCf	94.6 - 109.6	2,140,000	----	----	----	----	----	----	----
U4-E-08D	5/17/2023	N	EM09	UMCf	94.6 - 109.6	2,060,000	----	----	----	----	----	----	----
U4-E-08D	6/12/2023	N	EM10	UMCf	94.6 - 109.6	1,930,000	----	----	----	----	----	----	----
U4-E-08D	7/11/2023	N	EM11	UMCf	94.6 - 109.6	2,010,000	----	----	----	----	----	----	----
U4-E-09D	4/15/2022	N	BL02	UMCf	94.5 - 109.5	1,710,000	19,200	475,000	106 J	<10.3	9.35 J	106	<0.330
U4-E-09D	6/10/2024	N	EM20	UMCf	94.5 - 109.5	267,000	2,050	69,100	688	<5.15	19.9	58.8	<0.330
U4-E-09I	4/14/2022	N	BL02	UMCf	74.9 - 89.9	638,000	9,440	1,100,000	<56.1	1.07 J	30.8	27.1	<0.330
U4-E-09I	6/10/2024	N	EM20	UMCf	74.9 - 89.9	261,000	2,840	99,000	94.0 J	<5.15	37.7	4.76 J	<0.330
U4-E-09I	6/10/2024	FD	EM20	UMCf	74.9 - 89.9	244,000	<480 R	100,000	82.9 J	<5.15	42.7	4.24 J	<0.330
U4-E-10D	4/13/2022	N	BL02	UMCf	94.5 - 109.5	895,000	11,200	550,000	102 J	<1.03	6.71	112	<0.330
U4-E-10D	6/19/2024	N	EM20	UMCf	94.5 - 109.5	403,000	<480	254,000	400	<5.15	78.0	341	<0.330
U4-E-10I	4/13/2022	N	BL02	UMCf	74.2 - 89.2	911,000	10,400	711,000	115 J	<1.03	19.6	34.7	<0.330
U4-E-10I	6/11/2024	N	EM20	UMCf	74.2 - 89.2	247,000	<4,800	297,000 J	248	<1.03	33.2	96.9	<0.330
U4-MW-01D	4/19/2022	N	BL02	UMCf	96.7 - 106.7	1,040,000	5,360	437,000	----	----	----	----	----
U4-MW-01D	2/16/2023	N	EM06	UMCf	96.7 - 106.7	----	----	----	----	----	----	----	----
U4-MW-01D	3/20/2023	N	EM07	UMCf	96.7 - 106.7	955,000	8,720	429,000	<56.1	<1.03	7.27	40.6	<0.330
U4-MW-01D	6/13/2023	N	EM10	UMCf	96.7 - 106.7	723,000	2,400	385,000	<56.1	<10.3	7.99 J	158	0.722 J
U4-MW-01D	9/14/2023	N	EM13	UMCf	96.7 - 106.7	727,000	6,890	356,000	<56.1	<5.15	7.50 J	132	<0.330
U4-MW-01D	12/14/2023	N	EM16	UMCf	96.7 - 106.7	714,000	5,860	358,000	<56.1	<5.15	7.29 J	143	<0.330
U4-MW-01D	3/13/2024	N	EM19	UMCf	96.7 - 106.7	708,000	4,660	310,000	<56.1	<5.15	5.74 J	121	<0.330
U4-MW-01D	6/18/2024	N	EM20	UMCf	96.7 - 106.7	703,000	4,600	297,000	<56.1	<1.03	7.78	116	<0.330

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	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
						Chloride	Nitrate (as N)	Sulfate	Aluminum	Antimony	Arsenic	Barium	Beryllium
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-01DD	4/19/2022	N	BL02	UMCf	119.9 - 129.9	191,000	230	214,000	----	----	----	----	----
U4-MW-01DD	4/19/2022	FD	BL02	UMCf	119.9 - 129.9	191,000	259	214,000	----	----	----	----	----
U4-MW-01DD	3/15/2023	N	EM07	UMCf	119.9 - 129.9	539,000	4,730	249,000	<56.1	<1.03	9.69	117	<0.330
U4-MW-01DD	6/13/2023	N	EM10	UMCf	119.9 - 129.9	430,000	3,700	279,000	<56.1	<10.3	4.73 J	109	<0.330
U4-MW-01DD	9/14/2023	N	EM13	UMCf	119.9 - 129.9	437,000	4,470 J+	242,000	<56.1	<1.03	5.37	119	<0.330
U4-MW-01DD	12/15/2023	N	EM16	UMCf	119.9 - 129.9	312,000	<48.0 R	200,000	<56.1	<1.03	9.11	67.7	<0.330
U4-MW-01DD	3/12/2024	N	EM19	UMCf	119.9 - 129.9	355,000	3,840	197,000	<56.1	<1.03	9.44	68.7	<0.330
U4-MW-01DD	6/18/2024	N	EM20	UMCf	119.9 - 129.9	298,000	2,520	177,000	<56.1	<1.03	8.16	62.9	<0.330
U4-MW-01I	4/19/2022	N	BL02	UMCf	76.7 - 86.7	920,000	5,610	590,000	----	----	----	----	----
U4-MW-01I	3/20/2023	N	EM07	UMCf	76.7 - 86.7	1,420,000	13,400	458,000 J	61.0 J	1.22 J	8.10	48.9	<0.330
U4-MW-01I	6/12/2023	N	EM10	UMCf	76.7 - 86.7	772,000	6,470	383,000	270 J+	<1.03	6.24	124	<0.330
U4-MW-01I	9/14/2023	N	EM13	UMCf	76.7 - 86.7	850,000	7,850	348,000	67.7 J	<5.15	6.96 J	131	<0.330
U4-MW-01I	12/15/2023	N	EM16	UMCf	76.7 - 86.7	1,160,000	<48.0	341,000	8,760	<1.03	17.5	216	0.749 J
U4-MW-01I	3/13/2024	N	EM19	UMCf	76.7 - 86.7	1,280,000	8,190	313,000	<56.1	<5.15	6.11 J	196	<0.330
U4-MW-01I	6/18/2024	N	EM20	UMCf	76.7 - 86.7	1,140,000	6,940	325,000	<56.1	<1.03	6.72	169	<0.330
U4-MW-01S	4/18/2022	N	BL02	UMCf	54.7 - 64.7	289,000	2,730	1,290,000	----	----	----	----	----
U4-MW-01S	3/15/2023	N	EM07	UMCf	54.7 - 64.7	261,000	5,680	1,190,000	56.8 J	<1.03	57.0	12.1	<0.330
U4-MW-01S	6/13/2023	N	EM10	UMCf	54.7 - 64.7	270,000	1,190 J-	1,170,000	<56.1	<1.03	52.7	13.3 J+	<0.330
U4-MW-01S	9/15/2023	N	EM13	UMCf	54.7 - 64.7	286,000	2,760 J-	1,200,000	63.4 J	<1.03	50.6	11.9	<0.330
U4-MW-01S	12/13/2023	N	EM16	UMCf	54.7 - 64.7	257,000	2,200	1,060,000	<56.1	<1.03	60.8	9.92	<0.330
U4-MW-01S	3/13/2024	N	EM19	UMCf	54.7 - 64.7	231,000	988	705,000	<56.1	<1.03	66.7	16.0	<0.330
U4-MW-01S	6/18/2024	N	EM20	UMCf	54.7 - 64.7	249,000	<480	480,000	<56.1	<1.03	76.4	12.2	<0.330
U4-MW-02D	4/14/2022	N	BL02	UMCf	95.0 - 110.0	6,150,000	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	4,810,000	53,100 J-	943,000	<56.1	<10.3	6.71 J	142	<0.330
U4-MW-02D	4/19/2023	N	EM08	UMCf	95.0 - 110.0	5,540,000	68,100	1,210,000	----	----	----	----	----
U4-MW-02D	5/9/2023	N	EM09	UMCf	95.0 - 110.0	5,200,000	64,000	1,140,000	----	----	----	----	----
U4-MW-02D	6/13/2023	N	EM10	UMCf	95.0 - 110.0	4,360,000	55,000	906,000	<280	<10.3	8.58 J	115	<1.65
U4-MW-02D	7/18/2023	N	EM11	UMCf	95.0 - 110.0	5,070,000	<480	1,140,000	----	----	----	----	----
U4-MW-02D	8/14/2023	N	EM12	UMCf	95.0 - 110.0	4,680,000	72,000	1,140,000	----	----	----	----	----
U4-MW-02D	9/11/2023	N	EM13	UMCf	95.0 - 110.0	4,350,000	54,700	1,010,000	84.2 J	<20.6	8.17 J	102	<0.330
U4-MW-02D	10/19/2023	N	EM14	UMCf	95.0 - 110.0	4,900,000	57,900	1,150,000	----	----	----	----	----
U4-MW-02D	11/15/2023	N	EM15	UMCf	95.0 - 110.0	4,410,000	38,400	1,030,000	----	----	----	----	----
U4-MW-02D	12/14/2023	N	EM16	UMCf	95.0 - 110.0	3,810,000	40,300	676,000	<56.1	<20.6	6.58 J	118	<0.330
U4-MW-02D	1/25/2024	N	EM17	UMCf	95.0 - 110.0	3,740,000	44,100	708,000	----	----	----	----	----
U4-MW-02D	2/12/2024	N	EM18	UMCf	95.0 - 110.0	3,750,000	46,900	764,000	----	----	----	----	----
U4-MW-02D	3/13/2024	N	EM19	UMCf	95.0 - 110.0	3,720,000	41,400	699,000 J+	56.5 J	<10.3	5.40 J	108	<0.330
U4-MW-02D	6/17/2024	N	EM20	UMCf	95.0 - 110.0	3,560,000	<480	695,000	<56.1	17.4 J	7.51 J	146	<0.330
U4-MW-02I	4/14/2022	N	BL02	UMCf	75.0 - 90.0	808,000	9,670	1,200,000	----	----	----	----	----

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	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
						Chloride	Nitrate (as N)	Sulfate	Aluminum	Antimony	Arsenic	Barium	Beryllium
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
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	3,130,000	33,700 J-	981,000	<56.1	<5.15	23.8	96.6	<0.330
U4-MW-02I	3/17/2023	FD	EM07	UMCf	75.0 - 90.0	3,120,000	32,300 J-	935,000	<56.1	<5.15	23.3	97.1	<0.330
U4-MW-02I	4/20/2023	N	EM08	UMCf	75.0 - 90.0	237,000	208 J+	74,700	----	----	----	----	----
U4-MW-02I	4/20/2023	FD	EM08	UMCf	75.0 - 90.0	240,000	222 J+	74,900	----	----	----	----	----
U4-MW-02I	5/9/2023	N	EM09	UMCf	75.0 - 90.0	521,000	<48.0	374,000	----	----	----	----	----
U4-MW-02I	5/9/2023	FD	EM09	UMCf	75.0 - 90.0	510,000	<48.0	372,000	----	----	----	----	----
U4-MW-02I	6/12/2023	N	EM10	UMCf	75.0 - 90.0	611,000	1,790	267,000	<56.1	<1.03	60.7	72.6	<0.330
U4-MW-02I	6/12/2023	FD	EM10	UMCf	75.0 - 90.0	611,000	1,340	265,000	<56.1	<1.03	60.1	69.8	<0.330
U4-MW-02I	7/18/2023	N	EM11	UMCf	75.0 - 90.0	452,000	56.3 J	736 J	----	----	----	----	----
U4-MW-02I	7/18/2023	FD	EM11	UMCf	75.0 - 90.0	457,000	56.0 J	761 J	----	----	----	----	----
U4-MW-02I	8/11/2023	N	EM12	UMCf	75.0 - 90.0	1,480,000	5,410	377,000	----	----	----	----	----
U4-MW-02I	8/11/2023	FD	EM12	UMCf	75.0 - 90.0	1,630,000	5,230	406,000	----	----	----	----	----
U4-MW-02I	9/11/2023	N	EM13	UMCf	75.0 - 90.0	1,490,000	779 J	299,000	<56.1	<5.15	66.5	421	<0.330
U4-MW-02I	9/11/2023	FD	EM13	UMCf	75.0 - 90.0	1,490,000	<48.0	298,000	<56.1	<5.15	65.9	416	<0.330
U4-MW-02I	10/19/2023	N	EM14	UMCf	75.0 - 90.0	2,360,000	4,260	672,000	----	----	----	----	----
U4-MW-02I	10/19/2023	FD	EM14	UMCf	75.0 - 90.0	2,350,000	4,960	673,000	----	----	----	----	----
U4-MW-02I	11/15/2023	N	EM15	UMCf	75.0 - 90.0	2,440,000	8,540 J	583,000	----	----	----	----	----
U4-MW-02I	11/15/2023	FD	EM15	UMCf	75.0 - 90.0	2,450,000	8,600 J	580,000	----	----	----	----	----
U4-MW-02I	12/14/2023	N	EM16	UMCf	75.0 - 90.0	2,360,000	14,300	552,000 J+	<56.1	<10.3	74.8	220	<0.330
U4-MW-02I	12/14/2023	FD	EM16	UMCf	75.0 - 90.0	2,550,000	14,300	580,000 J+	<56.1	<5.15	72.9	219	<0.330
U4-MW-02I	1/25/2024	N	EM17	UMCf	75.0 - 90.0	2,760,000	21,500	599,000	----	----	----	----	----
U4-MW-02I	1/25/2024	FD	EM17	UMCf	75.0 - 90.0	2,720,000	21,200	591,000	----	----	----	----	----
U4-MW-02I	2/12/2024	N	EM18	UMCf	75.0 - 90.0	2,870,000	18,100	717,000	----	----	----	----	----
U4-MW-02I	2/12/2024	FD	EM18	UMCf	75.0 - 90.0	2,930,000	19,100	739,000	----	----	----	----	----
U4-MW-02I	3/13/2024	N	EM19	UMCf	75.0 - 90.0	2,930,000	19,600	617,000 J+	58.2 J	<10.3	56.3	193	<0.330
U4-MW-02I	3/13/2024	FD	EM19	UMCf	75.0 - 90.0	2,850,000	19,100	614,000 J+	68.5 J	<10.3	52.4	194	<0.330
U4-MW-02I	6/17/2024	N	EM20	UMCf	75.0 - 90.0	2,320,000	<480	494,000	<56.1	9.72 J	44.9	81.2	<0.330
U4-MW-02I	6/17/2024	FD	EM20	UMCf	75.0 - 90.0	2,350,000	<480	493,000	<56.1	7.42 J	44.4	79.4	<0.330
U4-MW-03D	4/20/2022	N	BL02	UMCf	96.6 - 106.6	2,110,000	22,400	534,000	----	----	----	----	----
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	1,550,000	16,100	363,000	76.8 J	<5.15	7.03 J	138	<0.330
U4-MW-03D	3/16/2023	FD	EM07	UMCf	96.6 - 106.6	1,520,000	15,800	358,000	76.7 J	<5.15	7.05 J	137	<0.330
U4-MW-03D	6/15/2023	N	EM10	UMCf	96.6 - 106.6	1,330,000	11,000	337,000 J	<56.1	<5.15	7.58 J	118	<0.330
U4-MW-03D	9/14/2023	N	EM13	UMCf	96.6 - 106.6	1,690,000	21,700 J+	437,000 J	<56.1	<5.15	6.25 J	130	<0.330

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	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
						Chloride	Nitrate (as N)	Sulfate	Aluminum	Antimony	Arsenic	Barium	Beryllium
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-03D	12/13/2023	N	EM16	UMCf	96.6 - 106.6	2,020,000	12,600 J-	364,000 J	81.0 J	<5.15	8.33 J	131	<0.330
U4-MW-03D	3/15/2024	N	EM19	UMCf	96.6 - 106.6	1,770,000	5,220 J-	302,000	<56.1	<1.03	<0.180	128	<0.330
U4-MW-03D	6/17/2024	N	EM20	UMCf	96.6 - 106.6	1,800,000	852 J	267,000	<56.1	<1.03	18.9	151	<0.330
U4-MW-03DD	4/20/2022	N	BL02	UMCf	119.7 - 129.7	319,000	1,180	255,000	----	----	----	----	----
U4-MW-03DD	3/15/2023	N	EM07	UMCf	119.7 - 129.7	140,000	1,290	159,000	<56.1	<1.03	12.6	24.1	<0.330
U4-MW-03DD	6/15/2023	N	EM10	UMCf	119.7 - 129.7	134,000	447	163,000	<56.1	<1.03	12.7	25.8	<0.330
U4-MW-03DD	9/14/2023	N	EM13	UMCf	119.7 - 129.7	140,000 J-	1,300	170,000	<56.1	<1.03	11.0	24.1	<0.330
U4-MW-03DD	12/14/2023	N	EM16	UMCf	119.7 - 129.7	139,000 J-	1,050	178,000	<56.1	<1.03	11.3	24.1	<0.330
U4-MW-03DD	3/14/2024	N	EM19	UMCf	119.7 - 129.7	140,000 J-	998 J-	164,000	57.7 J	<1.03	12.2	23.7	<0.330
U4-MW-03DD	6/17/2024	N	EM20	UMCf	119.7 - 129.7	139,000	1,400	171,000	<56.1	<1.03	10.2	23.3	<0.330
U4-MW-03I	4/19/2022	N	BL02	UMCf	76.6 - 86.6	391,000	3,990 J	1,080,000	----	----	----	----	----
U4-MW-03I	3/15/2023	N	EM07	UMCf	76.6 - 86.6	1,340,000	9,430	335,000	<56.1	<1.03	7.08	121	<0.330
U4-MW-03I	6/14/2023	N	EM10	UMCf	76.6 - 86.6	1,290,000	13,400	373,000	144 J	<5.15	10.3	93.6	<0.330
U4-MW-03I	6/14/2023	FD	EM10	UMCf	76.6 - 86.6	1,290,000	13,300	373,000	125 J	<5.15	11.3	95.9	<0.330
U4-MW-03I	9/11/2023	N	EM13	UMCf	76.6 - 86.6	1,600,000	17,900 J	402,000 J	19,800	<5.15	19.9	170	1.45 J
U4-MW-03I	9/11/2023	FD	EM13	UMCf	76.6 - 86.6	1,660,000	37,500 J	499,000 J	14,900	<5.15	18.2	157	1.05 J
U4-MW-03I	12/13/2023	N	EM16	UMCf	76.6 - 86.6	1,480,000	<4,800	276,000 J	72.5 J	<5.15	8.78 J	133	<0.330
U4-MW-03I	12/13/2023	FD	EM16	UMCf	76.6 - 86.6	1,600,000	5,080 J	305,000 J	83.4 J	<5.15	9.60 J	133	<0.330
U4-MW-03I	3/14/2024	N	EM19	UMCf	76.6 - 86.6	1,790,000	<48.0 UJ	284,000	58.1 J	<5.15	11.8	136	<0.330
U4-MW-03I	3/14/2024	FD	EM19	UMCf	76.6 - 86.6	1,910,000	<48.0 UJ	304,000	<56.1	<5.15	12.1	137	<0.330
U4-MW-03I	6/19/2024	N	EM20	UMCf	76.6 - 86.6	2,060,000	532 J	349,000	<56.1	1.40 J	20.6	132	<0.330
U4-MW-03I	6/19/2024	FD	EM20	UMCf	76.6 - 86.6	2,060,000	487 J	343,000	<56.1	1.49 J	19.8	134	<0.330
U4-MW-03S	4/18/2022	N	BL02	UMCf	54.5 - 64.5	222,000	1,750	1,160,000	----	----	----	----	----
U4-MW-03S	4/18/2022	FD	BL02	UMCf	54.5 - 64.5	215,000	1,680	1,180,000	----	----	----	----	----
U4-MW-03S	3/15/2023	N	EM07	UMCf	54.5 - 64.5	241,000	4,110	1,040,000	<56.1	<1.03	122	10.8	<0.330
U4-MW-03S	6/15/2023	N	EM10	UMCf	54.5 - 64.5	259,000	3,030	1,010,000	<56.1	<1.03	99.2	13.6	<0.330
U4-MW-03S	9/14/2023	N	EM13	UMCf	54.5 - 64.5	313,000	4,650	989,000	<56.1	<1.03	116	11.5	<0.330
U4-MW-03S	12/13/2023	N	EM16	UMCf	54.5 - 64.5	308,000	1,030	857,000	74.6 J	<1.03	160	11.3	<0.330
U4-MW-03S	3/14/2024	N	EM19	UMCf	54.5 - 64.5	342,000	<48.0 UJ	690,000	83.2 J	<1.03	133	12.0	<0.330
U4-MW-03S	6/14/2024	N	EM20	UMCf	54.5 - 64.5	351,000	<48.0	487,000	<56.1	<1.03	202	14.6	<0.330
U4-MW-04D	4/19/2022	N	BL02	UMCf	97.0 - 107.0	5,690,000	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	680,000 J+	10,400	326,000 J	<56.1	<1.03	23.4	10.5	<0.330
U4-MW-04D	6/14/2023	N	EM10	UMCf	97.0 - 107.0	612,000	3,710 J	291,000	<56.1	<5.15	23.9	50.3	<0.330
U4-MW-04D	9/15/2023	N	EM13	UMCf	97.0 - 107.0	842,000	6,060	266,000	<56.1	<5.15	10.8	93.1	<0.330
U4-MW-04D	12/12/2023	N	EM16	UMCf	97.0 - 107.0	955,000	10,400 J+	229,000 J	<56.1	<5.15	46.0	127	<0.330
U4-MW-04D	3/12/2024	N	EM19	UMCf	97.0 - 107.0	1,250,000	6,540	258,000	<56.1	<5.15	24.6	190	<0.330
U4-MW-04D	6/19/2024	N	EM20	UMCf	97.0 - 107.0	1,660,000	2,750	340,000	<56.1	<5.15	15.7	237	<0.330
U4-MW-04I	4/19/2022	N	BL02	UMCf	76.8 - 86.8	2,460,000	23,300	1,150,000	----	----	----	----	----
U4-MW-04I	3/20/2023	N	EM07	UMCf	76.8 - 86.8	2,080,000	25,300	591,000	<56.1	<5.15	15.1	17.4	<0.330
U4-MW-04I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	1,470,000	15,000 J-	411,000 J	<56.1	<5.15	18.1	84.5	<0.330
U4-MW-04I	9/14/2023	N	EM13	UMCf	76.8 - 86.8	3,240,000	40,000 J+	729,000	<56.1	<10.3	12.5 J	132	<0.330
U4-MW-04I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	3,200,000	40,000 J+	709,000 J+	67.8 J	<20.6	15.8 J	115	<0.330

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	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
						Chloride	Nitrate (as N)	Sulfate	Aluminum	Antimony	Arsenic	Barium	Beryllium
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-04I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	3,350,000	38,400	768,000	<56.1	<10.3	16.2 J	118	<0.330
U4-MW-04I	6/18/2024	N	EM20	UMCf	76.8 - 86.8	3,880,000	39,300	844,000	<56.1	<10.3	13.1 J	129	<0.330
U4-MW-05D	4/15/2022	N	BL02	UMCf	98.2 - 108.2	4,020,000	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	1,630,000	17,200	558,000	<56.1	<5.15	34.2	60.8	<0.330
U4-MW-05D	4/20/2023	N	EM08	UMCf	98.2 - 108.2	1,160,000	14,200 J+	441,000 J	----	----	----	----	----
U4-MW-05D	5/10/2023	N	EM09	UMCf	98.2 - 108.2	1,230,000	2,620	439,000	----	----	----	----	----
U4-MW-05D	6/15/2023	N	EM10	UMCf	98.2 - 108.2	1,250,000	<240	305,000	<56.1	7.74 J	78.5	110	<0.330
U4-MW-05D	7/18/2023	N	EM11	UMCf	98.2 - 108.2	1,750,000	3,090	388,000	----	----	----	----	----
U4-MW-05D	8/14/2023	N	EM12	UMCf	98.2 - 108.2	1,950,000	9,660	485,000	----	----	----	----	----
U4-MW-05D	9/12/2023	N	EM13	UMCf	98.2 - 108.2	1,410,000	752 J	217,000	<56.1	8.82	82.1	129	<0.330
U4-MW-05D	10/18/2023	N	EM14	UMCf	98.2 - 108.2	2,020,000	6,150	282,000	----	----	----	----	----
U4-MW-05D	11/16/2023	N	EM15	UMCf	98.2 - 108.2	1,850,000	11,300	258,000 J	----	----	----	----	----
U4-MW-05D	12/14/2023	N	EM16	UMCf	98.2 - 108.2	1,010,000	<48.0	316,000	3,530	5.28 J	83.0	254	<0.330
U4-MW-05D	1/26/2024	N	EM17	UMCf	98.2 - 108.2	2,000,000	2,860 J+	411,000	----	----	----	----	----
U4-MW-05D	2/14/2024	N	EM18	UMCf	98.2 - 108.2	2,480,000	5,210	452,000	----	----	----	----	----
U4-MW-05D	3/12/2024	N	EM19	UMCf	98.2 - 108.2	2,090,000	4,390	383,000	<56.1	18.6 J	59.4	330	<0.330
U4-MW-05D	6/18/2024	N	EM20	UMCf	98.2 - 108.2	3,100,000	9,790 J	533,000	<56.1	<10.3	57.4	492	<0.330
U4-MW-05I	4/15/2022	N	BL02	UMCf	76.6 - 86.6	2,380,000	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	1,500,000	11,600	641,000	107 J	<5.15	41.1	57.4	<0.330
U4-MW-05I	4/21/2023	N	EM08	UMCf	76.6 - 86.6	631,000	<480	386,000	----	----	----	----	----
U4-MW-05I	5/10/2023	N	EM09	UMCf	76.6 - 86.6	598,000	<480	283,000	----	----	----	----	----
U4-MW-05I	6/15/2023	N	EM10	UMCf	76.6 - 86.6	710,000	<48.0	83,700	<56.1	12.9	200	367	<0.330
U4-MW-05I	7/17/2023	N	EM11	UMCf	76.6 - 86.6	1,740,000	2,320	420,000	----	----	----	----	----
U4-MW-05I	8/14/2023	N	EM12	UMCf	76.6 - 86.6	1,850,000	1,070	410,000	----	----	----	----	----
U4-MW-05I	9/13/2023	N	EM13	UMCf	76.6 - 86.6	1,980,000	<480	366,000	<56.1	<5.15	132	171	1.32 J
U4-MW-05I	10/18/2023	N	EM14	UMCf	76.6 - 86.6	2,240,000	840 J	358,000	----	----	----	----	----
U4-MW-05I	11/15/2023	N	EM15	UMCf	76.6 - 86.6	2,480,000	<480	367,000	----	----	----	----	----
U4-MW-05I	12/12/2023	N	EM16	UMCf	76.6 - 86.6	1,870,000	1,920 J+	400,000	<56.1	<10.3	106	175	<0.330
U4-MW-05I	1/26/2024	N	EM17	UMCf	76.6 - 86.6	2,770,000 J	1,820 J	411,000	----	----	----	----	----
U4-MW-05I	2/14/2024	N	EM18	UMCf	76.6 - 86.6	3,150,000	1,210	482,000	----	----	----	----	----
U4-MW-05I	3/11/2024	N	EM19	UMCf	76.6 - 86.6	3,080,000	<480 UJ	505,000	<56.1	6.73 J	89.9	272	<0.330
U4-MW-05I	6/18/2024	N	EM20	UMCf	76.6 - 86.6	4,620,000	10,900	645,000	<56.1	<10.3	65.1	234	<0.330
U4-MW-06D	4/19/2022	N	BL02	UMCf	97.1 - 107.1	4,670,000	48,100	1,160,000	----	----	----	----	----

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	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
						Chloride	Nitrate (as N)	Sulfate	Aluminum	Antimony	Arsenic	Barium	Beryllium
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
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	1,890,000	20,800	501,000	<56.1	<1.03	9.68	19.8	<0.330
U4-MW-06D	6/16/2023	N	EM10	UMCf	97.1 - 107.1	1,830,000	16,600 J-	467,000 J	89.9 J	<5.15	9.97 J	97.1	<0.330
U4-MW-06D	9/13/2023	N	EM13	UMCf	97.1 - 107.1	2,460,000	15,000	455,000	<56.1	<5.15	20.4	227	3.85
U4-MW-06D	12/13/2023	N	EM16	UMCf	97.1 - 107.1	3,110,000	21,000	487,000 J	75.5 J	<20.6	24.2 J	214	<0.330
U4-MW-06D	3/14/2024	N	EM19	UMCf	97.1 - 107.1	2,810,000	<480 UJ	410,000	<56.1	<5.15	20.9	353	<0.330
U4-MW-06D	6/12/2024	N	EM20	UMCf	97.1 - 107.1	3,550,000	39,600	935,000	<56.1	<10.3	30.5	246	<0.330
U4-MW-06I	4/19/2022	N	BL02	UMCf	76.5 - 86.5	353,000	146 J+	967,000	----	----	----	----	----
U4-MW-06I	3/14/2023	N	EM07	UMCf	76.5 - 86.5	2,130,000	15,200	655,000	<56.1	<5.15	17.0	78.4	<0.330
U4-MW-06I	6/16/2023	N	EM10	UMCf	76.5 - 86.5	2,100,000	14,800 J-	556,000	<56.1	<5.15	28.4	94.6	<0.330
U4-MW-06I	9/12/2023	N	EM13	UMCf	76.5 - 86.5	2,270,000	14,700	456,000 J	94.4 J	<5.15	33.4	123	<0.330
U4-MW-06I	12/12/2023	N	EM16	UMCf	76.5 - 86.5	3,240,000	17,900 J+	548,000 J+	91.9 J	<20.6	25.6 J	161	<0.330
U4-MW-06I	3/14/2024	N	EM19	UMCf	76.5 - 86.5	3,110,000	<480 UJ	532,000	64.5 J	<5.15	31.5	230	<0.330
U4-MW-06I	6/11/2024	N	EM20	UMCf	76.5 - 86.5	3,450,000	<4,800	629,000	<56.1	<10.3	45.2	136	<0.330
U4-MW-07D	4/15/2022	N	BL02	UMCf	96.8 - 106.5	1,260,000	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	167,000	756	230,000	<56.1	<1.03	6.14	26.5	<0.330
U4-MW-07D	4/21/2023	N	EM08	UMCf	96.8 - 106.5	426,000	1,300	237,000	----	----	----	----	----
U4-MW-07D	5/11/2023	N	EM09	UMCf	96.8 - 106.5	318,000	<48.0	67,300	----	----	----	----	----
U4-MW-07D	6/13/2023	N	EM10	UMCf	96.8 - 106.5	620,000	500	71,600	<56.1	<1.03	26.3	529	<0.330
U4-MW-07D	7/17/2023	N	EM11	UMCf	96.8 - 106.5	1,950,000	8,830	596,000	----	----	----	----	----
U4-MW-07D	8/11/2023	N	EM12	UMCf	96.8 - 106.5	1,960,000	11,800 J+	543,000	----	----	----	----	----
U4-MW-07D	9/13/2023	N	EM13	UMCf	96.8 - 106.5	1,750,000	<240	367,000	<56.1	<5.15	32.9	140	2.31
U4-MW-07D	10/18/2023	N	EM14	UMCf	96.8 - 106.5	2,060,000	5,160 J+	468,000	----	----	----	----	----
U4-MW-07D	11/16/2023	N	EM15	UMCf	96.8 - 106.5	1,910,000	11,300	407,000 J	----	----	----	----	----
U4-MW-07D	12/12/2023	N	EM16	UMCf	96.8 - 106.5	1,580,000	<48.0	330,000	130 J	<5.15	33.2	298	<0.330
U4-MW-07D	1/26/2024	N	EM17	UMCf	96.8 - 106.5	1,450,000	2,100 J+	354,000	----	----	----	----	----
U4-MW-07D	2/13/2024	N	EM18	UMCf	96.8 - 106.5	1,370,000	<4,800	344,000 J	----	----	----	----	----
U4-MW-07D	3/11/2024	N	EM19	UMCf	96.8 - 106.5	1,900,000	<480 UJ	399,000	469	<5.15	44.8	593	<0.330
U4-MW-07D	6/12/2024	N	EM20	UMCf	96.8 - 106.5	1,940,000	<480	668,000	139 J	<5.15	30.7	949	<0.330
U4-MW-07I	4/15/2022	N	BL02	UMCf	76.8 - 86.8	463,000	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	----	----	----	----	----	----
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	249,000	2,010	253,000	<56.1	<1.03	7.70	32.6	<0.330
U4-MW-07I	4/21/2023	N	EM08	UMCf	76.8 - 86.8	662,000	<480	379,000	----	----	----	----	----

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	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
						Chloride	Nitrate (as N)	Sulfate	Aluminum	Antimony	Arsenic	Barium	Beryllium
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-07I	5/11/2023	N	EM09	UMCf	76.8 - 86.8	591,000	74.4 J	302,000	----	----	----	----	----
U4-MW-07I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	788,000	<48.0 UJ	212,000	<56.1	<1.03	76.2	256	<0.330
U4-MW-07I	7/17/2023	N	EM11	UMCf	76.8 - 86.8	1,570,000	<240	537,000	----	----	----	----	----
U4-MW-07I	8/11/2023	N	EM12	UMCf	76.8 - 86.8	1,480,000	412 J	392,000	----	----	----	----	----
U4-MW-07I	9/13/2023	N	EM13	UMCf	76.8 - 86.8	1,800,000	<240	366,000	<56.1	<5.15	91.6	167	1.39 J
U4-MW-07I	10/18/2023	N	EM14	UMCf	76.8 - 86.8	1,560,000	1,070 J+	293,000	----	----	----	----	----
U4-MW-07I	11/16/2023	N	EM15	UMCf	76.8 - 86.8	1,730,000	1,430	273,000	----	----	----	----	----
U4-MW-07I	12/11/2023	N	EM16	UMCf	76.8 - 86.8	1,800,000	<48.0 UJ	344,000	<56.1	<5.15	52.8	352	<0.330
U4-MW-07I	1/26/2024	N	EM17	UMCf	76.8 - 86.8	1,750,000	2,000 J+	417,000	----	----	----	----	----
U4-MW-07I	2/13/2024	N	EM18	UMCf	76.8 - 86.8	2,800,000	<4,800	661,000	----	----	----	----	----
U4-MW-07I	3/11/2024	N	EM19	UMCf	76.8 - 86.8	2,190,000	<480 UJ	518,000	61.1 J	<5.15	49.7	501	<0.330
U4-MW-07I	6/12/2024	N	EM20	UMCf	76.8 - 86.8	2,660,000	<480	447,000	<56.1	<5.15	57.6	357	<0.330
U4-MW-08D	4/13/2022	N	BL02	UMCf	98.6 - 108.6	4,960,000	71,400	1,130,000	<280	<10.3	10.8 J	144	<1.65
U4-MW-08D	12/7/2022	N	EM04	UMCf	98.6 - 108.6	2,730,000	26,500	603,000	<92.5	<5.15	8.66 J	81.9 J+	<0.950
U4-MW-08D	3/17/2023	N	EM07	UMCf	98.6 - 108.6	2,780,000	27,700 J-	421,000 J	<56.1	<5.15	17.0	131	<0.330
U4-MW-08D	6/13/2023	N	EM10	UMCf	98.6 - 108.6	3,330,000	21,700	486,000 J	102 J	<10.3	15.1 J	147	<0.330
U4-MW-08D	9/13/2023	N	EM13	UMCf	98.6 - 108.6	4,010,000	53,800	860,000	<56.1	<10.3	10.1 J	122	5.16
U4-MW-08D	12/11/2023	N	EM16	UMCf	98.6 - 108.6	3,840,000	46,100 J	679,000	<56.1	<10.3	12.2 J	110	<0.330
U4-MW-08D	3/12/2024	N	EM19	UMCf	98.6 - 108.6	3,400,000	28,300	584,000	<56.1	<10.3	17.1 J	116	<0.330
U4-MW-08D	6/14/2024	N	EM20	UMCf	98.6 - 108.6	4,580,000	59,400	850,000	<280	<1.03	<0.180	129	<1.65
U4-MW-08DD	4/20/2022	N	BL02	UMCf	119.8 - 129.8	213,000	1,520	210,000	<56.1	<1.03	10.9	19.0	<0.330
U4-MW-08DD	4/20/2022	FD	BL02	UMCf	119.8 - 129.8	227,000	1,610	230,000	<56.1	<1.03	11.1	19.2	<0.330
U4-MW-08DD	12/8/2022	N	EM04	UMCf	119.8 - 129.8	175,000	282	179,000	<18.5	1.33 J	10.8	21.3	<0.190
U4-MW-08DD	3/15/2023	N	EM07	UMCf	119.8 - 129.8	406,000	1,360	163,000	<56.1	<1.03	6.32	90.8	<0.330
U4-MW-08DD	6/14/2023	N	EM10	UMCf	119.8 - 129.8	368,000	691 J-	163,000	<56.1	<1.03	6.79	78.6	1.14 J
U4-MW-08DD	9/14/2023	N	EM13	UMCf	119.8 - 129.8	262,000	1,390	160,000	<56.1	<1.03	6.97	43.8	<0.330
U4-MW-08DD	12/14/2023	N	EM16	UMCf	119.8 - 129.8	255,000	1,540	167,000	<56.1	<1.03	7.43	46.1	<0.330
U4-MW-08DD	3/14/2024	N	EM19	UMCf	119.8 - 129.8	231,000	1,640 J-	167,000	<56.1	<1.03	7.49	37.8	<0.330
U4-MW-08DD	6/12/2024	N	EM20	UMCf	119.8 - 129.8	228,000	1,230	162,000	<56.1	<1.03	7.24	34.5	<0.330
U4-MW-08I	4/13/2022	N	BL02	UMCf	78.0 - 88.0	768,000	7,610	1,160,000	92.7 J	<1.03	43.1	20.6	<0.330
U4-MW-08I	12/7/2022	N	EM04	UMCf	78.0 - 88.0	1,660,000	19,200	941,000	<92.5	<5.15	37.2	51.8 J+	<0.950
U4-MW-08I	12/7/2022	FD	EM04	UMCf	78.0 - 88.0	1,530,000	17,000	948,000	<92.5	<5.15	37.3	49.4 J+	<0.950
U4-MW-08I	3/17/2023	N	EM07	UMCf	78.0 - 88.0	2,290,000	26,700 J-	796,000	<56.1	<5.15	28.5	87.0	<0.330
U4-MW-08I	6/13/2023	N	EM10	UMCf	78.0 - 88.0	968,000	946 J	702,000	<56.1	<10.3	39.7	26.7	<0.330
U4-MW-08I	9/13/2023	N	EM13	UMCf	78.0 - 88.0	1,990,000	13,300 J-	710,000	68.2 J	<5.15	45.6	62.2	2.30
U4-MW-08I	12/11/2023	N	EM16	UMCf	78.0 - 88.0	2,760,000	20,300 J	561,000	128 J	<10.3	63.3	93.0	<0.330
U4-MW-08I	3/12/2024	N	EM19	UMCf	78.0 - 88.0	2,840,000	16,800	654,000	<56.1	<10.3	59.4	106	<0.330
U4-MW-08I	6/14/2024	N	EM20	UMCf	78.0 - 88.0	2,520,000	<48.0 R	639,000	<56.1	<10.3	52.7 J+	85.6	<0.330
U4-MW-08S	4/15/2022	N	BL02	UMCf	54.9 - 64.9	227,000	3,430	1,280,000	<56.1	<1.03	14.5	25.0	<0.330
U4-MW-08S	12/7/2022	N	EM04	UMCf	54.9 - 64.9	222,000	1,410	1,050,000	<18.5	<1.03	77.3	20.0	<0.190
U4-MW-08S	12/7/2022	FD	EM04	UMCf	54.9 - 64.9	217,000	1,460	1,070,000	<18.5	<1.03	76.3	19.4	<0.190
U4-MW-08S	3/13/2023	N	EM07	UMCf	54.9 - 64.9	192,000	<48.0	297,000	63.0 J	<1.03	43.0	184	<0.330
U4-MW-08S	3/13/2023	FD	EM07	UMCf	54.9 - 64.9	187,000	<48.0	250,000	<56.1	<1.03	42.3	174	<0.330

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	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
						Chloride	Nitrate (as N)	Sulfate	Aluminum	Antimony	Arsenic	Barium	Beryllium
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-08S	6/13/2023	N	EM10	UMCf	54.9 - 64.9	189,000	<480	18,800 J	<56.1	<1.03	68.1 J	324	<0.330
U4-MW-08S	6/13/2023	FD	EM10	UMCf	54.9 - 64.9	187,000	<480	2,640 J	<56.1	<1.03	35.7 J	323	<0.330
U4-MW-08S	9/13/2023	N	EM13	UMCf	54.9 - 64.9	195,000	57.9 J	1,540 J	<56.1	<1.03	31.4	335	0.836 J
U4-MW-08S	9/13/2023	FD	EM13	UMCf	54.9 - 64.9	196,000	50.7 J	1,780 J	<56.1	<10.3	41.3	335	0.893 J
U4-MW-08S	12/14/2023	N	EM16	UMCf	54.9 - 64.9	182,000	667 J	11,900 J	<56.1	<1.03	70.8	787	<0.330
U4-MW-08S	12/14/2023	FD	EM16	UMCf	54.9 - 64.9	183,000	<480	8,860 J	<56.1	<1.03	70.8	793	<0.330
U4-MW-08S	3/14/2024	N	EM19	UMCf	54.9 - 64.9	201,000	<480 UJ	<5,940	<56.1	1.05 J	67.0	655	<0.330
U4-MW-08S	3/14/2024	FD	EM19	UMCf	54.9 - 64.9	199,000	<480 UJ	<5,940	<56.1	<1.03	59.9	631	<0.330
U4-MW-08S	3/25/2024	N	EM19	UMCf	54.9 - 64.9	251,000	<48.0	90,700	<56.1	<1.03	71.6	532	<0.330
U4-MW-08S	3/25/2024	FD	EM19	UMCf	54.9 - 64.9	251,000	<48.0	91,100	<56.1	<1.03	72.4	520	<0.330
U4-MW-08S	6/14/2024	N	EM20	UMCf	54.9 - 64.9	207,000	<48.0	<594 UJ	<56.1	<1.03	28.3 J+	536	<0.330
U4-MW-08S	6/14/2024	FD	EM20	UMCf	54.9 - 64.9	209,000	<48.0	10,000 J	<56.1	<1.03	28.4 J+	556	<0.330
U4-MW-09D	4/14/2022	N	BL02	UMCf	96.9 - 106.9	3,270,000	43,200	877,000	<56.1	<10.3	7.44 J	14.2	<0.330
U4-MW-09D	12/6/2022	N	EM04	UMCf	96.9 - 106.9	439,000	<4800 UJ	274,000 J	<18.5 UJ	<1.03 UJ	33.5	50.7	<0.190 UJ
U4-MW-09D	3/16/2023	N	EM07	UMCf	96.9 - 106.9	909,000	756 J	200,000	59.0 J	<1.03	25.6	152	<0.330
U4-MW-09D	6/14/2023	N	EM10	UMCf	96.9 - 106.9	865,000	2,090 J-	123,000	<56.1	<1.03	69.6	151	<0.330
U4-MW-09D	9/12/2023	N	EM13	UMCf	96.9 - 106.9	1,410,000	1,540	129,000	<56.1	8.48	28.8	457	<0.330
U4-MW-09D	12/15/2023	N	EM16	UMCf	96.9 - 106.9	1,790,000	<48.0	187,000	<56.1	1.11 J	21.1	577	<0.330
U4-MW-09D	3/13/2024	N	EM19	UMCf	96.9 - 106.9	1,720,000	<480	138,000	66.9 J	<5.15	30.2	505	<0.330
U4-MW-09D	6/13/2024	N	EM20	UMCf	96.9 - 106.9	2,230,000	835 J	157,000 J+	<56.1	19.7	22.5	606	<0.330
U4-MW-09DD	4/14/2022	N	BL02	UMCf	119.8 - 129.8	172,000	1,060	178,000	<56.1	<1.03	10.2	27.6	<0.330
U4-MW-09DD	12/6/2022	N	EM04	UMCf	119.8 - 129.8	159,000	963	179,000	<18.5 UJ	<1.03 UJ	11.7	28.5	<0.190 UJ
U4-MW-09DD	3/21/2023	N	EM07	UMCf	119.8 - 129.8	257,000	1,770	151,000	<56.1	<1.03	9.50	65.3	<0.330
U4-MW-09DD	6/15/2023	N	EM10	UMCf	119.8 - 129.8	245,000	1,520	148,000	<56.1	<1.03	7.53	64.8	<0.330
U4-MW-09DD	9/13/2023	N	EM13	UMCf	119.8 - 129.8	508,000	<48.0	106,000	<56.1	<1.03	6.26	188	1.25 J
U4-MW-09DD	12/13/2023	N	EM16	UMCf	119.8 - 129.8	500,000	117	116,000	<56.1	<1.03	4.56	236	<0.330
U4-MW-09DD	3/14/2024	N	EM19	UMCf	119.8 - 129.8	673,000	<48.0 UJ	119,000	<56.1	<1.03	8.24	308	<0.330
U4-MW-09DD	6/13/2024	N	EM20	UMCf	119.8 - 129.8	736,000	599 J	83,300 J+	<56.1	<1.03	28.3	514	<0.330
U4-MW-09I	4/14/2022	N	BL02	UMCf	76.8 - 86.8	242,000	3,120	1,100,000	<56.1	<1.03	24.8	16.6	<0.330
U4-MW-09I	12/6/2022	N	EM04	UMCf	76.8 - 86.8	715,000	7,720 J	431,000 J	<92.5 UJ	<5.15 UJ	20.0	44.2	<0.950 UJ
U4-MW-09I	3/16/2023	N	EM07	UMCf	76.8 - 86.8	946,000	2,140	292,000	<56.1	<1.03	25.5	89.2	<0.330
U4-MW-09I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	1,100,000	1,280 J-	202,000	<56.1	1.05 J	33.0	107	<0.330
U4-MW-09I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	1,430,000	1,620	183,000	<56.1	1.58 J	30.1	281	<0.330
U4-MW-09I	12/15/2023	N	EM16	UMCf	76.8 - 86.8	1,880,000	<48.0	237,000	<56.1	2.89 J	33.3	336	<0.330
U4-MW-09I	3/13/2024	N	EM19	UMCf	76.8 - 86.8	1,930,000	<480	190,000	<56.1	11.1 J	33.0	330	<0.330
U4-MW-09I	6/13/2024	N	EM20	UMCf	76.8 - 86.8	2,010,000	5,880 J	304,000 J	<56.1	9.91	36.3	274	<0.330
U4-MW-09S	4/14/2022	N	BL02	UMCf	55.3 - 65.3	182,000	2,260	964,000	<56.1	<1.03	46.2	17.5	<0.330
U4-MW-09S	12/6/2022	N	EM04	UMCf	55.3 - 65.3	256,000	3,360	1,020,000	<18.5 UJ	<1.03 UJ	56.2	10.2	<0.190 UJ
U4-MW-09S	3/17/2023	N	EM07	UMCf	55.3 - 65.3	373,000	1,820	822,000	<56.1	<1.03	46.3	17.1	<0.330
U4-MW-09S	6/15/2023	N	EM10	UMCf	55.3 - 65.3	161,000	<48.0	26,900	<56.1	<1.03	113	88.3	<0.330
U4-MW-09S	9/13/2023	N	EM13	UMCf	55.3 - 65.3	163,000	<48.0	3,600 J	<56.1	<10.3	123	402	0.397 J
U4-MW-09S	12/12/2023	N	EM16	UMCf	55.3 - 65.3	948,000	<480	521,000	117 J	<5.15	114	572	<0.330
U4-MW-09S	3/13/2024	N	EM19	UMCf	55.3 - 65.3	1,150,000	<4,800	<59,400	<56.1	<5.15	135	406	<0.330

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	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
						Chloride	Nitrate (as N)	Sulfate	Aluminum	Antimony	Arsenic	Barium	Beryllium
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-09S	6/13/2024	N	EM20	UMCf	55.3 - 65.3	921,000	<480 UJ	8,730 J	<56.1	1.69 J	130	302	<0.330
U4-MW-10D	4/14/2022	N	BL02	UMCf	96.9 - 106.9	706,000	4,090	340,000	<56.1	<1.03	8.78	58.7	<0.330
U4-MW-10D	12/5/2022	N	EM04	UMCf	96.9 - 106.9	383,000	1,720	180,000	<56.1	<1.03	7.91	106	<0.330
U4-MW-10D	3/17/2023	N	EM07	UMCf	96.9 - 106.9	478,000	<48.0	74,500	<56.1	<1.03	33.0	413	<0.330
U4-MW-10D	6/14/2023	N	EM10	UMCf	96.9 - 106.9	453,000	<48.0 UJ	2,780 J	<56.1	<1.03	49.8	1,010	<0.330
U4-MW-10D	9/13/2023	N	EM13	UMCf	96.9 - 106.9	760,000	<48.0	174,000	<56.1	1.36 J	11.2	783	1.31 J
U4-MW-10D	12/14/2023	N	EM16	UMCf	96.9 - 106.9	565,000	<48.0	97,400	2,250	<1.03	20.6	416	<0.330
U4-MW-10D	3/14/2024	N	EM19	UMCf	96.9 - 106.9	519,000	<48.0 UJ	80,200	<56.1	<1.03	29.1	339	<0.330
U4-MW-10D	6/11/2024	N	EM20	UMCf	96.9 - 106.9	515,000	<4,800	232,000 J	<56.1	<1.03	22.5	268	<0.330
U4-MW-10I	4/14/2022	N	BL02	UMCf	77.1 - 87.1	936,000	8,520	1,300,000	<56.1	<1.03	12.6	35.2	<0.330
U4-MW-10I	12/5/2022	N	EM04	UMCf	77.1 - 87.1	219,000	1,200	1,180,000	<56.1	<1.03	42.8	13.3	<0.330
U4-MW-10I	3/17/2023	N	EM07	UMCf	77.1 - 87.1	897,000	94.2 J	295,000	<56.1	<1.03	37.7	187	<0.330
U4-MW-10I	6/14/2023	N	EM10	UMCf	77.1 - 87.1	262,000	352 J	5,490	<56.1	<1.03	19.4	697	<0.330
U4-MW-10I	9/13/2023	N	EM13	UMCf	77.1 - 87.1	686,000	<48.0	273,000	<56.1	<1.03	37.4	897	1.54 J
U4-MW-10I	12/14/2023	N	EM16	UMCf	77.1 - 87.1	1,210,000	9,420	285,000	67.7 J	5.94 J	21.4	438	<0.330
U4-MW-10I	3/13/2024	N	EM19	UMCf	77.1 - 87.1	1,620,000	21,300	377,000 J	<56.1	<5.15	17.4	282	<0.330
U4-MW-10I	6/11/2024	N	EM20	UMCf	77.1 - 87.1	415,000	<4,800	1,000,000	<56.1	<1.03	13.6	64.9	<0.330
U4-MW-11D	4/15/2022	N	BL02	UMCf	97.4 - 107.4	4,040,000	62,300	880,000	<280	<10.3	6.16 J	151	<1.65
U4-MW-11D	9/26/2022	N	EM01	UMCf	97.4 - 107.4	3,720,000	47,900	751,000	----	----	----	----	----
U4-MW-11D	10/11/2022	N	EM02	UMCf	97.4 - 107.4	4,260,000	55,600	886,000	----	----	----	----	----
U4-MW-11D	11/1/2022	N	EM03	UMCf	97.4 - 107.4	3,850,000	51,800	768,000	----	----	----	----	----
U4-MW-11D	12/6/2022	N	EM04	UMCf	97.4 - 107.4	1,750,000	14,700	482,000 J	<1850 UJ	<103 UJ	<18.0 UJ	107 J	<19.0 UJ
U4-MW-11D	1/12/2023	N	EM05	UMCf	97.4 - 107.4	3,940,000	41,000	740,000	----	----	----	----	----
U4-MW-11D	2/14/2023	N	EM06	UMCf	97.4 - 107.4	3,660,000	47,200	746,000	----	----	----	----	----
U4-MW-11D	3/16/2023	N	EM07	UMCf	97.4 - 107.4	3,030,000	29,700	603,000	94.7 J	<5.15	14.6	133	<0.330
U4-MW-11D	4/18/2023	N	EM08	UMCf	97.4 - 107.4	2,330,000	27,400	448,000 J	----	----	----	----	----
U4-MW-11D	5/17/2023	N	EM09	UMCf	97.4 - 107.4	2,610,000	27,200	664,000	----	----	----	----	----
U4-MW-11D	6/16/2023	N	EM10	UMCf	97.4 - 107.4	3,420,000	27,700 J-	657,000	<56.1	<5.15	11.2 J+	131	0.381 J
U4-MW-11D	7/14/2023	N	EM11	UMCf	97.4 - 107.4	2,850,000 J+	24,600 J-	524,000	----	----	----	----	----
U4-MW-11D	8/14/2023	N	EM12	UMCf	97.4 - 107.4	3,270,000	<480 R	662,000	----	----	----	----	----
U4-MW-11D	9/13/2023	N	EM13	UMCf	97.4 - 107.4	3,240,000	13,500	637,000	<56.1	<5.15	10.6	110	4.28
U4-MW-11D	10/18/2023	N	EM14	UMCf	97.4 - 107.4	3,050,000	18,700	586,000	----	----	----	----	----
U4-MW-11D	11/16/2023	N	EM15	UMCf	97.4 - 107.4	3,050,000	17,400 J-	503,000	----	----	----	----	----
U4-MW-11D	12/13/2023	N	EM16	UMCf	97.4 - 107.4	3,500,000	17,500	635,000	62.1 J	<20.6	15.7 J	114	<0.330
U4-MW-11D	1/25/2024	N	EM17	UMCf	97.4 - 107.4	2,790,000	18,000	460,000 J	----	----	----	----	----
U4-MW-11D	2/14/2024	N	EM18	UMCf	97.4 - 107.4	3,220,000	16,000	583,000	----	----	----	----	----
U4-MW-11D	3/12/2024	N	EM19	UMCf	97.4 - 107.4	3,050,000	17,700	561,000	<56.1	<10.3	15.0 J	113	<0.330
U4-MW-11D	6/12/2024	N	EM20	UMCf	97.4 - 107.4	3,470,000	24,600	550,000	<56.1	<10.3	10.7 J	138	<0.330
U4-MW-11I	4/14/2022	N	BL02	UMCf	77.0 - 87.0	512,000	7,100	1,080,000	<56.1	<1.03	17.5	24.6	<0.330
U4-MW-11I	9/26/2022	N	EM01	UMCf	77.0 - 87.0	328,000	<48.0	694,000	----	----	----	----	----
U4-MW-11I	9/26/2022	FD	EM01	UMCf	77.0 - 87.0	328,000	<48.0	694,000	----	----	----	----	----
U4-MW-11I	10/10/2022	N	EM02	UMCf	77.0 - 87.0	363,000	<48.0	508,000	----	----	----	----	----
U4-MW-11I	10/10/2022	FD	EM02	UMCf	77.0 - 87.0	362,000	<48.0	509,000	----	----	----	----	----

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	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
						Chloride	Nitrate (as N)	Sulfate	Aluminum	Antimony	Arsenic	Barium	Beryllium
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-11I	10/31/2022	N	EM03	UMCf	77.0 - 87.0	321,000	<48.0	273,000	----	----	----	----	----
U4-MW-11I	10/31/2022	FD	EM03	UMCf	77.0 - 87.0	316,000	<48.0	244,000	----	----	----	----	----
U4-MW-11I	12/6/2022	N	EM04	UMCf	77.0 - 87.0	386,000	<48.0 UJ	27,000 J	<18.5 UJ	5.80	112	459	<0.190 UJ
U4-MW-11I	12/6/2022	FD	EM04	UMCf	77.0 - 87.0	371,000	<48.0 UJ	42,600 J	<18.5 UJ	3.56 J	96.5	463	<0.190 UJ
U4-MW-11I	1/12/2023	N	EM05	UMCf	77.0 - 87.0	346,000	50.1 J	74,100	----	----	----	----	----
U4-MW-11I	1/12/2023	FD	EM05	UMCf	77.0 - 87.0	338,000	54.5 J	72,600	----	----	----	----	----
U4-MW-11I	2/14/2023	N	EM06	UMCf	77.0 - 87.0	1,000,000	7,230	160,000	----	----	----	----	----
U4-MW-11I	2/14/2023	FD	EM06	UMCf	77.0 - 87.0	1,090,000	8,170	185,000	----	----	----	----	----
U4-MW-11I	3/16/2023	N	EM07	UMCf	77.0 - 87.0	298,000	<48.0	979 J	<56.1	2.20 J	63.1	554 J	<0.330
U4-MW-11I	3/16/2023	FD	EM07	UMCf	77.0 - 87.0	292,000	<48.0	1,060 J	91.7 J	1.97 J	59.2	375 J	<0.330
U4-MW-11I	4/18/2023	N	EM08	UMCf	77.0 - 87.0	267,000	<48.0	17,300	----	----	----	----	----
U4-MW-11I	4/18/2023	FD	EM08	UMCf	77.0 - 87.0	282,000	<48.0	19,700	----	----	----	----	----
U4-MW-11I	5/19/2023	N	EM09	UMCf	77.0 - 87.0	262,000	<48.0	7,200	----	----	----	----	----
U4-MW-11I	5/19/2023	FD	EM09	UMCf	77.0 - 87.0	263,000	<48.0	7,860	----	----	----	----	----
U4-MW-11I	6/15/2023	N	EM10	UMCf	77.0 - 87.0	190,000	<48.0	53,500	<56.1	<1.03	53.5	449	<0.330
U4-MW-11I	6/15/2023	FD	EM10	UMCf	77.0 - 87.0	190,000	<48.0	52,200	<56.1	<1.03	51.0	445	<0.330
U4-MW-11I	7/13/2023	N	EM11	UMCf	77.0 - 87.0	227,000	<48.0	22,600	----	----	----	----	----
U4-MW-11I	7/13/2023	FD	EM11	UMCf	77.0 - 87.0	225,000	<48.0	22,500	----	----	----	----	----
U4-MW-11I	8/14/2023	N	EM12	UMCf	77.0 - 87.0	2,000,000	5,850	1,290,000	----	----	----	----	----
U4-MW-11I	8/14/2023	FD	EM12	UMCf	77.0 - 87.0	1,970,000	3,190	1,280,000	----	----	----	----	----
U4-MW-11I	9/13/2023	N	EM13	UMCf	77.0 - 87.0	2,030,000	5,990	1,070,000	<56.1	<5.15	8.23 J	195	2.76
U4-MW-11I	9/13/2023	FD	EM13	UMCf	77.0 - 87.0	2,110,000	6,440	1,110,000	<56.1	<5.15	7.62 J	203	2.87
U4-MW-11I	10/19/2023	N	EM14	UMCf	77.0 - 87.0	2,600,000	1,500	632,000	----	----	----	----	----
U4-MW-11I	10/19/2023	FD	EM14	UMCf	77.0 - 87.0	2,600,000	1,390	633,000	----	----	----	----	----
U4-MW-11I	11/16/2023	N	EM15	UMCf	77.0 - 87.0	2,200,000 J	6,720 J	456,000 J	----	----	----	----	----
U4-MW-11I	11/16/2023	FD	EM15	UMCf	77.0 - 87.0	21,300 J	62.8 J	4,460 J	----	----	----	----	----
U4-MW-11I	12/13/2023	N	EM16	UMCf	77.0 - 87.0	1,880,000	4,920 J	417,000 J	<56.1	25.5 J	11.5 J	246	<0.330
U4-MW-11I	12/13/2023	FD	EM16	UMCf	77.0 - 87.0	2,030,000	5,090 J	422,000 J	<56.1	22.5 J	12.1 J	247	<0.330
U4-MW-11I	1/25/2024	N	EM17	UMCf	77.0 - 87.0	1,960,000	9,350 J	378,000 J	----	----	----	----	----
U4-MW-11I	1/25/2024	FD	EM17	UMCf	77.0 - 87.0	2,300,000	9,860 J	448,000 J	----	----	----	----	----
U4-MW-11I	2/14/2024	N	EM18	UMCf	77.0 - 87.0	2,280,000	6,930	484,000	----	----	----	----	----
U4-MW-11I	2/14/2024	FD	EM18	UMCf	77.0 - 87.0	2,370,000	2,210	491,000	----	----	----	----	----
U4-MW-11I	3/13/2024	N	EM19	UMCf	77.0 - 87.0	2,400,000	6,470 J-	480,000	84.0 J	19.1 J	8.16 J	283	<0.330
U4-MW-11I	3/13/2024	FD	EM19	UMCf	77.0 - 87.0	2,450,000	6,570	481,000	107 J	20.0	7.78 J	284	<0.330
U4-MW-11I	6/12/2024	N	EM20	UMCf	77.0 - 87.0	2,310,000	8,760 J	560,000	<56.1	11.9 J	7.20 J	244	<0.330
U4-MW-11I	6/12/2024	FD	EM20	UMCf	77.0 - 87.0	2,300,000	8,460 J	563,000	<56.1	<10.3	7.57 J	237	<0.330
U4-MW-12D	4/15/2022	N	BL02	UMCf	97.1 - 107.1	3,380,000	61,000	1,130,000	115 J	<10.3	6.66 J	115	<0.330
U4-MW-12D	9/27/2022	N	EM01	UMCf	97.1 - 107.1	2,080,000	29,800	696,000	----	----	----	----	----
U4-MW-12D	10/12/2022	N	EM02	UMCf	97.1 - 107.1	2,150,000	32,400	846,000	----	----	----	----	----
U4-MW-12D	11/2/2022	N	EM03	UMCf	97.1 - 107.1	2,060,000	28,700	842,000	----	----	----	----	----
U4-MW-12D	12/7/2022	N	EM04	UMCf	97.1 - 107.1	2,010,000	22,700	818,000	<92.5	<5.15	14.8	64.9 J+	<0.950
U4-MW-12D	1/12/2023	N	EM05	UMCf	97.1 - 107.1	1,900,000	21,600	624,000	----	----	----	----	----
U4-MW-12D	2/15/2023	N	EM06	UMCf	97.1 - 107.1	1,840,000	21,700	537,000	----	----	----	----	----

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	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
						Chloride	Nitrate (as N)	Sulfate	Aluminum	Antimony	Arsenic	Barium	Beryllium
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-12D	3/14/2023	N	EM07	UMCf	97.1 - 107.1	1,610,000	10,100	468,000	<56.1	<5.15	15.0	98.4	<0.330
U4-MW-12D	4/17/2023	N	EM08	UMCf	97.1 - 107.1	1,970,000	19,500	714,000	----	----	----	----	----
U4-MW-12D	5/17/2023	N	EM09	UMCf	97.1 - 107.1	2,110,000	30,700	907,000	----	----	----	----	----
U4-MW-12D	6/16/2023	N	EM10	UMCf	97.1 - 107.1	1,840,000	16,500 J-	506,000	93.0 J	<5.15	9.72 J	97.4	<0.330
U4-MW-12D	7/13/2023	N	EM11	UMCf	97.1 - 107.1	1,170,000	8,640	276,000	----	----	----	----	----
U4-MW-12D	8/14/2023	N	EM12	UMCf	97.1 - 107.1	1,220,000	<240 UJ	279,000	----	----	----	----	----
U4-MW-12D	9/12/2023	N	EM13	UMCf	97.1 - 107.1	1,180,000	9,300 J	269,000 J	<56.1	1.14 J	8.71	96.9	<0.330
U4-MW-12D	10/17/2023	N	EM14	UMCf	97.1 - 107.1	1,320,000	1,680 J-	252,000	----	----	----	----	----
U4-MW-12D	11/15/2023	N	EM15	UMCf	97.1 - 107.1	1,370,000	1,710 J-	234,000 J	----	----	----	----	----
U4-MW-12D	12/12/2023	N	EM16	UMCf	97.1 - 107.1	1,300,000	<48.0	212,000 J+	<56.1	<5.15	18.1	127	<0.330
U4-MW-12D	1/24/2024	N	EM17	UMCf	97.1 - 107.1	1,460,000	1,850	179,000	----	----	----	----	----
U4-MW-12D	2/13/2024	N	EM18	UMCf	97.1 - 107.1	1,390,000	<4,800	174,000 J	----	----	----	----	----
U4-MW-12D	3/12/2024	N	EM19	UMCf	97.1 - 107.1	1,560,000	2,390	154,000	<56.1	31.9	30.6	360	<0.330
U4-MW-12D	6/12/2024	N	EM20	UMCf	97.1 - 107.1	2,090,000	<4,800	276,000	<56.1	15.6 J	15.8	255	<0.330
U4-MW-12I	4/14/2022	N	BL02	UMCf	76.8 - 86.8	967,000	7,700	1,230,000	<56.1	3.92 J	14.6	48.2	<0.330
U4-MW-12I	4/14/2022	FD	BL02	UMCf	76.8 - 86.8	968,000	8,310	1,220,000	61.1 J	1.29 J	12.6	47.3	<0.330
U4-MW-12I	9/27/2022	N	EM01	UMCf	76.8 - 86.8	278,000	2,190	1,080,000	----	----	----	----	----
U4-MW-12I	10/12/2022	N	EM02	UMCf	76.8 - 86.8	280,000	535	1,030,000	----	----	----	----	----
U4-MW-12I	11/2/2022	N	EM03	UMCf	76.8 - 86.8	283,000	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
U4-MW-12I	12/7/2022	FD	EM04	UMCf	76.8 - 86.8	----	----	----	21.6 J	1.26 J	108	20.7	<0.190
U4-MW-12I	1/13/2023	N	EM05	UMCf	76.8 - 86.8	197,000	83.5 J	44,500	----	----	----	----	----
U4-MW-12I	2/15/2023	N	EM06	UMCf	76.8 - 86.8	169,000	99.2 J	24,700	----	----	----	----	----
U4-MW-12I	3/13/2023	N	EM07	UMCf	76.8 - 86.8	151,000	<48.0	3,350 J	<56.1	<1.03	47.2	439	<0.330
U4-MW-12I	4/17/2023	N	EM08	UMCf	76.8 - 86.8	152,000	48.0 J	1,600 J	----	----	----	----	----
U4-MW-12I	5/17/2023	N	EM09	UMCf	76.8 - 86.8	143,000	<48.0	894 J	----	----	----	----	----
U4-MW-12I	6/16/2023	N	EM10	UMCf	76.8 - 86.8	144,000 J-	<48.0 UJ	1,770 J	<56.1	<1.03	46.5	564	<0.330
U4-MW-12I	7/11/2023	N	EM11	UMCf	76.8 - 86.8	157,000	56.8 J	9,270	----	----	----	----	----
U4-MW-12I	8/14/2023	N	EM12	UMCf	76.8 - 86.8	1,170,000	4,190	616,000	----	----	----	----	----
U4-MW-12I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	610,000	395	348,000	<56.1	1.45 J	5.09	99.2	<0.330
U4-MW-12I	10/17/2023	N	EM14	UMCf	76.8 - 86.8	234,000	<48.0 R	9,860	----	----	----	----	----
U4-MW-12I	11/16/2023	N	EM15	UMCf	76.8 - 86.8	1,020,000	<480	277,000	----	----	----	----	----
U4-MW-12I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	1,420,000	<48.0 UJ	280,000	<56.1	<5.15	7.98 J	383	<0.330
U4-MW-12I	1/24/2024	N	EM17	UMCf	76.8 - 86.8	1,560,000	716 J	241,000	----	----	----	----	----
U4-MW-12I	2/13/2024	N	EM18	UMCf	76.8 - 86.8	1,350,000	<4,800	211,000 J	----	----	----	----	----
U4-MW-12I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	1,630,000	<48.0 R	392,000 J	<56.1	3.76 J	11.5	333	<0.330
U4-MW-12I	6/13/2024	N	EM20	UMCf	76.8 - 86.8	1,500,000	<48.0 R	493,000	<56.1	9.64	10.5	316	<0.330
U4-MW-13D	4/14/2022	N	BL02	UMCf	98.2 - 108.2	3,130,000	60,700	662,000	375 J	<10.3	5.43 J	173	<1.65
U4-MW-13D	9/28/2022	N	EM01	UMCf	98.2 - 108.2	1,330,000	10,900	336,000 J	----	----	----	----	----
U4-MW-13D	10/11/2022	N	EM02	UMCf	98.2 - 108.2	1,400,000	6,780 J	379,000 J	----	----	----	----	----
U4-MW-13D	11/3/2022	N	EM03	UMCf	98.2 - 108.2	1,300,000	6,960	295,000	----	----	----	----	----
U4-MW-13D	12/7/2022	N	EM04	UMCf	98.2 - 108.2	1,190,000	9,910 J	288,000 J	<92.5	<5.15	7.37 J	100	<0.950
U4-MW-13D	1/12/2023	N	EM05	UMCf	98.2 - 108.2	984,000	10,300	289,000 J	----	----	----	----	----

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	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
						Chloride	Nitrate (as N)	Sulfate	Aluminum	Antimony	Arsenic	Barium	Beryllium
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-13D	2/15/2023	N	EM06	UMCf	98.2 - 108.2	820,000	12,000	296,000 J	----	----	----	----	----
U4-MW-13D	3/17/2023	N	EM07	UMCf	98.2 - 108.2	699,000 J+	8,410 J	280,000 J	<56.1	<1.03	5.75	76.8	<0.330
U4-MW-13D	4/18/2023	N	EM08	UMCf	98.2 - 108.2	567,000	<4,800	241,000 J	----	----	----	----	----
U4-MW-13D	5/17/2023	N	EM09	UMCf	98.2 - 108.2	595,000	15,200 J-	259,000	----	----	----	----	----
U4-MW-13D	6/15/2023	N	EM10	UMCf	98.2 - 108.2	747,000	3,030	252,000	<56.1	<1.03	6.27	69.5	<0.330
U4-MW-13D	7/12/2023	N	EM11	UMCf	98.2 - 108.2	855,000	2,840	244,000	----	----	----	----	----
U4-MW-13D	8/11/2023	N	EM12	UMCf	98.2 - 108.2	876,000	5,230	241,000	----	----	----	----	----
U4-MW-13D	9/11/2023	N	EM13	UMCf	98.2 - 108.2	1,030,000	4,860	255,000	<56.1	<1.03	6.15	92.8	<0.330
U4-MW-13D	10/18/2023	N	EM14	UMCf	98.2 - 108.2	1,070,000	6,420	258,000	----	----	----	----	----
U4-MW-13D	11/15/2023	N	EM15	UMCf	98.2 - 108.2	1,070,000	6,180 J	230,000 J	----	----	----	----	----
U4-MW-13D	12/11/2023	N	EM16	UMCf	98.2 - 108.2	1,090,000	11,500 J	252,000 J	<56.1	<5.15	5.82 J	92.0	<0.330
U4-MW-13D	1/23/2024	N	EM17	UMCf	98.2 - 108.2	1,210,000	7,540	286,000	----	----	----	----	----
U4-MW-13D	2/12/2024	N	EM18	UMCf	98.2 - 108.2	1,220,000	7,890	280,000	----	----	----	----	----
U4-MW-13D	3/11/2024	N	EM19	UMCf	98.2 - 108.2	1,160,000	3,080 J-	234,000	<56.1	<5.15	6.40 J	93.4	<0.330
U4-MW-13D	6/13/2024	N	EM20	UMCf	98.2 - 108.2	1,430,000	<48.0	259,000	<56.1	<1.03	5.69	147	<0.330
U4-MW-13I	4/14/2022	N	BL02	UMCf	77.1 - 87.1	943,000	7,030	1,090,000	<56.1	<1.03	12.6	43.5	<0.330
U4-MW-13I	9/28/2022	N	EM01	UMCf	77.1 - 87.1	487,000	9,130 J	1,040,000	----	----	----	----	----
U4-MW-13I	10/10/2022	N	EM02	UMCf	77.1 - 87.1	441,000	5,560	1,060,000	----	----	----	----	----
U4-MW-13I	11/3/2022	N	EM03	UMCf	77.1 - 87.1	402,000	3,730	932,000	----	----	----	----	----
U4-MW-13I	12/6/2022	N	EM04	UMCf	77.1 - 87.1	467,000	<48.0 UJ	545,000	<18.5 UJ	2.00 J	79.2	19.6	<0.190 UJ
U4-MW-13I	1/12/2023	N	EM05	UMCf	77.1 - 87.1	447,000	360	433,000	----	----	----	----	----
U4-MW-13I	2/14/2023	N	EM06	UMCf	77.1 - 87.1	521,000	1,780	399,000	----	----	----	----	----
U4-MW-13I	3/16/2023	N	EM07	UMCf	77.1 - 87.1	341,000	<48.0	55,400	<56.1	1.14 J	74.9	239	<0.330
U4-MW-13I	4/19/2023	N	EM08	UMCf	77.1 - 87.1	287,000	<48.0	115,000	----	----	----	----	----
U4-MW-13I	5/17/2023	N	EM09	UMCf	77.1 - 87.1	234,000	<48.0	77,800	----	----	----	----	----
U4-MW-13I	6/15/2023	N	EM10	UMCf	77.1 - 87.1	225,000	<48.0	97,300	<56.1	6.01	73.1	395	<0.330
U4-MW-13I	7/12/2023	N	EM11	UMCf	77.1 - 87.1	229,000	135	90,200	----	----	----	----	----
U4-MW-13I	8/11/2023	N	EM12	UMCf	77.1 - 87.1	890,000	4,960 J+	340,000	----	----	----	----	----
U4-MW-13I	9/11/2023	N	EM13	UMCf	77.1 - 87.1	1,020,000	5,460	311,000	<56.1	3.62 J	20.6	127	<0.330
U4-MW-13I	10/17/2023	N	EM14	UMCf	77.1 - 87.1	1,090,000	5,720 J-	317,000	----	----	----	----	----
U4-MW-13I	11/15/2023	N	EM15	UMCf	77.1 - 87.1	1,150,000	7,940 J	333,000 J	----	----	----	----	----
U4-MW-13I	12/11/2023	N	EM16	UMCf	77.1 - 87.1	1,190,000	13,600 J	353,000 J	78.2 J	<5.15	14.7	113	<0.330
U4-MW-13I	1/23/2024	N	EM17	UMCf	77.1 - 87.1	1,390,000	11,200	442,000	----	----	----	----	----
U4-MW-13I	2/12/2024	N	EM18	UMCf	77.1 - 87.1	1,370,000	9,770	399,000	----	----	----	----	----
U4-MW-13I	3/11/2024	N	EM19	UMCf	77.1 - 87.1	1,380,000	<480 UJ	437,000	<56.1	11.6 J	19.0	116	<0.330
U4-MW-13I	6/13/2024	N	EM20	UMCf	77.1 - 87.1	1,410,000	<240	465,000	<56.1	14.6	17.5	119	<0.330
U4-MW-14D	4/13/2022	N	BL02	UMCf	97.3 - 107.3	349,000	729 J	2,560,000	<56.1	<1.03	21.3	33.5	<0.330
U4-MW-14D	12/6/2022	N	EM04	UMCf	97.3 - 107.3	432,000	3,700	946,000	20.6 J	<1.03 UJ	14.6	56.2	<0.190 UJ
U4-MW-14D	3/16/2023	N	EM07	UMCf	97.3 - 107.3	316,000	2,420	387,000	<56.1	<1.03	13.2	52.1	<0.330
U4-MW-14D	6/15/2023	N	EM10	UMCf	97.3 - 107.3	379,000	1,230	453,000	<56.1	<1.03	14.4	49.1	<0.330
U4-MW-14D	9/14/2023	N	EM13	UMCf	97.3 - 107.3	656,000	856	179,000	<56.1	<1.03	15.3	191	<0.330
U4-MW-14D	12/15/2023	N	EM16	UMCf	97.3 - 107.3	592,000	855	217,000	<56.1	<1.03	13.7	178	<0.330
U4-MW-14D	3/13/2024	N	EM19	UMCf	97.3 - 107.3	616,000	1,640	213,000	<56.1	<1.03	16.4	129	<0.330

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	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
						Chloride	Nitrate (as N)	Sulfate	Aluminum	Antimony	Arsenic	Barium	Beryllium
						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	494,000	882	258,000	<56.1	<1.03	15.4	88.8	<0.330
U4-MW-14I	4/14/2022	N	BL02	UMCf	77.3 - 87.3	274,000	2,490	1,410,000	<56.1	<1.03	16.6	23.1	<0.330
U4-MW-14I	12/6/2022	N	EM04	UMCf	77.3 - 87.3	401,000	2,700	1,490,000	<18.5 UJ	<1.03 UJ	17.1	49.4	<0.190 UJ
U4-MW-14I	3/16/2023	N	EM07	UMCf	77.3 - 87.3	346,000	2,510	597,000	<56.1	<1.03	14.1	49.1	<0.330
U4-MW-14I	6/15/2023	N	EM10	UMCf	77.3 - 87.3	404,000	970	733,000	<56.1	<1.03	17.7	129	<0.330
U4-MW-14I	9/14/2023	N	EM13	UMCf	77.3 - 87.3	623,000	658	438,000	<56.1	<1.03	20.7	63.8	<0.330
U4-MW-14I	12/14/2023	N	EM16	UMCf	77.3 - 87.3	668,000	<48.0	348,000	161 J	<1.03	15.8	92.4	<0.330
U4-MW-14I	3/13/2024	N	EM19	UMCf	77.3 - 87.3	777,000	1,240	305,000	<56.1	<1.03	19.0	98.6	<0.330
U4-MW-14I	6/14/2024	N	EM20	UMCf	77.3 - 87.3	703,000	<480 R	399,000	<56.1	<1.03	18.2 J+	84.7	<0.330
U4-MW-15D	4/13/2022	N	BL02	UMCf	96.0 - 106.0	749,000	3,170	410,000	149 J	<1.03	9.66	56.0	<0.330
U4-MW-15D	12/5/2022	N	EM04	UMCf	96.0 - 106.0	458,000	1,220	225,000	<56.1	<1.03	10.6	49.7	<0.330
U4-MW-15D	3/20/2023	N	EM07	UMCf	96.0 - 106.0	403,000	2,030	196,000	<56.1	<1.03	8.49	56.3	<0.330
U4-MW-15D	6/14/2023	N	EM10	UMCf	96.0 - 106.0	489,000	2,020 J	193,000	<56.1	<1.03	9.43	61.7	<0.330
U4-MW-15D	9/13/2023	N	EM13	UMCf	96.0 - 106.0	419,000	1,650	196,000	<56.1	<1.03	10.0	50.3	1.26 J
U4-MW-15D	12/12/2023	N	EM16	UMCf	96.0 - 106.0	409,000	<48.0	183,000	<56.1	<1.03	9.07	71.8	<0.330
U4-MW-15D	3/12/2024	N	EM19	UMCf	96.0 - 106.0	407,000	9,980	185,000	<56.1	<1.03	10.3	76.4	<0.330
U4-MW-15D	6/14/2024	N	EM20	UMCf	96.0 - 106.0	377,000	1,770 J-	186,000	<56.1	<10.3	16.3 J	52.4	<0.330
U4-MW-15DD	4/13/2022	N	BL02	UMCf	120.3 - 130.3	152,000	878	214,000	<56.1	<1.03	18.8	21.3	<0.330
U4-MW-15DD	12/5/2022	N	EM04	UMCf	120.3 - 130.3	144,000	1,260	177,000	<56.1	<1.03	16.8	25.2	<0.330
U4-MW-15DD	3/15/2023	N	EM07	UMCf	120.3 - 130.3	141,000	1,470	165,000	62.9 J	<1.03	13.4	25.3	<0.330
U4-MW-15DD	6/13/2023	N	EM10	UMCf	120.3 - 130.3	138,000	1,340	169,000	<56.1	<1.03	8.61	24.1	<0.330
U4-MW-15DD	9/14/2023	N	EM13	UMCf	120.3 - 130.3	143,000	1,590	174,000	<56.1	<1.03	13.7	22.6	<0.330
U4-MW-15DD	12/13/2023	N	EM16	UMCf	120.3 - 130.3	143,000	1,290	183,000	<56.1	<1.03	15.0	22.8	<0.330
U4-MW-15DD	3/12/2024	N	EM19	UMCf	120.3 - 130.3	143,000	2,310	178,000	<56.1	<1.03	11.7	24.9	<0.330
U4-MW-15DD	6/14/2024	N	EM20	UMCf	120.3 - 130.3	140,000	1,200	171,000	<56.1	<1.03	9.51 J+	23.1	<0.330
U4-MW-15I	4/12/2022	N	BL02	UMCf	76.8 - 86.8	420,000	5,590	1,070,000	<56.1	<1.03	31.1	20.5 J+	<0.330
U4-MW-15I	12/5/2022	N	EM04	UMCf	76.8 - 86.8	500,000	827	875,000	<56.1	1.24 J	44.9	24.9	<0.330
U4-MW-15I	3/17/2023	N	EM07	UMCf	76.8 - 86.8	189,000	<48.0	1,640 J	<56.1	<1.03	39.0	874	<0.330
U4-MW-15I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	226,000	<48.0 UJ	<594	<56.1	<1.03	83.2	629	<0.330
U4-MW-15I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	938,000	<48.0	223,000	<56.1	<1.03	26.8	509	<0.330
U4-MW-15I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	873,000	<48.0	184,000	<56.1	<5.15	28.4	469	<0.330
U4-MW-15I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	1,150,000	8,020	270,000	<56.1	<5.15	35.9	535	<0.330
U4-MW-15I	6/17/2024	N	EM20	UMCf	76.8 - 86.8	1,290,000	7,390	373,000	80.0 J	<5.15	34.4	370	<0.330
U4-MW-15S	4/13/2022	N	BL02	UMCf	54.8 - 64.8	178,000	2,750	1,190,000	112 J	<1.03	35.0	21.0	<0.330
U4-MW-15S	12/5/2022	N	EM04	UMCf	54.8 - 64.8	137,000	132	212,000	186 J	<1.03	49.4	419	<0.330
U4-MW-15S	3/13/2023	N	EM07	UMCf	54.8 - 64.8	155,000	<480	14,700 J	<56.1	<1.03	44.0	217	<0.330
U4-MW-15S	6/13/2023	N	EM10	UMCf	54.8 - 64.8	121,000	<48.0	12,200	<56.1	<1.03	40.4	360	<0.330
U4-MW-15S	9/14/2023	N	EM13	UMCf	54.8 - 64.8	136,000	5,550 J	<59,400	<56.1	<1.03	80.5	694	<0.330
U4-MW-15S	12/11/2023	N	EM16	UMCf	54.8 - 64.8	126,000	<48.0 UJ	6,580	59.4 J	<1.03	135	776	<0.330
U4-MW-15S	3/12/2024	N	EM19	UMCf	54.8 - 64.8	125,000	435	12,800	60.6 J	1.48 J	37.0	593	<0.330
U4-MW-15S	3/26/2024	N	EM19	UMCf	54.8 - 64.8	140,000	<48.0	174,000	<56.1	<1.03	74.5	431	<0.330
U4-MW-15S	6/14/2024	N	EM20	UMCf	54.8 - 64.8	169,000	<48.0	583,000	<56.1	<1.03	104	205	<0.330
U4-MW-16D	4/11/2022	N	BL02	UMCf	96.8 - 106.8	3,030,000	39,300	722,000	<56.1	<10.3	7.23 J	191	<0.330

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	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
						Chloride	Nitrate (as N)	Sulfate	Aluminum	Antimony	Arsenic	Barium	Beryllium
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-16D	12/5/2022	N	EM04	UMCf	96.8 - 106.8	1,740,000	17,100	573,000	<56.1	<1.03	1.92 J	94.1	<0.330
U4-MW-16D	3/14/2023	N	EM07	UMCf	96.8 - 106.8	1,490,000	10,500	205,000	<56.1	<5.15	10.3	137	<0.330
U4-MW-16D	6/13/2023	N	EM10	UMCf	96.8 - 106.8	2,180,000	25,200	377,000 J	378	<10.3	17.5 J	227	<0.330
U4-MW-16D	9/15/2023	N	EM13	UMCf	96.8 - 106.8	1,460,000	15,200	217,000	<56.1	<5.15	12.7	137	<0.330
U4-MW-16D	12/14/2023	N	EM16	UMCf	96.8 - 106.8	1,410,000	18,200	219,000	<56.1	<10.3	4.71 J	137	<0.330
U4-MW-16D	3/14/2024	N	EM19	UMCf	96.8 - 106.8	1,310,000	<48.0 UJ	197,000	<56.1	<5.15	5.66 J	132	<0.330
U4-MW-16D	6/17/2024	N	EM20	UMCf	96.8 - 106.8	1,680,000	<480	279,000	<56.1	<5.15	4.51 J	130	<0.330
U4-MW-16DD	4/12/2022	N	BL02	UMCf	120.8 - 130.8	229,000	569	623,000	<56.1	<1.03	20.0	24.7 J+	<0.330
U4-MW-16DD	12/5/2022	N	EM04	UMCf	120.8 - 130.8	188,000	260	444,000	<56.1	<1.03	21.7	23.1	<0.330
U4-MW-16DD	3/15/2023	N	EM07	UMCf	120.8 - 130.8	171,000	512	369,000	<56.1	<1.03	23.8	23.5	<0.330
U4-MW-16DD	6/13/2023	N	EM10	UMCf	120.8 - 130.8	162,000	<48.0	361,000	<56.1	<1.03	24.5	22.7	<0.330
U4-MW-16DD	9/14/2023	N	EM13	UMCf	120.8 - 130.8	166,000	728	336,000	<56.1	<1.03	23.7	21.6	<0.330
U4-MW-16DD	12/13/2023	N	EM16	UMCf	120.8 - 130.8	162,000	295	328,000	<56.1	<1.03	25.2	23.0	<0.330
U4-MW-16DD	3/14/2024	N	EM19	UMCf	120.8 - 130.8	164,000	432 J-	298,000	<56.1	<1.03	19.2	24.1	<0.330
U4-MW-16DD	6/17/2024	N	EM20	UMCf	120.8 - 130.8	162,000	2,340	275,000	56.3 J	<1.03	20.9	22.9	<0.330
U4-MW-16I	4/11/2022	N	BL02	UMCf	77.0 - 87.0	546,000	6,600	979,000	<56.1	<1.03	11.2	38.6	<0.330
U4-MW-16I	12/5/2022	N	EM04	UMCf	77.0 - 87.0	147,000	72.8 J	195,000	<56.1	<1.03	69.5	182	<0.330
U4-MW-16I	12/5/2022	FD	EM04	UMCf	77.0 - 87.0	144,000	73.1 J	179,000	<56.1	<1.03	52.5	184	<0.330
U4-MW-16I	3/13/2023	N	EM07	UMCf	77.0 - 87.0	120,000	<48.0	2,340 J	<56.1	<1.03	59.2	652	<0.330
U4-MW-16I	3/13/2023	FD	EM07	UMCf	77.0 - 87.0	120,000	<48.0	1,760 J	<56.1	<1.03	58.9	650	<0.330
U4-MW-16I	6/12/2023	N	EM10	UMCf	77.0 - 87.0	133,000	49.8 J	<594	61.2 J	<1.03	83.7	459	<0.330
U4-MW-16I	6/12/2023	FD	EM10	UMCf	77.0 - 87.0	132,000	49.6 J	<594	<56.1	3.28 J	83.0	459	<0.330
U4-MW-16I	9/11/2023	N	EM13	UMCf	77.0 - 87.0	1,660,000	4,520	498,000	<56.1	<1.03	8.62	408	<0.330
U4-MW-16I	9/11/2023	FD	EM13	UMCf	77.0 - 87.0	1,690,000	3,660	501,000	<56.1	<1.03	8.52	408	<0.330
U4-MW-16I	12/11/2023	N	EM16	UMCf	77.0 - 87.0	188,000	2,200 J	50,400	<56.1	<5.15	12.7	275	<0.330
U4-MW-16I	12/11/2023	FD	EM16	UMCf	77.0 - 87.0	184,000	5,450 J	71,700	<56.1	<5.15	12.6	271	<0.330
U4-MW-16I	3/11/2024	N	EM19	UMCf	77.0 - 87.0	1,500,000	18,600 J-	381,000 J	<56.1	<5.15	13.1	222	<0.330
U4-MW-16I	3/11/2024	FD	EM19	UMCf	77.0 - 87.0	1,470,000	17,500 J-	358,000 J	<56.1	<5.15	14.1	234	<0.330
U4-MW-16I	6/18/2024	N	EM20	UMCf	77.0 - 87.0	1,690,000	17,200	427,000	<56.1	<5.15	9.81 J	205	<0.330
U4-MW-16I	6/18/2024	FD	EM20	UMCf	77.0 - 87.0	1,710,000	16,900	424,000	<56.1	<5.15	10.2	202	<0.330
U4-MW-16S	4/12/2022	N	BL02	UMCf	54.8 - 64.8	173,000	2,700	1,150,000	<56.1	<1.03	20.9	22.2 J+	<0.330
U4-MW-16S	4/12/2022	FD	BL02	UMCf	54.8 - 64.8	171,000	2,850	1,140,000	<56.1	<1.03	21.2	22.5 J+	<0.330
U4-MW-16S	12/6/2022	N	EM04	UMCf	54.8 - 64.8	173,000	<48.0 UJ	988,000	<18.5 UJ	<1.03 UJ	37.5	18.0	<0.190 UJ
U4-MW-16S	3/15/2023	N	EM07	UMCf	54.8 - 64.8	107,000	<48.0	<594	<56.1	<1.03	61.8	260	<0.330
U4-MW-16S	6/13/2023	N	EM10	UMCf	54.8 - 64.8	113,000	<48.0	861 J	<56.1	<1.03	72.6	462	<0.330
U4-MW-16S	9/11/2023	N	EM13	UMCf	54.8 - 64.8	129,000	<48.0	34,700	<56.1	<1.03	170	183	<0.330
U4-MW-16S	12/11/2023	N	EM16	UMCf	54.8 - 64.8	127,000	<48.0 UJ	<594	<56.1	<1.03	194	362	<0.330
U4-MW-16S	3/11/2024	N	EM19	UMCf	54.8 - 64.8	139,000	<48.0 UJ	4,560 J	<56.1	<1.03	236	452	<0.330
U4-MW-16S	6/17/2024	N	EM20	UMCf	54.8 - 64.8	137,000	354	8,750	<56.1	<1.03	208	569	<0.330
U4-SLMW	11/10/2022	N	EM03		-	----	384	221,000	----	----	----	----	----
U4-T3	10/13/2022	N	EM02		-	1,890,000	----	----	----	----	----	----	----
U4-T3	11/3/2022	N	EM03		-	1,780,000	----	----	----	----	----	----	----
U4-T3	12/6/2022	N	EM04		-	1,250,000	----	----	----	----	----	----	----

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	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
						Chloride	Nitrate (as N)	Sulfate	Aluminum	Antimony	Arsenic	Barium	Beryllium
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-T3	1/9/2023	N	EM05		-	1,850,000	----	----	----	----	----	----	----
U4-T3	2/13/2023	N	EM06		-	1,770,000	----	----	----	----	----	----	----
U4-T3	3/13/2023	N	EM07		-	1,810,000	14,500	----	----	----	----	----	----
U4-T3	4/19/2023	N	EM08		-	885,000	----	----	----	----	----	----	----
U4-T3	5/18/2023	N	EM09		-	1,230,000	----	----	----	----	----	----	----
U4-T3	6/12/2023	N	EM10		-	1,240,000	----	----	----	----	----	----	----
U4-T3	7/11/2023	N	EM11		-	1,260,000	----	----	----	----	----	----	----
U4-T3	8/10/2023	N	EM12		-	879,000	----	----	----	----	----	----	----
U4-T3	9/11/2023	N	EM13		-	836,000	----	292,000	----	----	----	----	----
U4-T3	10/16/2023	N	EM14		-	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 sample quantitation limit.
- 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.

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
						Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium
						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	<0.750	500,000	20,700	<0.840	<7.55	<18.0	<4.24	235,000
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	<0.750	775,000	35,400	<0.840	<7.55	<18.0	<4.24	380,000
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	<0.750	856,000	28,200	<0.840	25.0	<18.0	4.50 J	396,000
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	<1.50	914,000	30,400	<0.840	<15.1	<18.0	<8.49	467,000
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	<0.750	1,130,000	16,900	6.89 J	10.8 J	2,910	<4.24	622,000
M-251-100	6/17/2024	N	EM20	UMCf	92.5 - 102.5	<1.50	831,000	20,300	12.6 J+	<15.1	1,490	<8.49	597,000
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	<0.150	30,600	1,520	<0.840	1.58 J	<18.0	<0.849	155 J
M-251-60	6/14/2023	N	EM10	UMCf	52.3 - 62.3	<0.150	22,200	1,760	1.83 J	2.35 J	<18.0	<0.849	149 J
M-251-60	9/14/2023	N	EM13	UMCf	52.3 - 62.3	<0.150	25,400	1,640	<0.840	1.75 J	<18.0	1.05 J	142 J
M-251-60	12/11/2023	N	EM16	UMCf	52.3 - 62.3	<0.150	36,200	1,600	2.45 J	2.41 J	30.9 J	<0.849	769 J
M-251-60	3/12/2024	N	EM19	UMCf	52.3 - 62.3	<0.150	14,800	406	<0.840	<1.51	33.2 J	<0.849	4,000
M-251-60	6/19/2024	N	EM20	UMCf	52.3 - 62.3	<0.150	10,900	20.6	0.962 J	<1.51	34.9 J	<0.849	4,490
M-252	4/21/2022	N	BL02	UMCf	132.3 - 142.3	----	----	----	----	----	----	----	----
M-252	3/15/2023	N	EM07	UMCf	132.3 - 142.3	<0.150	382,000	91.0	<0.840	1.88 J	44.5 J	<0.849	21,100
M-252	9/19/2023	N	EM13	UMCf	132.3 - 142.3	<0.150	225,000	26.2	<0.840	<1.51	<18.0	<0.849	22,600
M-252	12/18/2023	N	EM16	UMCf	132.3 - 142.3	<0.150	281,000	10.9	<0.840	2.73 J	25.9 J	<0.849	32,000
M-252	3/12/2024	N	EM19	UMCf	132.3 - 142.3	<0.150	426,000	13.3	0.942 J	8.08	<18.0	<0.849	28,900
M-252	6/19/2024	N	EM20	UMCf	132.3 - 142.3	<0.150	289,000	3.67 J	3.04 J	3.04 J	<18.0	<0.849	21,900
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	<0.150	84,300	3.28 J	<0.840	2.98 J	<18.0	<0.849	28,500
U4-E-01D	6/20/2024	N	EM20	UMCf	94.7 - 109.7	<1.35	1,610,000	235	34.6 J	<13.6	5,480	<7.64	878,000
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	<0.150	370,000	16,400	<0.840	<1.51	24.9 J	2.57	183,000

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
						Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium
						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	<1.35	792,000	1,760	13.1	<13.6	12,100	<7.64	495,000
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	<0.150	82,600	9.61 J	<0.840	2.84 J	33.4 J	<0.849	28,000
U4-E-02D	6/19/2024	N	EM20	UMCf	94.4 - 109.4	<0.750	1,220,000	189	17.8	9.02 J	3,510	<4.24	597,000
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	<0.150	87,500	2,140	<0.840	<1.51	182	<0.849	34,100
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	<0.750	1,490,000	141,000	14.2 J	15.0 J	107,000	<4.24	680,000
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	<0.750	383,000	34,800	<0.840	16.8 J	<18.0	<4.24	190,000
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	----	----	----	----	----	----	----	----

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
						Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-E-03D	10/16/2023	N	EM14	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----
U4-E-03D	6/10/2024	N	EM20	UMCf	95.1 - 110.1	<0.150	1,020,000	108	19.1	<1.51	3,580	<0.849	434,000
U4-E-03D	6/10/2024	FD	EM20	UMCf	95.1 - 110.1	<0.150	1,000,000	109	18.3	<1.51	3,250	<0.849	431,000
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	<0.150	82,200	<1.40	<0.840	3.27 J	342	<0.849	27,900
U4-E-04D	6/20/2024	N	EM20	UMCf	95.0 - 110.0	<1.35	1,560,000	205	19.1 J	<13.6	21,600	<7.64	473,000
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	<0.750	872,000	58,500	<0.840	<7.55	20.6 J	<4.24	414,000
U4-E-04I	6/20/2024	N	EM20	UMCf	75.0 - 90.0	<0.150	739,000	92.8	24.7 J	2.86 J	31,600	3.63	396,000
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	<0.150	80,300	1.57 J	0.903 J	3.65 J	23.0 J	<0.849	27,900
U4-E-05D	6/10/2024	N	EM20	UMCf	95.0 - 110.0	<0.150	329,000	100	29.0	<1.51	3,530	<0.849	147,000
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	<0.150	59,400	7,780	<0.840	5.23	<18.0	<0.849	28,600
U4-E-05I	6/19/2024	N	EM20	UMCf	75.0 - 90.0	<1.35	725,000	265	40.1 J	<13.6	23,400	<7.64	424,000
U4-E-06D	4/11/2022	N	BL02	UMCf	95.1 - 110.1	<0.150	515,000 J	11,900 J	<0.840	<1.51	<18.0	<0.849	255,000 J
U4-E-06D	6/20/2024	N	EM20	UMCf	95.1 - 110.1	<1.35	274,000	321	23.6	<13.6	6,080	<7.64	154,000
U4-E-06I	4/11/2022	N	BL02	UMCf	73.2 - 88.2	<0.150	223,000	2,270	<0.840	2.20 J	<18.0	<0.849	88,400
U4-E-06I	4/11/2022	FD	BL02	UMCf	73.2 - 88.2	<0.150	222,000	2,260	<0.840	3.02 J	<18.0	<0.849	87,900
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	<0.750	377,000	1,390	1.40 J	<7.55	456	<4.24	251,000
U4-E-07D	4/12/2022	N	BL02	UMCf	94.6 - 109.6	<1.50	1,450,000	79,000	<4.20	<15.1	<90.0	<8.49	634,000
U4-E-07D	6/20/2024	N	EM20	UMCf	94.6 - 109.6	<0.150	535,000	13.4 J+	18.1	8.33	653	<0.849	238,000
U4-E-07I	4/12/2022	N	BL02	UMCf	74.7 - 89.7	<0.150	157,000	15,100	<0.840	2.99 J	<18.0	<0.849	66,000
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	----	----	----	----	----	----	----	----

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
						Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
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	<0.750	261,000	31,100	4.34 J	<7.55	<18.0	<4.24	225,000
U4-E-08D	4/12/2022	N	BL02	UMCf	94.6 - 109.6	<1.50	1,670,000	92,600	<4.20	<15.1	<90.0	<8.49	737,000
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	<1.50	832,000	27,200	<0.840	<15.1	18.8 J	<8.49	360,000
U4-E-09D	6/10/2024	N	EM20	UMCf	94.5 - 109.5	<0.750	613,000	293	16.1	<7.55	26,900	<4.24	413,000
U4-E-09I	4/14/2022	N	BL02	UMCf	74.9 - 89.9	<0.150	215,000	9,660	<0.840	6.53	<18.0	<0.849	91,600
U4-E-09I	6/10/2024	N	EM20	UMCf	74.9 - 89.9	<0.750	538,000	235	31.0	<7.55	1,410	<4.24	348,000
U4-E-09I	6/10/2024	FD	EM20	UMCf	74.9 - 89.9	<0.750	531,000	227	31.5	<7.55	1,130	<4.24	342,000
U4-E-10D	4/13/2022	N	BL02	UMCf	94.5 - 109.5	<0.150	436,000	9,680	<0.840	<1.51	<18.0	<0.849	165,000
U4-E-10D	6/19/2024	N	EM20	UMCf	94.5 - 109.5	<0.750	1,500,000	594	36.4	96.7	32,800	<4.24	679,000
U4-E-10I	4/13/2022	N	BL02	UMCf	74.2 - 89.2	<0.150	307,000	16,100	<0.840	4.02 J	<18.0	<0.849	133,000
U4-E-10I	6/11/2024	N	EM20	UMCf	74.2 - 89.2	<0.150	718,000	160	20.6	2.49 J	13,600	<0.849	294,000
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	----	----	----	----	----	----	----	----
U4-MW-01D	3/20/2023	N	EM07	UMCf	96.7 - 106.7	<0.150	110,000	4,860	<0.840	6.39	<18.0	<0.849	62,300
U4-MW-01D	6/13/2023	N	EM10	UMCf	96.7 - 106.7	<1.50	421,000	19,800	<0.840	<15.1	<18.0	<8.49	240,000 J+
U4-MW-01D	9/14/2023	N	EM13	UMCf	96.7 - 106.7	<0.750	423,000	17,500	<0.840	8.15 J	<18.0	<4.24	230,000
U4-MW-01D	12/14/2023	N	EM16	UMCf	96.7 - 106.7	<0.750	405,000	16,000	<0.840	8.30 J	<18.0	<4.24	222,000
U4-MW-01D	3/13/2024	N	EM19	UMCf	96.7 - 106.7	<0.750	473,000	14,900	1.04 J	<7.55	<18.0	<4.24	239,000
U4-MW-01D	6/18/2024	N	EM20	UMCf	96.7 - 106.7	<0.150	415,000	14,300	5.06 J	<1.51	25.2 J	<0.849	222,000

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
						Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
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	<0.150	276,000	8,120	<0.840	3.13 J	<18.0	<0.849	125,000
U4-MW-01DD	6/13/2023	N	EM10	UMCf	119.9 - 129.9	<1.50	246,000	9,010	<0.840	<15.1	<18.0	<8.49	108,000 J+
U4-MW-01DD	9/14/2023	N	EM13	UMCf	119.9 - 129.9	<0.150	290,000	9,630	<0.840	<1.51	<18.0	<0.849	126,000
U4-MW-01DD	12/15/2023	N	EM16	UMCf	119.9 - 129.9	<0.150	162,000	4,960	<0.840	<1.51	<18.0	<0.849	76,100
U4-MW-01DD	3/12/2024	N	EM19	UMCf	119.9 - 129.9	<0.150	157,000	5,010	<0.840	<1.51	21.1 J	<0.849	80,800
U4-MW-01DD	6/18/2024	N	EM20	UMCf	119.9 - 129.9	<0.150	142,000	4,450	1.57 J	<1.51	<18.0	<0.849	68,100
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	<0.150	156,000	5,440	<0.840	7.21	<18.0	1.06 J	85,700
U4-MW-01I	6/12/2023	N	EM10	UMCf	76.7 - 86.7	<0.150	444,000	19,200	<0.840	4.18 J	<18.0 UJ	<0.849	252,000
U4-MW-01I	9/14/2023	N	EM13	UMCf	76.7 - 86.7	<0.750	548,000	18,700	2.50 J	8.54 J	32.0 J	<4.24	304,000
U4-MW-01I	12/15/2023	N	EM16	UMCf	76.7 - 86.7	<1.50	756,000	19,500	3.22 J	8.11	3,360	<8.49	426,000
U4-MW-01I	3/13/2024	N	EM19	UMCf	76.7 - 86.7	<0.750	874,000	19,500	1.31 J	<7.55	<18.0	<4.24	432,000
U4-MW-01I	6/18/2024	N	EM20	UMCf	76.7 - 86.7	<0.150	689,000	17,900	6.63 J	<1.51	35.9 J	<0.849	354,000
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	<0.150	15,200	1,290	<0.840	5.26	66.4 J	<0.849	4,240
U4-MW-01S	6/13/2023	N	EM10	UMCf	54.7 - 64.7	<0.150	17,100	1,530	<0.840	<1.51	43.8 J	<0.849	3,920 J+
U4-MW-01S	9/15/2023	N	EM13	UMCf	54.7 - 64.7	<0.150	17,000	1,510	<0.840	<1.51	<18.0	<0.849	4,790
U4-MW-01S	12/13/2023	N	EM16	UMCf	54.7 - 64.7	<0.150	14,100	1,150	1.33 J	<1.51	<18.0	<0.849	3,970
U4-MW-01S	3/13/2024	N	EM19	UMCf	54.7 - 64.7	<0.150	25,200	774	<0.840	<1.51	<18.0	1.79 J	5,050
U4-MW-01S	6/18/2024	N	EM20	UMCf	54.7 - 64.7	<0.150	9,980	311	<0.840	<1.51	<18.0	<0.849	3,120
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	<1.50	1,230,000	94,700	<0.840	<15.1	<18.0	<8.49	636,000
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	<1.50	1,130,000	96,900	<4.20	<15.1	<90.0	<8.49	599,000 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	<3.00	1,080,000	107,000	24.4 J	<30.2	27.3 J	<17.0	525,000
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	----	----	----	----	----	----	----	----
U4-MW-02D	12/14/2023	N	EM16	UMCf	95.0 - 110.0	<3.00	1,240,000	85,600	<0.840	69.6 J	<18.0	<17.0	560,000
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	<1.50	1,270,000	85,400	<8.40	<15.1	<18.0	<8.49	600,000
U4-MW-02D	6/17/2024	N	EM20	UMCf	95.0 - 110.0	<1.50	932,000	63,100	<0.840	<15.1	<18.0	<8.49	469,000
U4-MW-02I	4/14/2022	N	BL02	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----

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
						Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
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	<0.750	581,000	61,100	<0.840	<7.55	<18.0	<4.24	294,000
U4-MW-02I	3/17/2023	FD	EM07	UMCf	75.0 - 90.0	<0.750	555,000	61,000	<0.840	<7.55	<18.0	<4.24	289,000
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	<0.150	129,000	515	2.84 J	4.33 J	236 J+	<0.849 UJ	82,700
U4-MW-02I	6/12/2023	FD	EM10	UMCf	75.0 - 90.0	<0.150	124,000	491	2.71 J	7.48	214 J+	4.08 J	79,800
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	<0.750	254,000	2,410	6.69 J	<7.55	322	<4.24	202,000
U4-MW-02I	9/11/2023	FD	EM13	UMCf	75.0 - 90.0	<0.750	250,000	2,190	5.73 J	<7.55	346	4.25 J	199,000
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	<1.50	255,000	23,400	1.88 J	44.1 J	<18.0	<8.49	223,000
U4-MW-02I	12/14/2023	FD	EM16	UMCf	75.0 - 90.0	<0.750	255,000	23,400	<0.840	41.2	<18.0	<4.24	221,000
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	<1.50	438,000	34,300	6.11 J	<15.1	<18.0	<8.49	367,000
U4-MW-02I	3/13/2024	FD	EM19	UMCf	75.0 - 90.0	<1.50	440,000	34,300	6.48 J	<15.1	<18.0	<8.49	369,000
U4-MW-02I	6/17/2024	N	EM20	UMCf	75.0 - 90.0	<0.750	189,000	2,770	4.72 J	<7.55	18.5 J	<4.24	173,000
U4-MW-02I	6/17/2024	FD	EM20	UMCf	75.0 - 90.0	<0.750	198,000	2,720	2.91 J	<7.55	29.6 J	<4.24	174,000
U4-MW-03D	4/20/2022	N	BL02	UMCf	96.6 - 106.6	----	----	----	----	----	----	----	----
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	<0.750	692,000	28,100	<0.840	<7.55	<18.0	<4.24	369,000
U4-MW-03D	3/16/2023	FD	EM07	UMCf	96.6 - 106.6	<0.750	684,000	28,200	<0.840	<7.55	<18.0	4.90 J	369,000
U4-MW-03D	6/15/2023	N	EM10	UMCf	96.6 - 106.6	<0.750	634,000	28,300	<0.840	<7.55	<18.0	<4.24	332,000
U4-MW-03D	9/14/2023	N	EM13	UMCf	96.6 - 106.6	<0.750	681,000	31,400	<0.840	17.8 J	<18.0	<4.24	354,000

Table 2
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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	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020
						Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-03D	12/13/2023	N	EM16	UMCf	96.6 - 106.6	<0.750	640,000	24,500	<0.840	23.1 J	18.9 J	<4.24	386,000
U4-MW-03D	3/15/2024	N	EM19	UMCf	96.6 - 106.6	<0.150	560,000	16,200	<0.840	<1.51	<18.0	<0.849	348,000
U4-MW-03D	6/17/2024	N	EM20	UMCf	96.6 - 106.6	<0.150	588,000	6,520	<0.840	4.56 J	<18.0	<0.849	408,000
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	<0.150	30,700	64.2	<0.840	<1.51	<18.0	<0.849	16,400
U4-MW-03DD	6/15/2023	N	EM10	UMCf	119.7 - 129.7	<0.150	30,700	48.5	<0.840	<1.51	<18.0	<0.849	16,600
U4-MW-03DD	9/14/2023	N	EM13	UMCf	119.7 - 129.7	<0.150	30,800	27.6	<0.840	<1.51	83.8 J	<0.849	16,000
U4-MW-03DD	12/14/2023	N	EM16	UMCf	119.7 - 129.7	<0.150	32,200	21.4	0.884 J	<1.51	58.4 J	<0.849	16,500
U4-MW-03DD	3/14/2024	N	EM19	UMCf	119.7 - 129.7	<0.150	31,400	44.4	1.04 J	3.61 J	<18.0	<0.849	17,500
U4-MW-03DD	6/17/2024	N	EM20	UMCf	119.7 - 129.7	<0.150	30,800	27.4	0.867 J	<1.51	<18.0	<0.849	16,900
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	<0.150	600,000	25,400	<0.840	<1.51	<18.0	<0.849	325,000
U4-MW-03I	6/14/2023	N	EM10	UMCf	76.6 - 86.6	<0.750	514,000	23,500	<0.840	<7.55	<18.0	<4.24	274,000
U4-MW-03I	6/14/2023	FD	EM10	UMCf	76.6 - 86.6	<0.750	529,000	24,400	<0.840	<7.55	<18.0	<4.24	284,000
U4-MW-03I	9/11/2023	N	EM13	UMCf	76.6 - 86.6	<0.750	717,000	27,800	7.31 J	9.56 J	5,590	9.18 J	458,000
U4-MW-03I	9/11/2023	FD	EM13	UMCf	76.6 - 86.6	<0.750	698,000	27,900	6.45 J	9.01 J	4,580	10.3 J+	434,000
U4-MW-03I	12/13/2023	N	EM16	UMCf	76.6 - 86.6	<0.750	638,000	22,600	<0.840	20.7 J	<18.0	<4.24	379,000
U4-MW-03I	12/13/2023	FD	EM16	UMCf	76.6 - 86.6	<0.750	640,000	22,700	<0.840	20.7 J	<18.0	<4.24	381,000
U4-MW-03I	3/14/2024	N	EM19	UMCf	76.6 - 86.6	<0.750	569,000	14,400	<0.840	<7.55	<18.0	<4.24	369,000
U4-MW-03I	3/14/2024	FD	EM19	UMCf	76.6 - 86.6	<0.750	572,000	14,500	0.876 J	<7.55	<18.0	<4.24	370,000
U4-MW-03I	6/19/2024	N	EM20	UMCf	76.6 - 86.6	0.239 J	434,000	1,310	3.36 J	5.74	<18.0	<0.849	325,000
U4-MW-03I	6/19/2024	FD	EM20	UMCf	76.6 - 86.6	0.236 J	440,000	1,370	3.22 J	6.62	<18.0	<0.849	327,000
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	<0.150	4,160	2,290	<0.840	<1.51	<18.0	<0.849	584 J
U4-MW-03S	6/15/2023	N	EM10	UMCf	54.5 - 64.5	<0.150	7,570	2,620	<0.840	<1.51	<18.0	<0.849	16,800
U4-MW-03S	9/14/2023	N	EM13	UMCf	54.5 - 64.5	<0.150	5,300	1,860	<0.840	<1.51	<18.0	1.51 J	1,230
U4-MW-03S	12/13/2023	N	EM16	UMCf	54.5 - 64.5	<0.150	4,900	1,210	1.50 J	<1.51	51.2 J	<0.849	1,140
U4-MW-03S	3/14/2024	N	EM19	UMCf	54.5 - 64.5	<0.150	3,980	709	1.32 J	16.9	59.0 J	<0.849	1,170
U4-MW-03S	6/14/2024	N	EM20	UMCf	54.5 - 64.5	<0.150	3,570	374	<0.840	<1.51	<18.0	<0.849	1,230
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	<0.150	43,100	2,740	<0.840	<1.51	<18.0	<0.849	23,700
U4-MW-04D	6/14/2023	N	EM10	UMCf	97.0 - 107.0	<0.750	166,000	11,100	2.01 J	<7.55	<18.0	<4.24	92,600
U4-MW-04D	9/15/2023	N	EM13	UMCf	97.0 - 107.0	<0.750	314,000	17,200	<0.840	8.84 J	<18.0	<4.24	164,000
U4-MW-04D	12/12/2023	N	EM16	UMCf	97.0 - 107.0	<0.750	244,000	11,800	1.59 J	15.1 J	56.9 J	<4.24	137,000
U4-MW-04D	3/12/2024	N	EM19	UMCf	97.0 - 107.0	<0.750	352,000	16,500	2.59 J	33.5	26.0 J	<4.24	218,000
U4-MW-04D	6/19/2024	N	EM20	UMCf	97.0 - 107.0	<0.750	445,000	19,900	1.06 J	<7.55	<18.0	<4.24	317,000
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	<0.750	141,000	7,070	<0.840	19.3 J	<18.0	<4.24	71,500
U4-MW-04I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<0.750	483,000	28,200	<0.840	<7.55	<18.0	<4.24	256,000
U4-MW-04I	9/14/2023	N	EM13	UMCf	76.8 - 86.8	<1.50	1,240,000	58,800	<0.840	37.7 J	<18.0	<8.49	607,000
U4-MW-04I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	<3.00	1,170,000	61,600	<0.840	<30.2	<18.0	<17.0	586,000

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
						Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-04I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	<1.50	1,170,000	68,800	7.45 J	94.9	<18.0	<8.49	615,000
U4-MW-04I	6/18/2024	N	EM20	UMCf	76.8 - 86.8	<1.50	1,320,000	67,600	22.8 J	<15.1	64.0 J	<8.49	698,000
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	<0.750	258,000	28,700	<0.840	<7.55	<18.0	<4.24	129,000
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	<0.750	156,000	6,510	<0.840	<7.55	<18.0	<4.24	108,000
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	<0.150	154,000	3,000	1.88 J	<1.51	<18.0	<0.849	137,000
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	<0.750	318,000	10,200	17.3	23.2 J	805	<4.24	244,000
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	<0.750	498,000	8,330	7.24 J	62.7	178	<4.24	427,000
U4-MW-05D	6/18/2024	N	EM20	UMCf	98.2 - 108.2	<1.50	389,000	3,940	9.10 J	<15.1	51.7 J	<8.49	488,000
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	<0.750	234,000	30,300	<0.840	<7.55	490	<4.24	117,000
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	<0.150	116,000	468	<0.840	<1.51	742	<0.849	81,600
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	<0.750	162,000	991	4.93 J	10.7 J	<18.0	6.99 J	166,000
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	<1.50	181,000	3,930	3.49 J	27.7 J	115	<8.49	228,000
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	<0.750	314,000	2,610	1.44 J	<7.55	230	<4.24	361,000
U4-MW-05I	6/18/2024	N	EM20	UMCf	76.6 - 86.6	<1.50	429,000	8,030	7.15 J	<15.1	43.2 J	<8.49	497,000
U4-MW-06D	4/19/2022	N	BL02	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----

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
						Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
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	<0.150	121,000	7,300	<0.840	<1.51	<18.0	<0.849	62,500
U4-MW-06D	6/16/2023	N	EM10	UMCf	97.1 - 107.1	<0.750	686,000	38,400	<0.840	18.1 J	<18.0	<4.24	370,000
U4-MW-06D	9/13/2023	N	EM13	UMCf	97.1 - 107.1	<0.750	748,000	30,100	3.39 J	15.7 J	20.9 J	<4.24	455,000
U4-MW-06D	12/13/2023	N	EM16	UMCf	97.1 - 107.1	<3.00	926,000	38,400	<0.840	51.3 J	25.0 J	<17.0	609,000
U4-MW-06D	3/14/2024	N	EM19	UMCf	97.1 - 107.1	<0.750	979,000	30,500	<0.840	<7.55	<18.0	<4.24	714,000
U4-MW-06D	6/12/2024	N	EM20	UMCf	97.1 - 107.1	<1.50	919,000	28,700	4.15 J	<15.1	<18.0	<8.49	714,000
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	<0.750	642,000	40,000	<0.840	<7.55	<18.0	<4.24	322,000
U4-MW-06I	6/16/2023	N	EM10	UMCf	76.5 - 86.5	<0.750	612,000	40,100	<0.840	22.5 J	<18.0	<4.24	352,000
U4-MW-06I	9/12/2023	N	EM13	UMCf	76.5 - 86.5	<0.750	687,000	33,500	<0.840	<7.55	146	<4.24	420,000
U4-MW-06I	12/12/2023	N	EM16	UMCf	76.5 - 86.5	<3.00	815,000	38,300	<0.840	43.7 J	35.3 J	<17.0	542,000
U4-MW-06I	3/14/2024	N	EM19	UMCf	76.5 - 86.5	<0.750	850,000	30,500	<0.840	<7.55	<18.0	<4.24	638,000
U4-MW-06I	6/11/2024	N	EM20	UMCf	76.5 - 86.5	<1.50	751,000	6,430	1.40 J	<15.1	<18.0	<8.49	553,000
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	<0.150	84,500	931	<0.840	<1.51	86.5 J	<0.849	39,700
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	<0.150	342,000	1,700	5.04 J	1.55 J	<18.0	<0.849	204,000 J+
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	<0.750	360,000	16,100	5.81 J	14.0 J	<18.0	<4.24	249,000
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	<0.750	575,000	11,100	15.8	25.2 J+	1,340	<4.24	385,000
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	<0.750	1,050,000	13,900	39.5	<7.55	2,680	<4.24	523,000
U4-MW-07D	6/12/2024	N	EM20	UMCf	96.8 - 106.5	<0.750	1,270,000	5,310	35.5 J+	<7.55	212	<4.24	631,000
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	----	----	----	----	----	----	----	----
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	<0.150	93,500	2,670	<0.840	<1.51	29.1 J	<0.849	46,800
U4-MW-07I	4/21/2023	N	EM08	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
						Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
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	<0.150	159,000	161	3.08 J	<1.51	638	<0.849	108,000
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	<0.750	188,000	4,220	6.58 J	12.6 J	<18.0	<4.24	218,000
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	<0.750	449,000	6,720	7.75 J	33.3 J+	41.6 J	<4.24	351,000
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	1.11 J	640,000	11,000	8.21 J	<7.55	276	<4.24	450,000
U4-MW-07I	6/12/2024	N	EM20	UMCf	76.8 - 86.8	<0.750	483,000	2,170	7.42 J	<7.55	<18.0	<4.24	464,000
U4-MW-08D	4/13/2022	N	BL02	UMCf	98.6 - 108.6	<1.50	1,610,000	112,000	<4.20	<15.1	<90.0	<8.49	707,000
U4-MW-08D	12/7/2022	N	EM04	UMCf	98.6 - 108.6	<0.750	665,000	49,000	<0.298	<7.55	<140	<4.24	330,000
U4-MW-08D	3/17/2023	N	EM07	UMCf	98.6 - 108.6	<0.750	532,000	40,100	<0.840	<7.55	<18.0	<4.24	378,000
U4-MW-08D	6/13/2023	N	EM10	UMCf	98.6 - 108.6	<1.50	719,000	56,200	<0.840	<15.1	<18.0	<8.49	542,000 J+
U4-MW-08D	9/13/2023	N	EM13	UMCf	98.6 - 108.6	<1.50	1,100,000	90,000	9.79 J	31.5 J	<18.0	<8.49	557,000
U4-MW-08D	12/11/2023	N	EM16	UMCf	98.6 - 108.6	<1.50	1,070,000	73,600	<8.40	87.2 J+	<18.0	<8.49	511,000
U4-MW-08D	3/12/2024	N	EM19	UMCf	98.6 - 108.6	<1.50	774,000	54,400	5.62 J	96.4	<18.0	<8.49	569,000
U4-MW-08D	6/14/2024	N	EM20	UMCf	98.6 - 108.6	<0.150	984,000	63,800	5.22 J	<1.51	<90.0	<0.849	635,000
U4-MW-08DD	4/20/2022	N	BL02	UMCf	119.8 - 129.8	<0.150	58,200	764	<0.840	<1.51	<18.0	<0.849	28,400
U4-MW-08DD	4/20/2022	FD	BL02	UMCf	119.8 - 129.8	<0.150	58,000	780	<0.840	<1.51	<18.0	<0.849	28,400
U4-MW-08DD	12/8/2022	N	EM04	UMCf	119.8 - 129.8	<0.150	45,600	56.7	0.145 J	<1.51	<28.1	<0.849	23,100
U4-MW-08DD	3/15/2023	N	EM07	UMCf	119.8 - 129.8	<0.150	167,000	1,300	<0.840	2.67 J	<18.0	0.963 J	92,600
U4-MW-08DD	6/14/2023	N	EM10	UMCf	119.8 - 129.8	<0.150	139,000	1,220	1.76 J	<1.51	18.3 J	<0.849	80,800
U4-MW-08DD	9/14/2023	N	EM13	UMCf	119.8 - 129.8	<0.150	82,400	504	<0.840	<1.51	40.2 J	1.42 J	45,200
U4-MW-08DD	12/14/2023	N	EM16	UMCf	119.8 - 129.8	<0.150	87,900	543	0.850 J	<1.51	<18.0	<0.849	47,900
U4-MW-08DD	3/14/2024	N	EM19	UMCf	119.8 - 129.8	<0.150	77,000	458	<0.840	<1.51	<18.0	<0.849	40,000
U4-MW-08DD	6/12/2024	N	EM20	UMCf	119.8 - 129.8	<0.150	71,600	363	<0.840	<1.51	<18.0	<0.849	39,400
U4-MW-08I	4/13/2022	N	BL02	UMCf	78.0 - 88.0	<0.150	107,000	8,950	<0.840	1.90 J	<18.0	<0.849	44,400
U4-MW-08I	12/7/2022	N	EM04	UMCf	78.0 - 88.0	<0.750	355,000	31,400	1.54 J	<7.55	<140	<4.24	166,000
U4-MW-08I	12/7/2022	FD	EM04	UMCf	78.0 - 88.0	<0.750	349,000	31,000	1.41 J	<7.55	<140	<4.24	163,000
U4-MW-08I	3/17/2023	N	EM07	UMCf	78.0 - 88.0	<0.750	538,000	48,700	<0.840	<7.55	<18.0	<4.24	288,000
U4-MW-08I	6/13/2023	N	EM10	UMCf	78.0 - 88.0	<1.50	129,000	11,200	<0.840	<15.1	<18.0	<8.49	78,400 J+
U4-MW-08I	9/13/2023	N	EM13	UMCf	78.0 - 88.0	<0.750	307,000	30,500	3.48 J	13.8 J	<18.0	<4.24	210,000
U4-MW-08I	12/11/2023	N	EM16	UMCf	78.0 - 88.0	<1.50	406,000	30,800	<0.840	53.9 J+	36.4 J	<8.49	349,000
U4-MW-08I	3/12/2024	N	EM19	UMCf	78.0 - 88.0	<1.50	401,000	32,900	4.06 J	81.6	<18.0	<8.49	432,000
U4-MW-08I	6/14/2024	N	EM20	UMCf	78.0 - 88.0	<1.50	332,000	29,000	<0.840	<15.1	56.4 J	<8.49	341,000
U4-MW-08S	4/15/2022	N	BL02	UMCf	54.9 - 64.9	<0.150	165,000	519	<0.840	<1.51	26.0 J	<0.849	3,570
U4-MW-08S	12/7/2022	N	EM04	UMCf	54.9 - 64.9	<0.150	68,400	284	0.0886 J	<1.51	31.9 J	<0.849	30,800
U4-MW-08S	12/7/2022	FD	EM04	UMCf	54.9 - 64.9	<0.150	67,600	275	0.0711 J	<1.51	39.7 J	<0.849	30,800
U4-MW-08S	3/13/2023	N	EM07	UMCf	54.9 - 64.9	<0.150	73,900	10.3	<0.840	<1.51	38.3 J	<0.849	61,700
U4-MW-08S	3/13/2023	FD	EM07	UMCf	54.9 - 64.9	<0.150	68,900	8.64 J	<0.840	<1.51	54.4 J	<0.849	55,500

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
						Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-08S	6/13/2023	N	EM10	UMCf	54.9 - 64.9	<0.150	91,400	10.0 J	<0.840	<1.51	81.2 J	<0.849	68,300 J+
U4-MW-08S	6/13/2023	FD	EM10	UMCf	54.9 - 64.9	<0.150	91,700	9.09 J	<0.840	<1.51	84.9 J	<0.849	66,600 J+
U4-MW-08S	9/13/2023	N	EM13	UMCf	54.9 - 64.9	<0.150	118,000	25.4 J	2.00 J	<1.51	1,480	6.72	88,500
U4-MW-08S	9/13/2023	FD	EM13	UMCf	54.9 - 64.9	<1.50	117,000	15.2 J	1.94 J	<15.1	1,360	<8.49	87,600
U4-MW-08S	12/14/2023	N	EM16	UMCf	54.9 - 64.9	<0.150	261,000	61.9	2.04 J	<1.51	30,100	<0.849	186,000
U4-MW-08S	12/14/2023	FD	EM16	UMCf	54.9 - 64.9	<0.150	265,000	63.2	1.97 J	<1.51	30,400	<0.849	187,000
U4-MW-08S	3/14/2024	N	EM19	UMCf	54.9 - 64.9	<0.150	157,000	12.6	1.75 J	<1.51	351 J+	<0.849	156,000
U4-MW-08S	3/14/2024	FD	EM19	UMCf	54.9 - 64.9	<0.150	156,000	12.1	2.02 J	<1.51	381 J+	<0.849	154,000
U4-MW-08S	3/25/2024	N	EM19	UMCf	54.9 - 64.9	<0.150	119,000	13.0	<0.840	<1.51	3,790	<0.849	110,000
U4-MW-08S	3/25/2024	FD	EM19	UMCf	54.9 - 64.9	<0.150	114,000	12.4	<0.840	<1.51	3,660	<0.849	109,000
U4-MW-08S	6/14/2024	N	EM20	UMCf	54.9 - 64.9	<0.150	108,000	15.5	<0.840	<1.51	2,050	<0.849	111,000
U4-MW-08S	6/14/2024	FD	EM20	UMCf	54.9 - 64.9	<0.150	111,000	14.6	<0.840	<1.51	2,270	<0.849	114,000
U4-MW-09D	4/14/2022	N	BL02	UMCf	96.9 - 106.9	<1.50	123,000	5,930	<0.840	<15.1	<18.0	<8.49	532,000
U4-MW-09D	12/6/2022	N	EM04	UMCf	96.9 - 106.9	<0.150 UJ	145,000	7,460	0.202 J	<1.51 UJ	<28.1 UJ	<0.849 UJ	71,500
U4-MW-09D	3/16/2023	N	EM07	UMCf	96.9 - 106.9	<0.150	235,000	3,650	<0.840	1.58 J	30.6 J	<0.849	136,000
U4-MW-09D	6/14/2023	N	EM10	UMCf	96.9 - 106.9	<0.150	204,000	1,830	4.15 J	<1.51	<18.0	<0.849	144,000
U4-MW-09D	9/12/2023	N	EM13	UMCf	96.9 - 106.9	<0.150	318,000	2,950	1.21 J	<1.51	80.7 J	<0.849	241,000
U4-MW-09D	12/15/2023	N	EM16	UMCf	96.9 - 106.9	<0.150	395,000	2,510	3.69 J	<1.51	92.9 J	<0.849	349,000
U4-MW-09D	3/13/2024	N	EM19	UMCf	96.9 - 106.9	<0.750	483,000	1,620	2.79 J	<7.55	280	<4.24	413,000
U4-MW-09D	6/13/2024	N	EM20	UMCf	96.9 - 106.9	<0.150	416,000	628	4.34 J	<1.51	225	<0.849	459,000
U4-MW-09DD	4/14/2022	N	BL02	UMCf	119.8 - 129.8	<0.150	41,300	154	<0.840	3.53 J	18.0 J	<0.849	20,000
U4-MW-09DD	12/6/2022	N	EM04	UMCf	119.8 - 129.8	<0.150 UJ	39,300	137	<0.0596 UJ	<1.51 UJ	<28.1 UJ	<0.849 UJ	21,100
U4-MW-09DD	3/21/2023	N	EM07	UMCf	119.8 - 129.8	<0.150	76,600	199	<0.840	<1.51	<18.0	<0.849	43,200
U4-MW-09DD	6/15/2023	N	EM10	UMCf	119.8 - 129.8	<0.150	81,500	117	<0.840	<1.51	<18.0	<0.849	45,600
U4-MW-09DD	9/13/2023	N	EM13	UMCf	119.8 - 129.8	<0.150	167,000	13.8	5.65 J	<1.51	107	<0.849	97,000
U4-MW-09DD	12/13/2023	N	EM16	UMCf	119.8 - 129.8	<0.150	181,000	46.2	1.38 J	4.49 J	53.4 J	<0.849	94,000
U4-MW-09DD	3/14/2024	N	EM19	UMCf	119.8 - 129.8	<0.150	245,000	24.6	1.76 J	<1.51	837 J+	<0.849	112,000
U4-MW-09DD	6/13/2024	N	EM20	UMCf	119.8 - 129.8	<0.150	215,000	15.5 J+	<0.840	<1.51	634	<0.849	122,000
U4-MW-09I	4/14/2022	N	BL02	UMCf	76.8 - 86.8	<0.150	114,000	2,350	<0.840	2.16 J	<18.0	<0.849	42,300
U4-MW-09I	12/6/2022	N	EM04	UMCf	76.8 - 86.8	<0.750 UJ	218,000	13,400	0.835 J	8.06 J	<140 UJ	<4.24 UJ	100,000
U4-MW-09I	3/16/2023	N	EM07	UMCf	76.8 - 86.8	<0.150	266,000	8,400	<0.840	<1.51	22.6 J	<0.849	153,000
U4-MW-09I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<0.150	224,000	2,550	2.84 J	<1.51	35.7 J	<0.849	160,000
U4-MW-09I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	<0.150	328,000	5,550	<0.840	<1.51	<18.0	<0.849	251,000
U4-MW-09I	12/15/2023	N	EM16	UMCf	76.8 - 86.8	<1.50	366,000	3,860	3.59 J	1.57 J	<18.0	<0.849	350,000
U4-MW-09I	3/13/2024	N	EM19	UMCf	76.8 - 86.8	<0.750	436,000	2,480	2.96 J	<7.55	<18.0	<4.24	426,000
U4-MW-09I	6/13/2024	N	EM20	UMCf	76.8 - 86.8	<0.150	340,000	4,630	<0.840	1.62 J	<18.0	<0.849	397,000
U4-MW-09S	4/14/2022	N	BL02	UMCf	55.3 - 65.3	<0.150	72,400	398	<0.840	1.69 J	141	<0.849	30,200
U4-MW-09S	12/6/2022	N	EM04	UMCf	55.3 - 65.3	<0.150 UJ	17,700	2,780	<0.0596 UJ	<1.51 UJ	<28.1 UJ	<0.849 UJ	7,810
U4-MW-09S	3/17/2023	N	EM07	UMCf	55.3 - 65.3	<0.150	15,100	2,360	<0.840	<1.51	25.0 J	1.12 J	7,010
U4-MW-09S	6/15/2023	N	EM10	UMCf	55.3 - 65.3	<0.150	18,200	45.2	<0.840	<1.51	96.5 J	<0.849	11,600
U4-MW-09S	9/13/2023	N	EM13	UMCf	55.3 - 65.3	<1.50	36,300	120	2.28 J	<15.1	586	<8.49	30,500
U4-MW-09S	12/12/2023	N	EM16	UMCf	55.3 - 65.3	<0.750	448,000	2,710	2.04 J	17.1 J	21,700	<4.24	116,000
U4-MW-09S	3/13/2024	N	EM19	UMCf	55.3 - 65.3	<0.750	181,000	584	<0.840	<7.55	408	<4.24	90,700

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
						Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-09S	6/13/2024	N	EM20	UMCf	55.3 - 65.3	<0.150	112,000	371	<0.840	<1.51	804	<0.849	73,700
U4-MW-10D	4/14/2022	N	BL02	UMCf	96.9 - 106.9	<0.150	275,000	5,290	<0.840	<1.51	<18.0	<0.849	134,000
U4-MW-10D	12/5/2022	N	EM04	UMCf	96.9 - 106.9	<0.150	165,000	3,310	<0.840	<1.51	<18.0	<0.849	87,500
U4-MW-10D	3/17/2023	N	EM07	UMCf	96.9 - 106.9	<0.150	230,000	196	1.20 J	2.98 J	421	<0.849	184,000
U4-MW-10D	6/14/2023	N	EM10	UMCf	96.9 - 106.9	<0.150	187,000	45.6	0.983 J	<1.51	502	<0.849	164,000
U4-MW-10D	9/13/2023	N	EM13	UMCf	96.9 - 106.9	<0.150	197,000	12.7	1.73 J	<1.51	2,470	<0.849	178,000
U4-MW-10D	12/14/2023	N	EM16	UMCf	96.9 - 106.9	<0.150	145,000	18.9	1.22 J	<1.51	852	<0.849	126,000
U4-MW-10D	3/14/2024	N	EM19	UMCf	96.9 - 106.9	<0.150	140,000	30.4	1.24 J	4.79 J	141 J+	<0.849	128,000
U4-MW-10D	6/11/2024	N	EM20	UMCf	96.9 - 106.9	<0.150	131,000	40.1	<0.840	2.47 J	137 J+	<0.849	109,000
U4-MW-10I	4/14/2022	N	BL02	UMCf	77.1 - 87.1	0.369 J	278,000	5,960	<0.840	2.97 J	27.9 J	<0.849	135,000
U4-MW-10I	12/5/2022	N	EM04	UMCf	77.1 - 87.1	<0.150	180,000	490	<0.840	<1.51	<18.0	<0.849	87,800
U4-MW-10I	3/17/2023	N	EM07	UMCf	77.1 - 87.1	<0.150	208,000	23.9	1.35 J	<1.51	266	1.14 J	157,000
U4-MW-10I	6/14/2023	N	EM10	UMCf	77.1 - 87.1	<0.150	159,000	45.1	<0.840	<1.51	1,070	<0.849	119,000
U4-MW-10I	9/13/2023	N	EM13	UMCf	77.1 - 87.1	<0.150	225,000	38.7	2.53 J	2.78 J	15,200	<0.849	184,000
U4-MW-10I	12/14/2023	N	EM16	UMCf	77.1 - 87.1	4.14 J	421,000	13,900	2.82 J	19.7 J	34.5 J	<4.24	324,000
U4-MW-10I	3/13/2024	N	EM19	UMCf	77.1 - 87.1	<0.750	601,000	27,100	1.76 J	<7.55	<18.0	<4.24	409,000
U4-MW-10I	6/11/2024	N	EM20	UMCf	77.1 - 87.1	<0.150	195,000	1,040	<0.840	<1.51	29.0 J	<0.849	114,000
U4-MW-11D	4/15/2022	N	BL02	UMCf	97.4 - 107.4	<1.50	1,530,000	92,800	<4.20	<15.1	<90.0	<8.49	652,000
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	<15.0 UJ	1,200,000	75,700	<5.96 UJ	35.1 J	<2810 UJ	<84.9 UJ	601,000
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	<0.750	925,000	58,900	<0.840	<7.55	25.8 J	<4.24	499,000
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	<0.750	1,140,000	85,700	<8.40	32.6	<18.0	<4.24	596,000
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	<0.750	851,000	58,400	19.5 J	22.4 J	20.0 J	<4.24	526,000
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	<3.00	659,000	46,400	<0.840	44.4 J	<18.0	<17.0	480,000
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	<1.50	619,000	48,200	5.90 J	<15.1	18.1 J	<8.49	511,000
U4-MW-11D	6/12/2024	N	EM20	UMCf	97.4 - 107.4	<1.50	840,000	59,000	5.66 J	<15.1	<18.0	<8.49	569,000
U4-MW-11I	4/14/2022	N	BL02	UMCf	77.0 - 87.0	<0.150	161,000	6,040	<0.840	1.60 J	40.5 J	<0.849	47,100
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	----	----	----	----	----	----	----	----

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
						Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
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	<0.150 UJ	140,000	77.4	0.243 J	<1.51 UJ	134	<0.849 UJ	89,300
U4-MW-11I	12/6/2022	FD	EM04	UMCf	77.0 - 87.0	<0.150 UJ	140,000	76.1	0.242 J	<1.51 UJ	128	<0.849 UJ	88,400
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	<0.150	158,000 J	54.2 J	<0.840	<1.51	271 J+	<0.849	117,000 J
U4-MW-11I	3/16/2023	FD	EM07	UMCf	77.0 - 87.0	<0.150	105,000 J	37.1 J	<0.840	<1.51	295 J+	<0.849	78,000 J
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	<0.150	133,000	40.6	<0.840	<1.51 UJ	607	<0.849	107,000
U4-MW-11I	6/15/2023	FD	EM10	UMCf	77.0 - 87.0	<0.150	134,000	40.2	<0.840	11.4 J	629	<0.849	105,000
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	<0.750	501,000	2,820	17.6	17.6 J	18.0 J	<4.24	373,000
U4-MW-11I	9/13/2023	FD	EM13	UMCf	77.0 - 87.0	<0.750	515,000	2,820	17.8	17.6 J	<18.0	<4.24	385,000
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	<1.50	465,000	17,400	5.18 J	34.0 J	<18.0	<8.49	377,000
U4-MW-11I	12/13/2023	FD	EM16	UMCf	77.0 - 87.0	<1.50	467,000	17,400	3.90 J	33.3 J	<18.0	<8.49	378,000
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	<0.750	559,000	22,900	7.05 J	<7.55	<18.0	<4.24	500,000
U4-MW-11I	3/13/2024	FD	EM19	UMCf	77.0 - 87.0	<0.750	562,000	22,900	6.77 J	<7.55	<18.0	<4.24	502,000
U4-MW-11I	6/12/2024	N	EM20	UMCf	77.0 - 87.0	<1.50	468,000	22,300	7.38 J	<15.1	<18.0	<8.49	404,000
U4-MW-11I	6/12/2024	FD	EM20	UMCf	77.0 - 87.0	<1.50	459,000	22,000	6.56 J	<15.1	<18.0	<8.49	396,000
U4-MW-12D	4/15/2022	N	BL02	UMCf	97.1 - 107.1	<1.50	1,230,000	72,500	<4.20	<15.1	92.3 J	<8.49	501,000
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	----	----	----	----	----	----	----	----
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	<0.750	662,000	48,500	<0.298	<7.55	<140	<4.24	300,000
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	----	----	----	----	----	----	----	----

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
						Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-12D	3/14/2023	N	EM07	UMCf	97.1 - 107.1	<0.750	596,000	32,900	<0.840	<7.55	29.5 J	<4.24	286,000
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	<0.750	646,000	37,600	<0.840	18.2 J	<18.0	<4.24	334,000
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	<0.150	397,000	11,900	<0.840	<1.51	<18.0	<0.849	232,000
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	<0.750	396,000	8,060	1.51 J	15.3 J	<18.0	<4.24	302,000
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	<0.750	413,000	8,090	1.57 J	28.9	28.5 J	<4.24	362,000
U4-MW-12D	6/12/2024	N	EM20	UMCf	97.1 - 107.1	<0.750	488,000	16,100	4.27 J	<7.55	<18.0	<4.24	419,000
U4-MW-12I	4/14/2022	N	BL02	UMCf	76.8 - 86.8	2.51 J	317,000	17,200	<0.840	3.24 J	18.3 J	2.29	126,000
U4-MW-12I	4/14/2022	FD	BL02	UMCf	76.8 - 86.8	<0.150 UJ	314,000	16,700	<0.840	2.11 J	41.4 J	<0.849	125,000
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	<0.150	86,600	63.3	0.171 J	<1.51	<28.1	<0.849	44,500
U4-MW-12I	12/7/2022	FD	EM04	UMCf	76.8 - 86.8	<0.150	86,400	64.8	0.173 J	<1.51	41.2 J	<0.849	44,600
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	<0.150	127,000	15.9	1.39 J	<7.55	243	<0.849	89,200
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	<0.150	141,000	25.7	<0.840	<1.51	1,420	<0.849	121,000
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	<0.150	154,000	20.0	<0.840	<1.51	32.3 J	<0.849	121,000
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	<0.750	281,000	267	4.44 J	14.5 J	31.0 J	<4.24	233,000
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	0.607 J	281,000	1,280	2.96 J	3.35 J	40.0 J	<0.849	265,000
U4-MW-12I	6/13/2024	N	EM20	UMCf	76.8 - 86.8	0.614 J	306,000	15,800	<0.840	14.7	<18.0	<0.849	343,000
U4-MW-13D	4/14/2022	N	BL02	UMCf	98.2 - 108.2	<1.50	1,520,000	55,300	<4.20	<15.1	<90.0	<8.49	664,000
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	----	----	----	----	----	----	----	----
U4-MW-13D	12/7/2022	N	EM04	UMCf	98.2 - 108.2	<0.750	494,000	17,900	<0.298	<7.55	<140	<4.24	276,000
U4-MW-13D	1/12/2023	N	EM05	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----

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
						Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
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	<0.150	303,000	12,900	<0.840	<1.51	<18.0	<0.849	150,000
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	<0.150	261,000	9,000	<0.840	1.84 J	<18.0	<0.849	146,000
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	<0.150	364,000	12,500	1.97 J	5.42	<18.0	3.07 J+	211,000
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	<0.750	404,000	14,000	<0.840	15.7 J	<18.0	<4.24	226,000
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	<0.750	431,000	14,500	<0.840	<7.55	<18.0	<4.24	246,000
U4-MW-13D	6/13/2024	N	EM20	UMCf	98.2 - 108.2	<0.150	641,000	19,500	2.66 J	<1.51	<18.0	<0.849	352,000
U4-MW-13I	4/14/2022	N	BL02	UMCf	77.1 - 87.1	<0.150	395,000	20,300	<0.840	<1.51	<18.0	<0.849	169,000
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	<0.150 UJ	100,000	892	0.138 J	<1.51 UJ	32.3 J	<0.849 UJ	48,300
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	0.223 J	66,300	255	<0.840	<1.51	52.5 J	<0.849	44,100
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	<0.150	61,700	151	<0.840	<1.51	500	<0.849	54,900
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	<0.150	341,000	12,600	3.13 J	<1.51	<18.0	3.32 J+	210,000
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	<0.750	452,000	17,800	<0.840	19.8 J	<18.0	<4.24	256,000
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	<0.750	527,000	21,500	<0.840	<7.55	<18.0	<4.24	297,000
U4-MW-13I	6/13/2024	N	EM20	UMCf	77.1 - 87.1	<0.150	575,000	23,600	3.74 J	<1.51	<18.0	<0.849	318,000
U4-MW-14D	4/13/2022	N	BL02	UMCf	97.3 - 107.3	<0.150	561,000	308	<0.840	3.44 J	<18.0	<0.849	152,000
U4-MW-14D	12/6/2022	N	EM04	UMCf	97.3 - 107.3	<0.150 UJ	395,000	6,790	<0.0596 UJ	<1.51 UJ	40.3 J	1.09 J	128,000
U4-MW-14D	3/16/2023	N	EM07	UMCf	97.3 - 107.3	<0.150	181,000	4,500	<0.840	3.77 J	65.8 J	<0.849	71,500
U4-MW-14D	6/15/2023	N	EM10	UMCf	97.3 - 107.3	<0.150	224,000	4,270	<0.840	<1.51	<18.0	<0.849	85,000
U4-MW-14D	9/14/2023	N	EM13	UMCf	97.3 - 107.3	<0.150	219,000	2,540	<0.840	5.59	<18.0	<0.849	126,000
U4-MW-14D	12/15/2023	N	EM16	UMCf	97.3 - 107.3	<0.150	230,000	2,810	0.928 J	3.06 J	<18.0	<0.849	142,000
U4-MW-14D	3/13/2024	N	EM19	UMCf	97.3 - 107.3	<0.150	253,000	3,590	<0.840	<1.51	<18.0	<0.849	131,000

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
						Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium
						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	<0.150	211,000	2,840	0.958 J	<1.51	<18.0	<0.849	122,000
U4-MW-14I	4/14/2022	N	BL02	UMCf	77.3 - 87.3	<0.150	237,000	2,150	<0.840	<1.51	<18.0	<0.849	52,400
U4-MW-14I	12/6/2022	N	EM04	UMCf	77.3 - 87.3	<0.150 UJ	524,000	4,710	0.0650 J	<1.51 UJ	<28.1 UJ	<0.849 UJ	139,000
U4-MW-14I	3/16/2023	N	EM07	UMCf	77.3 - 87.3	<0.150	250,000	4,510	<0.840	<1.51	<18.0	<0.849	79,600
U4-MW-14I	6/15/2023	N	EM10	UMCf	77.3 - 87.3	<0.150	263,000	700	<0.840	1.54 J	<18.0	<0.849	115,000
U4-MW-14I	9/14/2023	N	EM13	UMCf	77.3 - 87.3	<0.150	296,000	2,060	<0.840	1.60 J	<18.0	<0.849	123,000
U4-MW-14I	12/14/2023	N	EM16	UMCf	77.3 - 87.3	<0.150	301,000	2,150	1.42 J	<1.51	38.9 J	<0.849	167,000
U4-MW-14I	3/13/2024	N	EM19	UMCf	77.3 - 87.3	<0.150	363,000	2,410	<0.840	1.61 J	<18.0	<0.849	200,000
U4-MW-14I	6/14/2024	N	EM20	UMCf	77.3 - 87.3	<0.150	299,000	2,830	1.16 J	<1.51	<18.0	<0.849	173,000
U4-MW-15D	4/13/2022	N	BL02	UMCf	96.0 - 106.0	<0.150	338,000	4,940	<0.840	<1.51	21.8 J	<0.849	157,000
U4-MW-15D	12/5/2022	N	EM04	UMCf	96.0 - 106.0	<0.150	208,000	3,170	<0.840	<1.51	<18.0	<0.849	92,400
U4-MW-15D	3/20/2023	N	EM07	UMCf	96.0 - 106.0	<0.150	156,000	3,210	<0.840	2.97 J	<18.0	<0.849	80,100
U4-MW-15D	6/14/2023	N	EM10	UMCf	96.0 - 106.0	<0.150	197,000	3,870	<0.840	<1.51	<18.0	<0.849	99,200
U4-MW-15D	9/13/2023	N	EM13	UMCf	96.0 - 106.0	<0.150	185,000	3,310	1.23 J	<1.51	<18.0	<0.849	89,900
U4-MW-15D	12/12/2023	N	EM16	UMCf	96.0 - 106.0	<0.150	214,000	3,370	<0.840	4.29 J	49.3 J	<0.849	105,000
U4-MW-15D	3/12/2024	N	EM19	UMCf	96.0 - 106.0	<0.150	243,000	3,560	0.981 J	<1.51	35.5 J	<0.849	152,000
U4-MW-15D	6/14/2024	N	EM20	UMCf	96.0 - 106.0	<1.50	180,000	2,570	<0.840	<15.1	<18.0	<8.49	108,000
U4-MW-15DD	4/13/2022	N	BL02	UMCf	120.3 - 130.3	<0.150	34,000	64.4	<0.840	2.23 J	162	<0.849	15,400
U4-MW-15DD	12/5/2022	N	EM04	UMCf	120.3 - 130.3	<0.150	32,300	16.3	<0.840	<1.51	<18.0	<0.849	16,800
U4-MW-15DD	3/15/2023	N	EM07	UMCf	120.3 - 130.3	<0.150	30,600	13.8	<0.840	1.53 J	45.7 J	4.52 J+	17,300
U4-MW-15DD	6/13/2023	N	EM10	UMCf	120.3 - 130.3	<0.150	32,300	7.06 J	<0.840	<1.51	29.4 J	<0.849	17,000 J+
U4-MW-15DD	9/14/2023	N	EM13	UMCf	120.3 - 130.3	<0.150	28,400	3.78 J	<0.840	<1.51	40.0 J	<0.849	16,000
U4-MW-15DD	12/13/2023	N	EM16	UMCf	120.3 - 130.3	<0.150	30,100	5.60 J	<0.840	2.13 J	85.5 J	<0.849	16,900
U4-MW-15DD	3/12/2024	N	EM19	UMCf	120.3 - 130.3	<0.150	31,800	2.07 J	<0.840	<1.51	<18.0	<0.849	19,200
U4-MW-15DD	6/14/2024	N	EM20	UMCf	120.3 - 130.3	<0.150	31,600	12.6	<0.840	<1.51	<18.0	<0.849	16,500
U4-MW-15I	4/12/2022	N	BL02	UMCf	76.8 - 86.8	<0.150	127,000	5,510	<0.840	<1.51	24.4 J	<0.849	56,500
U4-MW-15I	12/5/2022	N	EM04	UMCf	76.8 - 86.8	<0.150	163,000	5,040	<0.840	<1.51	<18.0	<0.849	73,800
U4-MW-15I	3/17/2023	N	EM07	UMCf	76.8 - 86.8	<0.150	194,000	108	<0.840	<1.51	7,360	<0.849	137,000
U4-MW-15I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<0.150	178,000	89.2	1.25 J	<1.51	5,050	<0.849	136,000
U4-MW-15I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	<0.150	180,000	42.6	1.59 J	<1.51	143	<0.849	145,000
U4-MW-15I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	<0.750	190,000	1,940	2.81 J	11.5 J	92.8 J	<4.24	147,000
U4-MW-15I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	<0.750	264,000	5,400	1.82 J	31.0	29.5 J	<4.24	227,000
U4-MW-15I	6/17/2024	N	EM20	UMCf	76.8 - 86.8	<0.750	234,000	4,740	3.09 J	<7.55	<18.0	<4.24	202,000
U4-MW-15S	4/13/2022	N	BL02	UMCf	54.8 - 64.8	<0.150	166,000 J	268 J	<0.840	<1.51	95.9 J	<0.849	50,100 J
U4-MW-15S	12/5/2022	N	EM04	UMCf	54.8 - 64.8	<0.150	197,000	16.9	<0.840	<1.51	3,440	<0.849	61,300
U4-MW-15S	3/13/2023	N	EM07	UMCf	54.8 - 64.8	<0.150	94,100	9.67 J	1.30 J	<7.55	<18.0	<0.849	56,900
U4-MW-15S	6/13/2023	N	EM10	UMCf	54.8 - 64.8	0.278 J	96,700	9.11 J	<0.840	<1.51	154 J+	<0.849	69,600 J+
U4-MW-15S	9/14/2023	N	EM13	UMCf	54.8 - 64.8	<0.150	135,000	11.0	<0.840	<1.51	1,790	1.22 J	120,000
U4-MW-15S	12/11/2023	N	EM16	UMCf	54.8 - 64.8	<0.150	143,000	5.70 J	3.00 J	7.07 J	289	<0.849	142,000
U4-MW-15S	3/12/2024	N	EM19	UMCf	54.8 - 64.8	<0.150	138,000	6.41 J	1.77 J	<1.51	260 J+	<0.849	161,000
U4-MW-15S	3/26/2024	N	EM19	UMCf	54.8 - 64.8	<0.150	117,000	5.49 J	<0.840	<1.51	97.9 J	<0.849	120,000
U4-MW-15S	6/14/2024	N	EM20	UMCf	54.8 - 64.8	<0.150	105,000	3.42 J	<0.840	<1.51	2,020	<0.849	85,300
U4-MW-16D	4/11/2022	N	BL02	UMCf	96.8 - 106.8	<1.50	474,000	12,600	<0.840	<15.1	<18.0	<8.49	240,000

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
						Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-16D	12/5/2022	N	EM04	UMCf	96.8 - 106.8	<0.150	149,000	27,600	<0.840	<1.51	<18.0	<0.849	318,000
U4-MW-16D	3/14/2023	N	EM07	UMCf	96.8 - 106.8	<0.750	601,000	16,800	<0.840	<7.55	<18.0	<4.24	326,000
U4-MW-16D	6/13/2023	N	EM10	UMCf	96.8 - 106.8	<1.50	816,000	39,300	<0.840	<15.1	<18.0	<8.49	502,000 J+
U4-MW-16D	9/15/2023	N	EM13	UMCf	96.8 - 106.8	<0.750	596,000	17,700	<0.840	15.1 J	21.7 J	<4.24	340,000
U4-MW-16D	12/14/2023	N	EM16	UMCf	96.8 - 106.8	<1.50	713,000	22,000	<0.840	21.5 J	<18.0	<8.49	357,000
U4-MW-16D	3/14/2024	N	EM19	UMCf	96.8 - 106.8	<0.750	628,000	17,300	<0.840	<7.55	<18.0	<4.24	312,000
U4-MW-16D	6/17/2024	N	EM20	UMCf	96.8 - 106.8	<0.750	691,000	26,000	0.903 J	<7.55	<18.0	<4.24	349,000
U4-MW-16DD	4/12/2022	N	BL02	UMCf	120.8 - 130.8	<0.150	114,000	922	<0.840	2.29 J	25.5 J	<0.849	48,200
U4-MW-16DD	12/5/2022	N	EM04	UMCf	120.8 - 130.8	<0.150	77,200	203	<0.840	<1.51	<18.0	<0.849	36,000
U4-MW-16DD	3/15/2023	N	EM07	UMCf	120.8 - 130.8	<0.150	67,600	167	<0.840	2.22 J	<18.0	<0.849	33,400
U4-MW-16DD	6/13/2023	N	EM10	UMCf	120.8 - 130.8	<0.150	60,000	192	<0.840	3.20 J	<18.0	<0.849	28,800 J+
U4-MW-16DD	9/14/2023	N	EM13	UMCf	120.8 - 130.8	<0.150	54,700	146	<0.840	1.68 J	<18.0	<0.849	25,900
U4-MW-16DD	12/13/2023	N	EM16	UMCf	120.8 - 130.8	<0.150	55,700	99.0	<0.840	3.38 J	<18.0	<0.849	26,600
U4-MW-16DD	3/14/2024	N	EM19	UMCf	120.8 - 130.8	<0.150	59,000	18.5	<0.840	2.06 J	<18.0	<0.849	26,600
U4-MW-16DD	6/17/2024	N	EM20	UMCf	120.8 - 130.8	<0.150	52,400	15.2	1.65 J	<1.51	<18.0	<0.849	25,000
U4-MW-16I	4/11/2022	N	BL02	UMCf	77.0 - 87.0	<0.150	231,000	8,620	<0.840	<1.51	<18.0	<0.849	76,200
U4-MW-16I	12/5/2022	N	EM04	UMCf	77.0 - 87.0	<0.150	153,000	10.9	<0.840	<1.51	33.5 J	<0.849	85,400
U4-MW-16I	12/5/2022	FD	EM04	UMCf	77.0 - 87.0	<0.150	147,000	11.4	<0.840	<1.51	33.8 J	<0.849	86,100
U4-MW-16I	3/13/2023	N	EM07	UMCf	77.0 - 87.0	<0.150	264,000	19.0	1.47 J	<1.51	3,540	1.23 J	229,000
U4-MW-16I	3/13/2023	FD	EM07	UMCf	77.0 - 87.0	<0.150	264,000	18.7	1.01 J	<1.51	3,530	<0.849	229,000
U4-MW-16I	6/12/2023	N	EM10	UMCf	77.0 - 87.0	<0.150	215,000	16.8	<0.840	1.67 J	5,740	<0.849 UJ	199,000
U4-MW-16I	6/12/2023	FD	EM10	UMCf	77.0 - 87.0	<0.150	217,000	14.7	<0.840	2.48 J	5,810	4.76 J	202,000
U4-MW-16I	9/11/2023	N	EM13	UMCf	77.0 - 87.0	0.162 J	515,000	13,800	6.06 J	3.78 J	18.7 J	2.11 J+	473,000
U4-MW-16I	9/11/2023	FD	EM13	UMCf	77.0 - 87.0	<0.150	509,000	13,800	5.81 J	3.43 J	20.4 J	<0.849	472,000
U4-MW-16I	12/11/2023	N	EM16	UMCf	77.0 - 87.0	<0.750	628,000	28,900	<0.840	36.4 J+	<18.0	<4.24	443,000
U4-MW-16I	12/11/2023	FD	EM16	UMCf	77.0 - 87.0	<0.750	621,000	28,700	<0.840	37.2 J+	<18.0	<4.24	438,000
U4-MW-16I	3/11/2024	N	EM19	UMCf	77.0 - 87.0	<0.750	676,000	31,700	<0.840	<7.55	<18.0	<4.24	417,000
U4-MW-16I	3/11/2024	FD	EM19	UMCf	77.0 - 87.0	<0.750	707,000	33,300	<0.840	<7.55	<18.0	<4.24	437,000
U4-MW-16I	6/18/2024	N	EM20	UMCf	77.0 - 87.0	<0.750	607,000	23,000	11.4	<7.55	39.0 J	<4.24	378,000
U4-MW-16I	6/18/2024	FD	EM20	UMCf	77.0 - 87.0	<0.750	601,000	22,600	10.9	<7.55	38.5 J	<4.24	376,000
U4-MW-16S	4/12/2022	N	BL02	UMCf	54.8 - 64.8	<0.150	169,000	427	<0.840	<1.51	<18.0	<0.849	37,500
U4-MW-16S	4/12/2022	FD	BL02	UMCf	54.8 - 64.8	<0.150	168,000	426	<0.840	<1.51	<18.0	<0.849	37,700
U4-MW-16S	12/6/2022	N	EM04	UMCf	54.8 - 64.8	<0.150 UJ	136,000	77.3	0.147 J	<1.51 UJ	<28.1 UJ	<0.849 UJ	57,200
U4-MW-16S	3/15/2023	N	EM07	UMCf	54.8 - 64.8	<0.150	203,000	6.40 J	<0.840	<1.51	10,700	<0.849	151,000
U4-MW-16S	6/13/2023	N	EM10	UMCf	54.8 - 64.8	<0.150	254,000	13.3 J+	<0.840	<1.51	12,500	<0.849	203,000 J+
U4-MW-16S	9/11/2023	N	EM13	UMCf	54.8 - 64.8	<0.150	86,400	6.78 J	1.28 J	<1.51	4,050	1.26 J	93,200
U4-MW-16S	12/11/2023	N	EM16	UMCf	54.8 - 64.8	<0.150	120,000	4.64 J	1.99 J	5.88 J+	5,940	<0.849	118,000
U4-MW-16S	3/11/2024	N	EM19	UMCf	54.8 - 64.8	<0.150	145,000	9.10 J	<0.840	<1.51	7,480	<0.849	169,000
U4-MW-16S	6/17/2024	N	EM20	UMCf	54.8 - 64.8	<0.150	92,900	2.98 J	2.37 J	<1.51	3,490	<0.849	113,000
U4-SLMW	11/10/2022	N	EM03		-	----	----	----	----	----	----	----	----
U4-T3	10/13/2022	N	EM02		-	----	----	----	----	----	----	----	----
U4-T3	11/3/2022	N	EM03		-	----	----	----	----	----	----	----	----
U4-T3	12/6/2022	N	EM04		-	----	----	----	----	----	----	----	----

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
						Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
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 sample quantitation limit.
- 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.

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
						Manganese	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silver	Sodium
						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	2.11 J	8.60	<4.08	----	33,800	4.45 J	<0.350	1,700,000
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	3.41 J	7.87	<4.08	----	60,000	4.63 J	<0.350	2,690,000
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	<0.934	10.2	<4.08	----	53,600	3.17 J	<0.350	2,520,000
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	34.0	3.50 J	<8.16	----	55,600	3.48 J	<0.700	2,820,000
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	1,220	9.13	51.6	----	118,000	5.73 J	<0.350	2,670,000
M-251-100	6/17/2024	N	EM20	UMCf	92.5 - 102.5	1,830	17.7	41.4 J+	----	73,600	4.05 J	<0.700	2,760,000
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	<0.934	24.2	<0.816	----	31,400	2.90	<0.0700	815,000
M-251-60	6/14/2023	N	EM10	UMCf	52.3 - 62.3	<0.934	23.4	<0.816	----	18,800	3.26	<0.0700	836,000
M-251-60	9/14/2023	N	EM13	UMCf	52.3 - 62.3	2.49 J	21.7	1.01 J	----	24,800	2.73	<0.0700	772,000
M-251-60	12/11/2023	N	EM16	UMCf	52.3 - 62.3	13.2	21.9	1.54 J	----	20,200	2.31	<0.0700	770,000
M-251-60	3/12/2024	N	EM19	UMCf	52.3 - 62.3	21.2	19.1	2.07	----	19,300	0.963 J	<0.0700	642,000
M-251-60	6/19/2024	N	EM20	UMCf	52.3 - 62.3	65.2	9.18	2.14	----	16,200	<0.300	<0.0700	621,000
M-252	4/21/2022	N	BL02	UMCf	132.3 - 142.3	----	----	----	----	----	----	----	----
M-252	3/15/2023	N	EM07	UMCf	132.3 - 142.3	21.9	7.34	<0.816	----	23,700	1.89 J	<0.0700	307,000
M-252	9/19/2023	N	EM13	UMCf	132.3 - 142.3	<0.934	5.67	6.46	----	11,600	1.75 J	<0.0700	195,000
M-252	12/18/2023	N	EM16	UMCf	132.3 - 142.3	41.6	7.84	0.936 J	----	13,300	1.99 J	<0.0700	225,000
M-252	3/12/2024	N	EM19	UMCf	132.3 - 142.3	3.03 J	7.94	0.958 J	----	15,300	1.82 J	<0.0700	254,000
M-252	6/19/2024	N	EM20	UMCf	132.3 - 142.3	74.4	8.31	1.11 J	----	12,200	1.27 J	<0.0700	207,000
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	3.24 J	5.79	1.55 J	----	5,180	2.33 J+	<0.0700	109,000
U4-E-01D	6/20/2024	N	EM20	UMCf	94.7 - 109.7	12,500	81.1	36.8	----	536,000	3.31 J	<0.630	978,000
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	9.17 J	7.93	1.50 J	----	23,900	2.79 J+	<0.0700	1,240,000

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
						Manganese	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silver	Sodium
						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	5,440	<1.16	34.7	----	429,000	<2.70	<0.630	744,000
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	5.58 J	5.60	7.62	----	5,090	2.54 J+	0.250 J	107,000
U4-E-02D	6/19/2024	N	EM20	UMCf	94.4 - 109.4	6,740	<1.16	24.5	----	467,000	3.87 J	<0.350	802,000
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	25.4	6.14	<0.816	----	7,080	2.28 J+	0.161 J	310,000
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	5,690	14.5 J	92.8	----	203,000	8.07 J	<0.350	1,220,000
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	3.76 J	13.1	<4.08	----	39,600	4.70 J	<0.350	2,730,000
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	----	----	----	----	----	----	----	----

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
						Manganese	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silver	Sodium
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-E-03D	10/16/2023	N	EM14	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----
U4-E-03D	6/10/2024	N	EM20	UMCf	95.1 - 110.1	4,840	3.76 J	22.4	----	352,000	2.97	<0.0700	682,000
U4-E-03D	6/10/2024	FD	EM20	UMCf	95.1 - 110.1	4,840	2.68 J	21.8	----	344,000	2.51	<0.0700	669,000
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	4.47 J	4.87 J	4.33	----	5,050	1.98 J	<0.0700	106,000
U4-E-04D	6/20/2024	N	EM20	UMCf	95.0 - 110.0	5,030	<10.4	12.3 J	----	442,000	4.51 J	<0.630	787,000
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	20.2	13.6	78.0	----	65,500	6.52 J	<0.350	4,390,000
U4-E-04I	6/20/2024	N	EM20	UMCf	75.0 - 90.0	5,340	38.7 J	34.7	----	343,000	3.80	<0.0700	674,000
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	253	5.45	7.12	----	5,590	1.43 J	<0.0700	102,000
U4-E-05D	6/10/2024	N	EM20	UMCf	95.0 - 110.0	1,990	3.55 J	19.3	----	272,000	3.51	<0.0700	319,000
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	9.92 J	9.77	58.2	----	11,800	1.85 J	<0.0700	698,000
U4-E-05I	6/19/2024	N	EM20	UMCf	75.0 - 90.0	5,380	28.7 J	30.6	----	340,000	4.18 J	<0.630	816,000
U4-E-06D	4/11/2022	N	BL02	UMCf	95.1 - 110.1	19.9	3.31 J	5.53	25.3 J	32,800 J	2.53	<0.0700	1,310,000
U4-E-06D	6/20/2024	N	EM20	UMCf	95.1 - 110.1	1,020	256	<7.34	----	127,000	4.93 J	<0.630	284,000
U4-E-06I	4/11/2022	N	BL02	UMCf	73.2 - 88.2	8.86 J	13.6	<0.816	45.1 J	23,300	2.37	<0.0700	624,000
U4-E-06I	4/11/2022	FD	BL02	UMCf	73.2 - 88.2	8.46 J	13.9	<0.816	46.2 J	23,200	2.53	<0.0700	622,000
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	618	16.8	25.5	----	49,300	<1.50	<0.350	2,110,000
U4-E-07D	4/12/2022	N	BL02	UMCf	94.6 - 109.6	22.5 J	8.85 J	<8.16	<91.5	74,800	9.10 J	<0.700	5,760,000
U4-E-07D	6/20/2024	N	EM20	UMCf	94.6 - 109.6	2,170	228	41.3	----	99,300	3.58	<0.0700	873,000
U4-E-07I	4/12/2022	N	BL02	UMCf	74.7 - 89.7	8.86 J	18.0	1.14 J	194 J	23,400	3.34	<0.0700	1,610,000
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	----	----	----	----	----	----	----	----

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
						Manganese	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silver	Sodium
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
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	88.9	18.2	<4.08	----	44,600	2.63 J	<0.350	2,780,000
U4-E-08D	4/12/2022	N	BL02	UMCf	94.6 - 109.6	54.7	10.2 J	<8.16	<91.5	82,200	7.15 J	<0.700	6,200,000
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	23.2	<5.80	<8.16	172 J	46,900	3.01 J	<0.700	1,840,000
U4-E-09D	6/10/2024	N	EM20	UMCf	94.5 - 109.5	4,310	4.41 J	18.0	----	387,000	3.29 J	<0.350	672,000
U4-E-09I	4/14/2022	N	BL02	UMCf	74.9 - 89.9	21.6	13.2	2.61	199 J	25,300	2.47	<0.0700	1,100,000
U4-E-09I	6/10/2024	N	EM20	UMCf	74.9 - 89.9	3,380	5.62	38.9	----	408,000	4.58 J	<0.350	666,000
U4-E-09I	6/10/2024	FD	EM20	UMCf	74.9 - 89.9	3,300	6.83	43.3	----	404,000	3.92 J	<0.350	657,000
U4-E-10D	4/13/2022	N	BL02	UMCf	94.5 - 109.5	7.51 J	8.19	20.5	34.0 J	29,700	2.51	<0.0700	1,120,000
U4-E-10D	6/19/2024	N	EM20	UMCf	94.5 - 109.5	5,990	15.1	25.4	----	417,000	5.93 J	<0.350	891,000
U4-E-10I	4/13/2022	N	BL02	UMCf	74.2 - 89.2	7.93 J	11.6	2.29	<18.3	26,000	2.58	<0.0700	1,410,000
U4-E-10I	6/11/2024	N	EM20	UMCf	74.2 - 89.2	3,060	19.3	41.3	----	408,000	4.45	<0.0700	652,000
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	----	----	----	----	----	----	----	----
U4-MW-01D	3/20/2023	N	EM07	UMCf	96.7 - 106.7	<0.934	<1.16	<0.816	----	5,630	3.03	<0.0700	165,000
U4-MW-01D	6/13/2023	N	EM10	UMCf	96.7 - 106.7	2.25 J	5.02 J+	<8.16	----	26,500	148	<0.700	769,000
U4-MW-01D	9/14/2023	N	EM13	UMCf	96.7 - 106.7	3.88 J	4.70 J	<4.08	----	27,600	1.74 J	<0.350	729,000
U4-MW-01D	12/14/2023	N	EM16	UMCf	96.7 - 106.7	1.48 J	1.41 J	<4.08	----	27,600	2.49 J	<0.350	705,000
U4-MW-01D	3/13/2024	N	EM19	UMCf	96.7 - 106.7	6.51 J	5.12	<4.08	----	26,900	1.71 J	<0.350	783,000
U4-MW-01D	6/18/2024	N	EM20	UMCf	96.7 - 106.7	6.81 J	2.38 J	<0.816	----	26,500	2.26	<0.0700	677,000

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
						Manganese	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silver	Sodium
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
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	11.3 J+	6.64	<0.816	----	21,800	1.92 J	<0.0700	377,000
U4-MW-01DD	6/13/2023	N	EM10	UMCf	119.9 - 129.9	3.52 J	3.58 J	<8.16	----	23,300	82.9	<0.700	421,000
U4-MW-01DD	9/14/2023	N	EM13	UMCf	119.9 - 129.9	8.70 J	5.18	<0.816	----	25,300	2.05	<0.0700	425,000
U4-MW-01DD	12/15/2023	N	EM16	UMCf	119.9 - 129.9	8.30 J	5.29	1.75 J	----	16,100	2.07	<0.0700	296,000
U4-MW-01DD	3/12/2024	N	EM19	UMCf	119.9 - 129.9	4.82 J	6.42	<0.816	----	16,300	2.12	<0.0700	290,000
U4-MW-01DD	6/18/2024	N	EM20	UMCf	119.9 - 129.9	8.80 J	4.87 J	<0.816	----	15,400	1.96 J	<0.0700	275,000
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	4.20 J	<1.16	<0.816	----	7,270	3.38	0.146 J	213,000
U4-MW-01I	6/12/2023	N	EM10	UMCf	76.7 - 86.7	1.32 J	5.17	2.49	----	27,400	2.52	<0.0700	779,000
U4-MW-01I	9/14/2023	N	EM13	UMCf	76.7 - 86.7	1.96 J	5.64	<4.08	----	31,100	2.68 J	<0.350	873,000
U4-MW-01I	12/15/2023	N	EM16	UMCf	76.7 - 86.7	178	<1.16	11.1	----	35,700	3.03	0.562 J	972,000
U4-MW-01I	3/13/2024	N	EM19	UMCf	76.7 - 86.7	5.75 J	7.31	<4.08	----	38,700	1.98 J	<0.350	1,040,000
U4-MW-01I	6/18/2024	N	EM20	UMCf	76.7 - 86.7	14.5	4.21 J	<0.816	----	37,400	2.30	<0.0700	999,000
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	<0.934	24.4	<0.816	----	17,500	2.64	<0.0700	859,000
U4-MW-01S	6/13/2023	N	EM10	UMCf	54.7 - 64.7	82.4	24.6	172	----	18,800	3.01	<0.0700	854,000
U4-MW-01S	9/15/2023	N	EM13	UMCf	54.7 - 64.7	0.987 J	26.5	<0.816	----	19,300	2.67	<0.0700	907,000
U4-MW-01S	12/13/2023	N	EM16	UMCf	54.7 - 64.7	<0.934	22.8	<0.816	----	16,800	1.85 J	<0.0700	742,000
U4-MW-01S	3/13/2024	N	EM19	UMCf	54.7 - 64.7	3.03 J	25.9	1.40 J	----	16,000	1.08 J	<0.0700	664,000
U4-MW-01S	6/18/2024	N	EM20	UMCf	54.7 - 64.7	6.28 J	22.6	1.29 J	----	15,000	0.454 J	<0.0700	662,000
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	5.23 J	16.0	<8.16	----	94,100	7.47 J	1.64 J	6,650,000
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	4.80 J	14.7 J	<8.16	----	82,700	51.6	0.800 J	7,010,000
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	3.39 J	16.4	<16.3	----	110,000	6.05 J	<1.40	7,670,000
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	----	----	----	----	----	----	----	----
U4-MW-02D	12/14/2023	N	EM16	UMCf	95.0 - 110.0	12.7	7.97	<16.3	----	101,000	<6.00	<1.40	6,490,000
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	7.50 J	16.4	<8.16	----	87,200	3.46 J	<0.700	6,640,000
U4-MW-02D	6/17/2024	N	EM20	UMCf	95.0 - 110.0	49.7	13.2	<8.16	----	74,600	4.57 J	<0.700	4,610,000
U4-MW-02I	4/14/2022	N	BL02	UMCf	75.0 - 90.0	----	----	----	----	----	----	----	----

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
						Manganese	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silver	Sodium
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
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	221	23.4	103	----	73,000	6.92 J	<0.350	4,660,000
U4-MW-02I	3/17/2023	FD	EM07	UMCf	75.0 - 90.0	229	23.8	99.2	----	71,300	4.91 J	<0.350	4,660,000
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	972	7.65	46.0	----	19,000	0.654 J	<0.0700	836,000
U4-MW-02I	6/12/2023	FD	EM10	UMCf	75.0 - 90.0	943	7.12	46.1	----	18,400	0.552 J	<0.0700	810,000
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	2,330	22.4	104	----	34,700	<1.50	<0.350	1,630,000
U4-MW-02I	9/11/2023	FD	EM13	UMCf	75.0 - 90.0	2,310	20.9	105	----	34,000	1.65 J	<0.350	1,600,000
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	984	15.3	123	----	59,000	3.15 J	<0.700	3,760,000
U4-MW-02I	12/14/2023	FD	EM16	UMCf	75.0 - 90.0	983	14.9	116	----	58,700	2.20 J	<0.350	3,670,000
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	1,350	23.4	153	----	65,300	<3.00	<0.700	4,450,000
U4-MW-02I	3/13/2024	FD	EM19	UMCf	75.0 - 90.0	1,370	23.0	152	----	66,600	3.91 J	<0.700	4,330,000
U4-MW-02I	6/17/2024	N	EM20	UMCf	75.0 - 90.0	763	26.8	91.9	----	38,200	<1.50	<0.350	2,150,000
U4-MW-02I	6/17/2024	FD	EM20	UMCf	75.0 - 90.0	722	25.9	85.5	----	40,200	<1.50	<0.350	2,540,000
U4-MW-03D	4/20/2022	N	BL02	UMCf	96.6 - 106.6	----	----	----	----	----	----	----	----
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	8.20 J	4.49 J	<4.08	----	35,900	1.88 J	<0.350	1,840,000
U4-MW-03D	3/16/2023	FD	EM07	UMCf	96.6 - 106.6	2.65 J	5.12	<4.08	----	35,900	3.11 J	<0.350	1,890,000
U4-MW-03D	6/15/2023	N	EM10	UMCf	96.6 - 106.6	1.55 J	4.90 J	<4.08	----	36,600	3.02 J	<0.350	1,820,000
U4-MW-03D	9/14/2023	N	EM13	UMCf	96.6 - 106.6	<0.934	6.42	<4.08	----	39,000	2.48 J	<0.350	2,000,000

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	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020
						Manganese	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silver	Sodium
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-03D	12/13/2023	N	EM16	UMCf	96.6 - 106.6	44.3	<1.16	<4.08	----	38,000	2.72 J	<0.350	1,980,000
U4-MW-03D	3/15/2024	N	EM19	UMCf	96.6 - 106.6	281	2.18 J	39.3	----	34,700	1.40 J	<0.0700	1,660,000
U4-MW-03D	6/17/2024	N	EM20	UMCf	96.6 - 106.6	227	1.94 J	4.31 J+	----	37,700	2.05	<0.0700	1,470,000
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	3.34 J	8.98	<0.816	----	6,600	1.83 J	<0.0700	145,000
U4-MW-03DD	6/15/2023	N	EM10	UMCf	119.7 - 129.7	1.74 J	8.83 J+	1.35 J	----	6,690	1.57 J	<0.0700	143,000
U4-MW-03DD	9/14/2023	N	EM13	UMCf	119.7 - 129.7	3.27 J	8.47	1.26 J	----	6,230	1.36 J	<0.0700	138,000
U4-MW-03DD	12/14/2023	N	EM16	UMCf	119.7 - 129.7	8.00 J	8.15	<0.816	----	6,760	1.42 J	<0.0700	141,000
U4-MW-03DD	3/14/2024	N	EM19	UMCf	119.7 - 129.7	4.16 J	7.48	<0.816	----	6,740	1.38 J	<0.0700	141,000
U4-MW-03DD	6/17/2024	N	EM20	UMCf	119.7 - 129.7	5.37 J	8.78	1.80 J	----	6,660	0.792 J	<0.0700	139,000
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	5.11 J	5.12	<0.816	----	37,100	2.88 J+	0.0987 J	1,590,000
U4-MW-03I	6/14/2023	N	EM10	UMCf	76.6 - 86.6	1.63 J	6.28	<4.08	----	36,500	3.33 J	<0.350	1,540,000
U4-MW-03I	6/14/2023	FD	EM10	UMCf	76.6 - 86.6	1.57 J	7.16	<4.08	----	38,100	3.25 J	<0.350	1,640,000
U4-MW-03I	9/11/2023	N	EM13	UMCf	76.6 - 86.6	416	3.18 J	8.15 J	----	43,500	2.90 J	0.501 J	1,910,000
U4-MW-03I	9/11/2023	FD	EM13	UMCf	76.6 - 86.6	312	3.98 J	7.49 J	----	42,700	2.59 J	0.414 J	1,900,000
U4-MW-03I	12/13/2023	N	EM16	UMCf	76.6 - 86.6	66.5	2.36 J	<4.08	----	39,300	2.39 J	<0.350	1,850,000
U4-MW-03I	12/13/2023	FD	EM16	UMCf	76.6 - 86.6	67.8	2.21 J	<4.08	----	38,600	2.81 J	<0.350	1,840,000
U4-MW-03I	3/14/2024	N	EM19	UMCf	76.6 - 86.6	214	2.76 J	<4.08	----	36,400	3.48 J	<0.350	1,670,000
U4-MW-03I	3/14/2024	FD	EM19	UMCf	76.6 - 86.6	221	3.33 J	<4.08	----	36,600	3.25 J	<0.350	1,660,000
U4-MW-03I	6/19/2024	N	EM20	UMCf	76.6 - 86.6	1,100	8.57	15.4	----	31,600	1.02 J	<0.0700	1,530,000
U4-MW-03I	6/19/2024	FD	EM20	UMCf	76.6 - 86.6	1,040	7.56	15.4	----	31,800	0.900 J	<0.0700	1,450,000
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	3.04 J	20.8	<0.816	----	11,100	3.27 J+	<0.0700	892,000
U4-MW-03S	6/15/2023	N	EM10	UMCf	54.5 - 64.5	<0.934	21.4	<0.816	----	12,000	2.90	<0.0700	971,000
U4-MW-03S	9/14/2023	N	EM13	UMCf	54.5 - 64.5	1.29 J	26.2	1.23 J	----	10,400	2.07	<0.0700	881,000
U4-MW-03S	12/13/2023	N	EM16	UMCf	54.5 - 64.5	11.7	36.9	2.77 J+	----	10,700	2.28	<0.0700	878,000
U4-MW-03S	3/14/2024	N	EM19	UMCf	54.5 - 64.5	23.2	37.1	2.92	----	10,700	0.989 J	<0.0700	897,000
U4-MW-03S	6/14/2024	N	EM20	UMCf	54.5 - 64.5	3.06 J	44.2	2.12	----	11,500	0.480 J	<0.0700	945,000
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	1.08 J	<1.16	<0.816	----	2,920	2.08	<0.0700	205,000
U4-MW-04D	6/14/2023	N	EM10	UMCf	97.0 - 107.0	8.64 J	3.74 J	<4.08	----	16,200	2.08 J	<0.350	965,000
U4-MW-04D	9/15/2023	N	EM13	UMCf	97.0 - 107.0	73.2	5.53	<4.08	----	23,500	1.70 J	<0.350	1,330,000
U4-MW-04D	12/12/2023	N	EM16	UMCf	97.0 - 107.0	112	4.66 J	<4.08	----	20,200	1.89 J	<0.350	1,280,000
U4-MW-04D	3/12/2024	N	EM19	UMCf	97.0 - 107.0	233	3.98 J	7.70 J	----	25,600	<1.50	<0.350	1,590,000
U4-MW-04D	6/19/2024	N	EM20	UMCf	97.0 - 107.0	307	6.45	5.89 J	----	31,300	1.61 J	<0.350	1,920,000
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	<0.934	1.55 J	<4.08	----	6,810	2.95 J	<0.350	482,000
U4-MW-04I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	17.1	3.55 J	<4.08	----	34,800	4.23 J	<0.350	2,010,000
U4-MW-04I	9/14/2023	N	EM13	UMCf	76.8 - 86.8	10.7	9.54	<8.16	----	60,900	4.06 J	<0.700	4,020,000
U4-MW-04I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	26.2	4.68 J	<16.3	----	64,900	7.66 J	<1.40	4,460,000

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
						Manganese	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silver	Sodium
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-04I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	14.6	8.26	8.56 J	----	67,600	3.88 J	<0.700	4,430,000
U4-MW-04I	6/18/2024	N	EM20	UMCf	76.8 - 86.8	25.3	4.84 J	<8.16	----	79,300	3.48 J	<0.700	4,570,000
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	2.45 J	15.8	<4.08	----	34,300	<1.50	<0.350	2,670,000
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	432	17.0	6.24 J	----	26,000	2.13 J	<0.350	1,810,000
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	714	12.0	7.62	----	27,000	0.894 J	<0.0700	1,680,000
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	3,220	15.7	188	----	36,500	1.55 J	<0.350	2,060,000
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	3,360	14.7	24.6	----	47,900	<1.50	<0.350	2,590,000
U4-MW-05D	6/18/2024	N	EM20	UMCf	98.2 - 108.2	3,320	27.7	18.8 J	----	70,100	<3.00	<0.700	4,290,000
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	9.99 J	22.5	<4.08	----	36,600	3.42 J	<0.350	2,700,000
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	609	4.70 J	11.8	----	20,900	0.461 J	<0.0700	1,810,000
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	470	59.2	17.3	----	33,200	<1.50	<0.350	2,130,000
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	474	13.2	30.1 J+	----	36,800	<3.00	<0.700	2,270,000
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	1,260	16.7	107	----	52,400	2.18 J	<0.350	3,670,000
U4-MW-05I	6/18/2024	N	EM20	UMCf	76.6 - 86.6	990	16.1	13.5 J	----	70,000	3.05 J	<0.700	4,250,000
U4-MW-06D	4/19/2022	N	BL02	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----

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
						Manganese	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silver	Sodium
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
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	1.26 J	<1.16	<0.816	----	7,760	3.38	0.293 J	530,000
U4-MW-06D	6/16/2023	N	EM10	UMCf	97.1 - 107.1	10.4	6.49	<4.08	----	47,800	2.38 J	<0.350	3,030,000
U4-MW-06D	9/13/2023	N	EM13	UMCf	97.1 - 107.1	209	80.8	<4.08	----	48,700	2.50 J	<0.350	2,900,000
U4-MW-06D	12/13/2023	N	EM16	UMCf	97.1 - 107.1	367	3.89 J	48.7 J+	----	63,600	<6.00	<1.40	3,930,000
U4-MW-06D	3/14/2024	N	EM19	UMCf	97.1 - 107.1	1,360	5.27	9.05 J	----	60,300	4.14 J	<0.350	3,240,000
U4-MW-06D	6/12/2024	N	EM20	UMCf	97.1 - 107.1	971	8.00	<8.16	----	59,000	<3.00	<0.700	3,650,000
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	3.27 J	13.6	<4.08	----	51,200	6.26 J	<0.350	3,280,000
U4-MW-06I	6/16/2023	N	EM10	UMCf	76.5 - 86.5	37.1	10.8	<4.08	----	52,400	3.90 J	<0.350	3,300,000
U4-MW-06I	9/12/2023	N	EM13	UMCf	76.5 - 86.5	102	9.96	<4.08	----	50,900	2.82 J	<0.350	3,330,000
U4-MW-06I	12/12/2023	N	EM16	UMCf	76.5 - 86.5	219	7.35	<16.3	----	62,200	<6.00	<1.40	3,990,000
U4-MW-06I	3/14/2024	N	EM19	UMCf	76.5 - 86.5	927	7.78	11.9	----	62,500	6.24 J	<0.350	3,700,000
U4-MW-06I	6/11/2024	N	EM20	UMCf	76.5 - 86.5	793	8.81	13.5 J	----	63,900	3.21 J	<0.700	3,990,000
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	1.27 J	3.84 J	<0.816	----	5,290	1.91 J	<0.0700	189,000
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	2,920	3.64 J	32.4	----	15,100 J+	5.68	<0.0700	537,000
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	614	69.3	6.87 J	----	36,300	<1.50	<0.350	2,250,000
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	4,790	6.45	135	----	32,600	2.24 J	<0.350	1,610,000
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	8,550	9.15	194	----	61,400	3.40 J	<0.350	2,230,000
U4-MW-07D	6/12/2024	N	EM20	UMCf	96.8 - 106.5	11,100	11.8	166	----	99,900	2.39 J	<0.350	2,460,000
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	----	----	----	----	----	----	----	----
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	0.976 J	3.33 J	0.924 J	----	7,190	1.39 J	<0.0700	314,000
U4-MW-07I	4/21/2023	N	EM08	UMCf	76.8 - 86.8	----	----	----	----	----	----	----	----

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	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020
						Manganese	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silver	Sodium
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
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	971	2.53 J	6.14 J+	----	16,500	0.349 J	<0.0700	946,000
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	600	57.7	22.7	----	32,700	<1.50	<0.350	2,130,000
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	2,060	7.08	19.5 J+	----	36,100	1.68 J	<0.350	1,890,000
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	4,020	10.8	129	----	48,900	3.10 J	<0.350	3,010,000
U4-MW-07I	6/12/2024	N	EM20	UMCf	76.8 - 86.8	2,620	14.4	93.4	----	39,500	3.65 J	<0.350	2,640,000
U4-MW-08D	4/13/2022	N	BL02	UMCf	98.6 - 108.6	37.2 J	11.9 J	<8.16	<91.5	102,000	7.61 J	<0.700	7,950,000
U4-MW-08D	12/7/2022	N	EM04	UMCf	98.6 - 108.6	11.7 J	3.10 J	<4.08	----	43,000	4.50 J	<0.350	3,880,000
U4-MW-08D	3/17/2023	N	EM07	UMCf	98.6 - 108.6	40.2 J+	4.72 J	<4.08	----	49,900	6.98 J	<0.350	3,810,000
U4-MW-08D	6/13/2023	N	EM10	UMCf	98.6 - 108.6	68.9	5.34 J+	<8.16	----	61,800	4.01 J	0.863 J	4,800,000
U4-MW-08D	9/13/2023	N	EM13	UMCf	98.6 - 108.6	39.7	117	<8.16	----	90,900	3.93 J	<0.700	6,620,000
U4-MW-08D	12/11/2023	N	EM16	UMCf	98.6 - 108.6	43.3	5.94	<8.16	----	69,400	4.36 J	<0.700	5,580,000
U4-MW-08D	3/12/2024	N	EM19	UMCf	98.6 - 108.6	180	9.24	<8.16	----	66,400	3.20 J	<0.700	4,810,000
U4-MW-08D	6/14/2024	N	EM20	UMCf	98.6 - 108.6	187	<5.80	<0.816	----	71,000	<0.300	<0.0700	5,430,000
U4-MW-08DD	4/20/2022	N	BL02	UMCf	119.8 - 129.8	14.7	9.57	1.49 J	110 J	11,000	2.68	<0.0700	258,000
U4-MW-08DD	4/20/2022	FD	BL02	UMCf	119.8 - 129.8	14.6	9.89	1.44 J	107 J	11,100	2.31	<0.0700	258,000
U4-MW-08DD	12/8/2022	N	EM04	UMCf	119.8 - 129.8	31.7	10.9	3.15	----	9,950	2.00	<0.0700	179,000
U4-MW-08DD	3/15/2023	N	EM07	UMCf	119.8 - 129.8	2.52 J	4.92 J	1.72 J	----	15,400	2.01	<0.0700	359,000
U4-MW-08DD	6/14/2023	N	EM10	UMCf	119.8 - 129.8	19.3	8.85	17.2 J+	----	15,400	1.85 J	<0.0700	330,000
U4-MW-08DD	9/14/2023	N	EM13	UMCf	119.8 - 129.8	2.85 J	8.49	1.61 J	----	11,300	1.50 J	<0.0700	230,000
U4-MW-08DD	12/14/2023	N	EM16	UMCf	119.8 - 129.8	4.63 J	8.01	<0.816	----	11,700	1.74 J	<0.0700	244,000
U4-MW-08DD	3/14/2024	N	EM19	UMCf	119.8 - 129.8	12.6 J+	6.56	1.10 J	----	10,400	2.44	<0.0700	222,000
U4-MW-08DD	6/12/2024	N	EM20	UMCf	119.8 - 129.8	28.3	6.03	1.84 J	----	9,590	1.61 J	<0.0700	209,000
U4-MW-08I	4/13/2022	N	BL02	UMCf	78.0 - 88.0	5.20 J	18.7	0.820 J	25.4 J	23,000	2.69	<0.0700	1,300,000
U4-MW-08I	12/7/2022	N	EM04	UMCf	78.0 - 88.0	29.6	12.8 J	113	----	36,600	3.16 J	<0.350	2,570,000
U4-MW-08I	12/7/2022	FD	EM04	UMCf	78.0 - 88.0	28.6	12.7 J	106	----	36,200	3.40 J	<0.350	2,540,000
U4-MW-08I	3/17/2023	N	EM07	UMCf	78.0 - 88.0	13.6 J+	16.2	29.8	----	55,900	6.53 J	<0.350	3,640,000
U4-MW-08I	6/13/2023	N	EM10	UMCf	78.0 - 88.0	23.4	11.1 J+	9.78 J	----	25,100	<3.00	<0.700	1,580,000
U4-MW-08I	9/13/2023	N	EM13	UMCf	78.0 - 88.0	35.6	77.0	14.9	----	42,800	2.03 J	<0.350	2,860,000
U4-MW-08I	12/11/2023	N	EM16	UMCf	78.0 - 88.0	44.0	6.66	12.8 J	----	52,100	3.39 J	<0.700	3,770,000
U4-MW-08I	3/12/2024	N	EM19	UMCf	78.0 - 88.0	60.4	15.1	17.0 J	----	57,600	<3.00	<0.700	3,730,000
U4-MW-08I	6/14/2024	N	EM20	UMCf	78.0 - 88.0	51.3	12.0	8.47 J	----	60,200	<3.00	<0.700	3,470,000
U4-MW-08S	4/15/2022	N	BL02	UMCf	54.9 - 64.9	<0.934	20.1	<0.816	<18.3	20,400	2.19	<0.0700	580,000
U4-MW-08S	12/7/2022	N	EM04	UMCf	54.9 - 64.9	10.2	20.4	3.02	----	18,200	1.95 J	<0.0700	624,000
U4-MW-08S	12/7/2022	FD	EM04	UMCf	54.9 - 64.9	10.5	20.0	2.30	----	17,900	1.80 J	<0.0700	612,000
U4-MW-08S	3/13/2023	N	EM07	UMCf	54.9 - 64.9	428	3.71 J	1.37 J	----	17,800	<0.300	<0.0700	464,000
U4-MW-08S	3/13/2023	FD	EM07	UMCf	54.9 - 64.9	406	4.57 J	1.59 J	----	16,900	<0.300	<0.0700	467,000

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
						Manganese	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silver	Sodium
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-08S	6/13/2023	N	EM10	UMCf	54.9 - 64.9	1,310	2.92 J	2.34	----	15,900	<0.300	<0.0700	551,000
U4-MW-08S	6/13/2023	FD	EM10	UMCf	54.9 - 64.9	1,300	1.59 J	2.34	----	15,800	<0.300	<0.0700	554,000
U4-MW-08S	9/13/2023	N	EM13	UMCf	54.9 - 64.9	2,800	35.5	2.03	----	18,500	<0.300	<0.0700	527,000
U4-MW-08S	9/13/2023	FD	EM13	UMCf	54.9 - 64.9	2,750	35.9	<8.16	----	17,400	<3.00	<0.700	517,000
U4-MW-08S	12/14/2023	N	EM16	UMCf	54.9 - 64.9	10,600	<1.16	3.64	----	26,100	<0.300	<0.0700	680,000
U4-MW-08S	12/14/2023	FD	EM16	UMCf	54.9 - 64.9	10,700	<1.16	4.04	----	26,400	<0.300	<0.0700	683,000
U4-MW-08S	3/14/2024	N	EM19	UMCf	54.9 - 64.9	2,550	51.4	8.13	----	22,300	<0.300	<0.0700	602,000
U4-MW-08S	3/14/2024	FD	EM19	UMCf	54.9 - 64.9	2,470	44.5	8.99	----	21,600	<0.300	<0.0700	601,000
U4-MW-08S	3/25/2024	N	EM19	UMCf	54.9 - 64.9	1,430	42.4	2.90	----	20,800	<0.300	<0.0700	569,000
U4-MW-08S	3/25/2024	FD	EM19	UMCf	54.9 - 64.9	1,370	42.1	3.04	----	19,800	<0.300	<0.0700	547,000
U4-MW-08S	6/14/2024	N	EM20	UMCf	54.9 - 64.9	1,270	<1.16	2.81	----	22,200	<0.300	<0.0700	714,000
U4-MW-08S	6/14/2024	FD	EM20	UMCf	54.9 - 64.9	1,310	<1.16	2.71	----	22,900	<0.300	<0.0700	733,000
U4-MW-09D	4/14/2022	N	BL02	UMCf	96.9 - 106.9	4.62 J	<1.16	<8.16	<18.3	6,610	3.90 J	<0.700	475,000
U4-MW-09D	12/6/2022	N	EM04	UMCf	96.9 - 106.9	5.78	6.30	11.1	----	12,100	1.98 J	<0.0700 UJ	680,000
U4-MW-09D	3/16/2023	N	EM07	UMCf	96.9 - 106.9	71.7	1.39 J	10.6	----	17,400	1.73 J	<0.0700	879,000
U4-MW-09D	6/14/2023	N	EM10	UMCf	96.9 - 106.9	536	8.71	13.9 J+	----	19,700	0.834 J	<0.0700	821,000
U4-MW-09D	9/12/2023	N	EM13	UMCf	96.9 - 106.9	979	10.0	9.23	----	24,800	0.867 J	<0.0700	1,140,000
U4-MW-09D	12/15/2023	N	EM16	UMCf	96.9 - 106.9	1,380	12.5	15.3	----	29,700	1.85 J	<0.0700	1,360,000
U4-MW-09D	3/13/2024	N	EM19	UMCf	96.9 - 106.9	1,360	9.73	21.5	----	32,700	<1.50	<0.350	1,440,000
U4-MW-09D	6/13/2024	N	EM20	UMCf	96.9 - 106.9	1,910	11.0 J+	59.8	----	32,300	1.36 J	<0.0700	1,540,000
U4-MW-09DD	4/14/2022	N	BL02	UMCf	119.8 - 129.8	7.39 J	9.61	<0.816	221 J	7,460	1.98 J	<0.0700	181,000
U4-MW-09DD	12/6/2022	N	EM04	UMCf	119.8 - 129.8	1.17 J	9.02	<0.816 UJ	----	7,030	1.86 J	<0.0700 UJ	162,000
U4-MW-09DD	3/21/2023	N	EM07	UMCf	119.8 - 129.8	2.54 J	5.69	7.63	----	9,310	2.06	<0.0700	199,000
U4-MW-09DD	6/15/2023	N	EM10	UMCf	119.8 - 129.8	6.67 J	6.80 J+	53.7	----	10,000	2.18	<0.0700	214,000
U4-MW-09DD	9/13/2023	N	EM13	UMCf	119.8 - 129.8	300	40.7	32.1	----	14,900	1.29 J	<0.0700	319,000
U4-MW-09DD	12/13/2023	N	EM16	UMCf	119.8 - 129.8	246	2.97 J	5.51 J+	----	15,200	1.46 J	<0.0700	304,000
U4-MW-09DD	3/14/2024	N	EM19	UMCf	119.8 - 129.8	549	3.62 J	7.72	----	21,400	0.954 J	<0.0700	321,000
U4-MW-09DD	6/13/2024	N	EM20	UMCf	119.8 - 129.8	643	2.28 J	7.02	----	18,000	<0.300	<0.0700	325,000
U4-MW-09I	4/14/2022	N	BL02	UMCf	76.8 - 86.8	4.58 J	13.2	0.971 J	172 J	19,300	2.24	<0.0700	588,000
U4-MW-09I	12/6/2022	N	EM04	UMCf	76.8 - 86.8	21.9 J	7.84 J	83.7	----	20,600	2.26 J	<0.350 UJ	1,150,000
U4-MW-09I	3/16/2023	N	EM07	UMCf	76.8 - 86.8	44.5	3.36 J	105	----	21,400	1.80 J	<0.0700	1,140,000
U4-MW-09I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	251	4.93 J	32.4	----	23,300	1.04 J	<0.0700	966,000
U4-MW-09I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	458	8.86	23.7	----	27,100	1.06 J	<0.0700	1,280,000
U4-MW-09I	12/15/2023	N	EM16	UMCf	76.8 - 86.8	816	8.79	25.1	----	30,200	1.81 J	<0.0700	1,480,000
U4-MW-09I	3/13/2024	N	EM19	UMCf	76.8 - 86.8	1,170	10.4	39.2	----	34,800	1.80 J	<0.350	1,610,000
U4-MW-09I	6/13/2024	N	EM20	UMCf	76.8 - 86.8	969	12.4 J+	29.3	----	33,300	1.57 J	<0.0700	1,670,000
U4-MW-09S	4/14/2022	N	BL02	UMCf	55.3 - 65.3	5.72 J	19.0	<0.816	168 J	14,000	2.13	<0.0700	461,000
U4-MW-09S	12/6/2022	N	EM04	UMCf	55.3 - 65.3	1.21 J	14.0	1.83 J	----	9,350	2.30	<0.0700 UJ	841,000
U4-MW-09S	3/17/2023	N	EM07	UMCf	55.3 - 65.3	4.65 J	27.9	1.63 J	----	9,940	2.10	<0.0700	780,000
U4-MW-09S	6/15/2023	N	EM10	UMCf	55.3 - 65.3	186	8.50 J+	14.6	----	13,400	<0.300	<0.0700	1,500,000
U4-MW-09S	9/13/2023	N	EM13	UMCf	55.3 - 65.3	515	36.4	<8.16	----	16,600	<3.00	<0.700	1,530,000
U4-MW-09S	12/12/2023	N	EM16	UMCf	55.3 - 65.3	2,050	13.9	22.7 J+	----	76,800	1.70 J	<0.350	1,690,000
U4-MW-09S	3/13/2024	N	EM19	UMCf	55.3 - 65.3	572	2.62 J	8.82 J	----	38,600	<1.50	<0.350	1,760,000

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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	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020	Dissolved Metals by SW6010B/SW6020
						Manganese	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silver	Sodium
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-09S	6/13/2024	N	EM20	UMCf	55.3 - 65.3	540	15.1	18.1	----	30,000	0.367 J	<0.0700	1,660,000
U4-MW-10D	4/14/2022	N	BL02	UMCf	96.9 - 106.9	23.5	8.67	<0.816	32.2 J	24,200	2.14	<0.0700	626,000
U4-MW-10D	12/5/2022	N	EM04	UMCf	96.9 - 106.9	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	2,160	3.54 J	11.9	----	18,100	0.811 J	<0.0700	303,000
U4-MW-10D	6/14/2023	N	EM10	UMCf	96.9 - 106.9	2,470	1.71 J	3.57 J+	----	18,000	0.312 J	<0.0700	300,000
U4-MW-10D	9/13/2023	N	EM13	UMCf	96.9 - 106.9	1,910	66.3	7.78	----	19,800	0.441 J	<0.0700	362,000
U4-MW-10D	12/14/2023	N	EM16	UMCf	96.9 - 106.9	1,190	24.8	5.58	----	17,600	0.434 J	<0.0700	297,000
U4-MW-10D	3/14/2024	N	EM19	UMCf	96.9 - 106.9	1,100	16.8	6.71	----	16,200	0.598 J	<0.0700	290,000
U4-MW-10D	6/11/2024	N	EM20	UMCf	96.9 - 106.9	878	17.5	6.59	----	17,100	0.504 J	<0.0700	278,000
U4-MW-10I	4/14/2022	N	BL02	UMCf	77.1 - 87.1	25.2	17.8	1.08 J	194 J	31,700	2.88	<0.0700	995,000
U4-MW-10I	12/5/2022	N	EM04	UMCf	77.1 - 87.1	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	917	11.2	58.9	----	22,400	0.803 J	<0.0700	586,000
U4-MW-10I	6/14/2023	N	EM10	UMCf	77.1 - 87.1	3,120	1.25 J	1.44 J	----	20,200	<0.300	<0.0700	465,000
U4-MW-10I	9/13/2023	N	EM13	UMCf	77.1 - 87.1	4,630	47.6	4.72	----	22,900	<0.300	<0.0700	571,000
U4-MW-10I	12/14/2023	N	EM16	UMCf	77.1 - 87.1	1,910	16.1	8.69 J	----	39,200	5.73 J	0.903 J	1,540,000
U4-MW-10I	3/13/2024	N	EM19	UMCf	77.1 - 87.1	1,020	12.2	4.29 J	----	45,700	3.38 J	<0.350	2,180,000
U4-MW-10I	6/11/2024	N	EM20	UMCf	77.1 - 87.1	742	5.44	6.32	----	19,900	<0.300	<0.0700	556,000
U4-MW-11D	4/15/2022	N	BL02	UMCf	97.4 - 107.4	68.0	17.8 J	<8.16	315 J	86,800	6.05 J	<0.700	5,920,000
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	<70.4 UJ	<34.8 UJ	<8.16 UJ	----	60,900 J	<30.0 UJ	<7.00 UJ	5,170,000
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	88.2	9.80	<4.08	----	62,800	4.91 J	<0.350	4,620,000
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	136	11.7	<4.08	----	80,500	5.86 J	0.357 J	5,770,000
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	90.1	97.3	<4.08	----	64,400	3.40 J	<0.350	4,240,000
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	143	9.98	<16.3	----	56,500	<6.00	<1.40	4,100,000
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	193	11.6	12.3 J	----	58,900	4.08 J	<0.700	3,930,000
U4-MW-11D	6/12/2024	N	EM20	UMCf	97.4 - 107.4	221	10.7	<8.16	----	62,500	3.12 J	<0.700	4,420,000
U4-MW-11I	4/14/2022	N	BL02	UMCf	77.0 - 87.0	10.4	18.7	1.07 J	202 J	26,900	2.57	<0.0700	924,000
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	----	----	----	----	----	----	----	----

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
						Manganese	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silver	Sodium
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
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	577	2.21 J	3.32	----	22,800	<0.300 UJ	<0.0700 UJ	609,000
U4-MW-11I	12/6/2022	FD	EM04	UMCf	77.0 - 87.0	564	1.46 J	2.79	----	23,200	3.38	<0.0700 UJ	595,000
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	1,250 J	<1.16	1.86 J	----	23,000 J	0.614 J	<0.0700	602,000 J
U4-MW-11I	3/16/2023	FD	EM07	UMCf	77.0 - 87.0	831 J	<1.16	1.87 J	----	15,200 J	<0.300	<0.0700	398,000 J
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	1,240	2.49 J	1.94 J	----	19,900	0.379 J	<0.0700	495,000
U4-MW-11I	6/15/2023	FD	EM10	UMCf	77.0 - 87.0	1,230	1.89 J	1.75 J	----	20,000	<0.300	<0.0700	498,000
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	2,400	82.6	80.7	----	50,600	5.48 J	<0.350	2,050,000
U4-MW-11I	9/13/2023	FD	EM13	UMCf	77.0 - 87.0	2,440	81.2	82.1	----	51,700	7.34 J	<0.350	2,090,000
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	1,430	36.0	23.5 J+	----	49,700	5.48 J	<0.700	2,710,000
U4-MW-11I	12/13/2023	FD	EM16	UMCf	77.0 - 87.0	1,430	37.9	24.3 J+	----	50,300	8.78 J	<0.700	2,710,000
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	1,490	24.2	19.6	----	57,300	4.39 J	<0.350	3,160,000
U4-MW-11I	3/13/2024	FD	EM19	UMCf	77.0 - 87.0	1,490	24.9	17.8	----	59,000	4.78 J	<0.350	3,130,000
U4-MW-11I	6/12/2024	N	EM20	UMCf	77.0 - 87.0	1,140	29.8	11.7 J	----	50,400	5.03 J	<0.700	2,850,000
U4-MW-11I	6/12/2024	FD	EM20	UMCf	77.0 - 87.0	1,110	28.8	12.3 J	----	49,800	4.40 J	<0.700	2,660,000
U4-MW-12D	4/15/2022	N	BL02	UMCf	97.1 - 107.1	59.4	15.8 J	<8.16	365 J	83,300	6.13 J	<0.700	4,920,000
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	----	----	----	----	----	----	----	----
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	23.4 J	8.18 J	<4.08	----	43,100	3.67 J	<0.350	3,260,000
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	----	----	----	----	----	----	----	----

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
						Manganese	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silver	Sodium
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-12D	3/14/2023	N	EM07	UMCf	97.1 - 107.1	37.2	7.27	<4.08	----	44,100	4.79 J	<0.350	2,610,000
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	79.3	8.08	<4.08	----	49,400	3.24 J	<0.350	2,850,000
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	50.0 J+	5.17	1.11 J	----	27,800	1.94 J	<0.0700	1,150,000
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	241	1.88 J	12.3 J+	----	28,900	2.35 J	<0.350	1,140,000
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	901	2.76 J	14.3	----	48,000	1.54 J	<0.350	1,240,000
U4-MW-12D	6/12/2024	N	EM20	UMCf	97.1 - 107.1	664	6.17	7.81 J	----	42,400	2.11 J	<0.350	1,750,000
U4-MW-12I	4/14/2022	N	BL02	UMCf	76.8 - 86.8	44.1	17.6	4.10 J	122 J	35,700	5.65 J	0.454 J	1,720,000
U4-MW-12I	4/14/2022	FD	BL02	UMCf	76.8 - 86.8	44.4	17.7	1.90 J	265 J+	35,500	3.39 J	<0.0700	1,690,000
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	264	15.7	2.09	----	16,700	0.587 J	<0.0700	490,000
U4-MW-12I	12/7/2022	FD	EM04	UMCf	76.8 - 86.8	264	16.2	3.19	----	16,800	0.457 J	<0.0700	499,000
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	1,200	1.40 J	<4.08	----	23,800	0.309 J	<0.0700	591,000
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	1,920	<1.16	1.81 J	----	20,400	<0.300	<0.0700	628,000
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	1,080	146	4.28	----	26,100	0.954 J	<0.0700	742,000
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	1,100	24.1	81.0	----	29,200	2.49 J	<0.350	1,100,000
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	1,000	29.2	255	----	33,500 J+	3.27 J+	<0.0700	1,390,000
U4-MW-12I	6/13/2024	N	EM20	UMCf	76.8 - 86.8	1,060	28.1	14.3	----	39,500	3.15	<0.0700	2,060,000 J
U4-MW-13D	4/14/2022	N	BL02	UMCf	98.2 - 108.2	32.9 J	9.95 J	<8.16	140 J	71,200	4.11 J	<0.700	3,990,000
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	----	----	----	----	----	----	----	----
U4-MW-13D	12/7/2022	N	EM04	UMCf	98.2 - 108.2	92.8	2.40 J	<4.08	----	26,600	2.64 J	<0.350	1,170,000
U4-MW-13D	1/12/2023	N	EM05	UMCf	98.2 - 108.2	----	----	----	----	----	----	----	----

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
						Manganese	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silver	Sodium
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
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	40.4 J+	4.44 J	0.893 J	----	22,300	2.57	0.289 J	849,000
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	44.0	2.60 J	0.858 J	----	21,200	2.16	<0.0700	790,000
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	51.6	3.59 J	1.42 J	----	29,500	1.80 J	<0.0700	929,000
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	47.9	3.27 J	<4.08	----	27,700	2.07 J	<0.350	1,060,000
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	67.0	2.50 J	<4.08	----	28,900	2.03 J	<0.350	1,140,000
U4-MW-13D	6/13/2024	N	EM20	UMCf	98.2 - 108.2	95.3	2.88 J	<0.816	----	37,600	2.01	<0.0700	1,400,000
U4-MW-13I	4/14/2022	N	BL02	UMCf	77.1 - 87.1	28.6	13.8	1.80 J	132 J	33,100	3.62	<0.0700	1,640,000
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	161	9.01	2.47	----	16,700	1.08 J	<0.0700 UJ	759,000
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	228	5.96	2.33	----	13,800	<0.300	<0.0700	655,000
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	381	12.0 J+	3.27	----	15,300	<0.300	<0.0700	606,000
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	197	4.85 J	2.18	----	30,400	2.04	<0.0700	1,060,000
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	134	3.90 J	<4.08	----	32,600	1.55 J	<0.350	1,330,000
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	149	5.26	36.7	----	35,100	2.79 J	<0.350	1,590,000
U4-MW-13I	6/13/2024	N	EM20	UMCf	77.1 - 87.1	164	6.56 J+	3.77	----	37,900	2.43	<0.0700	1,640,000
U4-MW-14D	4/13/2022	N	BL02	UMCf	97.3 - 107.3	79.2	41.2	9.04	<18.3	25,400	3.31	<0.0700	673,000
U4-MW-14D	12/6/2022	N	EM04	UMCf	97.3 - 107.3	21.5	5.90	<0.816 UJ	----	19,100	2.46	<0.0700 UJ	469,000
U4-MW-14D	3/16/2023	N	EM07	UMCf	97.3 - 107.3	14.2 J+	3.16 J	<0.816	----	14,500	1.69 J	<0.0700	373,000
U4-MW-14D	6/15/2023	N	EM10	UMCf	97.3 - 107.3	17.7	4.70 J	<0.816	----	16,800	1.85 J	<0.0700	420,000
U4-MW-14D	9/14/2023	N	EM13	UMCf	97.3 - 107.3	283	7.16	3.52	----	18,000	1.93 J	<0.0700	425,000
U4-MW-14D	12/15/2023	N	EM16	UMCf	97.3 - 107.3	330	7.58	10.2	----	17,300	1.67 J	<0.0700	456,000
U4-MW-14D	3/13/2024	N	EM19	UMCf	97.3 - 107.3	268	5.45	3.88	----	18,300	1.63 J	<0.0700	508,000

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
						Manganese	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silver	Sodium
						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	257	7.94 J+	2.90	----	16,600	1.76 J	<0.0700	385,000
U4-MW-14I	4/14/2022	N	BL02	UMCf	77.3 - 87.3	19.0	16.2	1.09 J	191 J	25,400	2.53	<0.0700	596,000
U4-MW-14I	12/6/2022	N	EM04	UMCf	77.3 - 87.3	32.4	9.57	1.12 J	----	22,000	2.86	<0.0700 UJ	518,000
U4-MW-14I	3/16/2023	N	EM07	UMCf	77.3 - 87.3	11.1 J+	5.22	<0.816	----	16,700	1.98 J	<0.0700	413,000
U4-MW-14I	6/15/2023	N	EM10	UMCf	77.3 - 87.3	214	7.41 J+	8.26	----	21,000	1.67 J	<0.0700	553,000
U4-MW-14I	9/14/2023	N	EM13	UMCf	77.3 - 87.3	85.8	5.72	5.21	----	20,100	1.13 J	<0.0700	450,000
U4-MW-14I	12/14/2023	N	EM16	UMCf	77.3 - 87.3	137	8.32	31.7	----	21,800	1.57 J	<0.0700	502,000
U4-MW-14I	3/13/2024	N	EM19	UMCf	77.3 - 87.3	213	5.06	4.75	----	22,800	1.47 J	<0.0700	589,000
U4-MW-14I	6/14/2024	N	EM20	UMCf	77.3 - 87.3	167	6.40	4.88	----	22,600	1.33 J	<0.0700	559,000
U4-MW-15D	4/13/2022	N	BL02	UMCf	96.0 - 106.0	26.1	9.77	0.944 J	<18.3	25,500	2.38	<0.0700	646,000
U4-MW-15D	12/5/2022	N	EM04	UMCf	96.0 - 106.0	10.3	6.33	<0.816	----	18,700	2.23	<0.0700	436,000
U4-MW-15D	3/20/2023	N	EM07	UMCf	96.0 - 106.0	5.33 J	6.57	<0.816	----	15,400	2.33	<0.0700	318,000
U4-MW-15D	6/14/2023	N	EM10	UMCf	96.0 - 106.0	25.2	7.40	<0.816	----	20,900	2.44	<0.0700	415,000
U4-MW-15D	9/13/2023	N	EM13	UMCf	96.0 - 106.0	10.3	45.5	5.43	----	17,400	1.90 J	<0.0700	358,000
U4-MW-15D	12/12/2023	N	EM16	UMCf	96.0 - 106.0	17.3	2.44 J	<0.816	----	17,400	2.06	<0.0700	343,000
U4-MW-15D	3/12/2024	N	EM19	UMCf	96.0 - 106.0	26.5	2.51 J	2.70	----	20,100	1.88 J	<0.0700	381,000
U4-MW-15D	6/14/2024	N	EM20	UMCf	96.0 - 106.0	18.0	1.61 J	<8.16	----	17,500	<3.00	<0.700	336,000
U4-MW-15DD	4/13/2022	N	BL02	UMCf	120.3 - 130.3	2.57 J	10.4	2.78	<18.3	6,830	2.15	<0.0700	159,000
U4-MW-15DD	12/5/2022	N	EM04	UMCf	120.3 - 130.3	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	7.24 J	8.41	44.8	----	6,510	1.89 J	<0.0700	137,000
U4-MW-15DD	6/13/2023	N	EM10	UMCf	120.3 - 130.3	14.9 J+	12.7 J+	57.6	----	6,460 J+	2.25	<0.0700	138,000
U4-MW-15DD	9/14/2023	N	EM13	UMCf	120.3 - 130.3	5.65 J	9.31	17.7	----	6,150	1.70 J	<0.0700	130,000
U4-MW-15DD	12/13/2023	N	EM16	UMCf	120.3 - 130.3	5.40 J	8.44	48.5	----	6,340	1.97 J	<0.0700	135,000
U4-MW-15DD	3/12/2024	N	EM19	UMCf	120.3 - 130.3	16.3	10.1	45.0	----	6,910	2.23	<0.0700	138,000
U4-MW-15DD	6/14/2024	N	EM20	UMCf	120.3 - 130.3	16.9	9.34	74.9	----	6,330	1.82 J	<0.0700	134,000
U4-MW-15I	4/12/2022	N	BL02	UMCf	76.8 - 86.8	14.9	17.8	<0.816	25.2 J	22,300	2.64	<0.0700	897,000
U4-MW-15I	12/5/2022	N	EM04	UMCf	76.8 - 86.8	61.8	11.5	2.11	----	22,500	2.82	0.105 J	976,000
U4-MW-15I	3/17/2023	N	EM07	UMCf	76.8 - 86.8	4,380	<1.16	2.63	----	16,200	<0.300	<0.0700	387,000
U4-MW-15I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	3,610	<1.16	2.53 J+	----	18,700	<0.300	<0.0700	448,000
U4-MW-15I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	1,240	32.2	50.1	----	25,200	2.07	<0.0700	1,010,000
U4-MW-15I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	1,370	14.1	9.26 J	----	24,600	2.49 J	<0.350	935,000
U4-MW-15I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	1,320	16.6	11.6	----	33,300	<1.50	<0.350	1,300,000
U4-MW-15I	6/17/2024	N	EM20	UMCf	76.8 - 86.8	1,020	23.5	8.27 J	----	34,400	2.94 J	<0.350	1,670,000
U4-MW-15S	4/13/2022	N	BL02	UMCf	54.8 - 64.8	2.61 J	19.2	<0.816	50.3 J	15,200 J	2.71	<0.0700	387,000 J
U4-MW-15S	12/5/2022	N	EM04	UMCf	54.8 - 64.8	465	1.18 J	2.37	----	33,300	0.690 J	<0.0700	277,000
U4-MW-15S	3/13/2023	N	EM07	UMCf	54.8 - 64.8	267	<1.16	<4.08	----	18,700	<0.300	<0.0700	299,000
U4-MW-15S	6/13/2023	N	EM10	UMCf	54.8 - 64.8	354	<1.16	1.34 J	----	20,100	<0.300	0.0721 J	421,000
U4-MW-15S	9/14/2023	N	EM13	UMCf	54.8 - 64.8	1,190	2.44 J	3.15	----	25,800	<0.300	0.0732 J	478,000
U4-MW-15S	12/11/2023	N	EM16	UMCf	54.8 - 64.8	1,680	13.1	14.9	----	24,200	<0.300	<0.0700	482,000
U4-MW-15S	3/12/2024	N	EM19	UMCf	54.8 - 64.8	1,420	11.6	16.3	----	25,600	<0.300	<0.0700	475,000
U4-MW-15S	3/26/2024	N	EM19	UMCf	54.8 - 64.8	1,190	<1.16	1.90 J	----	21,100	<0.300	<0.0700	412,000
U4-MW-15S	6/14/2024	N	EM20	UMCf	54.8 - 64.8	1,090	<1.16	10.5	----	17,900	<0.300	<0.0700	384,000
U4-MW-16D	4/11/2022	N	BL02	UMCf	96.8 - 106.8	12.4	4.62 J	<8.16	<18.3	30,600	5.89 J	<0.700	1,210,000

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
						Manganese	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silver	Sodium
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-16D	12/5/2022	N	EM04	UMCf	96.8 - 106.8	25.7	11.8	<0.816 UJ	----	8,140	0.707 J	<0.0700	522,000
U4-MW-16D	3/14/2023	N	EM07	UMCf	96.8 - 106.8	114	5.53	<4.08	----	39,200	5.22 J	<0.350	1,750,000
U4-MW-16D	6/13/2023	N	EM10	UMCf	96.8 - 106.8	286	7.04 J+	<8.16	----	52,500	3.17 J	<0.700	2,970,000
U4-MW-16D	9/15/2023	N	EM13	UMCf	96.8 - 106.8	199	8.47	7.75 J	----	37,400	<1.50	<0.350	1,800,000
U4-MW-16D	12/14/2023	N	EM16	UMCf	96.8 - 106.8	17.4	3.94 J	<8.16	----	44,400	<3.00	<0.700	1,820,000
U4-MW-16D	3/14/2024	N	EM19	UMCf	96.8 - 106.8	27.7	3.83 J	<4.08	----	36,600	1.98 J	<0.350	1,490,000
U4-MW-16D	6/17/2024	N	EM20	UMCf	96.8 - 106.8	20.1 J+	4.63 J	<4.08	----	38,800	<1.50	<0.350	1,890,000
U4-MW-16DD	4/12/2022	N	BL02	UMCf	120.8 - 130.8	11.0	13.8	0.870 J	<18.3	12,500	3.05	<0.0700	390,000
U4-MW-16DD	12/5/2022	N	EM04	UMCf	120.8 - 130.8	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	4.46 J	10.4	2.13	----	9,810	1.97 J	<0.0700	246,000
U4-MW-16DD	6/13/2023	N	EM10	UMCf	120.8 - 130.8	2.70 J	12.0 J+	<0.816	----	10,000 J+	2.26	<0.0700	227,000
U4-MW-16DD	9/14/2023	N	EM13	UMCf	120.8 - 130.8	3.25 J	11.0	2.56	----	8,270	1.76 J	<0.0700	199,000
U4-MW-16DD	12/13/2023	N	EM16	UMCf	120.8 - 130.8	5.94 J	10.6	16.5	----	8,410	1.78 J	<0.0700	204,000
U4-MW-16DD	3/14/2024	N	EM19	UMCf	120.8 - 130.8	9.14 J	12.1	37.2	----	9,020	1.67 J	<0.0700	208,000
U4-MW-16DD	6/17/2024	N	EM20	UMCf	120.8 - 130.8	4.79 J	13.2	12.9	----	8,240	0.838 J	<0.0700	192,000
U4-MW-16I	4/11/2022	N	BL02	UMCf	77.0 - 87.0	2.20 J	13.7	<0.816	<18.3	30,800	2.58	<0.0700	968,000
U4-MW-16I	12/5/2022	N	EM04	UMCf	77.0 - 87.0	629	5.24	7.02	----	25,600	<0.300	<0.0700	----
U4-MW-16I	12/5/2022	FD	EM04	UMCf	77.0 - 87.0	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	4,580	<1.16	6.94	----	25,600	<0.300	<0.0700	342,000
U4-MW-16I	3/13/2023	FD	EM07	UMCf	77.0 - 87.0	4,600	1.59 J	6.97	----	25,500	<0.300	<0.0700	342,000
U4-MW-16I	6/12/2023	N	EM10	UMCf	77.0 - 87.0	4,650	<1.16	8.25	----	17,500	<0.300	<0.0700	276,000
U4-MW-16I	6/12/2023	FD	EM10	UMCf	77.0 - 87.0	4,640	<1.16	8.37	----	17,600	<0.300	<0.0700	280,000
U4-MW-16I	9/11/2023	N	EM13	UMCf	77.0 - 87.0	2,590	25.9	77.3	----	51,000	3.86	<0.0700	1,990,000
U4-MW-16I	9/11/2023	FD	EM13	UMCf	77.0 - 87.0	2,590	26.9	75.6	----	49,700	3.61	<0.0700	1,980,000
U4-MW-16I	12/11/2023	N	EM16	UMCf	77.0 - 87.0	865	10.1	9.29 J	----	52,100	3.01 J	<0.350	2,610,000
U4-MW-16I	12/11/2023	FD	EM16	UMCf	77.0 - 87.0	857	8.91	9.01 J	----	51,100	3.49 J	<0.350	2,530,000
U4-MW-16I	3/11/2024	N	EM19	UMCf	77.0 - 87.0	586	8.15	14.7	----	48,900	3.96 J	<0.350	2,660,000
U4-MW-16I	3/11/2024	FD	EM19	UMCf	77.0 - 87.0	614	8.21	13.7	----	51,100	4.36 J	<0.350	2,760,000
U4-MW-16I	6/18/2024	N	EM20	UMCf	77.0 - 87.0	963	15.2	7.16 J	----	51,200	4.53 J	<0.350	2,320,000
U4-MW-16I	6/18/2024	FD	EM20	UMCf	77.0 - 87.0	946	14.6	6.69 J	----	51,600	3.91 J	<0.350	2,250,000
U4-MW-16S	4/12/2022	N	BL02	UMCf	54.8 - 64.8	2.69 J	18.3	<0.816	28.9 J	18,500	2.47	<0.0700	409,000
U4-MW-16S	4/12/2022	FD	BL02	UMCf	54.8 - 64.8	2.07 J	18.4	<0.816	25.5 J	18,300	2.96	<0.0700	405,000
U4-MW-16S	12/6/2022	N	EM04	UMCf	54.8 - 64.8	19.9	40.2	<0.816 UJ	----	16,000	1.13 J	<0.0700 UJ	386,000
U4-MW-16S	3/15/2023	N	EM07	UMCf	54.8 - 64.8	1,240	<1.16	<4.08	----	21,100	0.408 J	0.100 J	567,000
U4-MW-16S	6/13/2023	N	EM10	UMCf	54.8 - 64.8	2,430	<1.16	3.19	----	20,200	<0.300	<0.0700	455,000
U4-MW-16S	9/11/2023	N	EM13	UMCf	54.8 - 64.8	720	<1.16	2.79	----	14,000	<0.300	<0.0700	362,000
U4-MW-16S	12/11/2023	N	EM16	UMCf	54.8 - 64.8	944	1.63 J	2.50 J+	----	13,900	<0.300	<0.0700	423,000
U4-MW-16S	3/11/2024	N	EM19	UMCf	54.8 - 64.8	1,100	<1.16	3.18	----	16,000	<0.300	<0.0700	441,000
U4-MW-16S	6/17/2024	N	EM20	UMCf	54.8 - 64.8	672	<1.16	2.29 J+	----	13,100	<0.300	<0.0700	374,000
U4-SLMW	11/10/2022	N	EM03		-	----	----	----	----	----	----	----	----
U4-T3	10/13/2022	N	EM02		-	----	----	----	----	----	----	----	----
U4-T3	11/3/2022	N	EM03		-	----	----	----	----	----	----	----	----
U4-T3	12/6/2022	N	EM04		-	----	----	----	----	----	----	----	----

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
						Manganese	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silver	Sodium
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
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 sample quantitation limit.
- 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.

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	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
						Thallium	Uranium	Vanadium	Zinc	Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH
						µg/L	µg/L	µg/L	µg/L	mS/cm	mg/L	mg/L	mV	SU
M-247-100	4/20/2022	N	BL02	UMCf	100.5 - 110.5	----	----	----	----	0.956	1.80	0.0 U	22.9	8.02
M-249-100	4/20/2022	N	BL02	UMCf	99.6 - 109.6	----	----	----	----	34.552	0.56	0.0 U	140.6	6.99
M-251-100	4/19/2022	N	BL02	UMCf	92.5 - 102.5	----	----	----	----	42.112	1.63	0.0 U	212.1	7.36
M-251-100	10/13/2022	N	EM02	UMCf	92.5 - 102.5	----	----	----	----	16.998	4.13	----	172.0	7.19
M-251-100	11/2/2022	N	EM03	UMCf	92.5 - 102.5	----	----	----	----	18.268	4.61	----	118.7	7.71
M-251-100	12/8/2022	N	EM04	UMCf	92.5 - 102.5	----	----	----	----	19.870	4.83	----	123.6	7.38
M-251-100	1/11/2023	N	EM05	UMCf	92.5 - 102.5	----	----	----	----	9.502	5.52	----	132.4	7.49
M-251-100	2/13/2023	N	EM06	UMCf	92.5 - 102.5	----	----	----	----	10.973	6.27	----	184.3	8.08
M-251-100	3/17/2023	N	EM07	UMCf	92.5 - 102.5	<0.605	6.02 J	11.3 J	<15.1	12.924	8.09	0.0 U	129.4	7.57
M-251-100	4/21/2023	N	EM08	UMCf	92.5 - 102.5	----	----	----	----	17.375	0.57	0.0 U	106.3	7.44
M-251-100	5/9/2023	N	EM09	UMCf	92.5 - 102.5	----	----	----	----	19.858	4.58	0.0 U	147.1	7.40
M-251-100	6/14/2023	N	EM10	UMCf	92.5 - 102.5	<0.605	5.71	<4.99	<15.1	19.291	3.85	0.0 U	221.0	7.55
M-251-100	7/14/2023	N	EM11	UMCf	92.5 - 102.5	----	----	----	----	17.476	5.11	0.0 U	285.2	7.83
M-251-100	8/10/2023	N	EM12	UMCf	92.5 - 102.5	----	----	----	----	22.933	3.58	0 U	129.1	7.53
M-251-100	9/14/2023	N	EM13	UMCf	92.5 - 102.5	<0.605	9.66	<4.99	<15.1	18.1	1.48	0 U	-27.3	7.22
M-251-100	10/19/2023	N	EM14	UMCf	92.5 - 102.5	----	----	----	----	19.504	0.11	0 U	-7.9	6.59
M-251-100	11/16/2023	N	EM15	UMCf	92.5 - 102.5	----	----	----	----	19.571	0.19	0 U	-25.9	6.57
M-251-100	12/12/2023	N	EM16	UMCf	92.5 - 102.5	<1.21	16.9	<4.99	<30.2	21.045	1.01	0.0 U	135.1	6.79
M-251-100	1/25/2024	N	EM17	UMCf	92.5 - 102.5	----	----	----	----	20.918	0.43	0.0 U	-306.6	6.75
M-251-100	2/13/2024	N	EM18	UMCf	92.5 - 102.5	----	----	----	----	11.741	0.00	1.0	-81.3	4.80
M-251-100	3/11/2024	N	EM19	UMCf	92.5 - 102.5	<0.605	84.3	67.8	96.8 J	17.631	-0.01	3.5	-383.0	5.99
M-251-100	6/17/2024	N	EM20	UMCf	92.5 - 102.5	<1.21	170	42.1	88.3 J	15.505	0.60	1.5	164.0	5.04
M-251-60	4/18/2022	N	BL02	UMCf	52.3 - 62.3	----	----	----	----	5.163	5.64	0.0 U	44.4	10.69
M-251-60	3/15/2023	N	EM07	UMCf	52.3 - 62.3	<0.121	0.164 J	88.6	3.06 J	3.539	2.45	0.0 U	14.4	11.12
M-251-60	6/14/2023	N	EM10	UMCf	52.3 - 62.3	<0.121	0.184 J	82.9	9.60 J	4.110	1.37	0.0 U	112.5	10.40
M-251-60	9/14/2023	N	EM13	UMCf	52.3 - 62.3	<0.121	<0.0789	75.2	<3.02	4.01	0.65	0 U	25	10.46
M-251-60	12/11/2023	N	EM16	UMCf	52.3 - 62.3	<0.121	0.379 J	84.3	<3.02	3877.000	2.70	----	-11.9	10.35
M-251-60	3/12/2024	N	EM19	UMCf	52.3 - 62.3	<0.121	17.5	39.3	27.5 J+	3.206	6.34	0.0 U	0.9	9.03
M-251-60	6/19/2024	N	EM20	UMCf	52.3 - 62.3	<0.121	12.2	14.4 J	<3.02	5.958	0.14	0.0 U	-228.9	8.80
M-252	4/21/2022	N	BL02	UMCf	132.3 - 142.3	----	----	----	----	2.053	5.66	0.0 U	142.6	8.13
M-252	3/15/2023	N	EM07	UMCf	132.3 - 142.3	<0.121	0.682 J	<4.99	<3.02	1.095	1.94	0.0 U	142.0	8.10
M-252	9/19/2023	N	EM13	UMCf	132.3 - 142.3	<0.121	1.93	9.74 J	10.5 J	3.971	-4.01	0 U	363.8	7.32
M-252	12/18/2023	N	EM16	UMCf	132.3 - 142.3	<0.121	3.34	9.22 J	<3.02	2.708	3.52	0.0 U	305.6	7.08
M-252	3/12/2024	N	EM19	UMCf	132.3 - 142.3	<0.121	1.81	8.51 J	4.00 J	3.452	6.06	0.0 U	201.3	7.89
M-252	6/19/2024	N	EM20	UMCf	132.3 - 142.3	<0.121	3.53	11.3 J	<3.02	5.775	3.88	0.0 U	127.3	7.00
M-253-100	4/20/2022	N	BL02	UMCf	100.8 - 110.8	----	----	----	----	2.393	3.04	0.0 U	36.4	8.03
M-255-100	4/20/2022	N	BL02	UMCf	100.2 - 110.2	----	----	----	----	2.198	1.87	0.0 U	175.7	7.89
U4-E-01D	4/18/2022	N	BL02	UMCf	94.7 - 109.7	----	----	----	----	42.734	0.85	0.0 U	167.3	7.78
U4-E-01D	3/14/2023	N	EM07	UMCf	94.7 - 109.7	<0.121	4.22	<4.99	31.6	1.180	7.21	0.0 U	172.0	8.08
U4-E-01D	6/20/2024	N	EM20	UMCf	94.7 - 109.7	<1.09	1.54 J	52.6 J	93.9 J	11.740	0.08	0.0 U	-23.2	5.05
U4-E-01I	4/19/2022	N	BL02	UMCf	74.6 - 89.6	----	----	----	----	0.072	9.17	0.0 U	120.6	8.70
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	<0.121	13.1	11.1 J	6.82 J	8.100	8.18	0.0 U	138.0	7.74

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	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
						Thallium	Uranium	Vanadium	Zinc	Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH
						µg/L	µg/L	µg/L	µg/L	mS/cm	mg/L	mg/L	mV	SU
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
U4-E-01I	1/24/2024	N	EM17	UMCf	74.6 - 89.6	----	----	----	----	3.143	0.24	4.0	-95.8	3.93
U4-E-01I	2/14/2024	N	EM18	UMCf	74.6 - 89.6	----	----	----	----	1.943	0.09	----	-134.9	4.33
U4-E-01I	3/12/2024	N	EM19	UMCf	74.6 - 89.6	----	----	----	----	2.777	-1.93	0.0 U	-140.5	4.39
U4-E-01I	6/20/2024	N	EM20	UMCf	74.6 - 89.6	<1.09	0.771 J	17.8 J	48.3 J	7.784	0.11	1.5	11.4	4.76
U4-E-02D	4/20/2022	N	BL02	UMCf	94.4 - 109.4	----	----	----	----	9.255	0.62	0.0 U	129.9	7.36
U4-E-02D	3/14/2023	N	EM07	UMCf	94.4 - 109.4	<0.121	4.17	<4.99	39.1	1.040	5.47	0.0 U	36.0	7.96
U4-E-02D	6/19/2024	N	EM20	UMCf	94.4 - 109.4	<0.605	2.38 J	26.6	<15.1	10.059	0.06	4.0	-96.3	5.00
U4-E-02I	4/18/2022	N	BL02	UMCf	74.4 - 89.4	----	----	----	----	9.309	4.25	0.0 U	190.6	8.46
U4-E-02I	3/14/2023	N	EM07	UMCf	74.4 - 89.4	<0.121	8.65	11.2 J	109	1.211	5.22	0.0 U	162.8	7.49
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
U4-E-02I	1/22/2024	N	EM17	UMCf	74.4 - 89.4	----	----	----	----	5.245	0.00	5.0	-187.9	5.33
U4-E-02I	2/13/2024	N	EM18	UMCf	74.4 - 89.4	----	----	----	----	6.017	0.07	----	-128.9	4.93
U4-E-02I	3/13/2024	N	EM19	UMCf	74.4 - 89.4	----	----	----	----	5.748	0.15	0.0 U	-167.5	5.35
U4-E-02I	6/19/2024	N	EM20	UMCf	74.4 - 89.4	<0.605	55.2	672	72.7 J	10.133	0.14	1.0	-32.3	4.73
U4-E-03D	4/19/2022	N	BL02	UMCf	95.1 - 110.1	----	----	----	----	36.139	0.68	0.0 U	96.0	7.14
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	<0.605	13.7	11.5 J	<15.1	13.740	5.37	0.0 U	76.6	7.30
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

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	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
						Thallium	Uranium	Vanadium	Zinc	Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH
						µg/L	µg/L	µg/L	µg/L	mS/cm	mg/L	mg/L	mV	SU
U4-E-03D	10/16/2023	N	EM14	UMCf	95.1 - 110.1	----	----	----	----	10.941	3.51	----	81.8	6.15
U4-E-03D	6/10/2024	N	EM20	UMCf	95.1 - 110.1	<0.121	0.319 J	8.95 J	13.3 J	8.444	0.05	2.5	-78.3	5.18
U4-E-03D	6/10/2024	FD	EM20	UMCf	95.1 - 110.1	<0.121	0.525 J	9.51 J	17.0 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
U4-E-04D	3/14/2023	N	EM07	UMCf	95.0 - 110.0	<0.121	4.19	<4.99	35.1	0.999	6.07	0.0 U	48.3	8.06
U4-E-04D	6/20/2024	N	EM20	UMCf	95.0 - 110.0	<1.09	1.36 J	50.8 J	50.6 J	9.823	0.01	0.0 U	-107.6	5.26
U4-E-04I	4/18/2022	N	BL02	UMCf	75.0 - 90.0	----	----	----	----	4.524	0.84	0.0 U	-18.2	8.40
U4-E-04I	3/14/2023	N	EM07	UMCf	75.0 - 90.0	<0.605	10.1	6.22 J	<15.1	22.410	4.33	0.0 U	83.0	7.42
U4-E-04I	6/20/2024	N	EM20	UMCf	75.0 - 90.0	0.719 J	3.41	<4.99	208	7.525	0.04	0.0 U	-72.0	4.90
U4-E-05D	4/19/2022	N	BL02	UMCf	95.0 - 110.0	----	----	----	----	26.037	3.43	0.0 U	177.7	7.33
U4-E-05D	3/16/2023	N	EM07	UMCf	95.0 - 110.0	<0.121	3.57	<4.99	90.4	0.537	1.78	0.0 U	116.2	7.65
U4-E-05D	6/10/2024	N	EM20	UMCf	95.0 - 110.0	<0.121	0.209 J	6.72 J	18.0 J	5.802	-0.02	0.5	-48.9	4.85
U4-E-05I	4/19/2022	N	BL02	UMCf	75.0 - 90.0	----	----	----	----	5.209	0.59	0.0 U	101.8	8.45
U4-E-05I	3/15/2023	N	EM07	UMCf	75.0 - 90.0	<0.121	13.2	16.6 J	10.1 J	8.778	7.39	0.0 U	56.3	7.92
U4-E-05I	6/19/2024	N	EM20	UMCf	75.0 - 90.0	<1.09	0.839 J	<44.9	47.0 J	10.044	0.01	0.0 U	-129.2	5.16
U4-E-06D	4/11/2022	N	BL02	UMCf	95.1 - 110.1	<0.121	5.59	<4.99	5.24 J	9.911	2.39	0.0 U	138.8	7.24
U4-E-06D	6/20/2024	N	EM20	UMCf	95.1 - 110.1	<1.09	2.03 J	44.4	49.1 J	9.377	0.16	0.0 U	-211.9	6.67
U4-E-06I	4/11/2022	N	BL02	UMCf	73.2 - 88.2	<0.121	7.83	17.4 J	4.73 J	4.282	2.10	0.0 U	128.1	7.47
U4-E-06I	4/11/2022	FD	BL02	UMCf	73.2 - 88.2	<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
U4-E-06I	1/22/2024	N	EM17	UMCf	73.2 - 88.2	----	----	----	----	9.874	0.67	1.0	-6.0	6.23
U4-E-06I	2/13/2024	N	EM18	UMCf	73.2 - 88.2	----	----	----	----	11.720	0.57	----	161.6	6.26
U4-E-06I	3/11/2024	N	EM19	UMCf	73.2 - 88.2	----	----	----	----	12.557	0.34	0.0 U	502.2	6.68
U4-E-06I	6/11/2024	N	EM20	UMCf	73.2 - 88.2	<0.605	193	17.2 J	24.2 J	11.664	5.42	0.0 U	89.0	6.47
U4-E-07D	4/12/2022	N	BL02	UMCf	94.6 - 109.6	<1.21	5.33 J	<25.0	<30.2	28.599	1.02	0.0 U	134.9	7.20
U4-E-07D	6/20/2024	N	EM20	UMCf	94.6 - 109.6	0.471 J	104	11.9 J	791	7.042	0.21	1.0	17.4	6.01
U4-E-07I	4/12/2022	N	BL02	UMCf	74.7 - 89.7	<0.121	9.05	45.7	3.42 J	6.791	2.78	0.0 U	164.9	8.12
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

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	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
						Thallium	Uranium	Vanadium	Zinc	Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH
						µg/L	µg/L	µg/L	µg/L	mS/cm	mg/L	mg/L	mV	SU
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
U4-E-07I	1/23/2024	N	EM17	UMCf	74.7 - 89.7	----	----	----	----	15.515	0.80	0.0 U	181.1	6.54
U4-E-07I	2/13/2024	N	EM18	UMCf	74.7 - 89.7	----	----	----	----	15.736	0.31	----	86.5	6.65
U4-E-07I	3/11/2024	N	EM19	UMCf	74.7 - 89.7	----	----	----	----	18.588	0.22	0.0 U	469.3	6.94
U4-E-07I	6/11/2024	N	EM20	UMCf	74.7 - 89.7	<0.605	129	12.3 J	44.2 J	14.405	0.25	0.0 U	136.5	6.83
U4-E-08D	4/12/2022	N	BL02	UMCf	94.6 - 109.6	<1.21	7.00 J	<25.0	<30.2	31.747	1.11	0.0 U	185.4	7.17
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	<1.21	5.49 J	7.06 J	<30.2	16.373	1.12	0.0 U	131.3	7.20
U4-E-09D	6/10/2024	N	EM20	UMCf	94.5 - 109.5	<0.605	1.04 J	27.0	15.4 J	5.708	0.05	3.0	-86.9	4.97
U4-E-09I	4/14/2022	N	BL02	UMCf	74.9 - 89.9	<0.121	9.29	16.8 J	3.75 J	6.980	5.93	0.0 U	42.3	7.51
U4-E-09I	6/10/2024	N	EM20	UMCf	74.9 - 89.9	<0.605	0.560 J	16.3 J	18.0 J	7.771	0.06	0.0 U	-122.3	5.17
U4-E-09I	6/10/2024	FD	EM20	UMCf	74.9 - 89.9	<0.605	0.485 J	17.8 J	24.3 J	----	----	----	----	----
U4-E-10D	4/13/2022	N	BL02	UMCf	94.5 - 109.5	<0.121	1.64	6.53 J	<3.02	8.624	0.77	0.0 U	200.4	8.07
U4-E-10D	6/19/2024	N	EM20	UMCf	94.5 - 109.5	<0.605	1.62 J	26.9	28.5 J	12.292	0.01	0.0 U	-155.2	5.43
U4-E-10I	4/13/2022	N	BL02	UMCf	74.2 - 89.2	<0.121	10.6	14.5 J	7.05 J	9.367	1.04	0.0 U	223.7	7.20
U4-E-10I	6/11/2024	N	EM20	UMCf	74.2 - 89.2	0.172 J	0.763 J	15.9 J	37.4	8.468	0.04	0.0 U	-115.2	5.32
U4-MW-01D	4/19/2022	N	BL02	UMCf	96.7 - 106.7	----	----	----	----	11.556	0.72	0.0 U	130.5	7.14
U4-MW-01D	2/16/2023	N	EM06	UMCf	96.7 - 106.7	----	----	----	----	7.060	11.76	----	190.0	7.35
U4-MW-01D	3/20/2023	N	EM07	UMCf	96.7 - 106.7	<0.121	3.18	<4.99	<3.02	12.024	5.68	0.0 U	164.9	7.53
U4-MW-01D	6/13/2023	N	EM10	UMCf	96.7 - 106.7	<1.21	3.51	6.20 J	<30.2	7.279	5.89	0.0 U	217.9	7.51
U4-MW-01D	9/14/2023	N	EM13	UMCf	96.7 - 106.7	<0.605	4.02 J	6.62 J	<15.1	6.26	5.35	0 U	171.4	7.5
U4-MW-01D	12/14/2023	N	EM16	UMCf	96.7 - 106.7	<0.605	3.45 J	5.20 J	<15.1	7.489	1.80	0.0 U	192.5	7.64
U4-MW-01D	3/13/2024	N	EM19	UMCf	96.7 - 106.7	<0.605	6.31	5.93 J	<15.1	7.074	1.45	0.0 U	419.8	6.96
U4-MW-01D	6/18/2024	N	EM20	UMCf	96.7 - 106.7	<0.121	4.84	5.73 J	<3.02	6.163	0.42	0.0 U	145.8	7.20

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	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
						Thallium	Uranium	Vanadium	Zinc	Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH
						µg/L	µg/L	µg/L	µg/L	mS/cm	mg/L	mg/L	mV	SU
U4-MW-01DD	4/19/2022	N	BL02	UMCf	119.9 - 129.9	----	----	----	----	1.873	0.81	0.0 U	70.8	7.75
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	<0.121	2.59	<4.99	<3.02	6.737	2.84	0.0 U	61.8	7.33
U4-MW-01DD	6/13/2023	N	EM10	UMCf	119.9 - 129.9	<1.21	1.09	<4.99	<30.2	4.786	3.56	0.0 U	171.6	7.59
U4-MW-01DD	9/14/2023	N	EM13	UMCf	119.9 - 129.9	<0.121	1.65	<4.99	12.8 J	4.64	2.03	0 U	145.3	7.45
U4-MW-01DD	12/15/2023	N	EM16	UMCf	119.9 - 129.9	<0.121	2.61	<4.99	24.5 J	2.687	3.13	0.0 U	160.6	7.57
U4-MW-01DD	3/12/2024	N	EM19	UMCf	119.9 - 129.9	<0.121	2.94	8.43 J	<3.02	4.138	2.42	0.0 U	276.8	7.64
U4-MW-01DD	6/18/2024	N	EM20	UMCf	119.9 - 129.9	<0.121	2.68	6.86 J	<3.02	2.724	2.32	0.0 U	169.2	7.44
U4-MW-01I	4/19/2022	N	BL02	UMCf	76.7 - 86.7	----	----	----	----	9.209	0.67	0.0 U	103.3	7.70
U4-MW-01I	3/20/2023	N	EM07	UMCf	76.7 - 86.7	0.148 J	3.88	<4.99	<3.02	16.598	7.69	0.0 U	137.9	7.59
U4-MW-01I	6/12/2023	N	EM10	UMCf	76.7 - 86.7	<0.121	3.83	<4.99	11.4 J	7.447	5.80	0.0 U	159.7	7.60
U4-MW-01I	9/14/2023	N	EM13	UMCf	76.7 - 86.7	<0.605	5.11	<4.99	<15.1	7.818	4.76	0 U	133.7	7.49
U4-MW-01I	12/15/2023	N	EM16	UMCf	76.7 - 86.7	<1.21	7.14 J	<25.0	46.4 J+	----	----	----	----	----
U4-MW-01I	3/13/2024	N	EM19	UMCf	76.7 - 86.7	<0.605	8.01	<4.99	<15.1	12.389	1.60	0.0 U	352.0	7.21
U4-MW-01I	6/18/2024	N	EM20	UMCf	76.7 - 86.7	<0.121	10.0	<4.99	<3.02	9.683	0.22	0.0 U	157.5	7.03
U4-MW-01S	4/18/2022	N	BL02	UMCf	54.7 - 64.7	----	----	----	----	4.903	4.81	0.0 U	99.5	8.75
U4-MW-01S	3/15/2023	N	EM07	UMCf	54.7 - 64.7	<0.121	2.66	66.7	<3.02	4.199	5.90	0.0 U	-4.5	8.44
U4-MW-01S	6/13/2023	N	EM10	UMCf	54.7 - 64.7	<0.121	2.22	67.6	<3.02	4.283	4.21	0.0 U	164.7	8.57
U4-MW-01S	9/15/2023	N	EM13	UMCf	54.7 - 64.7	<0.121	3.16	68.2	<3.02	3.367	0.79	0 U	83.9	8.6
U4-MW-01S	12/13/2023	N	EM16	UMCf	54.7 - 64.7	<0.121	5.09	70.3	<3.02	3.665	0.10	0.0 U	-48.3	8.50
U4-MW-01S	3/13/2024	N	EM19	UMCf	54.7 - 64.7	<0.121	18.6	70.0	4.53 J	2.929	0.13	0.0 U	-14.7	7.31
U4-MW-01S	6/18/2024	N	EM20	UMCf	54.7 - 64.7	<0.121	87.1	76.0	<3.02	2.870	0.26	0.0 U	117.0	7.75
U4-MW-02D	4/14/2022	N	BL02	UMCf	95.0 - 110.0	----	----	----	----	47.936	0.74	0.0 U	206.4	7.25
U4-MW-02D	10/11/2022	N	EM02	UMCf	95.0 - 110.0	----	----	----	----	82.713	0.99	----	202.1	7.14
U4-MW-02D	11/1/2022	N	EM03	UMCf	95.0 - 110.0	----	----	----	----	61.099	0.93	----	114.9	7.21
U4-MW-02D	12/7/2022	N	EM04	UMCf	95.0 - 110.0	----	----	----	----	41.262	1.18	----	139.7	7.32
U4-MW-02D	1/10/2023	N	EM05	UMCf	95.0 - 110.0	----	----	----	----	28.405	1.73	----	124.2	7.31
U4-MW-02D	2/13/2023	N	EM06	UMCf	95.0 - 110.0	----	----	----	----	25.274	2.04	----	199.9	7.39
U4-MW-02D	3/17/2023	N	EM07	UMCf	95.0 - 110.0	<1.21	3.50 J	<4.99	<30.2	38.385	2.05	0.0 U	178.4	7.26
U4-MW-02D	4/19/2023	N	EM08	UMCf	95.0 - 110.0	----	----	----	----	37.915	0.18	0.0 U	42.5	7.15
U4-MW-02D	5/9/2023	N	EM09	UMCf	95.0 - 110.0	----	----	----	----	35.930	2.52	0.0 U	94.9	7.25
U4-MW-02D	6/13/2023	N	EM10	UMCf	95.0 - 110.0	<1.21	53.6	<25.0	<30.2	35.233	7.26	0.0 U	154.1	7.28
U4-MW-02D	7/18/2023	N	EM11	UMCf	95.0 - 110.0	----	----	----	----	40.985	1.73	0.0 U	117.3	7.25
U4-MW-02D	8/14/2023	N	EM12	UMCf	95.0 - 110.0	----	----	----	----	38.61	2.22	0 U	133.6	7.33
U4-MW-02D	9/11/2023	N	EM13	UMCf	95.0 - 110.0	<2.42	4.70 J	<4.99	<60.4	33.003	1.98	0 U	150.9	7.38
U4-MW-02D	10/19/2023	N	EM14	UMCf	95.0 - 110.0	----	----	----	----	38.108	1.6	0 U	161.6	7.19
U4-MW-02D	11/15/2023	N	EM15	UMCf	95.0 - 110.0	----	----	----	----	30.650	0.41	0 U	233.7	7.16
U4-MW-02D	12/14/2023	N	EM16	UMCf	95.0 - 110.0	<2.42	6.29 J	<4.99	<60.4	30.653	1.97	0.0 U	325.6	6.99
U4-MW-02D	1/25/2024	N	EM17	UMCf	95.0 - 110.0	----	----	----	----	35.341	0.65	0.0 U	469.9	7.33
U4-MW-02D	2/12/2024	N	EM18	UMCf	95.0 - 110.0	----	----	----	----	30.620	0.62	0.0 U	153.5	7.25
U4-MW-02D	3/13/2024	N	EM19	UMCf	95.0 - 110.0	<1.21	6.81 J	14.4 J	<30.2	31.672	0.72	0.0 U	168.1	7.15
U4-MW-02D	6/17/2024	N	EM20	UMCf	95.0 - 110.0	<1.21	10.2	6.46 J	89.7 J	27.045	3.19	0.0 U	89.0	7.18
U4-MW-02I	4/14/2022	N	BL02	UMCf	75.0 - 90.0	----	----	----	----	8.827	3.75	0.0 U	159.8	8.09

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	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
						Thallium	Uranium	Vanadium	Zinc	Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH
						µg/L	µg/L	µg/L	µg/L	mS/cm	mg/L	mg/L	mV	SU
U4-MW-02I	10/11/2022	N	EM02	UMCf	75.0 - 90.0	----	----	----	----	20.389	0.98	----	172.7	7.07
U4-MW-02I	11/2/2022	N	EM03	UMCf	75.0 - 90.0	----	----	----	----	17.936	0.44	----	148.7	6.86
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
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
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	<0.605	19.3	8.84 J	<15.1	27.205	0.39	0.0 U	129.0	6.43
U4-MW-02I	3/17/2023	FD	EM07	UMCf	75.0 - 90.0	<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
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
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	<0.121	60.1	18.9 J	12.9 J	4.378	1.99	0.0 U	110.4	6.57
U4-MW-02I	6/12/2023	FD	EM10	UMCf	75.0 - 90.0	<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
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
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	<0.605	65.1	34.5	<15.1	8.481	0.14	0 U	128.6	6.31
U4-MW-02I	9/11/2023	FD	EM13	UMCf	75.0 - 90.0	<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
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
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	<1.21	222	38.5	<30.2	16.823	1.32	0.0 U	176.3	6.32
U4-MW-02I	12/14/2023	FD	EM16	UMCf	75.0 - 90.0	<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
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
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	<1.21	161	30.4	<30.2	20.070	0.44	0.0 U	172.4	6.39
U4-MW-02I	3/13/2024	FD	EM19	UMCf	75.0 - 90.0	<1.21	155	34.5	<30.2	----	----	----	----	----
U4-MW-02I	6/17/2024	N	EM20	UMCf	75.0 - 90.0	<0.605	138	33.2	22.2 J	13.691	0.22	0.0 U	162.8	6.33
U4-MW-02I	6/17/2024	FD	EM20	UMCf	75.0 - 90.0	<0.605	132	33.9	24.6 J	----	----	----	----	----
U4-MW-03D	4/20/2022	N	BL02	UMCf	96.6 - 106.6	----	----	----	----	19.006	2.71	0.0 U	209.7	7.29
U4-MW-03D	2/16/2023	N	EM06	UMCf	96.6 - 106.6	----	----	----	----	7.848	5.12	----	168.2	7.47
U4-MW-03D	3/16/2023	N	EM07	UMCf	96.6 - 106.6	<0.605	2.41 J	<4.99	<15.1	797.196	3.67	0.0 U	76.1	7.37
U4-MW-03D	3/16/2023	FD	EM07	UMCf	96.6 - 106.6	<0.605	2.52 J	<4.99	<15.1	----	----	----	----	----
U4-MW-03D	6/15/2023	N	EM10	UMCf	96.6 - 106.6	<0.605	2.67	<25.0	<15.1	12.408	7.77	0.0 U	277.6	7.31
U4-MW-03D	9/14/2023	N	EM13	UMCf	96.6 - 106.6	<0.605	19.6	<4.99	<15.1	12.23	-1.53	0 U	198.5	6.9

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	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
						Thallium	Uranium	Vanadium	Zinc	Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH
						µg/L	µg/L	µg/L	µg/L	mS/cm	mg/L	mg/L	mV	SU
U4-MW-03D	12/13/2023	N	EM16	UMCf	96.6 - 106.6	<0.605	72.6	<4.99	<15.1	15.255	0.67	0.0 U	-104.9	6.21
U4-MW-03D	3/15/2024	N	EM19	UMCf	96.6 - 106.6	<0.121	1.02	<4.99	41.1	11.974	1.50	0.0 U	-40.4	6.22
U4-MW-03D	6/17/2024	N	EM20	UMCf	96.6 - 106.6	0.245 J	89.8	5.60 J	3.97 J	12.577	0.70	0.0 U	99.5	6.42
U4-MW-03DD	4/20/2022	N	BL02	UMCf	119.7 - 129.7	----	----	----	----	2.756	1.07	0.0 U	220.6	7.54
U4-MW-03DD	3/15/2023	N	EM07	UMCf	119.7 - 129.7	<0.121	2.55	7.92 J	<3.02	1.855	2.71	0.0 U	35.0	8.22
U4-MW-03DD	6/15/2023	N	EM10	UMCf	119.7 - 129.7	<0.121	2.35	11.0 J	<3.02	1.081	1.55	0.0 U	185.0	8.22
U4-MW-03DD	9/14/2023	N	EM13	UMCf	119.7 - 129.7	<0.121	2.53	8.13 J	3.18 J	0.855	-1.23	0 U	189.8	8.45
U4-MW-03DD	12/14/2023	N	EM16	UMCf	119.7 - 129.7	<0.121	2.46	9.56 J	<3.02	0.997	1.58	0.0 U	233.3	8.43
U4-MW-03DD	3/14/2024	N	EM19	UMCf	119.7 - 129.7	<0.121	2.38	10.1 J	<3.02	1.046	2.25	0.0 U	90.8	8.39
U4-MW-03DD	6/17/2024	N	EM20	UMCf	119.7 - 129.7	<0.121	2.28	11.3 J	<3.02	1.058	1.45	0.0 U	60.0	8.51
U4-MW-03I	4/19/2022	N	BL02	UMCf	76.6 - 86.6	----	----	----	----	6.055	1.28	0.0 U	57.0	8.02
U4-MW-03I	3/15/2023	N	EM07	UMCf	76.6 - 86.6	0.158 J	4.09	<4.99	<3.02	22.711	4.02	0.0 U	95.9	7.44
U4-MW-03I	6/14/2023	N	EM10	UMCf	76.6 - 86.6	<0.605	3.39 J	8.63 J	<15.1	12.632	4.07	0.0 U	230.1	7.54
U4-MW-03I	6/14/2023	FD	EM10	UMCf	76.6 - 86.6	<0.605	3.43 J	7.62 J	<15.1	----	----	----	----	----
U4-MW-03I	9/11/2023	N	EM13	UMCf	76.6 - 86.6	<0.605	13.0	16.6 J	36.4 J	13.726	2.78	0 U	157.1	7.16
U4-MW-03I	9/11/2023	FD	EM13	UMCf	76.6 - 86.6	<0.605	11.9	14.1 J	27.8 J	----	----	----	----	----
U4-MW-03I	12/13/2023	N	EM16	UMCf	76.6 - 86.6	<0.605	64.2	<4.99	<15.1	14.049	0.09	0.0 U	-89.0	6.44
U4-MW-03I	12/13/2023	FD	EM16	UMCf	76.6 - 86.6	<0.605	63.1	<4.99	<15.1	----	----	----	----	----
U4-MW-03I	3/14/2024	N	EM19	UMCf	76.6 - 86.6	<0.605	70.5	<4.99	21.3 J	12.568	1.56	0.0 U	59.0	6.22
U4-MW-03I	3/14/2024	FD	EM19	UMCf	76.6 - 86.6	<0.605	68.8	7.14 J	16.9 J	----	----	----	----	----
U4-MW-03I	6/19/2024	N	EM20	UMCf	76.6 - 86.6	0.223 J	131	30.6	<3.02	23.862	0.95	0.0 U	167.5	5.98
U4-MW-03I	6/19/2024	FD	EM20	UMCf	76.6 - 86.6	0.191 J	127	27.1	<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
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	<0.121	6.81	159	<3.02	7.108	3.63	0.0 U	-0.9	9.48
U4-MW-03S	6/15/2023	N	EM10	UMCf	54.5 - 64.5	<0.121	5.87	105	<3.02	4.357	0.56	0.0 U	171.1	8.84
U4-MW-03S	9/14/2023	N	EM13	UMCf	54.5 - 64.5	<0.121	13.0	127	<3.02	3.313	-1.93	0 U	-20	8.81
U4-MW-03S	12/13/2023	N	EM16	UMCf	54.5 - 64.5	<0.121	26.9	170	<3.02	4.153	0.37	0.0 U	180.6	8.94
U4-MW-03S	3/14/2024	N	EM19	UMCf	54.5 - 64.5	<0.121	91.0	138	<3.02	4.188	1.42	0.0 U	62.4	8.86
U4-MW-03S	6/14/2024	N	EM20	UMCf	54.5 - 64.5	<0.121	103 J+	129	<3.02	8.470	0.26	0.0 U	-51.1	8.76
U4-MW-04D	4/19/2022	N	BL02	UMCf	97.0 - 107.0	----	----	----	----	50.188	0.90	0.0 U	76.7	7.01
U4-MW-04D	2/16/2023	N	EM06	UMCf	97.0 - 107.0	----	----	----	----	5.802	7.81	----	185.1	7.60
U4-MW-04D	3/21/2023	N	EM07	UMCf	97.0 - 107.0	<0.121	9.80	<4.99	<3.02	5.697	7.32	0.0 U	43.3	7.80
U4-MW-04D	6/14/2023	N	EM10	UMCf	97.0 - 107.0	<0.605	15.5	11.8 J	<15.1	5.920	0.79	0.0 U	22.8	7.20
U4-MW-04D	9/15/2023	N	EM13	UMCf	97.0 - 107.0	<0.605	14.8	5.26 J	50.2 J	8.782	2.88	0 U	279.6	6.88
U4-MW-04D	12/12/2023	N	EM16	UMCf	97.0 - 107.0	<0.605	24.5	<4.99	<15.1	8.464	0.52	0.0 U	188.3	6.51
U4-MW-04D	3/12/2024	N	EM19	UMCf	97.0 - 107.0	<0.605	40.9	<4.99	<15.1	8.859	0.72	0.0 U	209.3	5.92
U4-MW-04D	6/19/2024	N	EM20	UMCf	97.0 - 107.0	<0.605	66.5	7.59 J	<15.1	14.687	0.38	0.0 U	212.9	5.84
U4-MW-04I	4/19/2022	N	BL02	UMCf	76.8 - 86.8	----	----	----	----	22.833	0.68	0.0 U	49.8	7.36
U4-MW-04I	3/20/2023	N	EM07	UMCf	76.8 - 86.8	<0.605	7.91	<4.99	<15.1	15.330	5.23	0.0 U	144.6	7.43
U4-MW-04I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<0.605	22.0	6.74 J	<15.1	12.208	1.12	0.0 U	96.3	6.90
U4-MW-04I	9/14/2023	N	EM13	UMCf	76.8 - 86.8	<1.21	30.1	<4.99	<30.2	27.215	0.72	0 U	168.9	6.83
U4-MW-04I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	<2.42	33.6	<4.99	<60.4	28.039	0.40	0.0 U	107.2	6.53

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	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
						Thallium	Uranium	Vanadium	Zinc	Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH
						µg/L	µg/L	µg/L	µg/L	mS/cm	mg/L	mg/L	mV	SU
U4-MW-04I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	<1.21	49.6	<4.99	<30.2	23.480	1.15	0.0 U	174.7	6.43
U4-MW-04I	6/18/2024	N	EM20	UMCf	76.8 - 86.8	<1.21	50.8	<4.99	<30.2	32.015	0.72	0.0 U	136.1	6.59
U4-MW-05D	4/15/2022	N	BL02	UMCf	98.2 - 108.2	----	----	----	----	39.740	0.77	0.0 U	146.1	7.03
U4-MW-05D	10/13/2022	N	EM02	UMCf	98.2 - 108.2	----	----	----	----	24.933	3.56	----	190.6	7.02
U4-MW-05D	11/3/2022	N	EM03	UMCf	98.2 - 108.2	----	----	----	----	17.012	4.46	----	121.3	7.64
U4-MW-05D	12/7/2022	N	EM04	UMCf	98.2 - 108.2	----	----	----	----	16.306	4.72	----	143.6	7.59
U4-MW-05D	1/11/2023	N	EM05	UMCf	98.2 - 108.2	----	----	----	----	10.893	5.62	----	187.0	7.27
U4-MW-05D	2/14/2023	N	EM06	UMCf	98.2 - 108.2	----	----	----	----	5.665	7.00	----	190.5	7.55
U4-MW-05D	3/16/2023	N	EM07	UMCf	98.2 - 108.2	<0.605	13.1	11.8 J	<15.1	13.970	5.77	0.0 U	57.4	7.45
U4-MW-05D	4/20/2023	N	EM08	UMCf	98.2 - 108.2	----	----	----	----	8.597	0.09	0.0 U	36.1	7.31
U4-MW-05D	5/10/2023	N	EM09	UMCf	98.2 - 108.2	----	----	----	----	22.381	-39.98	0.0 U	133.6	5.83
U4-MW-05D	6/15/2023	N	EM10	UMCf	98.2 - 108.2	<0.605	93.9	<4.99	<15.1	6.646	0.78	0.0 U	133.4	6.48
U4-MW-05D	7/18/2023	N	EM11	UMCf	98.2 - 108.2	----	----	----	----	11.868	0.37	0.0 U	182.4	6.42
U4-MW-05D	8/14/2023	N	EM12	UMCf	98.2 - 108.2	----	----	----	----	14.812	1.44	0 U	100.2	6.71
U4-MW-05D	9/12/2023	N	EM13	UMCf	98.2 - 108.2	0.257 J	117	<4.99	12.8 J	9.152	0.08	0 U	99.9	6.21
U4-MW-05D	10/18/2023	N	EM14	UMCf	98.2 - 108.2	----	----	----	----	10.688	0.77	0 U	104.5	6.41
U4-MW-05D	11/16/2023	N	EM15	UMCf	98.2 - 108.2	----	----	----	----	11.339	0.18	0 U	-35.5	6.34
U4-MW-05D	12/14/2023	N	EM16	UMCf	98.2 - 108.2	<0.605	113	151	<15.1	10.356	0.02	0.0 U	-183.3	6.03
U4-MW-05D	1/26/2024	N	EM17	UMCf	98.2 - 108.2	----	----	----	----	16.203	0.61	0.0 U	-279.7	6.10
U4-MW-05D	2/14/2024	N	EM18	UMCf	98.2 - 108.2	----	----	----	----	11.861	1.56	0.0 U	22.7	5.94
U4-MW-05D	3/12/2024	N	EM19	UMCf	98.2 - 108.2	0.761 J	219	27.1	35.5 J	12.653	-1.97	0.0 U	28.8	6.04
U4-MW-05D	6/18/2024	N	EM20	UMCf	98.2 - 108.2	<1.21	254	34.1	<30.2	25.570	0.51	0.0 U	162.6	6.21
U4-MW-05I	4/15/2022	N	BL02	UMCf	76.6 - 86.6	----	----	----	----	20.080	0.87	0.0 U	140.1	7.54
U4-MW-05I	10/13/2022	N	EM02	UMCf	76.6 - 86.6	----	----	----	----	24.065	2.94	----	205.5	7.04
U4-MW-05I	11/3/2022	N	EM03	UMCf	76.6 - 86.6	----	----	----	----	21.533	3.08	----	130.9	7.57
U4-MW-05I	12/8/2022	N	EM04	UMCf	76.6 - 86.6	----	----	----	----	0.258	6.78	----	132.0	7.34
U4-MW-05I	1/11/2023	N	EM05	UMCf	76.6 - 86.6	----	----	----	----	12.599	4.84	----	192.5	7.29
U4-MW-05I	2/14/2023	N	EM06	UMCf	76.6 - 86.6	----	----	----	----	5.446	5.76	----	179.4	7.53
U4-MW-05I	3/14/2023	N	EM07	UMCf	76.6 - 86.6	<0.605	16.0	21.8	<15.1	23.991	6.62	0.5	77.0	7.65
U4-MW-05I	4/21/2023	N	EM08	UMCf	76.6 - 86.6	----	----	----	----	5.477	0.92	0.0 U	-3.0	7.08
U4-MW-05I	5/10/2023	N	EM09	UMCf	76.6 - 86.6	----	----	----	----	13.468	-1.10	0.0 U	-31.5	5.71
U4-MW-05I	6/15/2023	N	EM10	UMCf	76.6 - 86.6	<0.121	96.4	24.8	9.57 J	4.781	0.37	0.5	-156.7	6.57
U4-MW-05I	7/17/2023	N	EM11	UMCf	76.6 - 86.6	----	----	----	----	10.427	0.14	0.0 U	141.8	6.71
U4-MW-05I	8/14/2023	N	EM12	UMCf	76.6 - 86.6	----	----	----	----	12.637	1.39	0 U	107.5	6.74
U4-MW-05I	9/13/2023	N	EM13	UMCf	76.6 - 86.6	<0.605	163	21.9	20.6 J	10.838	0.08	0 U	126.6	6.36
U4-MW-05I	10/18/2023	N	EM14	UMCf	76.6 - 86.6	----	----	----	----	9.508	7.01	0 U	99.1	6.95
U4-MW-05I	11/15/2023	N	EM15	UMCf	76.6 - 86.6	----	----	----	----	11.545	0.18	0 U	-1.8	6.59
U4-MW-05I	12/12/2023	N	EM16	UMCf	76.6 - 86.6	<1.21	155	11.3 J	<30.2	12.780	0.45	0.0 U	-181.9	6.27
U4-MW-05I	1/26/2024	N	EM17	UMCf	76.6 - 86.6	----	----	----	----	16.872	0.13	0.0 U	-459.5	6.38
U4-MW-05I	2/14/2024	N	EM18	UMCf	76.6 - 86.6	----	----	----	----	13.126	0.54	0.0 U	-87.5	6.16
U4-MW-05I	3/11/2024	N	EM19	UMCf	76.6 - 86.6	0.632 J	219	15.2 J	24.1 J	18.403	0.16	0.0 U	149.7	6.36
U4-MW-05I	6/18/2024	N	EM20	UMCf	76.6 - 86.6	<1.21	214	24.2	<30.2	25.926	0.39	0.0 U	156.3	6.25
U4-MW-06D	4/19/2022	N	BL02	UMCf	97.1 - 107.1	----	----	----	----	----	----	0.0 U	----	----

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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	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
						Thallium	Uranium	Vanadium	Zinc	Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH
						µg/L	µg/L	µg/L	µg/L	mS/cm	mg/L	mg/L	mV	SU
U4-MW-06D	2/15/2023	N	EM06	UMCf	97.1 - 107.1	----	----	----	----	16.354	5.93	----	198.6	7.34
U4-MW-06D	3/21/2023	N	EM07	UMCf	97.1 - 107.1	0.144 J	6.77	<4.99	<3.02	9.930	5.41	0.0 U	196.2	7.10
U4-MW-06D	6/16/2023	N	EM10	UMCf	97.1 - 107.1	<0.605	7.14	<49.9	16.2 J	10.958	5.42	0.0 U	140.6	7.26
U4-MW-06D	9/13/2023	N	EM13	UMCf	97.1 - 107.1	<0.605	74.5	<4.99	16.4 J	20.472	0.84	0 U	23.9	6.08
U4-MW-06D	12/13/2023	N	EM16	UMCf	97.1 - 107.1	<2.42	106	<4.99	<60.4	19.371	0.33	0.0 U	280.8	5.82
U4-MW-06D	3/14/2024	N	EM19	UMCf	97.1 - 107.1	<0.605	146	6.78 J	20.6 J	18.486	0.30	0.0 U	201.2	5.64
U4-MW-06D	6/12/2024	N	EM20	UMCf	97.1 - 107.1	<1.21	163	7.61 J	42.7 J	52.540	5.63	0.0 U	220.9	6.26
U4-MW-06I	4/19/2022	N	BL02	UMCf	76.5 - 86.5	----	----	----	----	6.356	0.75	0.0 U	132.2	8.14
U4-MW-06I	3/14/2023	N	EM07	UMCf	76.5 - 86.5	<0.605	9.11	11.5 J	<15.1	4.941	6.89	0.0 U	120.3	7.90
U4-MW-06I	6/16/2023	N	EM10	UMCf	76.5 - 86.5	<0.605	31.8	<49.9	15.5 J	6.217	8.13	0.0 U	94.8	8.27
U4-MW-06I	9/12/2023	N	EM13	UMCf	76.5 - 86.5	<0.605	87.3	<25.0	24.4 J	20.743	0.68	0 U	31.2	6.42
U4-MW-06I	12/12/2023	N	EM16	UMCf	76.5 - 86.5	<2.42	85.0	<4.99	<60.4	25.356	0.33	0.0 U	-77.3	6.06
U4-MW-06I	3/14/2024	N	EM19	UMCf	76.5 - 86.5	0.989 J	167	<4.99	18.9 J	20.279	0.30	0.0 U	28.1	5.76
U4-MW-06I	6/11/2024	N	EM20	UMCf	76.5 - 86.5	<1.21	200	8.05 J	46.7 J	22.264	0.14	0.0 U	163.0	6.43
U4-MW-07D	4/15/2022	N	BL02	UMCf	96.8 - 106.5	----	----	----	----	10.924	4.48	0.0 U	182.2	7.48
U4-MW-07D	10/12/2022	N	EM02	UMCf	96.8 - 106.5	----	----	----	----	2.057	6.89	----	93.5	7.79
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
U4-MW-07D	12/7/2022	N	EM04	UMCf	96.8 - 106.5	----	----	----	----	1.462	8.66	----	106.4	7.83
U4-MW-07D	1/11/2023	N	EM05	UMCf	96.8 - 106.5	----	----	----	----	1.736	11.30	----	105.0	7.74
U4-MW-07D	2/14/2023	N	EM06	UMCf	96.8 - 106.5	----	----	----	----	1.217	9.30	----	161.8	7.79
U4-MW-07D	3/16/2023	N	EM07	UMCf	96.8 - 106.5	<0.121	7.45	<4.99	<3.02	0.029	7.54	0.0 U	140.8	7.92
U4-MW-07D	4/21/2023	N	EM08	UMCf	96.8 - 106.5	----	----	----	----	4.642	0.05	0.0 U	-393.7	6.15
U4-MW-07D	5/11/2023	N	EM09	UMCf	96.8 - 106.5	----	----	----	----	37.585	44.89	0.0 U	47.7	5.65
U4-MW-07D	6/13/2023	N	EM10	UMCf	96.8 - 106.5	0.168 J	3.74 J	8.40 J	<3.02	4.893	1.10	0.0 U	108.0	6.37
U4-MW-07D	7/17/2023	N	EM11	UMCf	96.8 - 106.5	----	----	----	----	16.019	0.37	0.0 U	162.4	6.70
U4-MW-07D	8/11/2023	N	EM12	UMCf	96.8 - 106.5	----	----	----	----	14.895	2.61	0 U	128.8	6.46
U4-MW-07D	9/13/2023	N	EM13	UMCf	96.8 - 106.5	<0.605	128	8.03 J	<15.1	13.126	0.06	0 U	174.6	6.3
U4-MW-07D	10/18/2023	N	EM14	UMCf	96.8 - 106.5	----	----	----	----	11.854	1.09	0 U	124.7	6.6
U4-MW-07D	11/16/2023	N	EM15	UMCf	96.8 - 106.5	----	----	----	----	14.100	0.40	0 U	-32.5	6.21
U4-MW-07D	12/12/2023	N	EM16	UMCf	96.8 - 106.5	<0.605	94.9	21.3	24.4 J	11.893	0.10	0.0 U	-147.3	5.88
U4-MW-07D	1/26/2024	N	EM17	UMCf	96.8 - 106.5	----	----	----	----	13.083	0.01	0.0 U	-428.7	5.93
U4-MW-07D	2/13/2024	N	EM18	UMCf	96.8 - 106.5	----	----	----	----	10.076	-0.06	0.0 U	-132.6	5.57
U4-MW-07D	3/11/2024	N	EM19	UMCf	96.8 - 106.5	1.09 J	216	166	35.7 J	16.620	0.08	1.0	166.3	5.85
U4-MW-07D	6/12/2024	N	EM20	UMCf	96.8 - 106.5	1.42 J	346	71.4	19.3 J	34.470	0.03	0.5	158.0	6.06
U4-MW-07I	4/15/2022	N	BL02	UMCf	76.8 - 86.8	----	----	----	----	5.556	0.59	0.0 U	158.2	7.86
U4-MW-07I	10/12/2022	N	EM02	UMCf	76.8 - 86.8	----	----	----	----	2.078	6.24	----	135.0	7.86
U4-MW-07I	11/3/2022	N	EM03	UMCf	76.8 - 86.8	----	----	----	----	1.794	6.05	----	141.5	7.93
U4-MW-07I	12/7/2022	N	EM04	UMCf	76.8 - 86.8	----	----	----	----	1.562	8.32	----	96.7	7.97
U4-MW-07I	1/11/2023	N	EM05	UMCf	76.8 - 86.8	----	----	----	----	1.955	9.11	----	104.4	7.82
U4-MW-07I	2/15/2023	N	EM06	UMCf	76.8 - 86.8	----	----	----	----	1.786	8.45	----	124.7	7.66
U4-MW-07I	3/16/2023	N	EM07	UMCf	76.8 - 86.8	<0.121	8.83	5.92 J	5.20 J	6.144	7.27	0.0 U	83.7	7.72
U4-MW-07I	4/21/2023	N	EM08	UMCf	76.8 - 86.8	----	----	----	----	4.708	0.07	0.0 U	-161.7	6.53

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	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
						Thallium	Uranium	Vanadium	Zinc	Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH
						µg/L	µg/L	µg/L	µg/L	mS/cm	mg/L	mg/L	mV	SU
U4-MW-07I	5/11/2023	N	EM09	UMCf	76.8 - 86.8	----	----	----	----	42.407	48.03	1.0	-80.3	6.08
U4-MW-07I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<0.121	62.7	10.3 J	<3.02	4.631	0.23	1.0	-262.2	6.78
U4-MW-07I	7/17/2023	N	EM11	UMCf	76.8 - 86.8	----	----	----	----	10.648	0.37	0.0 U	133.1	6.53
U4-MW-07I	8/11/2023	N	EM12	UMCf	76.8 - 86.8	----	----	----	----	10.453	3.21	0 U	99.4	6.44
U4-MW-07I	9/13/2023	N	EM13	UMCf	76.8 - 86.8	<0.605	218	22.2	18.6 J	11.049	0.1	0 U	156.1	6.31
U4-MW-07I	10/18/2023	N	EM14	UMCf	76.8 - 86.8	----	----	----	----	8.236	0.87	0 U	96.4	6.51
U4-MW-07I	11/16/2023	N	EM15	UMCf	76.8 - 86.8	----	----	----	----	10.506	0.19	0 U	-112.3	6.36
U4-MW-07I	12/11/2023	N	EM16	UMCf	76.8 - 86.8	<0.605	123	12.0 J	163	12.676	0.36	0.0 U	-111.1	6.10
U4-MW-07I	1/26/2024	N	EM17	UMCf	76.8 - 86.8	----	----	----	----	14.572	0.07	0.0 U	-488.4	6.10
U4-MW-07I	2/13/2024	N	EM18	UMCf	76.8 - 86.8	----	----	----	----	11.454	-0.02	0.0 U	-185.6	5.64
U4-MW-07I	3/11/2024	N	EM19	UMCf	76.8 - 86.8	0.660 J	158	29.2	27.4 J	17.404	0.14	0.0 U	90.4	5.91
U4-MW-07I	6/12/2024	N	EM20	UMCf	76.8 - 86.8	<0.605	277	29.9	<15.1	30.395	0.08	0.0 U	130.8	6.14
U4-MW-08D	4/13/2022	N	BL02	UMCf	98.6 - 108.6	<1.21	10.1	<25.0	<30.2	43.677	1.07	0.0 U	166.4	6.92
U4-MW-08D	12/7/2022	N	EM04	UMCf	98.6 - 108.6	<0.605	24.7	6.96 J	<15.1	15.745	1.70	0.0 U	52.2	6.62
U4-MW-08D	3/17/2023	N	EM07	UMCf	98.6 - 108.6	<0.605	103	<4.99	<15.1	15.242	1.42	0.0 U	174.5	6.38
U4-MW-08D	6/13/2023	N	EM10	UMCf	98.6 - 108.6	<1.21	96.5	<4.99	<30.2	26.142	2.23	0.0 U	126.1	6.54
U4-MW-08D	9/13/2023	N	EM13	UMCf	98.6 - 108.6	<1.21	39.1	<4.99	<30.2	50.933	-1.16	0 U	263.7	6.48
U4-MW-08D	12/11/2023	N	EM16	UMCf	98.6 - 108.6	<1.21	52.6	<4.99	2,860	32.434	0.45	0.0 U	181.2	6.28
U4-MW-08D	3/12/2024	N	EM19	UMCf	98.6 - 108.6	<1.21	112	<4.99	<30.2	26.147	0.83	0.0 U	38.5	6.20
U4-MW-08D	6/14/2024	N	EM20	UMCf	98.6 - 108.6	<0.121	0.448 J	<25.0	<3.02	75.838	0.40	0.0 U	154.4	6.35
U4-MW-08DD	4/20/2022	N	BL02	UMCf	119.8 - 129.8	<0.121	3.24	10.4 J	<3.02	1.774	0.95	0.0 U	5.0	7.70
U4-MW-08DD	4/20/2022	FD	BL02	UMCf	119.8 - 129.8	<0.121	3.20	9.34 J	<3.02	----	----	----	----	----
U4-MW-08DD	12/8/2022	N	EM04	UMCf	119.8 - 129.8	<0.121	3.17	8.61	23.0 J	1.034	1.20	0.0 U	138.4	7.44
U4-MW-08DD	3/15/2023	N	EM07	UMCf	119.8 - 129.8	<0.121	2.28	<4.99	<3.02	7.824	2.01	0.0 U	63.2	7.54
U4-MW-08DD	6/14/2023	N	EM10	UMCf	119.8 - 129.8	0.830 J	2.36	8.83 J	<3.02	2.973	2.71	0.0 U	46.7	6.77
U4-MW-08DD	9/14/2023	N	EM13	UMCf	119.8 - 129.8	<0.121	2.91	7.29 J	<3.02	1.655	-1.71	0 U	290.1	7.54
U4-MW-08DD	12/14/2023	N	EM16	UMCf	119.8 - 129.8	<0.121	2.74	6.41 J	<3.02	2.416	0.73	0.0 U	-1.3	7.34
U4-MW-08DD	3/14/2024	N	EM19	UMCf	119.8 - 129.8	<0.121	2.35	6.96 J	<3.02	1.252	0.92	0.0 U	122.9	7.64
U4-MW-08DD	6/12/2024	N	EM20	UMCf	119.8 - 129.8	<0.121	2.53	<4.99	<3.02	3.608	1.94	0.0 U	74.4	7.67
U4-MW-08I	4/13/2022	N	BL02	UMCf	78.0 - 88.0	<0.121	6.55	23.5	3.30 J	8.786	1.97	0.0 U	183.3	7.71
U4-MW-08I	12/7/2022	N	EM04	UMCf	78.0 - 88.0	<0.605	23.7	18.2 J	<15.1	8.950	2.32	0.0 U	137.7	7.48
U4-MW-08I	12/7/2022	FD	EM04	UMCf	78.0 - 88.0	<0.605	23.2	18.3 J	<15.1	----	----	----	----	----
U4-MW-08I	3/17/2023	N	EM07	UMCf	78.0 - 88.0	<0.605	41.3	11.9 J	<15.1	7.198	2.29	0.0 U	157.8	6.95
U4-MW-08I	6/13/2023	N	EM10	UMCf	78.0 - 88.0	1.43 J	75.9	16.6 J	<30.2	8.097	1.90	0.0 U	13.5	7.06
U4-MW-08I	9/13/2023	N	EM13	UMCf	78.0 - 88.0	<0.605	109	10.5 J	<15.1	22.556	-1.3	0 U	216.1	6.72
U4-MW-08I	12/11/2023	N	EM16	UMCf	78.0 - 88.0	<1.21	151	7.13 J	343	20.541	0.37	0.0 U	146.5	6.42
U4-MW-08I	3/12/2024	N	EM19	UMCf	78.0 - 88.0	<1.21	199	6.07 J	<30.2	19.060	2.89	0.0 U	150.8	6.50
U4-MW-08I	6/14/2024	N	EM20	UMCf	78.0 - 88.0	<1.21	166 J+	<4.99	<30.2	39.350	0.43	0.0 U	195.0	6.49
U4-MW-08S	4/15/2022	N	BL02	UMCf	54.9 - 64.9	<0.121	0.591 J	47.5	<3.02	3.391	3.42	0.0 U	79.6	9.96
U4-MW-08S	12/7/2022	N	EM04	UMCf	54.9 - 64.9	<0.121	13.4	49.2	<3.02	2.838	2.17	0.0 U	40.0	8.08
U4-MW-08S	12/7/2022	FD	EM04	UMCf	54.9 - 64.9	<0.121	13.2	48.5	4.34 J	----	----	----	----	----
U4-MW-08S	3/13/2023	N	EM07	UMCf	54.9 - 64.9	<0.121	11.8	5.34 J	<3.02	0.027	7.40	0.0 U	-138.1	7.85
U4-MW-08S	3/13/2023	FD	EM07	UMCf	54.9 - 64.9	<0.121	13.7	5.55 J	<3.02	----	----	----	----	----

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	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
						Thallium	Uranium	Vanadium	Zinc	Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH
						µg/L	µg/L	µg/L	µg/L	mS/cm	mg/L	mg/L	mV	SU
U4-MW-08S	6/13/2023	N	EM10	UMCf	54.9 - 64.9	<0.121	18.7	8.86 J	<3.02	2.956	0.72	0.0 U	-258.8	7.13
U4-MW-08S	6/13/2023	FD	EM10	UMCf	54.9 - 64.9	<0.121	18.0	9.37 J	<3.02	----	----	----	----	----
U4-MW-08S	9/13/2023	N	EM13	UMCf	54.9 - 64.9	<0.121	8.27	22.2	9.25 J	4.902	-1.41	0 U	-184.8	6.65
U4-MW-08S	9/13/2023	FD	EM13	UMCf	54.9 - 64.9	<1.21	8.89 J	22.4	<30.2	----	----	----	----	----
U4-MW-08S	12/14/2023	N	EM16	UMCf	54.9 - 64.9	<0.121	9.03	66.6	4.48 J	5.477	-0.18	5.5	-203.2	6.34
U4-MW-08S	12/14/2023	FD	EM16	UMCf	54.9 - 64.9	<0.121	8.53	66.6	4.80 J	----	----	----	----	----
U4-MW-08S	3/14/2024	N	EM19	UMCf	54.9 - 64.9	<0.121	23.8	13.2 J	<3.02	3.231	0.99	0.0 U	-175.8	6.77
U4-MW-08S	3/14/2024	FD	EM19	UMCf	54.9 - 64.9	<0.121	23.9	14.6 J	<3.02	----	----	----	----	----
U4-MW-08S	3/25/2024	N	EM19	UMCf	54.9 - 64.9	<0.121	50.0	23.0	8.44 J	4.249	0.15	0.0 U	-78.8	6.40
U4-MW-08S	3/25/2024	FD	EM19	UMCf	54.9 - 64.9	<0.121	49.3	18.6 J	6.90 J	----	----	----	----	----
U4-MW-08S	6/14/2024	N	EM20	UMCf	54.9 - 64.9	<0.121	3.24 J+	14.8 J	3.73 J	8.528	0.08	1.0	-154.2	6.88
U4-MW-08S	6/14/2024	FD	EM20	UMCf	54.9 - 64.9	<0.121	3.20 J+	14.8 J	4.88 J	----	----	----	----	----
U4-MW-09D	4/14/2022	N	BL02	UMCf	96.9 - 106.9	<1.21	10.2	<4.99	165 J	25.834	1.79	0.0 U	36.4	7.03
U4-MW-09D	12/6/2022	N	EM04	UMCf	96.9 - 106.9	<0.121 UJ	9.26	23.1	<3.02 UJ	3.375	6.84	0.0 U	104.4	7.69
U4-MW-09D	3/16/2023	N	EM07	UMCf	96.9 - 106.9	<0.121	48.7	8.91 J	<3.02	4.632	1.55	0.0 U	-81.6	6.58
U4-MW-09D	6/14/2023	N	EM10	UMCf	96.9 - 106.9	0.147 J	62.1	8.47 J	<3.02	5.788	1.36	0.0 U	2.5	6.50
U4-MW-09D	9/12/2023	N	EM13	UMCf	96.9 - 106.9	0.195 J	86.5	<4.99	14.3 J	7.12	1.59	0 U	-170.2	6.4
U4-MW-09D	12/15/2023	N	EM16	UMCf	96.9 - 106.9	0.485 J	173	<4.99	11.6 J	8.668	1.12	0.0 U	-0.3	5.88
U4-MW-09D	3/13/2024	N	EM19	UMCf	96.9 - 106.9	<0.605	163	7.77 J	<15.1	10.857	0.99	0.0 U	162.1	6.12
U4-MW-09D	6/13/2024	N	EM20	UMCf	96.9 - 106.9	0.524 J	194	12.4 J	5.19 J	22.631	0.10	0.0 U	58.6	6.02
U4-MW-09DD	4/14/2022	N	BL02	UMCf	119.8 - 129.8	<0.121	2.98	9.16 J	3.03 J	1.339	1.49	0.0 U	144.1	7.81
U4-MW-09DD	12/6/2022	N	EM04	UMCf	119.8 - 129.8	<0.121 UJ	3.11	10.6	<3.02 UJ	1.036	1.23	0.0 U	63.9	7.85
U4-MW-09DD	3/21/2023	N	EM07	UMCf	119.8 - 129.8	<0.121	2.36	9.68 J	<3.02	1.698	4.64	0.0 U	146.4	7.90
U4-MW-09DD	6/15/2023	N	EM10	UMCf	119.8 - 129.8	<0.121	2.86	8.61 J	<3.02	1.722	3.91	0.0 U	-41.8	8.18
U4-MW-09DD	9/13/2023	N	EM13	UMCf	119.8 - 129.8	<0.121	7.89	<4.99	4.42 J	5.041	-1.2	0 U	160	6.36
U4-MW-09DD	12/13/2023	N	EM16	UMCf	119.8 - 129.8	0.331 J	5.08	<4.99	3.24 J	2.495	1.35	0.0 U	11.8	6.36
U4-MW-09DD	3/14/2024	N	EM19	UMCf	119.8 - 129.8	<0.121	8.21	<4.99	8.68 J	3.874	-0.02	1.2	201.1	6.32
U4-MW-09DD	6/13/2024	N	EM20	UMCf	119.8 - 129.8	<0.121	5.59	7.20 J	5.47 J	6.895	0.09	1.5	-105.1	6.25
U4-MW-09I	4/14/2022	N	BL02	UMCf	76.8 - 86.8	<0.121	5.48	19.1 J	<3.02	3.354	10.37	0.0 U	8.8	7.57
U4-MW-09I	12/6/2022	N	EM04	UMCf	76.8 - 86.8	<0.605 UJ	10.8	10.7 J	<15.1 UJ	4.939	5.28	0.0 U	124.5	7.49
U4-MW-09I	3/16/2023	N	EM07	UMCf	76.8 - 86.8	<0.121	60.5	9.36 J	<3.02	16.829	0.37	0.7	-149.7	6.48
U4-MW-09I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<0.121	83.1	12.0 J	<3.02	6.158	1.16	0.0 U	112.1	6.32
U4-MW-09I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	0.188 J	86.2	<4.99	14.9 J	7.94	0.34	0 U	-130.8	6.44
U4-MW-09I	12/15/2023	N	EM16	UMCf	76.8 - 86.8	0.261 J	165	<4.99	71.7 J+	9.014	1.21	0.0 U	88.0	5.97
U4-MW-09I	3/13/2024	N	EM19	UMCf	76.8 - 86.8	<0.605	189	7.60 J	<15.1	10.546	4.20	0.0 U	173.0	6.33
U4-MW-09I	6/13/2024	N	EM20	UMCf	76.8 - 86.8	0.322 J	192	16.2 J	<3.02	22.580	6.90	0.0 U	164.9	6.63
U4-MW-09S	4/14/2022	N	BL02	UMCf	55.3 - 65.3	<0.121	6.57	36.3	<3.02	2.893	4.00	0.0 U	179.7	8.27
U4-MW-09S	12/6/2022	N	EM04	UMCf	55.3 - 65.3	<0.121 UJ	4.45	67.2	<3.02 UJ	3.158	5.76	0.0 U	73.5	8.69
U4-MW-09S	3/17/2023	N	EM07	UMCf	55.3 - 65.3	<0.121	9.84	61.6	8.34 J	3.822	1.29	0.0 U	97.1	8.96
U4-MW-09S	6/15/2023	N	EM10	UMCf	55.3 - 65.3	1.23 J	81.8	48.1	9.78 J	4.352	0.69	0.0 U	-300.0	7.24
U4-MW-09S	9/13/2023	N	EM13	UMCf	55.3 - 65.3	<1.21	10.1	34.9	<30.2	8.97	-1.46	0.5	-170.8	6.79
U4-MW-09S	12/12/2023	N	EM16	UMCf	55.3 - 65.3	<0.605	137	85.0	<15.1	9.939	0.04	1.5	-130.4	6.04
U4-MW-09S	3/13/2024	N	EM19	UMCf	55.3 - 65.3	<0.605	17.0	40.2	<15.1	7.231	0.11	0.0 U	-236.7	6.87

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	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
						Thallium	Uranium	Vanadium	Zinc	Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH
						µg/L	µg/L	µg/L	µg/L	mS/cm	mg/L	mg/L	mV	SU
U4-MW-09S	6/13/2024	N	EM20	UMCf	55.3 - 65.3	<0.121	11.5	31.7	<3.02	15.504	2.39	1.0	-68.9	6.99
U4-MW-10D	4/14/2022	N	BL02	UMCf	96.9 - 106.9	<0.121	9.13	8.78 J	3.53 J	5.411	0.91	0.0 U	206.3	7.33
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
U4-MW-10D	3/17/2023	N	EM07	UMCf	96.9 - 106.9	<0.121	95.1	<4.99	7.73 J	542.825	0.85	0.5	-107.9	6.38
U4-MW-10D	6/14/2023	N	EM10	UMCf	96.9 - 106.9	<0.121	25.4	<4.99	<3.02	3.761	0.26	1.0	-202.3	6.59
U4-MW-10D	9/13/2023	N	EM13	UMCf	96.9 - 106.9	0.332 J	130	5.23 J	3.27 J	3.965	1	3	-29.7	6.66
U4-MW-10D	12/14/2023	N	EM16	UMCf	96.9 - 106.9	<0.121	66.0	14.2 J	<3.02	2.943	0.28	0.0 U	83.2	6.67
U4-MW-10D	3/14/2024	N	EM19	UMCf	96.9 - 106.9	0.147 J	48.4	20.7	<3.02	2.389	0.98	0.0 U	70.3	6.67
U4-MW-10D	6/11/2024	N	EM20	UMCf	96.9 - 106.9	0.135 J	56.3	22.5	<3.02	3.124	0.57	0.5	-56.8	6.78
U4-MW-10I	4/14/2022	N	BL02	UMCf	77.1 - 87.1	0.490 J	6.45	9.70 J	4.88 J	7.650	0.90	0.0 U	183.9	7.68
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
U4-MW-10I	3/17/2023	N	EM07	UMCf	77.1 - 87.1	<0.121	0.368 J	10.7 J	10.4 J	735.012	3.48	0.0 U	25.5	6.62
U4-MW-10I	6/14/2023	N	EM10	UMCf	77.1 - 87.1	<0.121	5.72	23.8	<3.02	3.790	0.34	3.0	-173.2	6.54
U4-MW-10I	9/13/2023	N	EM13	UMCf	77.1 - 87.1	<0.121	42.9	17.0 J	4.53 J	4.813	0.57	6	-70.6	6.46
U4-MW-10I	12/14/2023	N	EM16	UMCf	77.1 - 87.1	4.16 J	46.1	19.1 J	<15.1	10.020	8.38	0.0 U	165.5	7.20
U4-MW-10I	3/13/2024	N	EM19	UMCf	77.1 - 87.1	<0.605	38.5	22.7	<15.1	13.707	0.46	0.0 U	185.5	6.75
U4-MW-10I	6/11/2024	N	EM20	UMCf	77.1 - 87.1	<0.121	18.4	23.6	28.0	5.961	0.89	0.5	32.7	7.00
U4-MW-11D	4/15/2022	N	BL02	UMCf	97.4 - 107.4	<1.21	5.93 J	<25.0	<30.2	31.458	0.75	0.0 U	194.9	7.12
U4-MW-11D	9/26/2022	N	EM01	UMCf	97.4 - 107.4	----	----	----	----	49.507	1.26	0.0 U	49.2	7.38
U4-MW-11D	10/11/2022	N	EM02	UMCf	97.4 - 107.4	----	----	----	----	49.047	1.30	0.0 U	5.2	7.07
U4-MW-11D	11/1/2022	N	EM03	UMCf	97.4 - 107.4	----	----	----	----	25.648	1.17	0.0 U	-20.2	7.07
U4-MW-11D	12/6/2022	N	EM04	UMCf	97.4 - 107.4	<12.1 UJ	32.5 J	<66.4 UJ	<302 UJ	5.464	1.37	0.0 U	156.0	6.76
U4-MW-11D	1/12/2023	N	EM05	UMCf	97.4 - 107.4	----	----	----	----	25.673	0.68	0.0 U	87.9	6.46
U4-MW-11D	2/14/2023	N	EM06	UMCf	97.4 - 107.4	----	----	----	----	20.311	1.11	0.0 U	120.7	6.27
U4-MW-11D	3/16/2023	N	EM07	UMCf	97.4 - 107.4	<0.605	40.9	<4.99	<15.1	24.191	1.15	0.0 U	46.8	6.50
U4-MW-11D	4/18/2023	N	EM08	UMCf	97.4 - 107.4	----	----	----	----	18.366	0.11	0.0 U	42.3	6.36
U4-MW-11D	5/17/2023	N	EM09	UMCf	97.4 - 107.4	----	----	----	----	26.832	1.06	0.0 U	155.6	5.79
U4-MW-11D	6/16/2023	N	EM10	UMCf	97.4 - 107.4	0.739 J	37.0	<49.9	29.6 J	13.654	1.92	0.0 U	54.6	6.71
U4-MW-11D	7/14/2023	N	EM11	UMCf	97.4 - 107.4	----	----	----	----	19.620	0.72	0.0 U	254.6	6.88
U4-MW-11D	8/14/2023	N	EM12	UMCf	97.4 - 107.4	----	----	----	----	24.679	0.37	0 U	-278.7	6.41
U4-MW-11D	9/13/2023	N	EM13	UMCf	97.4 - 107.4	0.844 J	70.5	<4.99	21.4 J	22.158	1.2	0 U	-2.9	6.49
U4-MW-11D	10/18/2023	N	EM14	UMCf	97.4 - 107.4	----	----	----	----	26.749	0.26	0 U	76.7	6.22
U4-MW-11D	11/16/2023	N	EM15	UMCf	97.4 - 107.4	----	----	----	----	21.842	0.96	0 U	-59.7	6.26
U4-MW-11D	12/13/2023	N	EM16	UMCf	97.4 - 107.4	<2.42	112	<4.99	<60.4	20.757	1.25	0.0 U	-39.3	6.07
U4-MW-11D	1/25/2024	N	EM17	UMCf	97.4 - 107.4	----	----	----	----	21.175	0.60	0.0 U	169.3	6.10
U4-MW-11D	2/14/2024	N	EM18	UMCf	97.4 - 107.4	----	----	----	----	21.735	0.61	0.0 U	184.8	6.19
U4-MW-11D	3/12/2024	N	EM19	UMCf	97.4 - 107.4	1.39 J	113	5.21 J	<30.2	17.774	-1.74	0.0 U	105.7	6.41
U4-MW-11D	6/12/2024	N	EM20	UMCf	97.4 - 107.4	<1.21	85.5	<4.99	59.2 J	29.049	1.08	0.0 U	141.5	6.37
U4-MW-11I	4/14/2022	N	BL02	UMCf	77.0 - 87.0	<0.121	3.18	14.2 J	<3.02	7.803	1.01	0.0 U	123.8	7.72
U4-MW-11I	9/26/2022	N	EM01	UMCf	77.0 - 87.0	----	----	----	----	5.582	10.67	0.0 U	-17.7	6.92
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
U4-MW-11I	10/10/2022	FD	EM02	UMCf	77.0 - 87.0	----	----	----	----	----	----	----	----	----

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	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
						Thallium	Uranium	Vanadium	Zinc	Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH
						µg/L	µg/L	µg/L	µg/L	mS/cm	mg/L	mg/L	mV	SU
U4-MW-11I	10/31/2022	N	EM03	UMCf	77.0 - 87.0	----	----	----	----	3.179	0.82	0.0 U	-266.8	6.57
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	<0.121 UJ	37.6	21.7	<3.02 UJ	3.016	2.77	0.5	-294.3	7.16
U4-MW-11I	12/6/2022	FD	EM04	UMCf	77.0 - 87.0	<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
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
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	<0.121	14.1	19.2 J	<3.02	3.476	0.45	0.0 U	-241.6	6.86
U4-MW-11I	3/16/2023	FD	EM07	UMCf	77.0 - 87.0	<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
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
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	<0.121	9.57	23.2	<3.02	3.350	1.03	1.0	-79.7	6.70
U4-MW-11I	6/15/2023	FD	EM10	UMCf	77.0 - 87.0	<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
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
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	<0.605	242	<4.99	213 J+	15.082	0.86	0 U	261.3	6.3
U4-MW-11I	9/13/2023	FD	EM13	UMCf	77.0 - 87.0	<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
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
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	<1.21	157	<4.99	<30.2	13.935	1.71	0.0 U	235.5	6.27
U4-MW-11I	12/13/2023	FD	EM16	UMCf	77.0 - 87.0	<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
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
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	<0.605	125	7.29 J	25.3 J	17.230	1.87	0.0 U	180.6	6.44
U4-MW-11I	3/13/2024	FD	EM19	UMCf	77.0 - 87.0	<0.605	122	<4.99	29.5 J	----	----	----	----	----
U4-MW-11I	6/12/2024	N	EM20	UMCf	77.0 - 87.0	<1.21	148	6.80 J	75.7 J	18.948	0.41	0.0 U	136.3	6.53
U4-MW-11I	6/12/2024	FD	EM20	UMCf	77.0 - 87.0	<1.21	157	5.55 J	45.5 J	----	----	----	----	----
U4-MW-12D	4/15/2022	N	BL02	UMCf	97.1 - 107.1	<1.21	10.8	<4.99	<30.2	32.048	0.90	0.0 U	90.8	6.98
U4-MW-12D	9/27/2022	N	EM01	UMCf	97.1 - 107.1	----	----	----	----	17.403	5.30	0.0 U	183.7	7.31
U4-MW-12D	10/12/2022	N	EM02	UMCf	97.1 - 107.1	----	----	----	----	11.998	2.16	0.0 U	193.7	7.02
U4-MW-12D	11/2/2022	N	EM03	UMCf	97.1 - 107.1	----	----	----	----	9.367	1.89	0.0 U	145.9	7.12
U4-MW-12D	12/7/2022	N	EM04	UMCf	97.1 - 107.1	<0.605	23.3	9.35 J	20.1 J	15.505	2.44	0.0 U	41.1	7.21
U4-MW-12D	1/12/2023	N	EM05	UMCf	97.1 - 107.1	----	----	----	----	9.215	1.80	0.0 U	94.5	6.98
U4-MW-12D	2/15/2023	N	EM06	UMCf	97.1 - 107.1	----	----	----	----	16.607	1.11	0.0 U	42.6	6.93

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	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
						Thallium	Uranium	Vanadium	Zinc	Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH
						µg/L	µg/L	µg/L	µg/L	mS/cm	mg/L	mg/L	mV	SU
U4-MW-12D	3/14/2023	N	EM07	UMCf	97.1 - 107.1	<0.605	13.7	8.65 J	<15.1	12.160	1.14	0.0 U	72.1	7.06
U4-MW-12D	4/17/2023	N	EM08	UMCf	97.1 - 107.1	----	----	----	----	18.271	10.22	0.0 U	73.8	7.66
U4-MW-12D	5/17/2023	N	EM09	UMCf	97.1 - 107.1	----	----	----	----	27.758	1.10	0.0 U	99.8	6.14
U4-MW-12D	6/16/2023	N	EM10	UMCf	97.1 - 107.1	<0.605	13.4	<49.9	19.1 J	14.311	0.66	0.0 U	225.8	7.11
U4-MW-12D	7/13/2023	N	EM11	UMCf	97.1 - 107.1	----	----	----	----	13.058	1.09	0.0 U	149.3	6.95
U4-MW-12D	8/14/2023	N	EM12	UMCf	97.1 - 107.1	----	----	----	----	9.089	0.87	0 U	177.1	6.74
U4-MW-12D	9/12/2023	N	EM13	UMCf	97.1 - 107.1	0.201 J	56.9	<25.0	15.4 J	9.274	0.83	0 U	257.9	6.63
U4-MW-12D	10/17/2023	N	EM14	UMCf	97.1 - 107.1	----	----	----	----	8.087	0.4	0 U	136.9	6.3
U4-MW-12D	11/15/2023	N	EM15	UMCf	97.1 - 107.1	----	----	----	----	8.470	1.02	0 U	176.8	6.45
U4-MW-12D	12/12/2023	N	EM16	UMCf	97.1 - 107.1	<0.605	115	<4.99	<15.1	7.742	1.24	0.0 U	193.8	6.14
U4-MW-12D	1/24/2024	N	EM17	UMCf	97.1 - 107.1	----	----	----	----	8.277	0.99	0.0 U	55.8	6.09
U4-MW-12D	2/13/2024	N	EM18	UMCf	97.1 - 107.1	----	----	----	----	6.756	0.56	0.0 U	162.4	6.08
U4-MW-12D	3/12/2024	N	EM19	UMCf	97.1 - 107.1	<0.605	135	6.73 J	<15.1	9.274	1.41	0.0 U	158.8	6.19
U4-MW-12D	6/12/2024	N	EM20	UMCf	97.1 - 107.1	<0.605	114	<4.99	37.1 J	15.774	0.40	0.0 U	123.2	6.35
U4-MW-12I	4/14/2022	N	BL02	UMCf	76.8 - 86.8	2.39	9.47	9.09 J	<3.02	11.234	1.32	----	35.2	7.74
U4-MW-12I	4/14/2022	FD	BL02	UMCf	76.8 - 86.8	<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
U4-MW-12I	10/12/2022	N	EM02	UMCf	76.8 - 86.8	----	----	----	----	2.587	1.25	0.0 U	190.1	7.30
U4-MW-12I	11/2/2022	N	EM03	UMCf	76.8 - 86.8	----	----	----	----	1.684	1.15	0.0 U	95.4	7.23
U4-MW-12I	12/7/2022	N	EM04	UMCf	76.8 - 86.8	<0.121	41.0	6.05	<3.02	2.533	1.36	0.0 U	-290.6	7.38
U4-MW-12I	12/7/2022	FD	EM04	UMCf	76.8 - 86.8	<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
U4-MW-12I	3/13/2023	N	EM07	UMCf	76.8 - 86.8	<0.121	15.5	13.0 J	<15.1	2.868	0.28	0.5	-279.2	6.90
U4-MW-12I	4/17/2023	N	EM08	UMCf	76.8 - 86.8	----	----	----	----	3.160	0.35	0.0 U	-233.8	7.15
U4-MW-12I	5/17/2023	N	EM09	UMCf	76.8 - 86.8	----	----	----	----	5.078	0.72	0.5	-107.3	6.19
U4-MW-12I	6/16/2023	N	EM10	UMCf	76.8 - 86.8	0.831 J	12.9	19.9 J	4.77 J	3.243	0.35	0.0 U	-162.1	7.01
U4-MW-12I	7/11/2023	N	EM11	UMCf	76.8 - 86.8	----	----	----	----	3.411	2.36	0.0 U	-71.0	7.01
U4-MW-12I	8/14/2023	N	EM12	UMCf	76.8 - 86.8	----	----	----	----	8.021	1.05	0 U	9.8	6.17
U4-MW-12I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	<0.121	257	<4.99	15.9 J	5.619	0.68	0 U	-81.5	6.69
U4-MW-12I	10/17/2023	N	EM14	UMCf	76.8 - 86.8	----	----	----	----	3.377	0.09	3.5	-185.5	6.79
U4-MW-12I	11/16/2023	N	EM15	UMCf	76.8 - 86.8	----	----	----	----	6.389	0.90	0.5	-90.0	6.46
U4-MW-12I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	<0.605	143	<4.99	<15.1	7.120	1.11	0.0 U	309.8	6.20
U4-MW-12I	1/24/2024	N	EM17	UMCf	76.8 - 86.8	----	----	----	----	7.613	0.54	0.0 U	50.7	6.24
U4-MW-12I	2/13/2024	N	EM18	UMCf	76.8 - 86.8	----	----	----	----	6.857	0.82	0.0 U	165.5	6.26
U4-MW-12I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	0.195 J	168	10.3 J	11.1 J	9.139	1.13	0.0 U	148.1	6.39
U4-MW-12I	6/13/2024	N	EM20	UMCf	76.8 - 86.8	0.263 J	112	9.71 J	<15.1	12.985	0.35	0.0 U	141.9	6.46
U4-MW-13D	4/14/2022	N	BL02	UMCf	98.2 - 108.2	<1.21	10.8	<25.0	<30.2	32.518	0.90	0.0 U	136.1	6.94
U4-MW-13D	9/28/2022	N	EM01	UMCf	98.2 - 108.2	----	----	----	----	11.793	0.96	0.0 U	-329.7	6.65
U4-MW-13D	10/11/2022	N	EM02	UMCf	98.2 - 108.2	----	----	----	----	11.124	1.77	0.0 U	-147.3	6.57
U4-MW-13D	11/3/2022	N	EM03	UMCf	98.2 - 108.2	----	----	----	----	5.404	1.67	0.0 U	26.5	6.45
U4-MW-13D	12/7/2022	N	EM04	UMCf	98.2 - 108.2	<0.605	34.4	4.77 J	<15.1	7.937	2.99	0.0 U	122.7	6.70
U4-MW-13D	1/12/2023	N	EM05	UMCf	98.2 - 108.2	----	----	----	----	4.505	1.39	0.0 U	60.0	6.88

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	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
						Thallium	Uranium	Vanadium	Zinc	Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH
						µg/L	µg/L	µg/L	µg/L	mS/cm	mg/L	mg/L	mV	SU
U4-MW-13D	2/15/2023	N	EM06	UMCf	98.2 - 108.2	----	----	----	----	8.150	1.44	0.0 U	65.4	6.90
U4-MW-13D	3/17/2023	N	EM07	UMCf	98.2 - 108.2	0.310 J	13.2	6.57 J	13.0 J	5.920	2.07	0.0 U	172.0	7.19
U4-MW-13D	4/18/2023	N	EM08	UMCf	98.2 - 108.2	----	----	----	----	4.930	0.14	0.0 U	74.2	7.35
U4-MW-13D	5/17/2023	N	EM09	UMCf	98.2 - 108.2	----	----	----	----	7.513	1.34	0.0 U	115.2	6.74
U4-MW-13D	6/15/2023	N	EM10	UMCf	98.2 - 108.2	0.240 J	35.0	<4.99	<3.02	6.112	0.61	0.0 U	101.0	7.03
U4-MW-13D	7/12/2023	N	EM11	UMCf	98.2 - 108.2	----	----	----	----	6.603	0.50	0.0 U	154.1	6.92
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	0.342 J	30.2	5.22 J	6.85 J	7.059	1.65	0 U	255.6	6.9
U4-MW-13D	10/18/2023	N	EM14	UMCf	98.2 - 108.2	----	----	----	----	9.096	0.63	0 U	129.4	6.72
U4-MW-13D	11/15/2023	N	EM15	UMCf	98.2 - 108.2	----	----	----	----	8.038	1.57	0 U	260.8	6.86
U4-MW-13D	12/11/2023	N	EM16	UMCf	98.2 - 108.2	<0.605	28.0	<4.99	<15.1	8.078	1.65	0.0 U	229.3	6.83
U4-MW-13D	1/23/2024	N	EM17	UMCf	98.2 - 108.2	----	----	----	----	8.075	1.21	0.0 U	159.0	6.83
U4-MW-13D	2/12/2024	N	EM18	UMCf	98.2 - 108.2	----	----	----	----	6.175	2.73	0.0 U	214.6	6.94
U4-MW-13D	3/11/2024	N	EM19	UMCf	98.2 - 108.2	<0.605	40.3	8.22 J	39.6 J	8.838	0.30	0.0 U	182.8	7.01
U4-MW-13D	6/13/2024	N	EM20	UMCf	98.2 - 108.2	0.411 J	20.9	<4.99	<3.02	13.199	1.04	0.0 U	109.7	6.82
U4-MW-13I	4/14/2022	N	BL02	UMCf	77.1 - 87.1	<0.121	7.29	9.14 J	<3.02	11.607	2.38	0.0 U	127.9	7.42
U4-MW-13I	9/28/2022	N	EM01	UMCf	77.1 - 87.1	----	----	----	----	5.667	2.79	0.0 U	96.9	7.52
U4-MW-13I	10/10/2022	N	EM02	UMCf	77.1 - 87.1	----	----	----	----	6.053	1.93	0.0 U	110.0	7.58
U4-MW-13I	11/3/2022	N	EM03	UMCf	77.1 - 87.1	----	----	----	----	2.675	2.64	0.0 U	141.8	7.46
U4-MW-13I	12/6/2022	N	EM04	UMCf	77.1 - 87.1	<0.121 UJ	38.3	7.72	<3.02 UJ	3.613	1.73	0.0 U	-292.7	7.58
U4-MW-13I	1/12/2023	N	EM05	UMCf	77.1 - 87.1	----	----	----	----	2.079	1.19	0.0 U	-245.9	7.13
U4-MW-13I	2/14/2023	N	EM06	UMCf	77.1 - 87.1	----	----	----	----	3.065	0.61	0.0 U	-309.2	7.19
U4-MW-13I	3/16/2023	N	EM07	UMCf	77.1 - 87.1	<0.121	19.8	<4.99	<3.02	1.654	0.98	0.0 U	-313.7	7.44
U4-MW-13I	4/19/2023	N	EM08	UMCf	77.1 - 87.1	----	----	----	----	2.452	0.02	0.0 U	-303.7	7.07
U4-MW-13I	5/17/2023	N	EM09	UMCf	77.1 - 87.1	----	----	----	----	4.125	0.52	0.0 U	-123.7	6.73
U4-MW-13I	6/15/2023	N	EM10	UMCf	77.1 - 87.1	<0.121	27.5	12.0 J	<3.02	3.300	0.32	0.0 U	-73.9	7.04
U4-MW-13I	7/12/2023	N	EM11	UMCf	77.1 - 87.1	----	----	----	----	3.564	2.68	0.2	135.1	7.11
U4-MW-13I	8/11/2023	N	EM12	UMCf	77.1 - 87.1	----	----	----	----	14.898	0.97	0 U	309.3	6.8
U4-MW-13I	9/11/2023	N	EM13	UMCf	77.1 - 87.1	<0.121	30.7	<4.99	9.22 J	8.29	1.69	0 U	227	7
U4-MW-13I	10/17/2023	N	EM14	UMCf	77.1 - 87.1	----	----	----	----	8.605	0.64	0 U	91	6.92
U4-MW-13I	11/15/2023	N	EM15	UMCf	77.1 - 87.1	----	----	----	----	9.056	1.19	0 U	262.2	7.07
U4-MW-13I	12/11/2023	N	EM16	UMCf	77.1 - 87.1	<0.605	30.8	<4.99	<15.1	8.638	1.59	0.0 U	269.2	6.93
U4-MW-13I	1/23/2024	N	EM17	UMCf	77.1 - 87.1	----	----	----	----	9.544	1.63	0.0 U	165.9	6.95
U4-MW-13I	2/12/2024	N	EM18	UMCf	77.1 - 87.1	----	----	----	----	9.005	1.01	0.0 U	227.6	7.07
U4-MW-13I	3/11/2024	N	EM19	UMCf	77.1 - 87.1	<0.605	40.0	9.30 J	35.2 J	11.292	1.54	0.0 U	170.2	7.19
U4-MW-13I	6/13/2024	N	EM20	UMCf	77.1 - 87.1	0.193 J	30.9	7.86 J	7.60 J	14.120	0.49	0.0 U	96.5	6.82
U4-MW-14D	4/13/2022	N	BL02	UMCf	97.3 - 107.3	<0.121	18.5	22.2	<3.02	5.770	0.87	0.0 U	161.5	7.20
U4-MW-14D	12/6/2022	N	EM04	UMCf	97.3 - 107.3	0.156 J	8.22	14.1	<3.02 UJ	4.415	2.55	0.0 U	75.3	7.39
U4-MW-14D	3/16/2023	N	EM07	UMCf	97.3 - 107.3	<0.121	8.52	9.49 J	6.57 J	181.910	1.08	0.0 U	143.2	7.47
U4-MW-14D	6/15/2023	N	EM10	UMCf	97.3 - 107.3	<0.121	23.0	<4.99	<3.02	4.035	0.82	0.0 U	119.7	7.08
U4-MW-14D	9/14/2023	N	EM13	UMCf	97.3 - 107.3	<0.121	47.7	9.33 J	5.36 J	3.694	1.94	0 U	273.2	6.53
U4-MW-14D	12/15/2023	N	EM16	UMCf	97.3 - 107.3	0.123 J	58.0	<4.99	17.3 J	3.257	2.42	0.0 U	201.8	6.52
U4-MW-14D	3/13/2024	N	EM19	UMCf	97.3 - 107.3	0.128 J	34.2	8.12 J	10.1 J	4.998	3.12	0.0 U	393.4	6.17

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	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
						Thallium	Uranium	Vanadium	Zinc	Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH
						µg/L	µg/L	µg/L	µg/L	mS/cm	mg/L	mg/L	mV	SU
U4-MW-14D	6/13/2024	N	EM20	UMCf	97.3 - 107.3	<0.121	22.3	8.94 J	<3.02	3.997	1.04	0.0 U	104.1	6.55
U4-MW-14I	4/14/2022	N	BL02	UMCf	77.3 - 87.3	<0.121	4.68	13.3 J	<3.02	5.720	0.77	0.0 U	110.5	8.07
U4-MW-14I	12/6/2022	N	EM04	UMCf	77.3 - 87.3	0.243 J	15.3	14.3	<3.02 UJ	4.279	2.18	0.0 U	63.8	7.41
U4-MW-14I	3/16/2023	N	EM07	UMCf	77.3 - 87.3	<0.121	11.3	13.6 J	<3.02	213.617	0.55	0.0 U	166.5	7.45
U4-MW-14I	6/15/2023	N	EM10	UMCf	77.3 - 87.3	<0.121	36.8	12.4 J	<3.02	4.589	0.61	0.0 U	174.8	7.01
U4-MW-14I	9/14/2023	N	EM13	UMCf	77.3 - 87.3	<0.121	55.6	10.2 J	8.92 J	4.131	0.73	0 U	238.2	6.83
U4-MW-14I	12/14/2023	N	EM16	UMCf	77.3 - 87.3	<0.121	89.2	<4.99	<3.02	4.580	0.14	0.0 U	96.4	6.51
U4-MW-14I	3/13/2024	N	EM19	UMCf	77.3 - 87.3	0.180 J	72.0	<4.99	<3.02	5.115	3.13	0.0 U	360.6	6.37
U4-MW-14I	6/14/2024	N	EM20	UMCf	77.3 - 87.3	<0.121	73.6 J+	7.16 J	<3.02	4.920	0.95	0.0 U	151.6	6.66
U4-MW-15D	4/13/2022	N	BL02	UMCf	96.0 - 106.0	0.186 J	13.6	8.06 J	<3.02	5.015	1.02	0.0 U	209.2	7.09
U4-MW-15D	12/5/2022	N	EM04	UMCf	96.0 - 106.0	<0.121	11.6	7.40 J	<3.02	2.298	15.40	0.0 U	168.4	7.52
U4-MW-15D	3/20/2023	N	EM07	UMCf	96.0 - 106.0	<0.121	6.45	8.42 J	<3.02	2.799	0.93	0.0 U	127.9	7.39
U4-MW-15D	6/14/2023	N	EM10	UMCf	96.0 - 106.0	<0.121	10.1	11.3 J	<3.02	5.069	0.61	0.0 U	36.2	7.16
U4-MW-15D	9/13/2023	N	EM13	UMCf	96.0 - 106.0	<0.121	6.81	9.95 J	3.80 J	3.276	1.03	0 U	31.4	7.55
U4-MW-15D	12/12/2023	N	EM16	UMCf	96.0 - 106.0	<0.121	25.3	7.10 J	<3.02	3.211	1.20	0.0 U	366.3	6.63
U4-MW-15D	3/12/2024	N	EM19	UMCf	96.0 - 106.0	0.143 J	58.4	<4.99	<3.02	3.458	0.73	0.0 U	189.4	6.45
U4-MW-15D	6/14/2024	N	EM20	UMCf	96.0 - 106.0	<1.21	112 J+	<4.99	<30.2	3.500	0.90	0.0 U	54.7	6.76
U4-MW-15DD	4/13/2022	N	BL02	UMCf	120.3 - 130.3	<0.121	4.23	17.9 J	<3.02	0.999	2.14	0.0 U	123.8	8.36
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
U4-MW-15DD	3/15/2023	N	EM07	UMCf	120.3 - 130.3	<0.121	3.10	11.8 J	<3.02	0.888	1.96	0.0 U	104.0	9.13
U4-MW-15DD	6/13/2023	N	EM10	UMCf	120.3 - 130.3	<0.121	2.81	6.34 J	<3.02	1.027	0.94	0.0 U	20.5	8.36
U4-MW-15DD	9/14/2023	N	EM13	UMCf	120.3 - 130.3	<0.121	3.64	13.1 J	<3.02	0.905	2.24	0 U	-32	8.48
U4-MW-15DD	12/13/2023	N	EM16	UMCf	120.3 - 130.3	<0.121	3.84	15.5 J	<3.02	0.827	3.34	0.0 U	125.3	8.67
U4-MW-15DD	3/12/2024	N	EM19	UMCf	120.3 - 130.3	<0.121	3.50	9.51 J	<3.02	0.866	1.80	0.0 U	119.7	8.59
U4-MW-15DD	6/14/2024	N	EM20	UMCf	120.3 - 130.3	<0.121	2.90 J+	10.6 J	<3.02	1.108	1.55	0.0 U	25.2	8.02
U4-MW-15I	4/12/2022	N	BL02	UMCf	76.8 - 86.8	<0.121	6.59	18.7 J	<3.02	5.348	1.45	0.0 U	125.1	7.95
U4-MW-15I	12/5/2022	N	EM04	UMCf	76.8 - 86.8	0.663 J	52.3	14.2 J	<3.02	2.972	1.05	0.0 U	161.9	6.87
U4-MW-15I	3/17/2023	N	EM07	UMCf	76.8 - 86.8	<0.121	69.9	65.7	6.91 J	473.418	0.66	0.4	-173.7	6.17
U4-MW-15I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<0.121	5.30	31.2	5.29 J	3.653	0.38	5.5	-124.6	6.30
U4-MW-15I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	<0.121	95.8	13.3 J	16.5 J	6.172	1.16	0 U	7	6.57
U4-MW-15I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	<0.605	49.9	29.0	<15.1	5.160	3.57	0.5	76.2	6.88
U4-MW-15I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	<0.605	83.2	35.7	<15.1	8.283	10.56	0.0 U	173.2	7.16
U4-MW-15I	6/17/2024	N	EM20	UMCf	76.8 - 86.8	<0.605	88.3	41.7	<15.1	10.713	9.05	0.0 U	130.2	7.27
U4-MW-15S	4/13/2022	N	BL02	UMCf	54.8 - 64.8	<0.121	4.94	23.5	<3.02	2.466	5.73	0.0 U	165.2	8.11
U4-MW-15S	12/5/2022	N	EM04	UMCf	54.8 - 64.8	<0.121	6.64	21.0	<3.02	1.328	0.91	0.0 U	-309.1	5.99
U4-MW-15S	3/13/2023	N	EM07	UMCf	54.8 - 64.8	<0.121	1.92	14.4 J	<15.1	1.687	1.02	0.0 U	-307.8	7.07
U4-MW-15S	6/13/2023	N	EM10	UMCf	54.8 - 64.8	0.259 J	2.57	8.42 J	<3.02	2.659	0.19	0.0 U	-211.4	6.94
U4-MW-15S	9/14/2023	N	EM13	UMCf	54.8 - 64.8	<0.121	3.32	13.9 J	8.39 J	2.629	0.25	0 U	-165.9	6.53
U4-MW-15S	12/11/2023	N	EM16	UMCf	54.8 - 64.8	<0.121	10.9	5.22 J	<3.02	3.228	-0.25	0.0 U	-110.5	6.58
U4-MW-15S	3/12/2024	N	EM19	UMCf	54.8 - 64.8	<0.121	7.22	<4.99	<3.02	3.022	1.60	0.0 U	-148.8	6.62
U4-MW-15S	3/26/2024	N	EM19	UMCf	54.8 - 64.8	<0.121	3.40	8.51 J	<3.02	3.428	0.12	0.0 U	-134.0	6.59
U4-MW-15S	6/14/2024	N	EM20	UMCf	54.8 - 64.8	<0.121	4.54 J+	<4.99	<3.02	3.065	0.15	0.0 U	-133.0	6.71
U4-MW-16D	4/11/2022	N	BL02	UMCf	96.8 - 106.8	<1.21	6.64 J	<4.99	44.4 J	27.119	4.03	0.0 U	165.2	7.15

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	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
						Thallium	Uranium	Vanadium	Zinc	Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH
						µg/L	µg/L	µg/L	µg/L	mS/cm	mg/L	mg/L	mV	SU
U4-MW-16D	12/5/2022	N	EM04	UMCf	96.8 - 106.8	<0.121	5.45	<4.99	<3.02	14.259	2.61	0.0 U	63.9	7.13
U4-MW-16D	3/14/2023	N	EM07	UMCf	96.8 - 106.8	<0.605	18.7	6.38 J	<15.1	9.893	2.42	0.0 U	134.5	6.47
U4-MW-16D	6/13/2023	N	EM10	UMCf	96.8 - 106.8	<1.21	35.6	5.43 J	<30.2	23.075	1.17	0.0 U	212.9	6.65
U4-MW-16D	9/15/2023	N	EM13	UMCf	96.8 - 106.8	<0.605	24.8	7.10 J	<15.1	18.739	-7.04	0 U	367.1	6.59
U4-MW-16D	12/14/2023	N	EM16	UMCf	96.8 - 106.8	<1.21	3.83 J	<4.99	<30.2	11.484	1.99	0.0 U	165.4	7.16
U4-MW-16D	3/14/2024	N	EM19	UMCf	96.8 - 106.8	<0.605	6.30	<4.99	<15.1	10.706	7.51	0.0 U	408.4	7.40
U4-MW-16D	6/17/2024	N	EM20	UMCf	96.8 - 106.8	<0.605	3.86 J	6.73 J	<15.1	16.373	1.29	0.0 U	61.9	7.26
U4-MW-16DD	4/12/2022	N	BL02	UMCf	120.8 - 130.8	<0.121	7.68	18.9 J	5.37 J	2.380	1.10	0.0 U	121.7	7.62
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
U4-MW-16DD	3/15/2023	N	EM07	UMCf	120.8 - 130.8	<0.121	7.16	15.9 J	3.04 J	1.622	2.67	0.0 U	-32.6	7.56
U4-MW-16DD	6/13/2023	N	EM10	UMCf	120.8 - 130.8	<0.121	6.69	21.9	<3.02	1.625	0.95	0.0 U	44.0	7.78
U4-MW-16DD	9/14/2023	N	EM13	UMCf	120.8 - 130.8	<0.121	7.28	19.3 J	3.51 J	1.398	1.21	0 U	-27.1	7.75
U4-MW-16DD	12/13/2023	N	EM16	UMCf	120.8 - 130.8	<0.121	7.66	18.5 J	3.26 J	1.424	2.44	0.0 U	150.2	7.86
U4-MW-16DD	3/14/2024	N	EM19	UMCf	120.8 - 130.8	<0.121	6.64	17.0 J	<3.02	6.202	5.96	0.0 U	351.8	7.25
U4-MW-16DD	6/17/2024	N	EM20	UMCf	120.8 - 130.8	<0.121	6.56	21.5	<3.02	1.569	1.23	0.0 U	61.3	8.01
U4-MW-16I	4/11/2022	N	BL02	UMCf	77.0 - 87.0	<0.121	2.26	<4.99	3.91 J	6.673	8.63	0.0 U	129.8	8.36
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
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	<0.121	20.1	18.4 J	<3.02	0.020	8.09	----	-54.8	7.33
U4-MW-16I	3/13/2023	FD	EM07	UMCf	77.0 - 87.0	<0.121	18.7	23.0	<3.02	----	----	----	----	----
U4-MW-16I	6/12/2023	N	EM10	UMCf	77.0 - 87.0	<0.121	13.7	19.6 J	5.25 J	3.244	1.03	5.5	-65.3	6.76
U4-MW-16I	6/12/2023	FD	EM10	UMCf	77.0 - 87.0	0.282 J	13.0	21.3	8.93 J	----	----	----	----	----
U4-MW-16I	9/11/2023	N	EM13	UMCf	77.0 - 87.0	0.152 J	108	<4.99	10.2 J	14.244	0.85	0 U	120.2	6.61
U4-MW-16I	9/11/2023	FD	EM13	UMCf	77.0 - 87.0	0.142 J	107	<4.99	<3.02	----	----	----	----	----
U4-MW-16I	12/11/2023	N	EM16	UMCf	77.0 - 87.0	<0.605	38.2	7.72 J	<15.1	17.713	0.05	0.0 U	381.7	6.75
U4-MW-16I	12/11/2023	FD	EM16	UMCf	77.0 - 87.0	<0.605	36.6	7.10 J	<15.1	----	----	----	----	----
U4-MW-16I	3/11/2024	N	EM19	UMCf	77.0 - 87.0	<0.605	26.2	10.5 J	31.1 J	16.108	1.13	0.0 U	168.3	7.13
U4-MW-16I	3/11/2024	FD	EM19	UMCf	77.0 - 87.0	<0.605	29.3	10.9 J	31.2 J	----	----	----	----	----
U4-MW-16I	6/18/2024	N	EM20	UMCf	77.0 - 87.0	<0.605	30.7	9.78 J	<15.1	16.014	0.99	0.0 U	153.9	6.79
U4-MW-16I	6/18/2024	FD	EM20	UMCf	77.0 - 87.0	<0.605	31.0	12.3 J	<15.1	----	----	----	----	----
U4-MW-16S	4/12/2022	N	BL02	UMCf	54.8 - 64.8	<0.121	3.64	15.4 J	<3.02	2.712	4.29	0.0 U	136.6	8.80
U4-MW-16S	4/12/2022	FD	BL02	UMCf	54.8 - 64.8	<0.121	3.66	14.3 J	<3.02	----	----	----	----	----
U4-MW-16S	12/6/2022	N	EM04	UMCf	54.8 - 64.8	<0.121 UJ	12.5	7.59	<3.02 UJ	2.562	1.29	0.0 U	24.7	8.01
U4-MW-16S	3/15/2023	N	EM07	UMCf	54.8 - 64.8	<0.121	0.247 J	7.88 J	<15.1	3.549	0.71	6.0	-159.7	6.65
U4-MW-16S	6/13/2023	N	EM10	UMCf	54.8 - 64.8	<0.121	0.234 J	8.63 J	<3.02	3.772	0.40	7.0	-105.2	6.67
U4-MW-16S	9/11/2023	N	EM13	UMCf	54.8 - 64.8	<0.121	0.266 J	<4.99	<3.02	2.498	1.55	2	-84.7	7.14
U4-MW-16S	12/11/2023	N	EM16	UMCf	54.8 - 64.8	<0.121	0.0878 J	5.81 J	9.20 J	3.172	0.20	0.5	-132.8	7.13
U4-MW-16S	3/11/2024	N	EM19	UMCf	54.8 - 64.8	<0.121	0.124 J	9.51 J	46.3 J+	3.088	0.48	0.0 U	-163.5	7.14
U4-MW-16S	6/17/2024	N	EM20	UMCf	54.8 - 64.8	<0.121	0.343 J	6.87 J	<3.02	2.670	0.31	1.0	-141.0	6.93
U4-SLMW	11/10/2022	N	EM03		-	----	----	----	----	----	----	----	----	----
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

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	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS	FIELD TESTS
						Thallium	Uranium	Vanadium	Zinc	Conductivity	Dissolved Oxygen	Ferrous Iron	Oxidation-Reduction Potential	pH
						µg/L	µg/L	µg/L	µg/L	mS/cm	mg/L	mg/L	mV	SU
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 sample quantitation limit.
- 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.

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	SW7199	SW9060A/SM5310B
						Sulfide	Temperature	Turbidity	Ethane	Ethene	Methane	Total Dissolved Solids	Solids, Percent	Chromium, Hexavalent	Total Organic Carbon
						mg/L	C	NTU	µg/L	µg/L	µg/L	µg/L	Percent	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	----	<150	----
M-249-100	4/20/2022	N	BL02	UMCf	99.6 - 109.6	0.0 U	27.5	60.6	----	----	----	54,000,000	----	77,000	----
M-251-100	4/19/2022	N	BL02	UMCf	92.5 - 102.5	0.0 U	26.3	17.1	----	----	----	39,900,000	----	96,900 J-	1,410 J+
M-251-100	10/13/2022	N	EM02	UMCf	92.5 - 102.5	----	24.9	58.8	----	----	----	25,800,000	----	57,600	3,660 J+
M-251-100	11/2/2022	N	EM03	UMCf	92.5 - 102.5	----	24.1	33.2	----	----	----	18,700,000	----	39,500	1,030 J+
M-251-100	12/8/2022	N	EM04	UMCf	92.5 - 102.5	----	22.0	17.3	----	----	----	15,000,000 J	----	32,300	1,720 J+
M-251-100	1/11/2023	N	EM05	UMCf	92.5 - 102.5	----	23.0	50.5	----	----	----	22,400,000	----	43,900	1,240 J+
M-251-100	2/13/2023	N	EM06	UMCf	92.5 - 102.5	----	23.4	21.0	----	----	----	9,740,000	----	42,700	1,130 J+
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	----	23,100	1,660 J+
M-251-100	4/21/2023	N	EM08	UMCf	92.5 - 102.5	0.0 U	24.3	32.6	----	----	----	18,500,000	----	34,100	1,460 J+
M-251-100	5/9/2023	N	EM09	UMCf	92.5 - 102.5	0.0 U	29.7	9.1	----	----	----	19,900,000	----	34,200	1,540 J+
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	----	16,600	957 J
M-251-100	7/14/2023	N	EM11	UMCf	92.5 - 102.5	0.0 U	30.3	19.4	----	----	----	18,000,000	----	43,900 J-	1,540
M-251-100	8/10/2023	N	EM12	UMCf	92.5 - 102.5	0 U	33.6	16.5	----	----	----	21,500,000	----	30,800	1,140 J+
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	----	31,600	963 J
M-251-100	10/19/2023	N	EM14	UMCf	92.5 - 102.5	0 U	27.9	55.6	----	----	----	19,800,000 J-	----	28,500	13,900
M-251-100	11/16/2023	N	EM15	UMCf	92.5 - 102.5	0 U	25.9	18.6	----	----	----	16,400,000	----	32,300	37,600
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	----	31,600	50,800
M-251-100	1/25/2024	N	EM17	UMCf	92.5 - 102.5	0.0 U	25.6	72.8	----	----	----	16,800,000	----	32,100	57,300
M-251-100	2/13/2024	N	EM18	UMCf	92.5 - 102.5	0.2	19.9	63.6	----	----	----	12,500,000	----	<150	2,380,000
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	----	52.0	8,170,000
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	----	3.34 J	3,000,000 J-
M-251-60	4/18/2022	N	BL02	UMCf	52.3 - 62.3	0.0 U	30.5	18.3	----	----	----	2,330,000 J	----	1,510 J-	1,590 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	----	1,590	3,420 J+
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	----	1,780	1,290 J+
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	----	1,740	1,430 J+
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	----	1,640	5,240 J+
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	----	325	14,400
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	----	<0.200	91,200
M-252	4/21/2022	N	BL02	UMCf	132.3 - 142.3	0.0 U	29.6	9.9	----	----	----	1,410,000	----	32.5 J	520 J
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	----	45.8	1,020 J+
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	----	23.5	1,480
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	----	6.26	996 J
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	----	11.2	529 J
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	----	0.361 J	1,810
M-253-100	4/20/2022	N	BL02	UMCf	100.8 - 110.8	0.0 U	25.2	21.0	----	----	----	2,130,000	----	598	----
M-255-100	4/20/2022	N	BL02	UMCf	100.2 - 110.2	0.0 U	25.1	12.0	----	----	----	1,600,000	----	1,350	----
U4-E-01D	4/18/2022	N	BL02	UMCf	94.7 - 109.7	0.0 U	26.2	8.7	----	----	----	43,600,000	----	87,000 J-	1,030 J+
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	----	1.43	36,400
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-	----	<200	9,800,000 J-
U4-E-01I	4/19/2022	N	BL02	UMCf	74.6 - 89.6	0.0 U	26.5	2.7	----	----	----	4,770,000 J	----	6,190 J-	2,420 J+
U4-E-01I	4/19/2022	FD	BL02	UMCf	74.6 - 89.6	----	----	----	----	----	----	2,770,000 J	----	7,860 J-	2,670 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	----	16,300	2,230 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	SW7199	SW9060A/SM5310B
						Sulfide	Temperature	Turbidity	Ethane	Ethene	Methane	Total Dissolved Solids	Solids, Percent	Chromium, Hexavalent	Total Organic Carbon
						mg/L	C	NTU	µg/L	µg/L	µg/L	µg/L	Percent	µg/L	µg/L
U4-E-01I	4/20/2023	N	EM08	UMCf	74.6 - 89.6	----	23.3	3.9	----	----	----	4,720,000	----	9,830	12,700
U4-E-01I	5/10/2023	N	EM09	UMCf	74.6 - 89.6	----	30.7	12.3	----	----	----	6,020,000	----	9,400 J-	34,200
U4-E-01I	6/12/2023	N	EM10	UMCf	74.6 - 89.6	----	28.8	1.8	----	----	----	8,260,000	----	17,400	94,200
U4-E-01I	7/11/2023	N	EM11	UMCf	74.6 - 89.6	----	29.2	147.7	----	----	----	3,590,000	----	<30.0	968,000
U4-E-01I	8/10/2023	N	EM12	UMCf	74.6 - 89.6	----	34.9	234.5	----	----	----	2,020,000	----	0.992	217,000
U4-E-01I	9/11/2023	N	EM13	UMCf	74.6 - 89.6	----	29.5	1311.9	----	----	----	7,010,000	----	22.3	3,310,000
U4-E-01I	10/16/2023	N	EM14	UMCf	74.6 - 89.6	----	27.9	2139.2	----	----	----	4,630,000 J-	----	10.1	3,350,000
U4-E-01I	12/13/2023	N	EM16	UMCf	74.6 - 89.6	0.0 U	23.6	140.9	----	----	----	4,870,000	----	17.8	3,990,000
U4-E-01I	1/24/2024	N	EM17	UMCf	74.6 - 89.6	0.0 U	20.2	152.4	----	----	----	6,470,000	----	71.4	4,870,000
U4-E-01I	2/14/2024	N	EM18	UMCf	74.6 - 89.6	----	19.3	151.7	----	----	----	2,530,000	----	6.42	2,290,000
U4-E-01I	3/12/2024	N	EM19	UMCf	74.6 - 89.6	0.0 U	23.4	162.2	----	----	----	4,870,000	----	16.0 J	3,030,000
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	----	<200	6,250,000 J-
U4-E-02D	4/20/2022	N	BL02	UMCf	94.4 - 109.4	0.0 U	27.0	2.0	----	----	----	10,800,000	----	17,400	1,540 J+
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	----	7.77	2,720 J+
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	----	<200	8,380,000 J-
U4-E-02I	4/18/2022	N	BL02	UMCf	74.4 - 89.4	0.0 U	24.6	9.8	----	----	----	4,130,000	----	8,910 J-	1,240 J+
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	----	1,980 J-	3,580 J+
U4-E-02I	4/20/2023	N	EM08	UMCf	74.4 - 89.4	----	24.3	56.6	----	----	----	3,830,000	----	6,860	53,000
U4-E-02I	5/11/2023	N	EM09	UMCf	74.4 - 89.4	----	32.0	28.2	----	----	----	3,440,000	----	5,730	125,000
U4-E-02I	6/12/2023	N	EM10	UMCf	74.4 - 89.4	----	28.1	3.8	----	----	----	3,940,000	----	2,190	312,000
U4-E-02I	7/11/2023	N	EM11	UMCf	74.4 - 89.4	----	28.7	12.3	----	----	----	4,560,000	----	3,130	315,000 J-
U4-E-02I	8/10/2023	N	EM12	UMCf	74.4 - 89.4	----	33.7	204.8	----	----	----	3,810,000	----	1.16	626,000 J-
U4-E-02I	9/11/2023	N	EM13	UMCf	74.4 - 89.4	----	32.5	175.6	----	----	----	4,850,000	----	11.0	845,000 J-
U4-E-02I	10/16/2023	N	EM14	UMCf	74.4 - 89.4	----	29.4	54.2	----	----	----	4,660,000 J-	----	4.10	535 J
U4-E-02I	12/14/2023	N	EM16	UMCf	74.4 - 89.4	0.0 U	23.2	116.6	----	----	----	6,860,000	----	69.1	3,540,000 J-
U4-E-02I	1/22/2024	N	EM17	UMCf	74.4 - 89.4	0.1	18.2	54.9	----	----	----	7,290,000	----	182	3,340,000 J-
U4-E-02I	2/13/2024	N	EM18	UMCf	74.4 - 89.4	----	21.7	82.0	----	----	----	6,120,000	----	143	5,720,000 J-
U4-E-02I	3/13/2024	N	EM19	UMCf	74.4 - 89.4	0.0 U	24.1	244.0	----	----	----	20,500,000	----	84.0	11,400,000 J-
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-	----	690	8,830,000 J-
U4-E-03D	4/19/2022	N	BL02	UMCf	95.1 - 110.1	0.0 U	28.6	33.2	----	----	----	34,400,000	----	77,900 J-	1,660 J+
U4-E-03D	10/13/2022	N	EM02	UMCf	95.1 - 110.1	----	----	----	----	----	----	18,900,000 J-	----	48,700	971 J
U4-E-03D	11/3/2022	N	EM03	UMCf	95.1 - 110.1	----	17.8	225.3	----	----	----	15,400,000	----	44,000	1,710 J+
U4-E-03D	12/6/2022	N	EM04	UMCf	95.1 - 110.1	----	22.1	1.8	----	----	----	16,000,000	----	37,000 J-	1,380 J+
U4-E-03D	1/9/2023	N	EM05	UMCf	95.1 - 110.1	----	21.2	0.0	----	----	----	9,860,000	----	36,100	1,410 J+
U4-E-03D	2/13/2023	N	EM06	UMCf	95.1 - 110.1	----	22.4	0.1	----	----	----	12,000,000	----	34,100	1,260 J+
U4-E-03D	3/13/2023	N	EM07	UMCf	95.1 - 110.1	----	----	----	----	----	----	11,700,000	----	35,600	1,920 J+
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	----	35,400	1,520 J+
U4-E-03D	4/19/2023	N	EM08	UMCf	95.1 - 110.1	----	21.7	62.2	----	----	----	12,600,000	----	35,400	83,500
U4-E-03D	5/11/2023	N	EM09	UMCf	95.1 - 110.1	----	30.3	35.2	----	----	----	8,660,000	----	28,600	213,000
U4-E-03D	6/12/2023	N	EM10	UMCf	95.1 - 110.1	----	28.6	9.5	----	----	----	12,000,000	----	35,500	123,000
U4-E-03D	7/11/2023	N	EM11	UMCf	95.1 - 110.1	----	30.3	181.7	----	----	----	15,400,000	----	38,500	28,700
U4-E-03D	8/10/2023	N	EM12	UMCf	95.1 - 110.1	----	34	159.1	----	----	----	15,600,000	----	36,200	12,200
U4-E-03D	9/11/2023	N	EM13	UMCf	95.1 - 110.1	----	33.9	371.6	----	----	----	15,500,000	----	35,700	34,500

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	SW7199	SW9060A/SM5 310B
						Sulfide	Temperature	Turbidity	Ethane	Ethene	Methane	Total Dissolved Solids	Solids, Percent	Chromium, Hexavalent	Total Organic Carbon
						mg/L	C	NTU	µg/L	µg/L	µg/L	µg/L	Percent	µg/L	µg/L
U4-E-03D	10/16/2023	N	EM14	UMCf	95.1 - 110.1	----	30.4	329.6	----	----	----	17,100,000 J-	----	35,100	122,000
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	----	<200	6,590,000 J-
U4-E-03D	6/10/2024	FD	EM20	UMCf	95.1 - 110.1	----	----	----	<4.07	<4.26	4,470	11,200,000	----	<200	6,450,000 J-
U4-E-04D	4/19/2022	N	BL02	UMCf	95.0 - 110.0	0.0 U	25.5	15.1	----	----	----	24,000,000	----	37,500 J-	1,380 J+
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	----	0.538	3,170 J+
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	----	<200	8,880,000 J-
U4-E-04I	4/18/2022	N	BL02	UMCf	75.0 - 90.0	0.0 U	27.4	28.9	----	----	----	3,430,000	----	3,380 J-	863 J
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	----	60,300	1,580 J+
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-	----	<200	7,720,000 J-
U4-E-05D	4/19/2022	N	BL02	UMCf	95.0 - 110.0	0.0 U	28.8	45.2	----	----	----	28,400,000	----	47,900 J-	1,070 J+
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	----	0.272 J	2,450 J+
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	----	<200	4,670,000 J-
U4-E-05I	4/19/2022	N	BL02	UMCf	75.0 - 90.0	0.0 U	28.4	10.5	----	----	----	4,070,000	----	5,710 J-	1,110 J+
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	----	8,200	2,960 J+
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	----	<20.0	6,690,000 J-
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	----	10,800	605 J
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	----	<200	327,000 J-
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	----	2,420	863 J
U4-E-06I	4/11/2022	FD	BL02	UMCf	73.2 - 88.2	----	----	----	<4.07	<4.26	<2.91	3,150,000	----	3,210	909 J
U4-E-06I	10/12/2022	N	EM02	UMCf	73.2 - 88.2	----	----	----	----	----	----	9,760,000 J-	----	9,930	221,000
U4-E-06I	11/3/2022	N	EM03	UMCf	73.2 - 88.2	----	----	----	----	----	----	5,900,000	----	3,080	659,000
U4-E-06I	12/6/2022	N	EM04	UMCf	73.2 - 88.2	----	23.2	38.3	----	----	----	6,870,000	----	1,860 J-	69,200
U4-E-06I	1/9/2023	N	EM05	UMCf	73.2 - 88.2	----	23.0	4.4	----	----	----	7,540,000	----	17,700	117,000
U4-E-06I	2/13/2023	N	EM06	UMCf	73.2 - 88.2	----	23.0	75.8	----	----	----	7,500,000	----	158 J-	516,000
U4-E-06I	3/13/2023	N	EM07	UMCf	73.2 - 88.2	----	15.5	29.5	----	----	----	4,760,000	----	34.3 J-	399,000
U4-E-06I	4/17/2023	N	EM08	UMCf	73.2 - 88.2	----	25.4	64.2	----	----	----	4,860,000	----	1,190	198,000
U4-E-06I	5/15/2023	N	EM09	UMCf	73.2 - 88.2	----	33.7	59.0	----	----	----	18,800,000	----	37,200	29,900
U4-E-06I	6/12/2023	N	EM10	UMCf	73.2 - 88.2	----	26.4	60.6	----	----	----	11,600,000	----	25,300	66,900 J-
U4-E-06I	7/11/2023	N	EM11	UMCf	73.2 - 88.2	----	30.3	244.0	----	----	----	13,200,000	----	22,800	10,600
U4-E-06I	8/11/2023	N	EM12	UMCf	73.2 - 88.2	----	27.5	29.3	----	----	----	11,700,000	----	28,200	54,700
U4-E-06I	9/11/2023	N	EM13	UMCf	73.2 - 88.2	----	32.3	165	----	----	----	7,360,000	----	7.42	1,270,000
U4-E-06I	10/16/2023	N	EM14	UMCf	73.2 - 88.2	----	31.4	534.4	----	----	----	6,000,000 J-	----	30.1	486,000
U4-E-06I	12/13/2023	N	EM16	UMCf	73.2 - 88.2	0.0 U	22.5	523.4	----	----	----	6,680,000	----	28.7	513,000
U4-E-06I	1/22/2024	N	EM17	UMCf	73.2 - 88.2	0.0 U	16.3	32.5	----	----	----	5,420,000	----	0.676	430,000 J-
U4-E-06I	2/13/2024	N	EM18	UMCf	73.2 - 88.2	----	22.1	24.2	----	----	----	6,280,000	----	8.67	155,000
U4-E-06I	3/11/2024	N	EM19	UMCf	73.2 - 88.2	0.0 U	21.4	160.0	----	----	----	7,040,000	----	<3.00	47,800
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	----	9.80	90,900 J-
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	----	76,300 J-	3,200 J
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	----	<200	70,800
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	----	12,200 J	2,760 J
U4-E-07I	10/11/2022	N	EM02	UMCf	74.7 - 89.7	----	----	----	----	----	----	17,000,000	----	48,700	12,500
U4-E-07I	11/3/2022	N	EM03	UMCf	74.7 - 89.7	----	22.3	21294.5	----	----	----	12,800,000	----	42,300 J-	18,800
U4-E-07I	12/6/2022	N	EM04	UMCf	74.7 - 89.7	----	24.0	3.7	----	----	----	15,000,000	----	38,500	17,100

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	SW7199	SW9060A/SM5 310B
						Sulfide	Temperature	Turbidity	Ethane	Ethene	Methane	Total Dissolved Solids	Solids, Percent	Chromium, Hexavalent	Total Organic Carbon
						mg/L	C	NTU	µg/L	µg/L	µg/L	µg/L	Percent	µg/L	µg/L
U4-E-07I	1/9/2023	N	EM05	UMCf	74.7 - 89.7	----	21.9	0.2	----	----	----	11,800,000	----	39,800	4,110
U4-E-07I	2/13/2023	N	EM06	UMCf	74.7 - 89.7	----	21.8	1.1	----	----	----	13,100,000	----	43,200	10,100
U4-E-07I	3/13/2023	N	EM07	UMCf	74.7 - 89.7	----	24.2	79.0	----	----	----	12,500,000	----	41,600	6,770
U4-E-07I	4/19/2023	N	EM08	UMCf	74.7 - 89.7	----	23.9	12.1	----	----	----	12,300,000	----	35,400	8,630
U4-E-07I	5/15/2023	N	EM09	UMCf	74.7 - 89.7	----	34.0	189.9	----	----	----	12,800,000	----	31,700	6,020
U4-E-07I	6/12/2023	N	EM10	UMCf	74.7 - 89.7	----	27.4	8.7	----	----	----	9,840,000	----	29,400	7,650 J+
U4-E-07I	7/11/2023	N	EM11	UMCf	74.7 - 89.7	----	34.4	398.2	----	----	----	11,300,000	----	33,100	11,400
U4-E-07I	8/11/2023	N	EM12	UMCf	74.7 - 89.7	----	28.5	274.4	----	----	----	12,200,000	----	30,400	10,700
U4-E-07I	9/11/2023	N	EM13	UMCf	74.7 - 89.7	----	33.3	246.8	----	----	----	15,900,000	----	36,500	15,700
U4-E-07I	10/16/2023	N	EM14	UMCf	74.7 - 89.7	----	30.4	597.3	----	----	----	15,200,000 J-	----	37,600	13,800
U4-E-07I	12/13/2023	N	EM16	UMCf	74.7 - 89.7	0.0 U	23.7	67.1	----	----	----	15,400,000	----	36,600	8,740
U4-E-07I	1/23/2024	N	EM17	UMCf	74.7 - 89.7	0.0 U	18.3	197.5	----	----	----	14,600,000	----	35,200	7,810
U4-E-07I	2/13/2024	N	EM18	UMCf	74.7 - 89.7	----	24.8	8.8	----	----	----	11,100,000	----	36,400	8,210 J-
U4-E-07I	3/11/2024	N	EM19	UMCf	74.7 - 89.7	0.0 U	24.4	266.5	----	----	----	15,700,000	----	33,100	8,790
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	----	28,400	10,700
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	----	85,100 J-	3,170 J
U4-E-08D	10/11/2022	N	EM02	UMCf	94.6 - 109.6	----	----	----	----	----	----	24,000,000	----	69,700	2,450
U4-E-08D	11/3/2022	N	EM03	UMCf	94.6 - 109.6	----	21.8	24.9	----	----	----	22,800,000	----	60,100 J-	2,770 J+
U4-E-08D	12/6/2022	N	EM04	UMCf	94.6 - 109.6	----	23.8	-0.4	----	----	----	23,600,000	----	52,600 J-	2,490 J+
U4-E-08D	1/9/2023	N	EM05	UMCf	94.6 - 109.6	----	21.7	0.0	----	----	----	14,100,000	----	52,500	2,610 J+
U4-E-08D	2/13/2023	N	EM06	UMCf	94.6 - 109.6	----	21.7	11.6	----	----	----	15,800,000	----	51,000	2,770
U4-E-08D	3/13/2023	N	EM07	UMCf	94.6 - 109.6	----	24.5	72.7	----	----	----	16,100,000	----	47,800	3,510 J+
U4-E-08D	4/19/2023	N	EM08	UMCf	94.6 - 109.6	----	24.2	2.4	----	----	----	17,200,000	----	42,700	3,960
U4-E-08D	5/17/2023	N	EM09	UMCf	94.6 - 109.6	----	33.3	149.7	----	----	----	18,900,000	----	37,700	5,820 J+
U4-E-08D	6/12/2023	N	EM10	UMCf	94.6 - 109.6	----	27.4	10.9	----	----	----	16,600,000	----	36,800	3,530
U4-E-08D	7/11/2023	N	EM11	UMCf	94.6 - 109.6	----	31.1	3385.4	----	----	----	16,500,000	----	42,100	3,900 J+
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	----	26,400 J-	875 J
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	----	<200	6,560,000
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	----	13,000	1,280 J
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	----	<200	6,880,000 J-
U4-E-09I	6/10/2024	FD	EM20	UMCf	74.9 - 89.9	----	----	----	<4.07	<4.26	7,830	8,920,000	----	<200	6,270,000 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	----	9,360	766 J
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-	----	<20.0	8,390,000 J-
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	----	17,000	1,790 J
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	<200	7,560,000
U4-MW-01D	4/19/2022	N	BL02	UMCf	96.7 - 106.7	0.0 U	30.0	7.9	----	----	----	7,230,000	----	16,500 J-	952 J
U4-MW-01D	2/16/2023	N	EM06	UMCf	96.7 - 106.7	----	22.9	55.9	----	----	----	----	----	31,700	----
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	----	26,300	768 J
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	----	19,500	742 J
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	----	18,300	456 J
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	----	16,000	563 J
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	----	13,900	850 J
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	----	12,900	775 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	SW7199	SW9060A/SM5310B
						Sulfide	Temperature	Turbidity	Ethane	Ethene	Methane	Total Dissolved Solids	Solids, Percent	Chromium, Hexavalent	Total Organic Carbon
						mg/L	C	NTU	µg/L	µg/L	µg/L	µg/L	Percent	µg/L	µg/L
U4-MW-01DD	4/19/2022	N	BL02	UMCf	119.9 - 129.9	0.0 U	33.3	27.7	----	----	----	1,040,000	----	477 J	1,120 J+
U4-MW-01DD	4/19/2022	FD	BL02	UMCf	119.9 - 129.9	----	----	----	----	----	----	1,020,000	----	458 J	1,080 J+
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	----	11,400	1,100 J+
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	----	9,380	1,010 J+
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	----	11,000	447 J
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	----	5,040	462 J
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	----	6,510	374 J
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	----	4,490	377 J
U4-MW-01I	4/19/2022	N	BL02	UMCf	76.7 - 86.7	0.0 U	27.3	60.1	----	----	----	3,790,000	----	<150 UJ	1,160 J+
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	----	26,500	751 J
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	----	18,000	706 J
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	----	19,300	494 J
U4-MW-01I	12/15/2023	N	EM16	UMCf	76.7 - 86.7	----	----	----	<4.07	<4.26	21,400	6,280,000 J-	----	19,600	570 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	----	18,200	1,310 J+
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	----	16,400	1,210
U4-MW-01S	4/18/2022	N	BL02	UMCf	54.7 - 64.7	0.0 U	27.6	1501.7	----	----	----	3,130,000	----	1,770 J-	972 J
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	----	1,330	1,420 J+
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	----	1,440	803 J
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	----	1,460	963 J
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	----	1,160	1,810
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	----	760	5,520
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	----	263	6,350
U4-MW-02D	4/14/2022	N	BL02	UMCf	95.0 - 110.0	0.0 U	26.4	5.4	----	----	----	63,700,000	----	95,800	1,570 J
U4-MW-02D	10/11/2022	N	EM02	UMCf	95.0 - 110.0	----	26.1	2.9	----	----	----	75,100,000 J-	----	148,000	787 J
U4-MW-02D	11/1/2022	N	EM03	UMCf	95.0 - 110.0	----	27.6	1.4	----	----	----	53,300,000	----	139,000	558 J
U4-MW-02D	12/7/2022	N	EM04	UMCf	95.0 - 110.0	----	23.6	5.1	----	----	----	29,900,000	----	152,000 J-	924 J
U4-MW-02D	1/10/2023	N	EM05	UMCf	95.0 - 110.0	----	23.0	3.5	----	----	----	36,600,000	----	110,000	1,850 J
U4-MW-02D	2/13/2023	N	EM06	UMCf	95.0 - 110.0	----	23.7	11.6	----	----	----	44,500,000	----	120,000 J-	869 J
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	----	106,000	1,830 J+
U4-MW-02D	4/19/2023	N	EM08	UMCf	95.0 - 110.0	0.0 U	26.0	9.4	----	----	----	41,000,000	----	122,000	1,620
U4-MW-02D	5/9/2023	N	EM09	UMCf	95.0 - 110.0	0.0 U	25.5	12.2	----	----	----	26,900,000 J	----	107,000 J-	1,930 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	----	95,500	1,140 J+
U4-MW-02D	7/18/2023	N	EM11	UMCf	95.0 - 110.0	0.0 U	27.7	32.3	----	----	----	55,900,000	----	109,000	1,680 J+
U4-MW-02D	8/14/2023	N	EM12	UMCf	95.0 - 110.0	0 U	29.4	4	----	----	----	41,000,000	----	96,200	1,380 J+
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	----	92,700	1,570 J+
U4-MW-02D	10/19/2023	N	EM14	UMCf	95.0 - 110.0	0 U	26.1	28.9	----	----	----	37,300,000	----	115,000	1,070
U4-MW-02D	11/15/2023	N	EM15	UMCf	95.0 - 110.0	0 U	24.1	1.5	----	----	----	29,400,000 J-	----	87,500	2,910
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	----	84,100	819 J
U4-MW-02D	1/25/2024	N	EM17	UMCf	95.0 - 110.0	0.0 U	24.9	180.8	----	----	----	28,300,000	----	76,700	1,120
U4-MW-02D	2/12/2024	N	EM18	UMCf	95.0 - 110.0	0.0 U	22.3	8.5	----	----	----	32,700,000	----	77,500	1,260 J+
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	----	76,000	1,130 J+
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-	----	62,500	2,460 J+
U4-MW-02I	4/14/2022	N	BL02	UMCf	75.0 - 90.0	0.0 U	28.4	15.2	----	----	----	6,660,000	----	12,800	1,100 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	SW7199	SW9060A/SM5 310B
						Sulfide	Temperature	Turbidity	Ethane	Ethene	Methane	Total Dissolved Solids	Solids, Percent	Chromium, Hexavalent	Total Organic Carbon
						mg/L	C	NTU	µg/L	µg/L	µg/L	µg/L	Percent	µg/L	µg/L
U4-MW-02I	10/11/2022	N	EM02	UMCf	75.0 - 90.0	----	25.3	56.9	----	----	----	11,000,000	----	33,900	8,510
U4-MW-02I	11/2/2022	N	EM03	UMCf	75.0 - 90.0	----	25.0	36.2	----	----	----	15,700,000	----	48,200	88,500
U4-MW-02I	11/2/2022	FD	EM03	UMCf	75.0 - 90.0	----	----	----	----	----	----	20,400,000	----	46,600	75,900
U4-MW-02I	12/8/2022	N	EM04	UMCf	75.0 - 90.0	----	14.5	5.0	----	----	----	1,860,000 J	----	3,720 J-	31,600 J
U4-MW-02I	12/8/2022	FD	EM04	UMCf	75.0 - 90.0	----	----	----	----	----	----	3,300,000 J	----	3,620	161,000 J
U4-MW-02I	1/13/2023	N	EM05	UMCf	75.0 - 90.0	----	----	----	----	----	----	8,500,000	----	21,700	76,100
U4-MW-02I	1/13/2023	FD	EM05	UMCf	75.0 - 90.0	----	----	----	----	----	----	8,640,000	----	21,900	74,900 J-
U4-MW-02I	2/15/2023	N	EM06	UMCf	75.0 - 90.0	----	23.4	115.7	----	----	----	26,500,000	----	69,100 J-	10,700
U4-MW-02I	2/15/2023	FD	EM06	UMCf	75.0 - 90.0	----	----	----	----	----	----	24,800,000	----	69,400 J-	13,300
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	----	69,400	12,000
U4-MW-02I	3/17/2023	FD	EM07	UMCf	75.0 - 90.0	----	----	----	<4.07	<4.26	3,310	29,100,000	----	68,600	12,700
U4-MW-02I	4/20/2023	N	EM08	UMCf	75.0 - 90.0	0.0 U	25.3	129.2	----	----	----	2,060,000	----	3.98 J-	104,000
U4-MW-02I	4/20/2023	FD	EM08	UMCf	75.0 - 90.0	----	----	----	----	----	----	1,990,000	----	4.15 J-	105,000
U4-MW-02I	5/9/2023	N	EM09	UMCf	75.0 - 90.0	0.0 U	26.8	30.3	----	----	----	2,200,000	----	4.96	141,000 J
U4-MW-02I	5/9/2023	FD	EM09	UMCf	75.0 - 90.0	----	----	----	----	----	----	2,770,000	----	5.57	35,900 J
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	----	1.15	159,000
U4-MW-02I	6/12/2023	FD	EM10	UMCf	75.0 - 90.0	----	----	----	<4.07	<4.26	6,540	2,990,000	----	1.28	157,000
U4-MW-02I	7/18/2023	N	EM11	UMCf	75.0 - 90.0	2.0	27.0	79.4	----	----	----	2,810,000	----	0.301 J	255,000 J-
U4-MW-02I	7/18/2023	FD	EM11	UMCf	75.0 - 90.0	----	----	----	----	----	----	2,690,000 J-	----	0.573	291,000 J-
U4-MW-02I	8/11/2023	N	EM12	UMCf	75.0 - 90.0	0 U	32.7	20.9	----	----	----	8,140,000	----	6,390	19,700
U4-MW-02I	8/11/2023	FD	EM12	UMCf	75.0 - 90.0	----	----	----	----	----	----	9,020,000	----	5,680	19,500
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	----	867	253,000
U4-MW-02I	9/11/2023	FD	EM13	UMCf	75.0 - 90.0	----	----	----	<4.07	<4.26	10,300	6,530,000	----	869	253,000
U4-MW-02I	10/19/2023	N	EM14	UMCf	75.0 - 90.0	0 U	26.9	43.3	----	----	----	9,840,000 J	----	24,700	25,000
U4-MW-02I	10/19/2023	FD	EM14	UMCf	75.0 - 90.0	----	----	----	----	----	----	14,000,000 J	----	25,000	24,900
U4-MW-02I	11/15/2023	N	EM15	UMCf	75.0 - 90.0	0 U	25.7	7.5	----	----	----	10,700,000	----	20,000	128,000
U4-MW-02I	11/15/2023	FD	EM15	UMCf	75.0 - 90.0	----	----	----	----	----	----	11,500,000	----	19,300	128,000
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	----	24,300	293,000
U4-MW-02I	12/14/2023	FD	EM16	UMCf	75.0 - 90.0	----	----	----	<4.07	<4.26	7,010	7,660,000	----	24,700	293,000
U4-MW-02I	1/25/2024	N	EM17	UMCf	75.0 - 90.0	0.0 U	24.0	157.0	----	----	----	15,900,000	----	35,900	257,000
U4-MW-02I	1/25/2024	FD	EM17	UMCf	75.0 - 90.0	----	----	----	----	----	----	17,300,000	----	35,800	255,000
U4-MW-02I	2/12/2024	N	EM18	UMCf	75.0 - 90.0	0.0 U	23.2	6.0	----	----	----	14,900,000	----	36,200	286,000
U4-MW-02I	2/12/2024	FD	EM18	UMCf	75.0 - 90.0	----	----	----	----	----	----	17,700,000	----	36,000	285,000 J
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	----	32,800	252,000
U4-MW-02I	3/13/2024	FD	EM19	UMCf	75.0 - 90.0	----	----	----	<4.07	<4.26	9,200	15,000,000	----	32,800	247,000
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	----	1,090	256,000 J-
U4-MW-02I	6/17/2024	FD	EM20	UMCf	75.0 - 90.0	----	----	----	<4.07	<4.26	9,290	9,020,000	----	1,070	247,000 J-
U4-MW-03D	4/20/2022	N	BL02	UMCf	96.6 - 106.6	0.0 U	26.7	31.0	----	----	----	23,000,000	----	42,100	964 J
U4-MW-03D	2/16/2023	N	EM06	UMCf	96.6 - 106.6	----	22.6	35.4	----	----	----	----	----	31,800	----
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	----	28,100	816 J
U4-MW-03D	3/16/2023	FD	EM07	UMCf	96.6 - 106.6	----	----	----	<4.07	<4.26	<2.91 UJ	13,400,000	----	27,200	831 J
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	----	28,000	538 J
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	----	34,700 J	1,900

Table 2
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Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	FIELD TESTS	FIELD TESTS	FIELD TESTS	RSK175	RSK175	RSK175	SM2540C	SM2540G	SW7199	SW9060A/SM5310B
						Sulfide	Temperature	Turbidity	Ethane	Ethene	Methane	Total Dissolved Solids	Solids, Percent	Chromium, Hexavalent	Total Organic Carbon
						mg/L	C	NTU	µg/L	µg/L	µg/L	µg/L	Percent	µg/L	µg/L
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	----	25,300	64,500
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	----	14,800	15,000
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	----	5,300	32,800
U4-MW-03DD	4/20/2022	N	BL02	UMCf	119.7 - 129.7	0.0 U	26.3	24.2	----	----	----	2,070,000	----	2,660	999 J
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	----	60.5	846 J
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	----	42.9	274 J
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	----	20.7	161 J
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	----	33.8	156 J
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	----	35.6	293 J
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	----	25.0	350 J
U4-MW-03I	4/19/2022	N	BL02	UMCf	76.6 - 86.6	0.0 U	30.2	8489.8	----	----	----	2,350,000	----	<150 UJ	3,300 J+
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	----	24,500	1,260 J+
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	----	11,400	607 J
U4-MW-03I	6/14/2023	FD	EM10	UMCf	76.6 - 86.6	----	----	----	<4.07	<4.26	33.9	12,100,000	----	11,500	620 J
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	----	26,400	1,120 J+
U4-MW-03I	9/11/2023	FD	EM13	UMCf	76.6 - 86.6	----	----	----	<4.07	<4.26	149 J	13,700,000	----	26,700	1,190 J+
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	----	22,900	4,540
U4-MW-03I	12/13/2023	FD	EM16	UMCf	76.6 - 86.6	----	----	----	<4.07	<4.26	9,730	13,100,000	----	22,800	4,600
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	----	13,000	78,000
U4-MW-03I	3/14/2024	FD	EM19	UMCf	76.6 - 86.6	----	----	----	<4.07	<4.26	16,100	7,240,000	----	13,100	77,500
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-	----	605	375,000 J-
U4-MW-03I	6/19/2024	FD	EM20	UMCf	76.6 - 86.6	----	----	----	<4.07	<4.26	6,440	8,320,000 J-	----	576	379,000 J-
U4-MW-03S	4/18/2022	N	BL02	UMCf	54.5 - 64.5	0.0 U	27.3	38.0	----	----	----	2,890,000	----	1,390 J-	1,200 J+
U4-MW-03S	4/18/2022	FD	BL02	UMCf	54.5 - 64.5	----	----	----	----	----	----	2,190,000 J-	----	1,390 J-	1,320 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	----	2,300	1,480 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	----	2,470	2,310 J+
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	----	1,840	5,950
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	----	1,210	3,280
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	----	641	5,120
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	----	363	5,840
U4-MW-04D	4/19/2022	N	BL02	UMCf	97.0 - 107.0	0.0 U	30.1	18.0	----	----	----	56,100,000	----	103,000 J	7,260 J+
U4-MW-04D	2/16/2023	N	EM06	UMCf	97.0 - 107.0	----	21.5	38.7	----	----	----	----	----	18,300	----
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	----	14,300	1,210 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	----	5,350	57,600
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	----	19,800	4,430
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	----	12,000	127,000
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	----	13,300	69,000
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	----	16,800	7,510
U4-MW-04I	4/19/2022	N	BL02	UMCf	76.8 - 86.8	0.0 U	27.6	78.2	----	----	----	22,500,000	----	34,300 J-	1,530 J+
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	----	38,600	1,200 J+
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	----	34,300	39,000
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	----	63,400	1,630
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	----	59,900	7,380

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	SW7199	SW9060A/SM5 310B
						Sulfide	Temperature	Turbidity	Ethane	Ethene	Methane	Total Dissolved Solids	Solids, Percent	Chromium, Hexavalent	Total Organic Carbon
						mg/L	C	NTU	µg/L	µg/L	µg/L	µg/L	Percent	µg/L	µg/L
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	----	64,000	2,780
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	----	61,800	3,110
U4-MW-05D	4/15/2022	N	BL02	UMCf	98.2 - 108.2	0.0 U	28.3	39.5	----	----	----	27,800,000	----	73,100 J-	1,710 J
U4-MW-05D	10/13/2022	N	EM02	UMCf	98.2 - 108.2	----	28.3	235.7	----	----	----	30,400,000 J-	----	69,500	1,300 J
U4-MW-05D	11/3/2022	N	EM03	UMCf	98.2 - 108.2	----	23.6	92823.7	----	----	----	15,100,000	----	46,500	1,450 J+
U4-MW-05D	12/7/2022	N	EM04	UMCf	98.2 - 108.2	----	23.1	106.9	----	----	----	15,100,000	----	44,900	1,200 J+
U4-MW-05D	1/11/2023	N	EM05	UMCf	98.2 - 108.2	----	22.5	138.6	----	----	----	10,200,000	----	44,700	1,200 J+
U4-MW-05D	2/14/2023	N	EM06	UMCf	98.2 - 108.2	----	15.4	268.7	----	----	----	9,200,000	----	31,800	1,090
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	----	28,200	1,370 J+
U4-MW-05D	4/20/2023	N	EM08	UMCf	98.2 - 108.2	0.0 U	27.4	130.7	----	----	----	6,160,000	----	18,900	4,520
U4-MW-05D	5/10/2023	N	EM09	UMCf	98.2 - 108.2	0.0 U	28.4	22.4	----	----	----	3,790,000	----	10,400	94,100
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	----	5,460	129,000
U4-MW-05D	7/18/2023	N	EM11	UMCf	98.2 - 108.2	0.0 U	31.1	127.0	----	----	----	8,820,000	----	7,530	22,100
U4-MW-05D	8/14/2023	N	EM12	UMCf	98.2 - 108.2	0 U	36.5	54.6	----	----	----	9,980,000	----	15,300	50,700
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	----	2,260	127,000
U4-MW-05D	10/18/2023	N	EM14	UMCf	98.2 - 108.2	0 U	31.1	76.6	----	----	----	9,400,000	----	10,200	185,000 J-
U4-MW-05D	11/16/2023	N	EM15	UMCf	98.2 - 108.2	0 U	23.7	24.7	----	----	----	8,100,000	----	10,800	215,000
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	----	697	3,170,000 J-
U4-MW-05D	1/26/2024	N	EM17	UMCf	98.2 - 108.2	0.0 U	20.9	56.5	----	----	----	10,100,000	----	4,790	1,390,000 J-
U4-MW-05D	2/14/2024	N	EM18	UMCf	98.2 - 108.2	0.0 U	19.1	25.1	----	----	----	9,640,000	----	4,090	647,000 J-
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	----	3,640	700,000
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	----	2,550	151,000 J-
U4-MW-05I	4/15/2022	N	BL02	UMCf	76.6 - 86.6	0.0 U	23.2	2057.3	----	----	----	12,900,000	----	42,800 J-	1,460 J+
U4-MW-05I	10/13/2022	N	EM02	UMCf	76.6 - 86.6	----	25.6	1860.6	----	----	----	29,100,000	----	70,800	1,180 J
U4-MW-05I	11/3/2022	N	EM03	UMCf	76.6 - 86.6	----	24.1	90637.6	----	----	----	22,800,000	----	61,900 J-	1,370 J+
U4-MW-05I	12/8/2022	N	EM04	UMCf	76.6 - 86.6	----	23.3	1119.7	----	----	----	19,400,000 J	----	49,600	1,630 J+
U4-MW-05I	1/11/2023	N	EM05	UMCf	76.6 - 86.6	----	23.1	7501.5	----	----	----	10,300,000	----	45,300	1,400 J+
U4-MW-05I	2/14/2023	N	EM06	UMCf	76.6 - 86.6	----	22.3	1495.6	----	----	----	9,860,000	----	36,900	1,260 J+
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	----	30,400	1,990 J+
U4-MW-05I	4/21/2023	N	EM08	UMCf	76.6 - 86.6	0.0 U	26.2	62.0	----	----	----	3,810,000	----	5,170	379,000
U4-MW-05I	5/10/2023	N	EM09	UMCf	76.6 - 86.6	0.0 U	26.6	61.6	----	----	----	4,590,000	----	1.83	531,000 J-
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	----	4.86	485,000 J-
U4-MW-05I	7/17/2023	N	EM11	UMCf	76.6 - 86.6	0.0 U	29.0	5574.9	----	----	----	8,240,000	----	5,340	54,600 J-
U4-MW-05I	8/14/2023	N	EM12	UMCf	76.6 - 86.6	0 U	36.7	168	----	----	----	7,900,000	----	1,150	131,000
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	----	293	98,100 J-
U4-MW-05I	10/18/2023	N	EM14	UMCf	76.6 - 86.6	0 U	28.2	1318.1	----	----	----	7,100,000	----	390	66,000 J-
U4-MW-05I	11/15/2023	N	EM15	UMCf	76.6 - 86.6	0 U	25.9	173.7	----	----	----	7,920,000	----	279	166,000 J-
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	----	607	403 J
U4-MW-05I	1/26/2024	N	EM17	UMCf	76.6 - 86.6	0.0 U	23.5	174.6	----	----	----	12,800,000	----	33.0 J	651,000 J-
U4-MW-05I	2/14/2024	N	EM18	UMCf	76.6 - 86.6	0.0 U	19.8	139.8	----	----	----	10,200,000	----	97.6	361,000 J-
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	----	103	188,000 J-
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	----	5,910	141,000 J-
U4-MW-06D	4/19/2022	N	BL02	UMCf	97.1 - 107.1	0.0 U	----	----	----	----	----	43,400,000	----	73,100 J-	1,350 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	SW7199	SW9060A/SM5310B
						Sulfide	Temperature	Turbidity	Ethane	Ethene	Methane	Total Dissolved Solids	Solids, Percent	Chromium, Hexavalent	Total Organic Carbon
						mg/L	C	NTU	µg/L	µg/L	µg/L	µg/L	Percent	µg/L	µg/L
U4-MW-06D	2/15/2023	N	EM06	UMCf	97.1 - 107.1	----	21.3	76.0	----	----	----	----	----	36,900 J-	----
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	----	36,500	919 J
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	----	29,300	863 J
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	----	31,500	180,000
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	----	39,100	359,000
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	----	27,100	763,000
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	----	28,500	397,000
U4-MW-06I	4/19/2022	N	BL02	UMCf	76.5 - 86.5	0.0 U	27.5	171.5	----	----	----	3,420,000	----	3,070 J-	1,190 J+
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	----	42,800	1,660 J+
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	----	29,000	4,040
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	----	35,200	73,800
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	----	40,300	150,000
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	----	26,900	544,000
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	----	5,730	333,000
U4-MW-07D	4/15/2022	N	BL02	UMCf	96.8 - 106.5	0.0 U	26.7	52.5	----	----	----	5,820,000	----	23,900 J+	631 J
U4-MW-07D	10/12/2022	N	EM02	UMCf	96.8 - 106.5	----	28.7	9.7	----	----	----	1,310,000 J-	----	2,080	1,630 J+
U4-MW-07D	10/12/2022	FD	EM02	UMCf	96.8 - 106.5	----	----	----	----	----	----	1,330,000	----	2,120	1,490 J+
U4-MW-07D	11/3/2022	N	EM03	UMCf	96.8 - 106.5	----	23.9	97.4	----	----	----	1,220,000 J+	----	1,610 J-	1,680 J+
U4-MW-07D	12/7/2022	N	EM04	UMCf	96.8 - 106.5	----	23.8	14.1	----	----	----	1,050,000	----	1,080 J-	1,580 J+
U4-MW-07D	1/11/2023	N	EM05	UMCf	96.8 - 106.5	----	24.3	22.8	----	----	----	1,260,000	----	1,380 J-	1,480 J+
U4-MW-07D	2/14/2023	N	EM06	UMCf	96.8 - 106.5	----	22.3	73.4	----	----	----	1,070,000	----	1,250 J-	1,320
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	----	922	1,930 J+
U4-MW-07D	4/21/2023	N	EM08	UMCf	96.8 - 106.5	0.0 U	26.2	106.9	----	----	----	3,630,000	----	5,020	416,000
U4-MW-07D	5/11/2023	N	EM09	UMCf	96.8 - 106.5	0.0 U	27.5	34.4	----	----	----	3,170,000	----	692	1,390 J+
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	----	1,160 J-	392,000 J-
U4-MW-07D	7/17/2023	N	EM11	UMCf	96.8 - 106.5	0.0 U	30.8	156.5	----	----	----	13,200,000	----	29,900	38,900
U4-MW-07D	8/11/2023	N	EM12	UMCf	96.8 - 106.5	0 U	28.9	214.8	----	----	----	11,800,000	----	26,900	192,000
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	----	15,700	129,000
U4-MW-07D	10/18/2023	N	EM14	UMCf	96.8 - 106.5	0 U	26.8	25.5	----	----	----	11,800,000	----	23,100	282,000 J-
U4-MW-07D	11/16/2023	N	EM15	UMCf	96.8 - 106.5	0 U	24.3	31.9	----	----	----	12,500,000	----	22,500	592,000 J-
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	----	3,150	1,210 J
U4-MW-07D	1/26/2024	N	EM17	UMCf	96.8 - 106.5	0.0 U	23.7	70.5	----	----	----	11,600,000	----	722	1,880,000 J-
U4-MW-07D	2/13/2024	N	EM18	UMCf	96.8 - 106.5	0.0 U	22.1	75.0	----	----	----	8,400,000	----	<15.0	4,510,000 J-
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	----	46.1 J	2,530,000
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	----	4.78 J	3,220,000
U4-MW-07I	4/15/2022	N	BL02	UMCf	76.8 - 86.8	0.0 U	25.6	10.7	----	----	----	1,670,000	----	4,810 J+	2,760 J+
U4-MW-07I	10/12/2022	N	EM02	UMCf	76.8 - 86.8	----	26.9	119.0	----	----	----	1,350,000 J	----	2,720	1,370 J+
U4-MW-07I	11/3/2022	N	EM03	UMCf	76.8 - 86.8	----	23.9	1667.5	----	----	----	1,340,000	----	1,650 J-	1,530 J+
U4-MW-07I	12/7/2022	N	EM04	UMCf	76.8 - 86.8	----	24.0	210.3	----	----	----	1,220,000	----	1,360 J-	1,630 J+
U4-MW-07I	1/11/2023	N	EM05	UMCf	76.8 - 86.8	----	24.3	73.4	----	----	----	1,440,000	----	1,810 J-	1,420 J+
U4-MW-07I	2/15/2023	N	EM06	UMCf	76.8 - 86.8	----	22.3	134.0	----	----	----	1,520,000	----	2,640 J-	1,250
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	----	2,670 J-	25,900 J-
U4-MW-07I	4/21/2023	N	EM08	UMCf	76.8 - 86.8	0.0 U	26.1	277.9	----	----	----	2,670,000	----	4,860	113,000

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	SW7199	SW9060A/SM5 310B
						Sulfide	Temperature	Turbidity	Ethane	Ethene	Methane	Total Dissolved Solids	Solids, Percent	Chromium, Hexavalent	Total Organic Carbon
						mg/L	C	NTU	µg/L	µg/L	µg/L	µg/L	Percent	µg/L	µg/L
U4-MW-07I	5/11/2023	N	EM09	UMCf	76.8 - 86.8	0.0 U	26.1	156.9	----	----	----	2,820,000	----	0.158 J	352,000
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	----	<15.0	171,000
U4-MW-07I	7/17/2023	N	EM11	UMCf	76.8 - 86.8	0.0 U	27.5	504.0	----	----	----	7,260,000	----	1,900	47,900
U4-MW-07I	8/11/2023	N	EM12	UMCf	76.8 - 86.8	0 U	30	218.7	----	----	----	7,180,000	----	7,420 J-	255,000
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	----	4,220	409,000 J-
U4-MW-07I	10/18/2023	N	EM14	UMCf	76.8 - 86.8	0 U	25.8	100.1	----	----	----	7,440,000	----	340	271 J
U4-MW-07I	11/16/2023	N	EM15	UMCf	76.8 - 86.8	0 U	25.2	145.2	----	----	----	7,700,000	----	4,230	613,000 J-
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	----	2,720	937,000
U4-MW-07I	1/26/2024	N	EM17	UMCf	76.8 - 86.8	0.0 U	24.8	64.7	----	----	----	12,000,000	----	116	1,430,000 J-
U4-MW-07I	2/13/2024	N	EM18	UMCf	76.8 - 86.8	0.0 U	23.7	94.4	----	----	----	5,180,000	----	255	3,700,000
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	----	<15.0	1,170,000 J-
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	----	7.67	1,030,000
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	----	106,000	3,420 J
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	----	52,900 J-	6,460
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	----	44,800	10,900 J-
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	----	55,900	9,200 J+
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	----	85,600	1,930 J+
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	----	75,900	4,540
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	----	49,100	50,100
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	----	78,900	10,500
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	----	694	670 J
U4-MW-08DD	4/20/2022	FD	BL02	UMCf	119.8 - 129.8	----	----	----	<4.07	<4.26	<2.91	1,220,000	----	723	672 J
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	----	384	1,170 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	----	1,280	935 J
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	----	1,270	550 J
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	----	504	214 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	----	513	873 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	----	387	337 J
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	----	382	908 J
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	----	7,950	1,740 J
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	----	33,700	1,790 J+
U4-MW-08I	12/7/2022	FD	EM04	UMCf	78.0 - 88.0	----	----	----	<4.07	<4.26	55.5	----	----	34,200 J-	1,310 J+
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	----	54,200	1,640 J+
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	----	11,600	12,000
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	----	30,800	5,260
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	----	32,200 J-	18,000
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	----	30,300	12,600
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	----	28,400	10,400 J-
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	----	506 J+	1,190 J+
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	----	254 J-	3,390 J+
U4-MW-08S	12/7/2022	FD	EM04	UMCf	54.9 - 64.9	----	----	----	<4.07	<4.26	472	1,850,000	----	265 J-	2,830 J+
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	----	<0.150	9,910
U4-MW-08S	3/13/2023	FD	EM07	UMCf	54.9 - 64.9	----	----	----	<4.07	<4.26	21,300	1,410,000	----	<0.750 UJ	12,800 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	SW7199	SW9060A/SM5310B
						Sulfide	Temperature	Turbidity	Ethane	Ethene	Methane	Total Dissolved Solids	Solids, Percent	Chromium, Hexavalent	Total Organic Carbon
						mg/L	C	NTU	µg/L	µg/L	µg/L	µg/L	Percent	µg/L	µg/L
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	----	<15.0	190,000 J-
U4-MW-08S	6/13/2023	FD	EM10	UMCf	54.9 - 64.9	----	----	----	<4.07	<4.26	26,800	2,110,000	----	<15.0	201,000 J-
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	----	<0.150	52,200 J-
U4-MW-08S	9/13/2023	FD	EM13	UMCf	54.9 - 64.9	----	----	----	<4.07	<4.26	24,800	1,580,000	----	<0.150	51,600 J-
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	----	1.99	1,050,000 J-
U4-MW-08S	12/14/2023	FD	EM16	UMCf	54.9 - 64.9	----	----	----	<4.07	<4.26	18,800	3,190,000	----	1.97	1,010,000 J-
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	----	<3.00	41,700 J-
U4-MW-08S	3/14/2024	FD	EM19	UMCf	54.9 - 64.9	----	----	----	<4.07	<4.26	13,000	1,980,000	----	<3.00	43,000 J-
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	----	<0.150 UJ	234,000
U4-MW-08S	3/25/2024	FD	EM19	UMCf	54.9 - 64.9	----	----	----	<4.07	<4.26	21,300 J	2,070,000	----	<0.150 UJ	220,000 J-
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	----	0.448 J	41,500
U4-MW-08S	6/14/2024	FD	EM20	UMCf	54.9 - 64.9	----	----	----	<4.07	<4.26	19,400	2,340,000	----	0.229 J	40,500 J-
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	----	67,800	1,590 J
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	----	7,060 J-	751 J
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	----	3,520	146,000
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	----	1,490	223,000
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	----	2,990	87,700
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	----	2,200	168,000
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	----	855	40,700
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	----	<20.0	117,000 J-
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	----	121	493 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	----	134	398 J
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	----	215 J-	310 J
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	----	94.8	699 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	----	<0.300	9,120
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	----	17.3	2,950
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	----	<0.150	48,200
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	----	<0.200	14,100 J-
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	----	2,320	1,090 J+
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	----	13,500 J-	1,040 J+
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	----	7,920	43,900
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	----	1,130	33,900
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	----	5,850	33,600
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	----	3,150	63,000
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	----	1,570	37,400
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	----	4,000	46,300 J-
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	----	387	892 J
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	----	2,740 J-	999 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	----	2,630	2,440 J+
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	----	<15.0	724,000 J-
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	----	<0.150 UJ	895,000 J-
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	----	9.36	1,190 J
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	----	6.40 J	599,000 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	SW7199	SW9060A/SM5310B
						Sulfide	Temperature	Turbidity	Ethane	Ethene	Methane	Total Dissolved Solids	Solids, Percent	Chromium, Hexavalent	Total Organic Carbon
						mg/L	C	NTU	µg/L	µg/L	µg/L	µg/L	Percent	µg/L	µg/L
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	----	<4.00	76,100 J-
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	----	5,450	1,020 J+
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	----	3,640 J-	868 J
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	----	1.22	225,000
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	----	0.228 J	234,000
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	----	<0.150	10,700
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	----	0.153 J	9,960
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	----	<0.150	11,200
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	----	10.7	9,940
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	----	6,160	1,200 J+
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	----	566 J-	3,630 J+
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	----	1.11	11,400
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	----	0.333 J	257,000
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	----	0.261 J	43,800
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	----	15,200	8,050
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	----	25,900	4,300
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	----	1,260	3,770
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	----	90,100 J+	3,440 J+
U4-MW-11D	9/26/2022	N	EM01	UMCf	97.4 - 107.4	0.0 U	31.6	74.6	----	----	----	34,600,000	----	93,300	20,200 J+
U4-MW-11D	10/11/2022	N	EM02	UMCf	97.4 - 107.4	0.0 U	23.7	155.4	----	----	----	40,200,000	----	96,300	1,360 J+
U4-MW-11D	11/1/2022	N	EM03	UMCf	97.4 - 107.4	0.0 U	22.8	53.4	----	----	----	38,300,000	----	91,100	1,820 J+
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	----	32,300 J-	33,300
U4-MW-11D	1/12/2023	N	EM05	UMCf	97.4 - 107.4	0.0 U	21.5	254.4	----	----	----	24,800,000	----	74,400	5,100
U4-MW-11D	2/14/2023	N	EM06	UMCf	97.4 - 107.4	0.0 U	21.3	55.2	----	----	----	25,800,000	----	76,700	6,540
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	----	55,600 J-	5,970 J-
U4-MW-11D	4/18/2023	N	EM08	UMCf	97.4 - 107.4	0.0 U	25.2	154.0	----	----	----	23,800,000	----	45,700	8,540
U4-MW-11D	5/17/2023	N	EM09	UMCf	97.4 - 107.4	0.0 U	24.2	83.1	----	----	----	647,000	----	47,300	3,860
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	----	71,900	5,300
U4-MW-11D	7/14/2023	N	EM11	UMCf	97.4 - 107.4	0.0 U	27.2	52.9	----	----	----	22,400,000	----	62,600 J-	6,680
U4-MW-11D	8/14/2023	N	EM12	UMCf	97.4 - 107.4	0 U	27.6	132.3	----	----	----	24,900,000	----	59,700 J-	30,700
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	----	58,100	13,200
U4-MW-11D	10/18/2023	N	EM14	UMCf	97.4 - 107.4	0 U	25.6	278.7	----	----	----	19,200,000	----	53,700	181,000 J
U4-MW-11D	11/16/2023	N	EM15	UMCf	97.4 - 107.4	0 U	24.8	664.2	----	----	----	20,100,000	----	47,600	191,000 J+
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	----	47,400	173,000
U4-MW-11D	1/25/2024	N	EM17	UMCf	97.4 - 107.4	0.0 U	20.8	380.1	----	----	----	20,900,000	----	44,300	206,000
U4-MW-11D	2/14/2024	N	EM18	UMCf	97.4 - 107.4	0.0 U	20.7	4503.5	----	----	----	20,400,000	----	46,800	173,000
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	----	44,600	145,000
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	----	58,200	10,300
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	----	6,370	1,040 J+
U4-MW-11I	9/26/2022	N	EM01	UMCf	77.0 - 87.0	0.0 U	27.0	384.2	----	----	----	2,470,000	----	1,320 J	208,000
U4-MW-11I	9/26/2022	FD	EM01	UMCf	77.0 - 87.0	----	----	----	----	----	----	2,690,000	----	1,330 J	201,000
U4-MW-11I	10/10/2022	N	EM02	UMCf	77.0 - 87.0	0.0 U	24.4	170.6	----	----	----	2,200,000	----	0.753 J-	61,800 J
U4-MW-11I	10/10/2022	FD	EM02	UMCf	77.0 - 87.0	----	----	----	----	----	----	2,450,000	----	0.886	306,000 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	SW7199	SW9060A/SM5310B
						Sulfide	Temperature	Turbidity	Ethane	Ethene	Methane	Total Dissolved Solids	Solids, Percent	Chromium, Hexavalent	Total Organic Carbon
						mg/L	C	NTU	µg/L	µg/L	µg/L	µg/L	Percent	µg/L	µg/L
U4-MW-11I	10/31/2022	N	EM03	UMCf	77.0 - 87.0	0.6	23.3	36.5	----	----	----	2,390,000	----	1.95	364,000
U4-MW-11I	10/31/2022	FD	EM03	UMCf	77.0 - 87.0	----	----	----	----	----	----	2,340,000	----	2.25	370,000
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	----	1.79 J	55,800 J
U4-MW-11I	12/6/2022	FD	EM04	UMCf	77.0 - 87.0	----	----	----	<4.07 UJ	<4.26 UJ	5,360	2,610,000	----	0.403 J	276,000 J
U4-MW-11I	1/12/2023	N	EM05	UMCf	77.0 - 87.0	0.0 U	23.3	169.3	----	----	----	1,610,000	----	0.800	189,000 J-
U4-MW-11I	1/12/2023	FD	EM05	UMCf	77.0 - 87.0	----	----	----	----	----	----	1,750,000	----	0.556	195,000 J-
U4-MW-11I	2/14/2023	N	EM06	UMCf	77.0 - 87.0	0.0 U	20.1	50.9	----	----	----	8,560,000	----	<0.150	165,000
U4-MW-11I	2/14/2023	FD	EM06	UMCf	77.0 - 87.0	----	----	----	----	----	----	7,900,000	----	0.324 J	186,000
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	----	<0.150 UJ	188,000 J-
U4-MW-11I	3/16/2023	FD	EM07	UMCf	77.0 - 87.0	----	----	----	<4.07	<4.26	21,400	2,030,000	----	<0.150 UJ	197,000 J-
U4-MW-11I	4/18/2023	N	EM08	UMCf	77.0 - 87.0	0.5	24.3	377.3	----	----	----	1,950,000	----	<0.150	146,000 J-
U4-MW-11I	4/18/2023	FD	EM08	UMCf	77.0 - 87.0	----	----	----	----	----	----	2,070,000	----	0.158 J	147,000
U4-MW-11I	5/19/2023	N	EM09	UMCf	77.0 - 87.0	0.0 U	26.7	1679.2	----	----	----	2,390,000	----	<0.150 R	89,600 J-
U4-MW-11I	5/19/2023	FD	EM09	UMCf	77.0 - 87.0	----	----	----	----	----	----	2,430,000	----	<0.150 R	89,600 J-
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	----	<0.150	103,000
U4-MW-11I	6/15/2023	FD	EM10	UMCf	77.0 - 87.0	----	----	----	<4.07	<4.26	24,000	1,910,000	----	<0.150	103,000
U4-MW-11I	7/13/2023	N	EM11	UMCf	77.0 - 87.0	2.4	27.1	39.7	----	----	----	2,070,000 J	----	<0.150	79,100 J-
U4-MW-11I	7/13/2023	FD	EM11	UMCf	77.0 - 87.0	----	----	----	----	----	----	2,070,000 J	----	<0.150	82,900 J-
U4-MW-11I	8/14/2023	N	EM12	UMCf	77.0 - 87.0	0 U	27	69.7	----	----	----	9,340,000	----	556	11,700
U4-MW-11I	8/14/2023	FD	EM12	UMCf	77.0 - 87.0	----	----	----	----	----	----	10,100,000	----	299	12,800
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	----	2,050	12,500
U4-MW-11I	9/13/2023	FD	EM13	UMCf	77.0 - 87.0	----	----	----	<4.07	<4.26	21,000	7,060,000	----	2,050	12,000
U4-MW-11I	10/19/2023	N	EM14	UMCf	77.0 - 87.0	0 U	24.5	115.7	----	----	----	19,800,000 J-	----	29,500	10,500
U4-MW-11I	10/19/2023	FD	EM14	UMCf	77.0 - 87.0	----	----	----	----	----	----	16,200,000 J-	----	29,500	10,700
U4-MW-11I	11/16/2023	N	EM15	UMCf	77.0 - 87.0	0 U	24.5	103.5	----	----	----	10,900,000 J	----	19,200	13,400
U4-MW-11I	11/16/2023	FD	EM15	UMCf	77.0 - 87.0	----	----	----	----	----	----	16,500,000 J	----	19,600	13,500
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	----	17,900	14,100
U4-MW-11I	12/13/2023	FD	EM16	UMCf	77.0 - 87.0	----	----	----	<4.07	<4.26	20,100	11,200,000	----	17,800	14,300
U4-MW-11I	1/25/2024	N	EM17	UMCf	77.0 - 87.0	0.0 U	19.6	85.5	----	----	----	11,400,000	----	19,400	13,700
U4-MW-11I	1/25/2024	FD	EM17	UMCf	77.0 - 87.0	----	----	----	----	----	----	12,900,000	----	19,400	13,900
U4-MW-11I	2/14/2024	N	EM18	UMCf	77.0 - 87.0	0.0 U	20.2	96.6	----	----	----	14,700,000 J	----	19,100	11,900
U4-MW-11I	2/14/2024	FD	EM18	UMCf	77.0 - 87.0	----	----	----	----	----	----	10,500,000 J	----	19,000	15,400
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	----	20,700 J-	13,700
U4-MW-11I	3/13/2024	FD	EM19	UMCf	77.0 - 87.0	----	----	----	<4.07	<4.26	15,200	10,300,000	----	20,900 J-	13,500
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	----	21,400	10,200
U4-MW-11I	6/12/2024	FD	EM20	UMCf	77.0 - 87.0	----	----	----	<4.07	<4.26	17,200	18,500,000	----	20,900	10,200
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	----	63,700 J-	1,440 J+
U4-MW-12D	9/27/2022	N	EM01	UMCf	97.1 - 107.1	0.0 U	27.2	97.6	----	----	----	14,900,000	----	41,900	903 J
U4-MW-12D	10/12/2022	N	EM02	UMCf	97.1 - 107.1	0.0 U	23.4	141.7	----	----	----	19,300,000 J-	----	50,700	1,020 J+
U4-MW-12D	11/2/2022	N	EM03	UMCf	97.1 - 107.1	0.0 U	20.8	84.0	----	----	----	16,600,000	----	47,900	469 J
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	----	39,900	2,090 J+
U4-MW-12D	1/12/2023	N	EM05	UMCf	97.1 - 107.1	0.0 U	21.3	23.7	----	----	----	14,300,000	----	39,300	1,970 J+
U4-MW-12D	2/15/2023	N	EM06	UMCf	97.1 - 107.1	0.0 U	22.0	44.6	----	----	----	13,800,000	----	37,000 J-	2,920

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	SW7199	SW9060A/SM5 310B
						Sulfide	Temperature	Turbidity	Ethane	Ethene	Methane	Total Dissolved Solids	Solids, Percent	Chromium, Hexavalent	Total Organic Carbon
						mg/L	C	NTU	µg/L	µg/L	µg/L	µg/L	Percent	µg/L	µg/L
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	----	28,700	34,300
U4-MW-12D	4/17/2023	N	EM08	UMCf	97.1 - 107.1	0.0 U	27.5	32.0	----	----	----	9,900,000	----	43,400	14,800
U4-MW-12D	5/17/2023	N	EM09	UMCf	97.1 - 107.1	0.0 U	28.5	33.5	----	----	----	21,200,000	----	46,500	5,670 J+
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	----	35,200	2,000
U4-MW-12D	7/13/2023	N	EM11	UMCf	97.1 - 107.1	0.0 U	33.1	27.3	----	----	----	8,720,000	----	16,800	13,700
U4-MW-12D	8/14/2023	N	EM12	UMCf	97.1 - 107.1	0 U	28	87.7	----	----	----	7,950,000	----	15,600	3,810
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	----	11,900	7,900
U4-MW-12D	10/17/2023	N	EM14	UMCf	97.1 - 107.1	0 U	24.4	405.8	----	----	----	6,920,000	----	9,270 J-	98,800
U4-MW-12D	11/15/2023	N	EM15	UMCf	97.1 - 107.1	0 U	24.6	250.4	----	----	----	7,110,000	----	8,440	158,000
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	----	8,390	328,000
U4-MW-12D	1/24/2024	N	EM17	UMCf	97.1 - 107.1	0.0 U	16.3	15.9	----	----	----	8,410,000	----	7,750	513,000
U4-MW-12D	2/13/2024	N	EM18	UMCf	97.1 - 107.1	0.0 U	16.5	24.5	----	----	----	5,160,000	----	6,060	551,000
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	----	6,950	351,000
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	----	15,400	47,700
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	----	21,200	1,630 J
U4-MW-12I	4/14/2022	FD	BL02	UMCf	76.8 - 86.8	----	----	----	<4.07	<4.26	<2.91	8,670,000	----	19,400	1,930 J
U4-MW-12I	9/27/2022	N	EM01	UMCf	76.8 - 86.8	0.0 U	27.4	70.6	----	----	----	2,360,000	----	2,880 J-	1,440 J+
U4-MW-12I	10/12/2022	N	EM02	UMCf	76.8 - 86.8	0.0 U	23.5	343.0	----	----	----	2,410,000 J-	----	2,060	4,410 J+
U4-MW-12I	11/2/2022	N	EM03	UMCf	76.8 - 86.8	0.0 U	22.6	123.8	----	----	----	4,360,000	----	1,520	11,100
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	----	<0.150 UJ	95,000
U4-MW-12I	12/7/2022	FD	EM04	UMCf	76.8 - 86.8	----	----	----	<4.07	<4.26	1,110	----	----	2.33 J	84,500
U4-MW-12I	1/13/2023	N	EM05	UMCf	76.8 - 86.8	0.0 U	----	----	----	----	----	1,580,000	----	0.446 J	229,000
U4-MW-12I	2/15/2023	N	EM06	UMCf	76.8 - 86.8	0.0 U	20.6	2.3	----	----	----	3,010,000	----	<7.50 UJ	356,000
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	----	<1.50	407,000 J-
U4-MW-12I	4/17/2023	N	EM08	UMCf	76.8 - 86.8	0.4	26.1	18.8	----	----	----	2,040,000	----	<0.150	354,000
U4-MW-12I	5/17/2023	N	EM09	UMCf	76.8 - 86.8	0.4	27.6	10.9	----	----	----	3,020,000	----	<0.150	374,000 J-
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	----	<0.150	189,000
U4-MW-12I	7/11/2023	N	EM11	UMCf	76.8 - 86.8	0.4	30.0	43.8	----	----	----	2,250,000 J	----	<0.150	126,000 J-
U4-MW-12I	8/14/2023	N	EM12	UMCf	76.8 - 86.8	0 U	27.7	30.6	----	----	----	4,790,000	----	372	6,100
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	----	1.65	14,300
U4-MW-12I	10/17/2023	N	EM14	UMCf	76.8 - 86.8	0.4	24.6	159.1	----	----	----	2,280,000 J-	----	0.720 J-	123,000
U4-MW-12I	11/16/2023	N	EM15	UMCf	76.8 - 86.8	0 U	23.4	64.4	----	----	----	4,940,000	----	<0.150	13,700
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	----	143 J-	16,000
U4-MW-12I	1/24/2024	N	EM17	UMCf	76.8 - 86.8	0.0 U	18.1	163.7	----	----	----	5,990,000	----	104	36,500
U4-MW-12I	2/13/2024	N	EM18	UMCf	76.8 - 86.8	0.0 U	16.8	298.2	----	----	----	6,100,000 J-	----	192	24,900
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	----	673	12,900
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	----	11,900	7,990 J+
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	----	56,200	1,640 J
U4-MW-13D	9/28/2022	N	EM01	UMCf	98.2 - 108.2	0.0 U	28.9	50.9	----	----	----	6,280,000 J+	----	45,000	58,400
U4-MW-13D	10/11/2022	N	EM02	UMCf	98.2 - 108.2	0.0 U	23.5	22.7	----	----	----	6,140,000	----	19,800	55,200
U4-MW-13D	11/3/2022	N	EM03	UMCf	98.2 - 108.2	0.0 U	21.5	138.4	----	----	----	9,360,000 J	----	1,860	7,010
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	----	16,100	2,790 J+
U4-MW-13D	1/12/2023	N	EM05	UMCf	98.2 - 108.2	0.0 U	21.4	76.1	----	----	----	5,460,000	----	15,100	2,110 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	SW7199	SW9060A/SM5 310B
						Sulfide	Temperature	Turbidity	Ethane	Ethene	Methane	Total Dissolved Solids	Solids, Percent	Chromium, Hexavalent	Total Organic Carbon
						mg/L	C	NTU	µg/L	µg/L	µg/L	µg/L	Percent	µg/L	µg/L
U4-MW-13D	2/15/2023	N	EM06	UMCf	98.2 - 108.2	0.0 U	20.6	58.9	----	----	----	6,380,000	----	15,600 J-	2,000 J+
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	----	14,200	1,730 J+
U4-MW-13D	4/18/2023	N	EM08	UMCf	98.2 - 108.2	0.0 U	26.3	119.0	----	----	----	5,400,000	----	9,530	1,240
U4-MW-13D	5/17/2023	N	EM09	UMCf	98.2 - 108.2	0.0 U	29.8	63.6	----	----	----	4,570,000	----	8,150	1,670
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	----	8,680	2,210 J+
U4-MW-13D	7/12/2023	N	EM11	UMCf	98.2 - 108.2	0.0 U	32.5	67.5	----	----	----	4,940,000	----	8,450	3,020
U4-MW-13D	8/11/2023	N	EM12	UMCf	98.2 - 108.2	0 U	27.8	225.5	----	----	----	5,220,000	----	10,400	2,050 J+
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	----	12,500	1,750 J+
U4-MW-13D	10/18/2023	N	EM14	UMCf	98.2 - 108.2	0 U	24.8	179.3	----	----	----	6,860,000	----	13,600	2,510 J+
U4-MW-13D	11/15/2023	N	EM15	UMCf	98.2 - 108.2	0 U	24.5	214.3	----	----	----	7,950,000 J-	----	13,400	2,810
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	----	14,300	2,810 J+
U4-MW-13D	1/23/2024	N	EM17	UMCf	98.2 - 108.2	0.0 U	18.2	141.3	----	----	----	7,630,000	----	14,300	2,580
U4-MW-13D	2/12/2024	N	EM18	UMCf	98.2 - 108.2	0.0 U	17.4	77.6	----	----	----	5,030,000	----	14,200	3,170 J+
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	----	13,700	2,410 J+
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	----	16,900	2,300 J+
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	----	21,900	1,080 J+
U4-MW-13I	9/28/2022	N	EM01	UMCf	77.1 - 87.1	0.0 U	27.2	70.5	----	----	----	2,540,000 J+	----	17,000	2,450 J+
U4-MW-13I	10/10/2022	N	EM02	UMCf	77.1 - 87.1	0.0 U	27.9	142.6	----	----	----	2,660,000	----	8,000	1,900 J
U4-MW-13I	11/3/2022	N	EM03	UMCf	77.1 - 87.1	0.0 U	20.1	119.3	----	----	----	3,340,000 J	----	5,840 J-	2,000 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	----	<0.150 UJ	37,400
U4-MW-13I	1/12/2023	N	EM05	UMCf	77.1 - 87.1	0.0 U	20.1	118.8	----	----	----	1,960,000	----	4.48	67,800
U4-MW-13I	2/14/2023	N	EM06	UMCf	77.1 - 87.1	0.0 U	20.7	552.4	----	----	----	3,420,000	----	0.250 J	43,400
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	----	1.05 J	43,900
U4-MW-13I	4/19/2023	N	EM08	UMCf	77.1 - 87.1	0.4	23.5	23.1	----	----	----	1,690,000	----	0.606	25,800 J-
U4-MW-13I	5/17/2023	N	EM09	UMCf	77.1 - 87.1	0.4	29.7	55.5	----	----	----	1,970,000	----	0.178 J	19,800
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	----	0.559	21,100
U4-MW-13I	7/12/2023	N	EM11	UMCf	77.1 - 87.1	0.0 U	35.1	121.0	----	----	----	1,580,000 J	----	99.0	21,300
U4-MW-13I	8/11/2023	N	EM12	UMCf	77.1 - 87.1	0 U	35.2	174.7	----	----	----	5,810,000	----	9,230	2,880 J+
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	----	13,100	2,560 J+
U4-MW-13I	10/17/2023	N	EM14	UMCf	77.1 - 87.1	0 U	25.5	136.9	----	----	----	8,440,000 J-	----	15,300	2,780
U4-MW-13I	11/15/2023	N	EM15	UMCf	77.1 - 87.1	0 U	24.0	5951.8	----	----	----	9,010,000 J-	----	16,500	2,840
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	----	18,900	3,260 J+
U4-MW-13I	1/23/2024	N	EM17	UMCf	77.1 - 87.1	0.0 U	16.1	9392.9	----	----	----	9,860,000	----	20,500	3,080
U4-MW-13I	2/12/2024	N	EM18	UMCf	77.1 - 87.1	0.0 U	16.8	5590.5	----	----	----	8,220,000	----	19,600	3,230 J+
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	----	20,900	2,260 J+
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	----	20,500	3,220 J+
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	----	239	1,220 J+
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	----	5,860	570 J
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	----	4,450	1,010 J+
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	----	3,980	1,710 J+
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	----	2,670	6,160
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	----	26,300	5,390
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	----	2,630	8,790

Table 2
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 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	SW7199	SW9060A/SM5310B
						Sulfide	Temperature	Turbidity	Ethane	Ethene	Methane	Total Dissolved Solids	Solids, Percent	Chromium, Hexavalent	Total Organic Carbon
						mg/L	C	NTU	µg/L	µg/L	µg/L	µg/L	Percent	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	----	2,410	2,930 J+
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	----	2,270	1,090 J+
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	----	4,360 J-	786 J
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	----	4,560	1,030 J+
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	----	782	3,660
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	----	2,240	4,970
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	----	2,160	8,570
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	----	2,110	6,420
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	----	27,500	4,320
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	----	5,240	1,240 J
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	----	3,380 J-	922 J
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	----	3,630	362 J
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	----	4,490	818 J
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	----	3,270	447 J
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	----	3,380	1,180 J+
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	----	3,260	743 J
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	----	2,560	306 J
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	----	67.5	532 J
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	----	14.5	505 J
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	----	12.5 J-	224 J
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	----	2.29 J	337 J
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	----	0.817	109 J
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	----	4.37	<102
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	----	1.09	111 J
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	----	6.99	<102
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	----	5,010	1,440 J
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	----	4,730 J-	60,700
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	----	2.22	565,000
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	----	<0.750	306,000 J-
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	----	6.35	11,900
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	----	768	38,500
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	----	4,610	6,880
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	----	4,150	11,200
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	----	262	848 J
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	----	0.995	499,000
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	----	<0.150	116,000 J-
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	----	<15.0	95,700 J-
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	----	<0.150	41,400 J-
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	----	<150	28,500 J-
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	----	<15.0	24,600 J-
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	----	<0.150	25,100
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	----	<0.200	8,680
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	----	61,300	1,340 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	SW7199	SW9060A/SM5 310B
						Sulfide	Temperature	Turbidity	Ethane	Ethene	Methane	Total Dissolved Solids	Solids, Percent	Chromium, Hexavalent	Total Organic Carbon
						mg/L	C	NTU	µg/L	µg/L	µg/L	µg/L	Percent	µg/L	µg/L
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	----	21,900	3,980 J+
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	----	13,800	25,100
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	----	38,700	10,500 J+
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-	----	17,600	4,300
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	----	17,900	463 J
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	----	15,000	1,940
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-	----	23,700	1,160 J+
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	----	682	827 J
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	----	215 J-	852 J
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	----	149 J-	1,350 J+
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	----	183	825 J
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	----	153	151 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	----	89.1	128 J
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	----	9.19	<102
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	----	12.9	1,270 J+
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	----	9,350	950 J
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	----	0.467 J	515,000
U4-MW-16I	12/5/2022	FD	EM04	UMCf	77.0 - 87.0	----	----	----	<4.07	<4.26	3,090	2,000,000	----	0.735	515,000
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	----	<0.750 UJ	747,000 J-
U4-MW-16I	3/13/2023	FD	EM07	UMCf	77.0 - 87.0	----	----	----	<4.07	<4.26	26,500	2,980,000	----	<0.750	731,000 J-
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	----	<1.50	363,000 J-
U4-MW-16I	6/12/2023	FD	EM10	UMCf	77.0 - 87.0	----	----	----	<4.07	<4.26	32,700	2,130,000 J	----	<1.50	372,000 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	----	14,100	6,750
U4-MW-16I	9/11/2023	FD	EM13	UMCf	77.0 - 87.0	----	----	----	<4.07	<4.26	22,500	13,200,000	----	14,100	6,830
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	----	29,500	3,990 J+
U4-MW-16I	12/11/2023	FD	EM16	UMCf	77.0 - 87.0	----	----	----	<4.07	<4.26	16,500	12,100,000	----	29,600	4,090 J+
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	----	31,400	2,880 J+
U4-MW-16I	3/11/2024	FD	EM19	UMCf	77.0 - 87.0	----	----	----	<4.07	<4.26	14,600	18,800,000	----	31,500	2,970 J+
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	----	21,200	3,550
U4-MW-16I	6/18/2024	FD	EM20	UMCf	77.0 - 87.0	----	----	----	<4.07	<4.26	14,300	9,760,000	----	20,900	3,320
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	----	365 J-	1,070 J+
U4-MW-16S	4/12/2022	FD	BL02	UMCf	54.8 - 64.8	----	----	----	<4.07	<4.26	<2.91	2,000,000	----	361 J-	931 J
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	----	50.6	23,300
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	----	<0.150 UJ	726,000
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	----	<0.150	710,000 J-
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	----	<0.150	41,600
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	----	<0.150	140,000
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	----	<3.00	240,000
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	----	<0.200	32,300
U4-SLMW	11/10/2022	N	EM03		-	----	----	----	----	----	----	588,000	----	<0.150	3,660 J+
U4-T3	10/13/2022	N	EM02		-	----	----	----	----	----	----	16,100,000 J-	----	38,400	114,000
U4-T3	11/3/2022	N	EM03		-	----	20.4	169.1	----	----	----	15,400,000	----	36,900	61,500
U4-T3	12/6/2022	N	EM04		-	----	21.4	30.1	----	----	----	12,600,000	----	25,100 J-	76,300

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	SW7199	SW9060A/SM5 310B
						Sulfide	Temperature	Turbidity	Ethane	Ethene	Methane	Total Dissolved Solids	Solids, Percent	Chromium, Hexavalent	Total Organic Carbon
						mg/L	C	NTU	µg/L	µg/L	µg/L	µg/L	Percent	µg/L	µg/L
U4-T3	1/9/2023	N	EM05		-	----	19.9	0.0	----	----	----	12,200,000	----	37,400	17,100
U4-T3	2/13/2023	N	EM06		-	----	23.6	3.3	----	----	----	13,200,000	----	36,600	17,700
U4-T3	3/13/2023	N	EM07		-	----	23.5	1.9	----	----	----	11,700,000	----	39,800	2,980 J+
U4-T3	4/19/2023	N	EM08		-	----	22.6	3.7	----	----	----	7,080,000	----	14,900	31,800
U4-T3	5/18/2023	N	EM09		-	----	30.9	5.5	----	----	----	10,800,000	----	20,400	89,500
U4-T3	6/12/2023	N	EM10		-	----	33.8	1.9	----	----	----	9,060,000	----	20,700	150,000
U4-T3	7/11/2023	N	EM11		-	----	35.0	111.4	----	----	----	9,260,000 J-	----	9,780	388,000
U4-T3	8/10/2023	N	EM12		-	----	36.3	38.6	----	----	----	3,850,000	----	4.61	278,000
U4-T3	9/11/2023	N	EM13		-	----	29.2	95.4	----	----	----	6,800,000	----	57.0	1,400,000
U4-T3	10/16/2023	N	EM14		-	----	36.5	45.8	----	----	----	3,840,000 J-	----	2.08 J-	324,000

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 sample quantitation limit.

-- 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.

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
						1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,1,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethane	1,1-Dichloropropane	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene
						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	<0.147	<0.149	<0.133	<0.158	0.204 J	0.484 J	<0.142	<0.230	0.428 J	<0.481
M-251-100	10/13/2022	N	EM02	UMCf	92.5 - 102.5	<0.147	<0.149	<0.133	<0.158	<0.100	0.398 J	0.297 J	<0.230	<0.237	<0.481
M-251-100	11/2/2022	N	EM03	UMCf	92.5 - 102.5	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30	<2.37	<4.81
M-251-100	12/8/2022	N	EM04	UMCf	92.5 - 102.5	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
M-251-100	1/11/2023	N	EM05	UMCf	92.5 - 102.5	<0.147	<0.149	<0.133	<0.158	<0.100	0.206 J	<0.142	<0.230	<0.237	<0.481
M-251-100	2/13/2023	N	EM06	UMCf	92.5 - 102.5	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	0.158 J	<0.230	<0.237	<0.481
M-251-100	3/17/2023	N	EM07	UMCf	92.5 - 102.5	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5	<11.9	<24.1
M-251-100	4/21/2023	N	EM08	UMCf	92.5 - 102.5	<0.147	<0.149	<0.133	<0.158	<0.100	0.195 J	0.194 J	<0.230	<0.237	<0.481
M-251-100	5/9/2023	N	EM09	UMCf	92.5 - 102.5	<0.147	<0.149	<0.133	<0.158	<0.100	0.242 J	<0.142	<0.230	<0.237	<0.481
M-251-100	6/14/2023	N	EM10	UMCf	92.5 - 102.5	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5	<11.9	<24.1
M-251-100	7/14/2023	N	EM11	UMCf	92.5 - 102.5	<0.147	<0.149	<0.133	<0.158	<0.100	0.228 J	0.251 J	<0.230	<0.237	<0.481
M-251-100	8/10/2023	N	EM12	UMCf	92.5 - 102.5	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
M-251-100	9/14/2023	N	EM13	UMCf	92.5 - 102.5	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
M-251-100	10/19/2023	N	EM14	UMCf	92.5 - 102.5	<0.147	<0.149	<0.133	<0.158	<0.100	0.276 J	<0.142	<0.230	<0.237	<0.481
M-251-100	11/16/2023	N	EM15	UMCf	92.5 - 102.5	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5	<11.9	<24.1
M-251-100	12/12/2023	N	EM16	UMCf	92.5 - 102.5	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
M-251-100	1/25/2024	N	EM17	UMCf	92.5 - 102.5	<0.147	<0.149	<0.133	<0.158	<0.100	0.200 J	<0.142	<0.230	<0.237	<0.481
M-251-100	2/13/2024	N	EM18	UMCf	92.5 - 102.5	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5	<11.9	<24.1
M-251-100	3/11/2024	N	EM19	UMCf	92.5 - 102.5	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5	<11.9	<24.1
M-251-100	6/17/2024	N	EM20	UMCf	92.5 - 102.5	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5	<11.9	<24.1
M-251-60	4/18/2022	N	BL02	UMCf	52.3 - 62.3	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
M-251-60	3/15/2023	N	EM07	UMCf	52.3 - 62.3	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
M-251-60	6/14/2023	N	EM10	UMCf	52.3 - 62.3	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
M-251-60	9/14/2023	N	EM13	UMCf	52.3 - 62.3	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
M-251-60	12/11/2023	N	EM16	UMCf	52.3 - 62.3	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
M-251-60	3/12/2024	N	EM19	UMCf	52.3 - 62.3	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
M-251-60	6/19/2024	N	EM20	UMCf	52.3 - 62.3	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
M-252	4/21/2022	N	BL02	UMCf	132.3 - 142.3	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
M-252	3/15/2023	N	EM07	UMCf	132.3 - 142.3	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
M-252	9/19/2023	N	EM13	UMCf	132.3 - 142.3	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
M-252	12/18/2023	N	EM16	UMCf	132.3 - 142.3	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
M-252	3/12/2024	N	EM19	UMCf	132.3 - 142.3	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
M-252	6/19/2024	N	EM20	UMCf	132.3 - 142.3	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
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	<0.735	<0.745	<0.665	<0.790	<0.500	<0.940	<0.710	<1.15	<1.19	<2.41
U4-E-01D	3/14/2023	N	EM07	UMCf	94.7 - 109.7	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-E-01D	6/20/2024	N	EM20	UMCf	94.7 - 109.7	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30 UJ	<2.37	<4.81
U4-E-01I	4/19/2022	N	BL02	UMCf	74.6 - 89.6	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-E-01I	4/19/2022	FD	BL02	UMCf	74.6 - 89.6	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-E-01I	3/14/2023	N	EM07	UMCf	74.6 - 89.6	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481

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
						1,1,1,2-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	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene
						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	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481 UJ
U4-E-01I	5/10/2023	N	EM09	UMCf	74.6 - 89.6	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-E-01I	6/12/2023	N	EM10	UMCf	74.6 - 89.6	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230 UJ	<0.237	<0.481
U4-E-01I	7/11/2023	N	EM11	UMCf	74.6 - 89.6	<0.735	<0.745	<0.665	<0.790	<0.500	<0.940	<0.710	<1.15	<1.19	<2.41
U4-E-01I	8/10/2023	N	EM12	UMCf	74.6 - 89.6	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-E-01I	9/11/2023	N	EM13	UMCf	74.6 - 89.6	<0.735	<0.745	<0.665	<0.790	<0.500	<0.940	<0.710	<1.15	<1.19	<2.41
U4-E-01I	10/16/2023	N	EM14	UMCf	74.6 - 89.6	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-E-01I	12/13/2023	N	EM16	UMCf	74.6 - 89.6	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30	<2.37	<4.81
U4-E-01I	1/24/2024	N	EM17	UMCf	74.6 - 89.6	<2.94	<2.98	<2.66	<3.16	<2.00	<3.76	<2.84	<4.60	<4.74	<9.62
U4-E-01I	2/14/2024	N	EM18	UMCf	74.6 - 89.6	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30	<2.37	<4.81
U4-E-01I	3/12/2024	N	EM19	UMCf	74.6 - 89.6	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30	<2.37	<4.81
U4-E-01I	6/20/2024	N	EM20	UMCf	74.6 - 89.6	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30	<2.37	<4.81
U4-E-02D	4/20/2022	N	BL02	UMCf	94.4 - 109.4	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-E-02D	3/14/2023	N	EM07	UMCf	94.4 - 109.4	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-E-02D	6/19/2024	N	EM20	UMCf	94.4 - 109.4	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30	<2.37	<4.81
U4-E-02I	4/18/2022	N	BL02	UMCf	74.4 - 89.4	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-E-02I	3/14/2023	N	EM07	UMCf	74.4 - 89.4	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-E-02I	4/20/2023	N	EM08	UMCf	74.4 - 89.4	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481 UJ
U4-E-02I	5/11/2023	N	EM09	UMCf	74.4 - 89.4	<0.147 UJ	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-E-02I	6/12/2023	N	EM10	UMCf	74.4 - 89.4	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230 UJ	<0.237	<0.481
U4-E-02I	7/11/2023	N	EM11	UMCf	74.4 - 89.4	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-E-02I	8/10/2023	N	EM12	UMCf	74.4 - 89.4	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-E-02I	9/11/2023	N	EM13	UMCf	74.4 - 89.4	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-E-02I	10/16/2023	N	EM14	UMCf	74.4 - 89.4	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30	<2.37	<4.81
U4-E-02I	12/14/2023	N	EM16	UMCf	74.4 - 89.4	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30	<2.37	<4.81
U4-E-02I	1/22/2024	N	EM17	UMCf	74.4 - 89.4	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-E-02I	2/13/2024	N	EM18	UMCf	74.4 - 89.4	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-E-02I	3/13/2024	N	EM19	UMCf	74.4 - 89.4	<3.68	<3.73	<3.33	<3.95	<2.50	<4.70	<3.55	<5.75	<5.93	<12.0
U4-E-02I	6/19/2024	N	EM20	UMCf	74.4 - 89.4	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0	<23.7	<48.1
U4-E-03D	4/19/2022	N	BL02	UMCf	95.1 - 110.1	<0.147	<0.149	<0.133	<0.158	0.126 J	0.465 J	<0.142	<0.230	0.293 J	<0.481
U4-E-03D	10/13/2022	N	EM02	UMCf	95.1 - 110.1	<29.4	<29.8	<26.6	<31.6	<20.0	<37.6	<28.4	<46.0	<47.4	<96.2
U4-E-03D	11/3/2022	N	EM03	UMCf	95.1 - 110.1	<0.147	<0.149	<0.133	<0.158	<0.100	0.481 J	0.479 J	<0.230	<0.237	<0.481
U4-E-03D	12/6/2022	N	EM04	UMCf	95.1 - 110.1	<2.94 UJ	<2.98 UJ	<2.66 UJ	<3.16 UJ	<2.00 UJ	<3.76 UJ	<2.84 UJ	<4.60 UJ	<4.74 UJ	<9.62 UJ
U4-E-03D	1/9/2023	N	EM05	UMCf	95.1 - 110.1	<0.147	<0.149	<0.133	<0.158	<0.100	0.264 J	0.273 J	<0.230	<0.237	<0.481
U4-E-03D	2/13/2023	N	EM06	UMCf	95.1 - 110.1	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0	<23.7	<48.1
U4-E-03D	3/13/2023	N	EM07	UMCf	95.1 - 110.1	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0	<23.7	<48.1
U4-E-03D	3/14/2023	N	EM07	UMCf	95.1 - 110.1	<29.4	<29.8	<26.6	<31.6	<20.0	<37.6	<28.4	<46.0	<47.4	<96.2
U4-E-03D	4/19/2023	N	EM08	UMCf	95.1 - 110.1	<0.735	<0.745	<0.665	<0.790	<0.500	<0.940	<0.710	<1.15	<1.19	<2.41
U4-E-03D	5/11/2023	N	EM09	UMCf	95.1 - 110.1	<0.147 UJ	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-E-03D	6/12/2023	N	EM10	UMCf	95.1 - 110.1	<0.147	<0.149	<0.133	<0.158	<0.100	0.331 J	0.346 J	<0.230 UJ	<0.237	<0.481
U4-E-03D	7/11/2023	N	EM11	UMCf	95.1 - 110.1	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	0.275 J	<0.230	<0.237	<0.481
U4-E-03D	8/10/2023	N	EM12	UMCf	95.1 - 110.1	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-E-03D	9/11/2023	N	EM13	UMCf	95.1 - 110.1	<0.147	<0.149	<0.133	<0.158	<0.100	0.270 J	0.373 J	<0.230	<0.237	<0.481

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
						1,1,1,2-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	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-E-03D	10/16/2023	N	EM14	UMCf	95.1 - 110.1	<29.4	<29.8	<26.6	<31.6	<20.0	<37.6	<28.4	<46.0	<47.4	<96.2
U4-E-03D	6/10/2024	N	EM20	UMCf	95.1 - 110.1	<2.94	<2.98	<2.66	<3.16	<2.00	<3.76	<2.84	<4.60	<4.74	<9.62
U4-E-03D	6/10/2024	FD	EM20	UMCf	95.1 - 110.1	<2.94	<2.98	<2.66	<3.16	<2.00	<3.76	<2.84	<4.60	<4.74	<9.62
U4-E-04D	4/19/2022	N	BL02	UMCf	95.0 - 110.0	<0.147	<0.149	<0.133	<0.158	<0.100	0.223 J	<0.142	<0.230	<0.237	<0.481
U4-E-04D	3/14/2023	N	EM07	UMCf	95.0 - 110.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-E-04D	6/20/2024	N	EM20	UMCf	95.0 - 110.0	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30	<2.37	<4.81
U4-E-04I	4/18/2022	N	BL02	UMCf	75.0 - 90.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-E-04I	3/14/2023	N	EM07	UMCf	75.0 - 90.0	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5	<11.9	<24.1
U4-E-04I	6/20/2024	N	EM20	UMCf	75.0 - 90.0	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30	<2.37	<4.81
U4-E-05D	4/19/2022	N	BL02	UMCf	95.0 - 110.0	<0.147	<0.149	<0.133	<0.158	<0.100	0.271 J	<0.142	<0.230	<0.237	<0.481
U4-E-05D	3/16/2023	N	EM07	UMCf	95.0 - 110.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-E-05D	6/10/2024	N	EM20	UMCf	95.0 - 110.0	<2.94	<2.98	<2.66	<3.16	<2.00	<3.76	<2.84	<4.60	<4.74	<9.62
U4-E-05I	4/19/2022	N	BL02	UMCf	75.0 - 90.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-E-05I	3/15/2023	N	EM07	UMCf	75.0 - 90.0	<0.147 UJ	<0.149 UJ	<0.133 UJ	<0.158 UJ	<0.100 UJ	<0.188 UJ	<0.142 UJ	<0.230 UJ	<0.237 UJ	<0.481 UJ
U4-E-05I	6/19/2024	N	EM20	UMCf	75.0 - 90.0	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5	<11.9	<24.1
U4-E-06D	4/11/2022	N	BL02	UMCf	95.1 - 110.1	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-E-06D	6/20/2024	N	EM20	UMCf	95.1 - 110.1	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30	<2.37	<4.81
U4-E-06I	4/11/2022	N	BL02	UMCf	73.2 - 88.2	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-E-06I	4/11/2022	FD	BL02	UMCf	73.2 - 88.2	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-E-06I	10/12/2022	N	EM02	UMCf	73.2 - 88.2	<0.147	<0.149	<0.133	<0.158	<0.100	0.210 J	0.258 J	<0.230	<0.237	<0.481
U4-E-06I	11/3/2022	N	EM03	UMCf	73.2 - 88.2	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	0.204 J	<0.230	<0.237	<0.481
U4-E-06I	12/6/2022	N	EM04	UMCf	73.2 - 88.2	<1.47 UJ	<1.49 UJ	<1.33 UJ	<1.58 UJ	<1.00 UJ	<1.88 UJ	<1.42 UJ	<2.30 UJ	<2.37 UJ	<4.81 UJ
U4-E-06I	1/9/2023	N	EM05	UMCf	73.2 - 88.2	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	0.224 J	<0.230	<0.237	<0.481
U4-E-06I	2/13/2023	N	EM06	UMCf	73.2 - 88.2	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0	<23.7	<48.1
U4-E-06I	3/13/2023	N	EM07	UMCf	73.2 - 88.2	<2.94	<2.98	<2.66	<3.16	<2.00	<3.76	<2.84	<4.60	<4.74	<9.62
U4-E-06I	4/17/2023	N	EM08	UMCf	73.2 - 88.2	<2.94	<2.98	<2.66	<3.16	<2.00	<3.76	<2.84	<4.60	<4.74	<9.62
U4-E-06I	5/15/2023	N	EM09	UMCf	73.2 - 88.2	<3.68	<3.73	<3.33	<3.95	<2.50	<4.70	<3.55	<5.75	<5.93	<12.0
U4-E-06I	6/12/2023	N	EM10	UMCf	73.2 - 88.2	<0.147	<0.149	<0.133	<0.158	<0.100	0.235 J	0.288 J	<0.230 UJ	<0.237	<0.481
U4-E-06I	7/11/2023	N	EM11	UMCf	73.2 - 88.2	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-E-06I	8/11/2023	N	EM12	UMCf	73.2 - 88.2	<0.735	<0.745	<0.665	<0.790	<0.500	<0.940	<0.710	<1.15	<1.19	<2.41
U4-E-06I	9/11/2023	N	EM13	UMCf	73.2 - 88.2	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-E-06I	10/16/2023	N	EM14	UMCf	73.2 - 88.2	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5	<11.9	<24.1
U4-E-06I	12/13/2023	N	EM16	UMCf	73.2 - 88.2	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-E-06I	1/22/2024	N	EM17	UMCf	73.2 - 88.2	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-E-06I	2/13/2024	N	EM18	UMCf	73.2 - 88.2	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5	<11.9	<24.1
U4-E-06I	3/11/2024	N	EM19	UMCf	73.2 - 88.2	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5	<11.9	<24.1
U4-E-06I	6/11/2024	N	EM20	UMCf	73.2 - 88.2	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-E-07D	4/12/2022	N	BL02	UMCf	94.6 - 109.6	<0.147	<0.149	<0.133	<0.158	<0.100	0.682 J	0.594 J	<0.230	0.393 J	<0.481
U4-E-07D	6/20/2024	N	EM20	UMCf	94.6 - 109.6	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30	<2.37	<4.81
U4-E-07I	4/12/2022	N	BL02	UMCf	74.7 - 89.7	<0.147	<0.149	<0.133	<0.158	0.122 J	0.424 J	<0.142	<0.230	<0.237	<0.481
U4-E-07I	10/11/2022	N	EM02	UMCf	74.7 - 89.7	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30	<2.37	<4.81
U4-E-07I	11/3/2022	N	EM03	UMCf	74.7 - 89.7	<0.147	<0.149	<0.133	<0.158	<0.100	0.225 J	0.316 J	<0.230	<0.237	<0.481
U4-E-07I	12/6/2022	N	EM04	UMCf	74.7 - 89.7	<3.68 UJ	<3.73 UJ	<3.33 UJ	<3.95 UJ	<2.50 UJ	<4.70 UJ	<3.55 UJ	<5.75 UJ	<5.93 UJ	<12.0 UJ

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
						1,1,1,2-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	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-E-07I	1/9/2023	N	EM05	UMCf	74.7 - 89.7	<0.147	<0.149	<0.133	<0.158	<0.100	0.281 J	<0.142	<0.230	<0.237	<0.481
U4-E-07I	2/13/2023	N	EM06	UMCf	74.7 - 89.7	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0	<23.7	<48.1
U4-E-07I	3/13/2023	N	EM07	UMCf	74.7 - 89.7	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0	<23.7	<48.1
U4-E-07I	4/19/2023	N	EM08	UMCf	74.7 - 89.7	<0.735	<0.745	<0.665	<0.790	<0.500	<0.940	<0.710	<1.15	<1.19	<2.41
U4-E-07I	5/15/2023	N	EM09	UMCf	74.7 - 89.7	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0	<23.7	<48.1
U4-E-07I	6/12/2023	N	EM10	UMCf	74.7 - 89.7	<0.147	<0.149	<0.133	<0.158	<0.100	0.315 J	0.338 J	<0.230 UJ	<0.237	<0.481
U4-E-07I	7/11/2023	N	EM11	UMCf	74.7 - 89.7	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-E-07I	8/11/2023	N	EM12	UMCf	74.7 - 89.7	<0.735	<0.745	<0.665	<0.790	<0.500	<0.940	<0.710	<1.15	<1.19	<2.41
U4-E-07I	9/11/2023	N	EM13	UMCf	74.7 - 89.7	<0.147	<0.149	<0.133	<0.158	<0.100	0.277 J	0.388 J	<0.230	<0.237	<0.481
U4-E-07I	10/16/2023	N	EM14	UMCf	74.7 - 89.7	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0	<23.7	<48.1
U4-E-07I	12/13/2023	N	EM16	UMCf	74.7 - 89.7	<0.147	<0.149	<0.133	<0.158	<0.100	0.275 J	0.428 J	<0.230	<0.237	<0.481
U4-E-07I	1/23/2024	N	EM17	UMCf	74.7 - 89.7	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-E-07I	2/13/2024	N	EM18	UMCf	74.7 - 89.7	<29.4	<29.8	<26.6	<31.6	<20.0	<37.6	<28.4	<46.0	<47.4	<96.2
U4-E-07I	3/11/2024	N	EM19	UMCf	74.7 - 89.7	<29.4	<29.8	<26.6	<31.6	<20.0	<37.6	<28.4	<46.0	<47.4	<96.2
U4-E-07I	6/11/2024	N	EM20	UMCf	74.7 - 89.7	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	0.290 J	<0.230	<0.237	<0.481
U4-E-08D	4/12/2022	N	BL02	UMCf	94.6 - 109.6	<0.147	<0.149	<0.133	<0.158	<0.100	0.759 J	0.631 J	<0.230	0.429 J	<0.481
U4-E-08D	10/11/2022	N	EM02	UMCf	94.6 - 109.6	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30	<2.37	<4.81
U4-E-08D	11/3/2022	N	EM03	UMCf	94.6 - 109.6	<0.147	<0.149	<0.133	<0.158	<0.100	0.501 J	0.528 J	<0.230	<0.237	<0.481
U4-E-08D	12/6/2022	N	EM04	UMCf	94.6 - 109.6	<3.68 UJ	<3.73 UJ	<3.33 UJ	<3.95 UJ	<2.50 UJ	<4.70 UJ	<3.55 UJ	<5.75 UJ	<5.93 UJ	<12.0 UJ
U4-E-08D	1/9/2023	N	EM05	UMCf	94.6 - 109.6	<0.147	<0.149	<0.133	<0.158	<0.100	0.285 J	0.335 J	<0.230	<0.237	<0.481
U4-E-08D	2/13/2023	N	EM06	UMCf	94.6 - 109.6	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0	<23.7	<48.1
U4-E-08D	3/13/2023	N	EM07	UMCf	94.6 - 109.6	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0	<23.7	<48.1
U4-E-08D	4/19/2023	N	EM08	UMCf	94.6 - 109.6	<0.735	<0.745	<0.665	<0.790	<0.500	<0.940	<0.710	<1.15	<1.19	<2.41
U4-E-08D	5/17/2023	N	EM09	UMCf	94.6 - 109.6	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0	<23.7	<48.1
U4-E-08D	6/12/2023	N	EM10	UMCf	94.6 - 109.6	<0.147	<0.149	<0.133	<0.158	<0.100	0.250 J	0.284 J	<0.230 UJ	<0.237	<0.481
U4-E-08D	7/11/2023	N	EM11	UMCf	94.6 - 109.6	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-E-09D	4/15/2022	N	BL02	UMCf	94.5 - 109.5	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481 UJ
U4-E-09D	6/10/2024	N	EM20	UMCf	94.5 - 109.5	<2.94	<2.98	<2.66	<3.16	<2.00	<3.76	<2.84	<4.60	<4.74	<9.62
U4-E-09I	4/14/2022	N	BL02	UMCf	74.9 - 89.9	<0.147	<0.149	<0.133	<0.158	<0.100	0.401 J	<0.142	<0.230	<0.237	<0.481
U4-E-09I	6/10/2024	N	EM20	UMCf	74.9 - 89.9	<2.94	<2.98	<2.66	<3.16	<2.00	<3.76	<2.84	<4.60	<4.74	<9.62
U4-E-09I	6/10/2024	FD	EM20	UMCf	74.9 - 89.9	<2.94	<2.98	<2.66	<3.16	<2.00	<3.76	<2.84	<4.60	<4.74	<9.62
U4-E-10D	4/13/2022	N	BL02	UMCf	94.5 - 109.5	<0.147	<0.149	<0.133	<0.158	<0.100	0.398 J	<0.142	<0.230	<0.237	<0.481
U4-E-10D	6/19/2024	N	EM20	UMCf	94.5 - 109.5	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30	<2.37	<4.81
U4-E-10I	4/13/2022	N	BL02	UMCf	74.2 - 89.2	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-E-10I	6/11/2024	N	EM20	UMCf	74.2 - 89.2	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0	<23.7	<48.1
U4-MW-01D	4/19/2022	N	BL02	UMCf	96.7 - 106.7	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
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	<2.37	<4.81
U4-MW-01D	3/20/2023	N	EM07	UMCf	96.7 - 106.7	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-01D	6/13/2023	N	EM10	UMCf	96.7 - 106.7	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-01D	9/14/2023	N	EM13	UMCf	96.7 - 106.7	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-01D	12/14/2023	N	EM16	UMCf	96.7 - 106.7	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-01D	3/13/2024	N	EM19	UMCf	96.7 - 106.7	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-01D	6/18/2024	N	EM20	UMCf	96.7 - 106.7	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481

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
						1,1,1,2-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	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-01DD	4/19/2022	N	BL02	UMCf	119.9 - 129.9	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-01DD	4/19/2022	FD	BL02	UMCf	119.9 - 129.9	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-01DD	3/15/2023	N	EM07	UMCf	119.9 - 129.9	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-01DD	6/13/2023	N	EM10	UMCf	119.9 - 129.9	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-01DD	9/14/2023	N	EM13	UMCf	119.9 - 129.9	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-01DD	12/15/2023	N	EM16	UMCf	119.9 - 129.9	<0.735	<0.745	<0.665	<0.790	<0.500	<0.940	<0.710	<1.15	<1.19	<2.41
U4-MW-01DD	3/12/2024	N	EM19	UMCf	119.9 - 129.9	<0.735	<0.745	<0.665	<0.790	<0.500	<0.940	<0.710	<1.15	<1.19	<2.41
U4-MW-01DD	6/18/2024	N	EM20	UMCf	119.9 - 129.9	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-01I	4/19/2022	N	BL02	UMCf	76.7 - 86.7	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-01I	3/20/2023	N	EM07	UMCf	76.7 - 86.7	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-01I	6/12/2023	N	EM10	UMCf	76.7 - 86.7	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230 UJ	<0.237	<0.481
U4-MW-01I	9/14/2023	N	EM13	UMCf	76.7 - 86.7	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-01I	12/15/2023	N	EM16	UMCf	76.7 - 86.7	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5	<11.9	<24.1
U4-MW-01I	3/13/2024	N	EM19	UMCf	76.7 - 86.7	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-01I	6/18/2024	N	EM20	UMCf	76.7 - 86.7	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-01S	4/18/2022	N	BL02	UMCf	54.7 - 64.7	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-01S	3/15/2023	N	EM07	UMCf	54.7 - 64.7	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-01S	6/13/2023	N	EM10	UMCf	54.7 - 64.7	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-01S	9/15/2023	N	EM13	UMCf	54.7 - 64.7	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-01S	12/13/2023	N	EM16	UMCf	54.7 - 64.7	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-01S	3/13/2024	N	EM19	UMCf	54.7 - 64.7	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-01S	6/18/2024	N	EM20	UMCf	54.7 - 64.7	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-02D	4/14/2022	N	BL02	UMCf	95.0 - 110.0	<0.147	<0.149	<0.133	<0.158	0.135 J	0.735 J	<0.142	<0.230	<0.237	<0.481
U4-MW-02D	10/11/2022	N	EM02	UMCf	95.0 - 110.0	<0.147	<0.149	<0.133	<0.158	<0.100	0.517 J	<0.142	<0.230	<0.237	<0.481
U4-MW-02D	11/1/2022	N	EM03	UMCf	95.0 - 110.0	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5	<11.9	<24.1
U4-MW-02D	12/7/2022	N	EM04	UMCf	95.0 - 110.0	<0.147	<0.149	<0.133	<0.158	0.165 J	0.832 J	0.619 J	<0.230	<0.237	<0.481
U4-MW-02D	1/10/2023	N	EM05	UMCf	95.0 - 110.0	<0.147	<0.149	<0.133	<0.158	0.118 J	0.763 J	0.566 J	<0.230 UJ	<0.237	<0.481 UJ
U4-MW-02D	2/13/2023	N	EM06	UMCf	95.0 - 110.0	<0.147	<0.149	<0.133	<0.158	0.124 J	0.902 J	0.663 J	<0.230	0.363 J	<0.481
U4-MW-02D	3/17/2023	N	EM07	UMCf	95.0 - 110.0	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0	<23.7	<48.1
U4-MW-02D	4/19/2023	N	EM08	UMCf	95.0 - 110.0	<0.735	<0.745	<0.665	<0.790	<0.500	<0.940	<0.710	<1.15	<1.19	<2.41
U4-MW-02D	5/9/2023	N	EM09	UMCf	95.0 - 110.0	<0.735	<0.745	<0.665	<0.790	<0.500	<0.940	<0.710	<1.15	<1.19	<2.41
U4-MW-02D	6/13/2023	N	EM10	UMCf	95.0 - 110.0	<0.147	<0.149	<0.133	<0.158	<0.100	0.382 J	0.188 J	<0.230	0.266 J	<0.481
U4-MW-02D	7/18/2023	N	EM11	UMCf	95.0 - 110.0	<0.147	<0.149	<0.133	<0.158	0.108 J	0.768 J	<0.142	<0.230	<0.237	<0.481
U4-MW-02D	8/14/2023	N	EM12	UMCf	95.0 - 110.0	<36.8	<37.3	<33.3	<39.5	<25.0	<47.0	<35.5	<57.5	<59.3	<120
U4-MW-02D	9/11/2023	N	EM13	UMCf	95.0 - 110.0	<0.147	<0.149	<0.133	<0.158	0.113 J	0.594 J	0.313 J	<0.230	<0.237	<0.481
U4-MW-02D	10/19/2023	N	EM14	UMCf	95.0 - 110.0	<0.147	<0.149	<0.133	<0.158	0.161 J	0.745 J	<0.142	<0.230	<0.237	<0.481
U4-MW-02D	11/15/2023	N	EM15	UMCf	95.0 - 110.0	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0	<23.7	<48.1
U4-MW-02D	12/14/2023	N	EM16	UMCf	95.0 - 110.0	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0	<23.7	<48.1
U4-MW-02D	1/25/2024	N	EM17	UMCf	95.0 - 110.0	<0.147	<0.149	<0.133	<0.158	<0.100	0.444 J	<0.142	<0.230	<0.237	<0.481
U4-MW-02D	2/12/2024	N	EM18	UMCf	95.0 - 110.0	<0.147	<0.149	<0.133	<0.158	<0.100	0.420 J	<0.142	<0.230	<0.237	<0.481
U4-MW-02D	3/13/2024	N	EM19	UMCf	95.0 - 110.0	<0.147	<0.149	<0.133	<0.158	<0.100	0.518 J	0.387 J	<0.230	<0.237	<0.481
U4-MW-02D	6/17/2024	N	EM20	UMCf	95.0 - 110.0	<0.147	<0.149	<0.133	<0.158	<0.100	0.266 J	<0.142	<0.230	<0.237	<0.481
U4-MW-02I	4/14/2022	N	BL02	UMCf	75.0 - 90.0	<0.147	<0.149	<0.133	<0.158	<0.100	0.431 J	<0.142	<0.230	<0.237	<0.481

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
						1,1,1,2-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	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-02I	10/11/2022	N	EM02	UMCf	75.0 - 90.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-02I	11/2/2022	N	EM03	UMCf	75.0 - 90.0	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30	<2.37	<4.81
U4-MW-02I	11/2/2022	FD	EM03	UMCf	75.0 - 90.0	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30	<2.37	<4.81
U4-MW-02I	12/8/2022	N	EM04	UMCf	75.0 - 90.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-02I	12/8/2022	FD	EM04	UMCf	75.0 - 90.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-02I	1/13/2023	N	EM05	UMCf	75.0 - 90.0	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30	<2.37	<4.81
U4-MW-02I	1/13/2023	FD	EM05	UMCf	75.0 - 90.0	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30	<2.37	<4.81
U4-MW-02I	2/15/2023	N	EM06	UMCf	75.0 - 90.0	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30 UJ	<2.37	<4.81
U4-MW-02I	2/15/2023	FD	EM06	UMCf	75.0 - 90.0	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30 UJ	<2.37	<4.81
U4-MW-02I	3/17/2023	N	EM07	UMCf	75.0 - 90.0	<29.4	<29.8	<26.6	<31.6	<20.0	<37.6	<28.4	<46.0	<47.4	<96.2
U4-MW-02I	3/17/2023	FD	EM07	UMCf	75.0 - 90.0	<29.4	<29.8	<26.6	<31.6	<20.0	<37.6	<28.4	<46.0	<47.4	<96.2
U4-MW-02I	4/20/2023	N	EM08	UMCf	75.0 - 90.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481 UJ
U4-MW-02I	4/20/2023	FD	EM08	UMCf	75.0 - 90.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481 UJ
U4-MW-02I	5/9/2023	N	EM09	UMCf	75.0 - 90.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-02I	5/9/2023	FD	EM09	UMCf	75.0 - 90.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-02I	6/12/2023	N	EM10	UMCf	75.0 - 90.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230 UJ	<0.237	<0.481
U4-MW-02I	6/12/2023	FD	EM10	UMCf	75.0 - 90.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230 UJ	<0.237	<0.481
U4-MW-02I	7/18/2023	N	EM11	UMCf	75.0 - 90.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-02I	7/18/2023	FD	EM11	UMCf	75.0 - 90.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-02I	8/11/2023	N	EM12	UMCf	75.0 - 90.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-02I	8/11/2023	FD	EM12	UMCf	75.0 - 90.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-02I	9/11/2023	N	EM13	UMCf	75.0 - 90.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-02I	9/11/2023	FD	EM13	UMCf	75.0 - 90.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-02I	10/19/2023	N	EM14	UMCf	75.0 - 90.0	<0.147 UJ	<0.149 UJ	<0.133 UJ	<0.158 UJ	<0.100 UJ	0.377 J	0.286 J	<0.230 UJ	<0.237 UJ	<0.481 UJ
U4-MW-02I	10/19/2023	FD	EM14	UMCf	75.0 - 90.0	<0.147	<0.149	<0.133	<0.158	<0.100	0.396 J	<0.142	<0.230	0.287 J	<0.481
U4-MW-02I	11/15/2023	N	EM15	UMCf	75.0 - 90.0	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5	<11.9	<24.1
U4-MW-02I	11/15/2023	FD	EM15	UMCf	75.0 - 90.0	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5	<11.9	<24.1
U4-MW-02I	12/14/2023	N	EM16	UMCf	75.0 - 90.0	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5	<11.9	<24.1
U4-MW-02I	12/14/2023	FD	EM16	UMCf	75.0 - 90.0	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5	<11.9	<24.1
U4-MW-02I	1/25/2024	N	EM17	UMCf	75.0 - 90.0	<0.147	<0.149	<0.133	<0.158	<0.100	0.333 J	0.488 J	<0.230	<0.237	<0.481
U4-MW-02I	1/25/2024	FD	EM17	UMCf	75.0 - 90.0	<0.147	<0.149	<0.133	<0.158	<0.100	0.342 J	0.434 J	<0.230	<0.237	<0.481
U4-MW-02I	2/12/2024	N	EM18	UMCf	75.0 - 90.0	<0.147	<0.149	<0.133	<0.158	<0.100	0.281 J	0.325 J	<0.230	<0.237	<0.481
U4-MW-02I	2/12/2024	FD	EM18	UMCf	75.0 - 90.0	<0.147	<0.149	<0.133	<0.158	<0.100	0.277 J	0.393 J	<0.230	<0.237	<0.481
U4-MW-02I	3/13/2024	N	EM19	UMCf	75.0 - 90.0	<0.147	<0.149	<0.133	<0.158	<0.100	0.260 J	<0.142	<0.230	<0.237	<0.481
U4-MW-02I	3/13/2024	FD	EM19	UMCf	75.0 - 90.0	<0.147	<0.149	<0.133	<0.158	<0.100	0.341 J	0.439 J	<0.230	<0.237	<0.481
U4-MW-02I	6/17/2024	N	EM20	UMCf	75.0 - 90.0	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5	<11.9	<24.1
U4-MW-02I	6/17/2024	FD	EM20	UMCf	75.0 - 90.0	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5	<11.9	<24.1
U4-MW-03D	4/20/2022	N	BL02	UMCf	96.6 - 106.6	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
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	<1.19	<2.41
U4-MW-03D	3/16/2023	N	EM07	UMCf	96.6 - 106.6	<2.94	<2.98	<2.66	<3.16	<2.00	<3.76	<2.84	<4.60	<4.74	<9.62
U4-MW-03D	3/16/2023	FD	EM07	UMCf	96.6 - 106.6	<0.735	<0.745	<0.665	<0.790	<0.500	<0.940	<0.710	<1.15	<1.19	<2.41
U4-MW-03D	6/15/2023	N	EM10	UMCf	96.6 - 106.6	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-03D	9/14/2023	N	EM13	UMCf	96.6 - 106.6	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481

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
						1,1,1,2-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	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-03D	12/13/2023	N	EM16	UMCf	96.6 - 106.6	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-03D	3/15/2024	N	EM19	UMCf	96.6 - 106.6	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-03D	6/17/2024	N	EM20	UMCf	96.6 - 106.6	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5	<11.9	<24.1
U4-MW-03DD	4/20/2022	N	BL02	UMCf	119.7 - 129.7	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-03DD	3/15/2023	N	EM07	UMCf	119.7 - 129.7	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-03DD	6/15/2023	N	EM10	UMCf	119.7 - 129.7	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-03DD	9/14/2023	N	EM13	UMCf	119.7 - 129.7	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-03DD	12/14/2023	N	EM16	UMCf	119.7 - 129.7	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-03DD	3/14/2024	N	EM19	UMCf	119.7 - 129.7	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-03DD	6/17/2024	N	EM20	UMCf	119.7 - 129.7	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-03I	4/19/2022	N	BL02	UMCf	76.6 - 86.6	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-03I	3/15/2023	N	EM07	UMCf	76.6 - 86.6	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-03I	6/14/2023	N	EM10	UMCf	76.6 - 86.6	<2.94	<2.98	<2.66	<3.16	<2.00	<3.76	<2.84	<4.60	<4.74	<9.62
U4-MW-03I	6/14/2023	FD	EM10	UMCf	76.6 - 86.6	<3.68	<3.73	<3.33	<3.95	<2.50	<4.70	<3.55	<5.75	<5.93	<12.0
U4-MW-03I	9/11/2023	N	EM13	UMCf	76.6 - 86.6	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	0.165 J	<0.230	<0.237	<0.481
U4-MW-03I	9/11/2023	FD	EM13	UMCf	76.6 - 86.6	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-03I	12/13/2023	N	EM16	UMCf	76.6 - 86.6	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-03I	12/13/2023	FD	EM16	UMCf	76.6 - 86.6	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-03I	3/14/2024	N	EM19	UMCf	76.6 - 86.6	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5	<11.9	<24.1
U4-MW-03I	3/14/2024	FD	EM19	UMCf	76.6 - 86.6	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5	<11.9	<24.1
U4-MW-03I	6/19/2024	N	EM20	UMCf	76.6 - 86.6	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5	<11.9	<24.1
U4-MW-03I	6/19/2024	FD	EM20	UMCf	76.6 - 86.6	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5	<11.9	<24.1
U4-MW-03S	4/18/2022	N	BL02	UMCf	54.5 - 64.5	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-03S	4/18/2022	FD	BL02	UMCf	54.5 - 64.5	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-03S	3/15/2023	N	EM07	UMCf	54.5 - 64.5	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-03S	6/15/2023	N	EM10	UMCf	54.5 - 64.5	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-03S	9/14/2023	N	EM13	UMCf	54.5 - 64.5	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-03S	12/13/2023	N	EM16	UMCf	54.5 - 64.5	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-03S	3/14/2024	N	EM19	UMCf	54.5 - 64.5	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-03S	6/14/2024	N	EM20	UMCf	54.5 - 64.5	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-04D	4/19/2022	N	BL02	UMCf	97.0 - 107.0	<0.147	<0.149	<0.133	<0.158	<0.100	0.560 J	<0.142	<0.230	<0.237	<0.481
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	<11.9	<24.1
U4-MW-04D	3/21/2023	N	EM07	UMCf	97.0 - 107.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-04D	6/14/2023	N	EM10	UMCf	97.0 - 107.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-04D	9/15/2023	N	EM13	UMCf	97.0 - 107.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-04D	12/12/2023	N	EM16	UMCf	97.0 - 107.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-04D	3/12/2024	N	EM19	UMCf	97.0 - 107.0	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5	<11.9	<24.1
U4-MW-04D	6/19/2024	N	EM20	UMCf	97.0 - 107.0	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5	<11.9	<24.1
U4-MW-04I	4/19/2022	N	BL02	UMCf	76.8 - 86.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-04I	3/20/2023	N	EM07	UMCf	76.8 - 86.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	0.158 J	<0.230	<0.237	<0.481
U4-MW-04I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<0.735	<0.745	<0.665	<0.790	<0.500	<0.940	<0.710	<1.15	<1.19	<2.41
U4-MW-04I	9/14/2023	N	EM13	UMCf	76.8 - 86.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-04I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481

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
						1,1,1,2-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	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-04I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	<29.4	<29.8	<26.6	<31.6	<20.0	<37.6	<28.4	<46.0	<47.4	<96.2
U4-MW-04I	6/18/2024	N	EM20	UMCf	76.8 - 86.8	<0.735	<0.745	<0.665	<0.790	<0.500	<0.940	<0.710	<1.15	<1.19	<2.41
U4-MW-05D	4/15/2022	N	BL02	UMCf	98.2 - 108.2	<0.147	<0.149	<0.133	<0.158	0.181 J	0.659 J	0.565 J	<0.230	<0.237	<0.481 UJ
U4-MW-05D	10/13/2022	N	EM02	UMCf	98.2 - 108.2	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0	<23.7	<48.1
U4-MW-05D	11/3/2022	N	EM03	UMCf	98.2 - 108.2	<0.147	<0.149	<0.133	<0.158	0.118 J	0.278 J	0.297 J	<0.230	<0.237	<0.481
U4-MW-05D	12/7/2022	N	EM04	UMCf	98.2 - 108.2	<0.147	<0.149	<0.133	<0.158	0.116 J	0.436 J	0.544 J	<0.230	<0.237	<0.481
U4-MW-05D	1/11/2023	N	EM05	UMCf	98.2 - 108.2	<0.147	<0.149	<0.133	<0.158	0.106 J	0.330 J	0.362 J	<0.230	<0.237	<0.481
U4-MW-05D	2/14/2023	N	EM06	UMCf	98.2 - 108.2	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0	<23.7	<48.1
U4-MW-05D	3/16/2023	N	EM07	UMCf	98.2 - 108.2	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0	<23.7	<48.1
U4-MW-05D	4/20/2023	N	EM08	UMCf	98.2 - 108.2	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	0.187 J	<0.230	<0.237	<0.481
U4-MW-05D	5/10/2023	N	EM09	UMCf	98.2 - 108.2	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	0.197 J	<0.230	<0.237	<0.481
U4-MW-05D	6/15/2023	N	EM10	UMCf	98.2 - 108.2	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-05D	7/18/2023	N	EM11	UMCf	98.2 - 108.2	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-05D	8/14/2023	N	EM12	UMCf	98.2 - 108.2	<3.68	<3.73	<3.33	<3.95	<2.50	<4.70	<3.55	<5.75	<5.93	<12.0
U4-MW-05D	9/12/2023	N	EM13	UMCf	98.2 - 108.2	<3.68	<3.73	<3.33	<3.95	<2.50	<4.70	<3.55	<5.75	<5.93	<12.0
U4-MW-05D	10/18/2023	N	EM14	UMCf	98.2 - 108.2	<3.68	<3.73	<3.33	<3.95	<2.50	<4.70	<3.55	<5.75	<5.93	<12.0
U4-MW-05D	11/16/2023	N	EM15	UMCf	98.2 - 108.2	<3.68	<3.73	<3.33	<3.95	<2.50	<4.70	<3.55	<5.75	<5.93	<12.0
U4-MW-05D	12/14/2023	N	EM16	UMCf	98.2 - 108.2	<3.68	<3.73	<3.33	<3.95	<2.50	<4.70	<3.55	<5.75	<5.93	<12.0
U4-MW-05D	1/26/2024	N	EM17	UMCf	98.2 - 108.2	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-05D	2/14/2024	N	EM18	UMCf	98.2 - 108.2	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-05D	3/12/2024	N	EM19	UMCf	98.2 - 108.2	<3.68	<3.73	<3.33	<3.95	<2.50	<4.70	<3.55	<5.75	<5.93	<12.0
U4-MW-05D	6/18/2024	N	EM20	UMCf	98.2 - 108.2	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-05I	4/15/2022	N	BL02	UMCf	76.6 - 86.6	<0.147	<0.149	<0.133	<0.158	<0.100	0.359 J	0.311 J	<0.230	<0.237	<0.481 UJ
U4-MW-05I	10/13/2022	N	EM02	UMCf	76.6 - 86.6	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0	<23.7	<48.1
U4-MW-05I	11/3/2022	N	EM03	UMCf	76.6 - 86.6	<0.147	<0.149	<0.133	<0.158	0.154 J	0.448 J	0.557 J	<0.230	<0.237	<0.481
U4-MW-05I	12/8/2022	N	EM04	UMCf	76.6 - 86.6	<0.147	<0.149	<0.133	<0.158	0.135 J	0.345 J	<0.142	<0.230	<0.237	<0.481
U4-MW-05I	1/11/2023	N	EM05	UMCf	76.6 - 86.6	<0.147	<0.149	<0.133	<0.158	<0.100	0.289 J	0.462 J	<0.230	<0.237	<0.481
U4-MW-05I	2/14/2023	N	EM06	UMCf	76.6 - 86.6	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0	<23.7	<48.1
U4-MW-05I	3/14/2023	N	EM07	UMCf	76.6 - 86.6	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0	<23.7	<48.1
U4-MW-05I	4/21/2023	N	EM08	UMCf	76.6 - 86.6	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-05I	5/10/2023	N	EM09	UMCf	76.6 - 86.6	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-05I	6/15/2023	N	EM10	UMCf	76.6 - 86.6	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-05I	7/17/2023	N	EM11	UMCf	76.6 - 86.6	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-05I	8/14/2023	N	EM12	UMCf	76.6 - 86.6	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5	<11.9	<24.1
U4-MW-05I	9/13/2023	N	EM13	UMCf	76.6 - 86.6	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-05I	10/18/2023	N	EM14	UMCf	76.6 - 86.6	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5	<11.9	<24.1
U4-MW-05I	11/15/2023	N	EM15	UMCf	76.6 - 86.6	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5	<11.9	<24.1
U4-MW-05I	12/12/2023	N	EM16	UMCf	76.6 - 86.6	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-05I	1/26/2024	N	EM17	UMCf	76.6 - 86.6	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-05I	2/14/2024	N	EM18	UMCf	76.6 - 86.6	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-05I	3/11/2024	N	EM19	UMCf	76.6 - 86.6	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-05I	6/18/2024	N	EM20	UMCf	76.6 - 86.6	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-06D	4/19/2022	N	BL02	UMCf	97.1 - 107.1	<0.147	<0.149	<0.133	<0.158	0.134 J	0.315 J	<0.142	<0.230	<0.237	<0.481

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
						1,1,1,2-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	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
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	<11.9	<24.1
U4-MW-06D	3/21/2023	N	EM07	UMCf	97.1 - 107.1	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-06D	6/16/2023	N	EM10	UMCf	97.1 - 107.1	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-06D	9/13/2023	N	EM13	UMCf	97.1 - 107.1	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-06D	12/13/2023	N	EM16	UMCf	97.1 - 107.1	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-06D	3/14/2024	N	EM19	UMCf	97.1 - 107.1	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5	<11.9	<24.1
U4-MW-06D	6/12/2024	N	EM20	UMCf	97.1 - 107.1	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-06I	4/19/2022	N	BL02	UMCf	76.5 - 86.5	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-06I	3/14/2023	N	EM07	UMCf	76.5 - 86.5	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-06I	6/16/2023	N	EM10	UMCf	76.5 - 86.5	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-06I	9/12/2023	N	EM13	UMCf	76.5 - 86.5	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5	<11.9	<24.1
U4-MW-06I	12/12/2023	N	EM16	UMCf	76.5 - 86.5	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-06I	3/14/2024	N	EM19	UMCf	76.5 - 86.5	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0	<23.7	<48.1
U4-MW-06I	6/11/2024	N	EM20	UMCf	76.5 - 86.5	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	0.187 J	<0.230	<0.237	<0.481
U4-MW-07D	4/15/2022	N	BL02	UMCf	96.8 - 106.5	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481 UJ
U4-MW-07D	10/12/2022	N	EM02	UMCf	96.8 - 106.5	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-07D	10/12/2022	FD	EM02	UMCf	96.8 - 106.5	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-07D	11/3/2022	N	EM03	UMCf	96.8 - 106.5	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-07D	12/7/2022	N	EM04	UMCf	96.8 - 106.5	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-07D	1/11/2023	N	EM05	UMCf	96.8 - 106.5	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-07D	2/14/2023	N	EM06	UMCf	96.8 - 106.5	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-07D	3/16/2023	N	EM07	UMCf	96.8 - 106.5	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-07D	4/21/2023	N	EM08	UMCf	96.8 - 106.5	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-07D	5/11/2023	N	EM09	UMCf	96.8 - 106.5	<0.147 UJ	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-07D	6/13/2023	N	EM10	UMCf	96.8 - 106.5	<0.147 UJ	<0.149 UJ	<0.133 UJ	<0.158 UJ	<0.100 UJ	<0.188 UJ	<0.142 UJ	<0.230 UJ	<0.237 UJ	<0.481 UJ
U4-MW-07D	7/17/2023	N	EM11	UMCf	96.8 - 106.5	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-07D	8/11/2023	N	EM12	UMCf	96.8 - 106.5	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-07D	9/13/2023	N	EM13	UMCf	96.8 - 106.5	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-07D	10/18/2023	N	EM14	UMCf	96.8 - 106.5	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0	<23.7	<48.1
U4-MW-07D	11/16/2023	N	EM15	UMCf	96.8 - 106.5	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0	<23.7	<48.1
U4-MW-07D	12/12/2023	N	EM16	UMCf	96.8 - 106.5	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-07D	1/26/2024	N	EM17	UMCf	96.8 - 106.5	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-07D	2/13/2024	N	EM18	UMCf	96.8 - 106.5	<3.68	<3.73	<3.33	<3.95	<2.50	<4.70	<3.55	<5.75	<5.93	<12.0
U4-MW-07D	3/11/2024	N	EM19	UMCf	96.8 - 106.5	<3.68	<3.73	<3.33	<3.95	<2.50	<4.70	<3.55	<5.75	<5.93	<12.0
U4-MW-07D	6/12/2024	N	EM20	UMCf	96.8 - 106.5	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-07I	4/15/2022	N	BL02	UMCf	76.8 - 86.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481 UJ
U4-MW-07I	10/12/2022	N	EM02	UMCf	76.8 - 86.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-07I	11/3/2022	N	EM03	UMCf	76.8 - 86.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-07I	12/7/2022	N	EM04	UMCf	76.8 - 86.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-07I	1/11/2023	N	EM05	UMCf	76.8 - 86.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-07I	2/15/2023	N	EM06	UMCf	76.8 - 86.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230 UJ	<0.237	<0.481
U4-MW-07I	3/16/2023	N	EM07	UMCf	76.8 - 86.8	<0.735	<0.745	<0.665	<0.790	<0.500	<0.940	<0.710	<1.15	<1.19	<2.41
U4-MW-07I	4/21/2023	N	EM08	UMCf	76.8 - 86.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481

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
						1,1,1,2-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	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-07I	5/11/2023	N	EM09	UMCf	76.8 - 86.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-07I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<0.735	<0.745	<0.665	<0.790	<0.500	<0.940	<0.710	<1.15	<1.19	<2.41
U4-MW-07I	7/17/2023	N	EM11	UMCf	76.8 - 86.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-07I	8/11/2023	N	EM12	UMCf	76.8 - 86.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-07I	9/13/2023	N	EM13	UMCf	76.8 - 86.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-07I	10/18/2023	N	EM14	UMCf	76.8 - 86.8	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5	<11.9	<24.1
U4-MW-07I	11/16/2023	N	EM15	UMCf	76.8 - 86.8	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5	<11.9	<24.1
U4-MW-07I	12/11/2023	N	EM16	UMCf	76.8 - 86.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-07I	1/26/2024	N	EM17	UMCf	76.8 - 86.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-07I	2/13/2024	N	EM18	UMCf	76.8 - 86.8	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5	<11.9	<24.1
U4-MW-07I	3/11/2024	N	EM19	UMCf	76.8 - 86.8	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5	<11.9	<24.1
U4-MW-07I	6/12/2024	N	EM20	UMCf	76.8 - 86.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-08D	4/13/2022	N	BL02	UMCf	98.6 - 108.6	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-08D	12/7/2022	N	EM04	UMCf	98.6 - 108.6	<0.147	<0.149	<0.133	<0.158	<0.100	0.391 J	<0.142	<0.230	<0.237	<0.481
U4-MW-08D	3/17/2023	N	EM07	UMCf	98.6 - 108.6	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0	<23.7	<48.1
U4-MW-08D	6/13/2023	N	EM10	UMCf	98.6 - 108.6	<0.147	<0.149	<0.133	<0.158	<0.100	0.303 J	0.210 J	<0.230	<0.237	<0.481
U4-MW-08D	9/13/2023	N	EM13	UMCf	98.6 - 108.6	<0.147	<0.149	<0.133	<0.158	<0.100	0.671 J	0.485 J	<0.230	<0.237	<0.481
U4-MW-08D	12/11/2023	N	EM16	UMCf	98.6 - 108.6	<0.147	<0.149	<0.133	<0.158	<0.100	0.303 J	<0.142	<0.230	<0.237	<0.481
U4-MW-08D	3/12/2024	N	EM19	UMCf	98.6 - 108.6	<29.4	<29.8	<26.6	<31.6	<20.0	<37.6	<28.4	<46.0	<47.4	<96.2
U4-MW-08D	6/14/2024	N	EM20	UMCf	98.6 - 108.6	<29.4	<29.8	<26.6	<31.6	<20.0	<37.6	<28.4	<46.0	<47.4	<96.2
U4-MW-08DD	4/20/2022	N	BL02	UMCf	119.8 - 129.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-08DD	4/20/2022	FD	BL02	UMCf	119.8 - 129.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-08DD	12/8/2022	N	EM04	UMCf	119.8 - 129.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-08DD	3/15/2023	N	EM07	UMCf	119.8 - 129.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-08DD	6/14/2023	N	EM10	UMCf	119.8 - 129.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-08DD	9/14/2023	N	EM13	UMCf	119.8 - 129.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-08DD	12/14/2023	N	EM16	UMCf	119.8 - 129.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-08DD	3/14/2024	N	EM19	UMCf	119.8 - 129.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-08DD	6/12/2024	N	EM20	UMCf	119.8 - 129.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-08I	4/13/2022	N	BL02	UMCf	78.0 - 88.0	<0.147	<0.149	<0.133	<0.158	<0.100	1.02	<0.142	<0.230	<0.237	<0.481
U4-MW-08I	12/7/2022	N	EM04	UMCf	78.0 - 88.0	<0.147	<0.149	<0.133	<0.158	<0.100	0.223 J	<0.142	<0.230	<0.237	<0.481
U4-MW-08I	12/7/2022	FD	EM04	UMCf	78.0 - 88.0	<0.147	<0.149	<0.133	<0.158	<0.100	0.232 J	0.238 J	<0.230	<0.237	<0.481
U4-MW-08I	3/17/2023	N	EM07	UMCf	78.0 - 88.0	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5	<11.9	<24.1
U4-MW-08I	6/13/2023	N	EM10	UMCf	78.0 - 88.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	0.152 J	<0.230	<0.237	<0.481
U4-MW-08I	9/13/2023	N	EM13	UMCf	78.0 - 88.0	<0.147	<0.149	<0.133	<0.158	<0.100	0.259 J	0.285 J	<0.230	<0.237	<0.481
U4-MW-08I	12/11/2023	N	EM16	UMCf	78.0 - 88.0	<0.147	<0.149	<0.133	<0.158	<0.100	0.233 J	<0.142	<0.230	<0.237	<0.481
U4-MW-08I	3/12/2024	N	EM19	UMCf	78.0 - 88.0	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0	<23.7	<48.1
U4-MW-08I	6/14/2024	N	EM20	UMCf	78.0 - 88.0	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0	<23.7	<48.1
U4-MW-08S	4/15/2022	N	BL02	UMCf	54.9 - 64.9	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481 UJ
U4-MW-08S	12/7/2022	N	EM04	UMCf	54.9 - 64.9	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-08S	12/7/2022	FD	EM04	UMCf	54.9 - 64.9	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-08S	3/13/2023	N	EM07	UMCf	54.9 - 64.9	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-08S	3/13/2023	FD	EM07	UMCf	54.9 - 64.9	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481

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
						1,1,1,2-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	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-08S	6/13/2023	N	EM10	UMCf	54.9 - 64.9	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-08S	6/13/2023	FD	EM10	UMCf	54.9 - 64.9	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-08S	9/13/2023	N	EM13	UMCf	54.9 - 64.9	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-08S	9/13/2023	FD	EM13	UMCf	54.9 - 64.9	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-08S	12/14/2023	N	EM16	UMCf	54.9 - 64.9	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-08S	12/14/2023	FD	EM16	UMCf	54.9 - 64.9	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-08S	3/14/2024	N	EM19	UMCf	54.9 - 64.9	<0.294 UJ	<0.298 UJ	<0.266 UJ	<0.316 UJ	<0.200 UJ	<0.376 UJ	<0.284 UJ	<0.460 UJ	<0.474 UJ	<0.962 UJ
U4-MW-08S	3/14/2024	FD	EM19	UMCf	54.9 - 64.9	<0.294 UJ	<0.298 UJ	<0.266 UJ	<0.316 UJ	<0.200 UJ	<0.376 UJ	<0.284 UJ	<0.460 UJ	<0.474 UJ	<0.962 UJ
U4-MW-08S	3/25/2024	N	EM19	UMCf	54.9 - 64.9	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-08S	3/25/2024	FD	EM19	UMCf	54.9 - 64.9	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-08S	6/14/2024	N	EM20	UMCf	54.9 - 64.9	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-08S	6/14/2024	FD	EM20	UMCf	54.9 - 64.9	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-09D	4/14/2022	N	BL02	UMCf	96.9 - 106.9	<0.147	<0.149	<0.133	<0.158	<0.100	0.455 J	<0.142	<0.230	<0.237	<0.481
U4-MW-09D	12/6/2022	N	EM04	UMCf	96.9 - 106.9	<1.47 UJ	<1.49 UJ	<1.33 UJ	<1.58 UJ	<1.00 UJ	<1.88 UJ	<1.42 UJ	<2.30 UJ	<2.37 UJ	<4.81 UJ
U4-MW-09D	3/16/2023	N	EM07	UMCf	96.9 - 106.9	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30	<2.37	<4.81
U4-MW-09D	6/14/2023	N	EM10	UMCf	96.9 - 106.9	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-09D	9/12/2023	N	EM13	UMCf	96.9 - 106.9	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-09D	12/15/2023	N	EM16	UMCf	96.9 - 106.9	<3.68 UJ	<3.73 UJ	<3.33 UJ	<3.95 UJ	<2.50 UJ	<4.70 UJ	<3.55 UJ	<5.75 UJ	<5.93 UJ	<12.0 UJ
U4-MW-09D	3/13/2024	N	EM19	UMCf	96.9 - 106.9	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-09D	6/13/2024	N	EM20	UMCf	96.9 - 106.9	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-09DD	4/14/2022	N	BL02	UMCf	119.8 - 129.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-09DD	12/6/2022	N	EM04	UMCf	119.8 - 129.8	<0.147 UJ	<0.149 UJ	<0.133 UJ	<0.158 UJ	<0.100 UJ	<0.188 UJ	<0.142 UJ	<0.230 UJ	<0.237 UJ	<0.481 UJ
U4-MW-09DD	3/21/2023	N	EM07	UMCf	119.8 - 129.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-09DD	6/15/2023	N	EM10	UMCf	119.8 - 129.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-09DD	9/13/2023	N	EM13	UMCf	119.8 - 129.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-09DD	12/13/2023	N	EM16	UMCf	119.8 - 129.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-09DD	3/14/2024	N	EM19	UMCf	119.8 - 129.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-09DD	6/13/2024	N	EM20	UMCf	119.8 - 129.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-09I	4/14/2022	N	BL02	UMCf	76.8 - 86.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-09I	12/6/2022	N	EM04	UMCf	76.8 - 86.8	<1.47 UJ	<1.49 UJ	<1.33 UJ	<1.58 UJ	<1.00 UJ	<1.88 UJ	<1.42 UJ	<2.30 UJ	<2.37 UJ	<4.81 UJ
U4-MW-09I	3/16/2023	N	EM07	UMCf	76.8 - 86.8	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30	<2.37	<4.81
U4-MW-09I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-09I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-09I	12/15/2023	N	EM16	UMCf	76.8 - 86.8	<3.68 UJ	<3.73 UJ	<3.33 UJ	<3.95 UJ	<2.50 UJ	<4.70 UJ	<3.55 UJ	<5.75 UJ	<5.93 UJ	<12.0 UJ
U4-MW-09I	3/13/2024	N	EM19	UMCf	76.8 - 86.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-09I	6/13/2024	N	EM20	UMCf	76.8 - 86.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-09S	4/14/2022	N	BL02	UMCf	55.3 - 65.3	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-09S	12/6/2022	N	EM04	UMCf	55.3 - 65.3	<0.147 UJ	<0.149 UJ	<0.133 UJ	<0.158 UJ	<0.100 UJ	<0.188 UJ	<0.142 UJ	<0.230 UJ	<0.237 UJ	<0.481 UJ
U4-MW-09S	3/17/2023	N	EM07	UMCf	55.3 - 65.3	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-09S	6/15/2023	N	EM10	UMCf	55.3 - 65.3	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-09S	9/13/2023	N	EM13	UMCf	55.3 - 65.3	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-09S	12/12/2023	N	EM16	UMCf	55.3 - 65.3	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-09S	3/13/2024	N	EM19	UMCf	55.3 - 65.3	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481

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
						1,1,1,2-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	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-09S	6/13/2024	N	EM20	UMCf	55.3 - 65.3	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-10D	4/14/2022	N	BL02	UMCf	96.9 - 106.9	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-10D	12/5/2022	N	EM04	UMCf	96.9 - 106.9	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-10D	3/17/2023	N	EM07	UMCf	96.9 - 106.9	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-10D	6/14/2023	N	EM10	UMCf	96.9 - 106.9	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-10D	9/13/2023	N	EM13	UMCf	96.9 - 106.9	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-10D	12/14/2023	N	EM16	UMCf	96.9 - 106.9	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-10D	3/14/2024	N	EM19	UMCf	96.9 - 106.9	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-10D	6/11/2024	N	EM20	UMCf	96.9 - 106.9	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-10I	4/14/2022	N	BL02	UMCf	77.1 - 87.1	<0.147	<0.149	<0.133	<0.158	<0.100	0.373 J	<0.142	<0.230	<0.237	<0.481
U4-MW-10I	12/5/2022	N	EM04	UMCf	77.1 - 87.1	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-10I	3/17/2023	N	EM07	UMCf	77.1 - 87.1	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-10I	6/14/2023	N	EM10	UMCf	77.1 - 87.1	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-10I	9/13/2023	N	EM13	UMCf	77.1 - 87.1	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-10I	12/14/2023	N	EM16	UMCf	77.1 - 87.1	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-10I	3/13/2024	N	EM19	UMCf	77.1 - 87.1	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-10I	6/11/2024	N	EM20	UMCf	77.1 - 87.1	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-11D	4/15/2022	N	BL02	UMCf	97.4 - 107.4	<0.147	<0.149	<0.133	<0.158	<0.100	0.543 J	0.380 J	<0.230	0.334 J	<0.481 UJ
U4-MW-11D	9/26/2022	N	EM01	UMCf	97.4 - 107.4	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5	<11.9	<24.1
U4-MW-11D	10/11/2022	N	EM02	UMCf	97.4 - 107.4	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30	<2.37	<4.81
U4-MW-11D	11/1/2022	N	EM03	UMCf	97.4 - 107.4	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5	<11.9	<24.1
U4-MW-11D	12/6/2022	N	EM04	UMCf	97.4 - 107.4	<3.68 UJ	<3.73 UJ	<3.33 UJ	<3.95 UJ	<2.50 UJ	<4.70 UJ	<3.55 UJ	<5.75 UJ	<5.93 UJ	<12.0 UJ
U4-MW-11D	1/12/2023	N	EM05	UMCf	97.4 - 107.4	<29.4	<29.8	<26.6	<31.6	<20.0	<37.6	<28.4	<46.0	<47.4	<96.2
U4-MW-11D	2/14/2023	N	EM06	UMCf	97.4 - 107.4	<29.4	<29.8	<26.6	<31.6	<20.0	<37.6	<28.4	<46.0	<47.4	<96.2
U4-MW-11D	3/16/2023	N	EM07	UMCf	97.4 - 107.4	<29.4	<29.8	<26.6	<31.6	<20.0	<37.6	<28.4	<46.0	<47.4	<96.2
U4-MW-11D	4/18/2023	N	EM08	UMCf	97.4 - 107.4	<0.735	<0.745	<0.665	<0.790	<0.500	<0.940	<0.710	<1.15	<1.19	<2.41
U4-MW-11D	5/17/2023	N	EM09	UMCf	97.4 - 107.4	<2.94 UJ	<2.98 UJ	<2.66 UJ	<3.16 UJ	<2.00 UJ	<3.76 UJ	<2.84 UJ	<4.60 UJ	<4.74 UJ	<9.62 UJ
U4-MW-11D	6/16/2023	N	EM10	UMCf	97.4 - 107.4	<0.147	<0.149	<0.133	<0.158	<0.100	0.456 J	<0.142	<0.230	<0.237	<0.481
U4-MW-11D	7/14/2023	N	EM11	UMCf	97.4 - 107.4	<0.147	<0.149	<0.133	<0.158	<0.100	0.370 J	0.445 J	<0.230	<0.237	<0.481
U4-MW-11D	8/14/2023	N	EM12	UMCf	97.4 - 107.4	<29.4	<29.8	<26.6	<31.6	<20.0	<37.6	<28.4	<46.0	<47.4	<96.2
U4-MW-11D	9/13/2023	N	EM13	UMCf	97.4 - 107.4	<0.147	<0.149	<0.133	<0.158	<0.100	0.407 J	0.234 J	<0.230	<0.237	<0.481
U4-MW-11D	10/18/2023	N	EM14	UMCf	97.4 - 107.4	<29.4	<29.8	<26.6	<31.6	<20.0	<37.6	<28.4	<46.0	<47.4	<96.2
U4-MW-11D	11/16/2023	N	EM15	UMCf	97.4 - 107.4	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5	<11.9	<24.1
U4-MW-11D	12/13/2023	N	EM16	UMCf	97.4 - 107.4	<0.147	<0.149	<0.133	<0.158	<0.100	0.283 J	0.152 J	<0.230	<0.237	<0.481
U4-MW-11D	1/25/2024	N	EM17	UMCf	97.4 - 107.4	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	0.193 J	<0.230	<0.237	<0.481
U4-MW-11D	2/14/2024	N	EM18	UMCf	97.4 - 107.4	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-11D	3/12/2024	N	EM19	UMCf	97.4 - 107.4	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0	<23.7	<48.1
U4-MW-11D	6/12/2024	N	EM20	UMCf	97.4 - 107.4	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-11I	4/14/2022	N	BL02	UMCf	77.0 - 87.0	<0.147	<0.149	<0.133	<0.158	<0.100	0.385 J	<0.142	<0.230	<0.237	<0.481
U4-MW-11I	9/26/2022	N	EM01	UMCf	77.0 - 87.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-11I	9/26/2022	FD	EM01	UMCf	77.0 - 87.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-11I	10/10/2022	N	EM02	UMCf	77.0 - 87.0	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30	<2.37	<4.81
U4-MW-11I	10/10/2022	FD	EM02	UMCf	77.0 - 87.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481

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
						1,1,1,2-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	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-11I	10/31/2022	N	EM03	UMCf	77.0 - 87.0	<0.735	<0.745	<0.665	<0.790	<0.500	<0.940	<0.710	<1.15	<1.19	<2.41 UJ
U4-MW-11I	10/31/2022	FD	EM03	UMCf	77.0 - 87.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481 UJ
U4-MW-11I	12/6/2022	N	EM04	UMCf	77.0 - 87.0	<0.147 UJ	<0.149 UJ	<0.133 UJ	<0.158 UJ	<0.100 UJ	<0.188 UJ	<0.142 UJ	<0.230 UJ	<0.237 UJ	<0.481 UJ
U4-MW-11I	12/6/2022	FD	EM04	UMCf	77.0 - 87.0	<0.147 UJ	<0.149 UJ	<0.133 UJ	<0.158 UJ	<0.100 UJ	<0.188 UJ	<0.142 UJ	<0.230 UJ	<0.237 UJ	<0.481 UJ
U4-MW-11I	1/12/2023	N	EM05	UMCf	77.0 - 87.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-11I	1/12/2023	FD	EM05	UMCf	77.0 - 87.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-11I	2/14/2023	N	EM06	UMCf	77.0 - 87.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-11I	2/14/2023	FD	EM06	UMCf	77.0 - 87.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-11I	3/16/2023	N	EM07	UMCf	77.0 - 87.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-11I	3/16/2023	FD	EM07	UMCf	77.0 - 87.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-11I	4/18/2023	N	EM08	UMCf	77.0 - 87.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-11I	4/18/2023	FD	EM08	UMCf	77.0 - 87.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-11I	5/19/2023	N	EM09	UMCf	77.0 - 87.0	<0.147 UJ	<0.149 UJ	<0.133 UJ	<0.158 UJ	<0.100 UJ	<0.188 UJ	<0.142 UJ	<0.230 UJ	<0.237 UJ	<0.481 UJ
U4-MW-11I	5/19/2023	FD	EM09	UMCf	77.0 - 87.0	<0.147 UJ	<0.149 UJ	<0.133 UJ	<0.158 UJ	<0.100 UJ	<0.188 UJ	<0.142 UJ	<0.230 UJ	<0.237 UJ	<0.481 UJ
U4-MW-11I	6/15/2023	N	EM10	UMCf	77.0 - 87.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-11I	6/15/2023	FD	EM10	UMCf	77.0 - 87.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-11I	7/13/2023	N	EM11	UMCf	77.0 - 87.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-11I	7/13/2023	FD	EM11	UMCf	77.0 - 87.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-11I	8/14/2023	N	EM12	UMCf	77.0 - 87.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-11I	8/14/2023	FD	EM12	UMCf	77.0 - 87.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	0.155 J	<0.230	<0.237	<0.481
U4-MW-11I	9/13/2023	N	EM13	UMCf	77.0 - 87.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-11I	9/13/2023	FD	EM13	UMCf	77.0 - 87.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-11I	10/19/2023	N	EM14	UMCf	77.0 - 87.0	<0.147	<0.149	<0.133	<0.158	<0.100	0.400 J	0.303 J	<0.230	<0.237	<0.481
U4-MW-11I	10/19/2023	FD	EM14	UMCf	77.0 - 87.0	<0.147	<0.149	<0.133	<0.158	<0.100	0.394 J	<0.142	<0.230	<0.237	<0.481
U4-MW-11I	11/16/2023	N	EM15	UMCf	77.0 - 87.0	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5	<11.9	<24.1
U4-MW-11I	11/16/2023	FD	EM15	UMCf	77.0 - 87.0	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5	<11.9	<24.1
U4-MW-11I	12/13/2023	N	EM16	UMCf	77.0 - 87.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-11I	12/13/2023	FD	EM16	UMCf	77.0 - 87.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-11I	1/25/2024	N	EM17	UMCf	77.0 - 87.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-11I	1/25/2024	FD	EM17	UMCf	77.0 - 87.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-11I	2/14/2024	N	EM18	UMCf	77.0 - 87.0	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5	<11.9	<24.1
U4-MW-11I	2/14/2024	FD	EM18	UMCf	77.0 - 87.0	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5	<11.9	<24.1
U4-MW-11I	3/13/2024	N	EM19	UMCf	77.0 - 87.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-11I	3/13/2024	FD	EM19	UMCf	77.0 - 87.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-11I	6/12/2024	N	EM20	UMCf	77.0 - 87.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-11I	6/12/2024	FD	EM20	UMCf	77.0 - 87.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	0.161 J	<0.230	<0.237	<0.481
U4-MW-12D	4/15/2022	N	BL02	UMCf	97.1 - 107.1	<0.147	<0.149	<0.133	<0.158	<0.100	0.417 J	0.374 J	<0.230	<0.237	<0.481 UJ
U4-MW-12D	9/27/2022	N	EM01	UMCf	97.1 - 107.1	<2.94	<2.98	<2.66	<3.16	<2.00	<3.76	<2.84	<4.60	<4.74	<9.62
U4-MW-12D	10/12/2022	N	EM02	UMCf	97.1 - 107.1	<0.147	<0.149	<0.133	<0.158	<0.100	0.326 J	0.350 J	<0.230	0.325 J	<0.481
U4-MW-12D	11/2/2022	N	EM03	UMCf	97.1 - 107.1	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30	<2.37	<4.81
U4-MW-12D	12/7/2022	N	EM04	UMCf	97.1 - 107.1	<0.147	<0.149	<0.133	<0.158	<0.100	0.351 J	0.507 J	<0.230	<0.237	<0.481
U4-MW-12D	1/12/2023	N	EM05	UMCf	97.1 - 107.1	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0	<23.7	<48.1
U4-MW-12D	2/15/2023	N	EM06	UMCf	97.1 - 107.1	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0	<23.7	<48.1

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
						1,1,1,2-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	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-12D	3/14/2023	N	EM07	UMCf	97.1 - 107.1	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5	<11.9	<24.1
U4-MW-12D	4/17/2023	N	EM08	UMCf	97.1 - 107.1	<0.735 UJ	<0.745 UJ	<0.665 UJ	<0.790 UJ	<0.500 UJ	<0.940 UJ	<0.710 UJ	<1.15 UJ	<1.19 UJ	<2.41 UJ
U4-MW-12D	5/17/2023	N	EM09	UMCf	97.1 - 107.1	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0	<23.7	<48.1
U4-MW-12D	6/16/2023	N	EM10	UMCf	97.1 - 107.1	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-12D	7/13/2023	N	EM11	UMCf	97.1 - 107.1	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-12D	8/14/2023	N	EM12	UMCf	97.1 - 107.1	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5	<11.9	<24.1
U4-MW-12D	9/12/2023	N	EM13	UMCf	97.1 - 107.1	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5	<11.9	<24.1
U4-MW-12D	10/17/2023	N	EM14	UMCf	97.1 - 107.1	<0.735	<0.745	<0.665	<0.790	<0.500	<0.940	<0.710	<1.15	<1.19	<2.41
U4-MW-12D	11/15/2023	N	EM15	UMCf	97.1 - 107.1	<0.735	<0.745	<0.665	<0.790	<0.500	<0.940	<0.710	<1.15	<1.19	<2.41
U4-MW-12D	12/12/2023	N	EM16	UMCf	97.1 - 107.1	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-12D	1/24/2024	N	EM17	UMCf	97.1 - 107.1	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-12D	2/13/2024	N	EM18	UMCf	97.1 - 107.1	<2.94	<2.98	<2.66	<3.16	<2.00	<3.76	<2.84	<4.60	<4.74	<9.62
U4-MW-12D	3/12/2024	N	EM19	UMCf	97.1 - 107.1	<2.94	<2.98	<2.66	<3.16	<2.00	<3.76	<2.84	<4.60	<4.74	<9.62
U4-MW-12D	6/12/2024	N	EM20	UMCf	97.1 - 107.1	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-12I	4/14/2022	N	BL02	UMCf	76.8 - 86.8	<0.147	<0.149	<0.133	<0.158	<0.100	0.465 J	<0.142	<0.230	<0.237	<0.481
U4-MW-12I	4/14/2022	FD	BL02	UMCf	76.8 - 86.8	<0.147	<0.149	<0.133	<0.158	<0.100	0.461 J	<0.142	<0.230	<0.237	<0.481
U4-MW-12I	9/27/2022	N	EM01	UMCf	76.8 - 86.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-12I	10/12/2022	N	EM02	UMCf	76.8 - 86.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-12I	11/2/2022	N	EM03	UMCf	76.8 - 86.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-12I	12/7/2022	N	EM04	UMCf	76.8 - 86.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-12I	12/7/2022	FD	EM04	UMCf	76.8 - 86.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-12I	1/13/2023	N	EM05	UMCf	76.8 - 86.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-12I	2/15/2023	N	EM06	UMCf	76.8 - 86.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230 UJ	<0.237	<0.481
U4-MW-12I	3/13/2023	N	EM07	UMCf	76.8 - 86.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-12I	4/17/2023	N	EM08	UMCf	76.8 - 86.8	<0.147 UJ	<0.149 UJ	<0.133 UJ	<0.158 UJ	<0.100 UJ	<0.188 UJ	<0.142 UJ	<0.230 UJ	<0.237 UJ	<0.481 UJ
U4-MW-12I	5/17/2023	N	EM09	UMCf	76.8 - 86.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-12I	6/16/2023	N	EM10	UMCf	76.8 - 86.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-12I	7/11/2023	N	EM11	UMCf	76.8 - 86.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-12I	8/14/2023	N	EM12	UMCf	76.8 - 86.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-12I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-12I	10/17/2023	N	EM14	UMCf	76.8 - 86.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-12I	11/16/2023	N	EM15	UMCf	76.8 - 86.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-12I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-12I	1/24/2024	N	EM17	UMCf	76.8 - 86.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-12I	2/13/2024	N	EM18	UMCf	76.8 - 86.8	<2.94	<2.98	<2.66	<3.16	<2.00	<3.76	<2.84	<4.60	<4.74	<9.62
U4-MW-12I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	<2.94	<2.98	<2.66	<3.16	<2.00	<3.76	<2.84	<4.60	<4.74	<9.62
U4-MW-12I	6/13/2024	N	EM20	UMCf	76.8 - 86.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-13D	4/14/2022	N	BL02	UMCf	98.2 - 108.2	<0.147	<0.149	<0.133	<0.158	<0.100	0.565 J	<0.142	<0.230	<0.237	<0.481
U4-MW-13D	9/28/2022	N	EM01	UMCf	98.2 - 108.2	<1.47	<1.49	<1.33	<1.58	<1.00	<1.88	<1.42	<2.30	<2.37	<4.81
U4-MW-13D	10/11/2022	N	EM02	UMCf	98.2 - 108.2	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-13D	11/3/2022	N	EM03	UMCf	98.2 - 108.2	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-13D	12/7/2022	N	EM04	UMCf	98.2 - 108.2	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-13D	1/12/2023	N	EM05	UMCf	98.2 - 108.2	<2.94	<2.98	<2.66	<3.16	<2.00	<3.76	<2.84	<4.60	<4.74	<9.62

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
						1,1,1,2-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	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-13D	2/15/2023	N	EM06	UMCf	98.2 - 108.2	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-13D	3/17/2023	N	EM07	UMCf	98.2 - 108.2	<2.94	<2.98	<2.66	<3.16	<2.00	<3.76	<2.84	<4.60	<4.74	<9.62
U4-MW-13D	4/18/2023	N	EM08	UMCf	98.2 - 108.2	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-13D	5/17/2023	N	EM09	UMCf	98.2 - 108.2	<2.94	<2.98	<2.66	<3.16	<2.00	<3.76	<2.84	<4.60	<4.74	<9.62
U4-MW-13D	6/15/2023	N	EM10	UMCf	98.2 - 108.2	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-13D	7/12/2023	N	EM11	UMCf	98.2 - 108.2	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-13D	8/11/2023	N	EM12	UMCf	98.2 - 108.2	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-13D	9/11/2023	N	EM13	UMCf	98.2 - 108.2	<3.68	<3.73	<3.33	<3.95	<2.50	<4.70	<3.55	<5.75	<5.93	<12.0
U4-MW-13D	10/18/2023	N	EM14	UMCf	98.2 - 108.2	<3.68	<3.73	<3.33	<3.95	<2.50	<4.70	<3.55	<5.75	<5.93	<12.0
U4-MW-13D	11/15/2023	N	EM15	UMCf	98.2 - 108.2	<3.68	<3.73	<3.33	<3.95	<2.50	<4.70	<3.55	<5.75	<5.93	<12.0
U4-MW-13D	12/11/2023	N	EM16	UMCf	98.2 - 108.2	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-13D	1/23/2024	N	EM17	UMCf	98.2 - 108.2	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-13D	2/12/2024	N	EM18	UMCf	98.2 - 108.2	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-13D	3/11/2024	N	EM19	UMCf	98.2 - 108.2	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-13D	6/13/2024	N	EM20	UMCf	98.2 - 108.2	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-13I	4/14/2022	N	BL02	UMCf	77.1 - 87.1	<0.147	<0.149	<0.133	<0.158	<0.100	0.403 J	<0.142	<0.230	<0.237	<0.481
U4-MW-13I	9/28/2022	N	EM01	UMCf	77.1 - 87.1	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-13I	10/10/2022	N	EM02	UMCf	77.1 - 87.1	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-13I	11/3/2022	N	EM03	UMCf	77.1 - 87.1	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-13I	12/6/2022	N	EM04	UMCf	77.1 - 87.1	<0.735 UJ	<0.745 UJ	<0.665 UJ	<0.790 UJ	<0.500 UJ	<0.940 UJ	<0.710 UJ	<1.15 UJ	<1.19 UJ	<2.41 UJ
U4-MW-13I	1/12/2023	N	EM05	UMCf	77.1 - 87.1	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-13I	2/14/2023	N	EM06	UMCf	77.1 - 87.1	<0.735	<0.745	<0.665	<0.790	<0.500	<0.940	<0.710	<1.15	<1.19	<2.41
U4-MW-13I	3/16/2023	N	EM07	UMCf	77.1 - 87.1	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-13I	4/19/2023	N	EM08	UMCf	77.1 - 87.1	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-13I	5/17/2023	N	EM09	UMCf	77.1 - 87.1	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-13I	6/15/2023	N	EM10	UMCf	77.1 - 87.1	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-13I	7/12/2023	N	EM11	UMCf	77.1 - 87.1	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-13I	8/11/2023	N	EM12	UMCf	77.1 - 87.1	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-13I	9/11/2023	N	EM13	UMCf	77.1 - 87.1	<3.68	<3.73	<3.33	<3.95	<2.50	<4.70	<3.55	<5.75	<5.93	<12.0
U4-MW-13I	10/17/2023	N	EM14	UMCf	77.1 - 87.1	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-13I	11/15/2023	N	EM15	UMCf	77.1 - 87.1	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-13I	12/11/2023	N	EM16	UMCf	77.1 - 87.1	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-13I	1/23/2024	N	EM17	UMCf	77.1 - 87.1	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-13I	2/12/2024	N	EM18	UMCf	77.1 - 87.1	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-13I	3/11/2024	N	EM19	UMCf	77.1 - 87.1	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-13I	6/13/2024	N	EM20	UMCf	77.1 - 87.1	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-14D	4/13/2022	N	BL02	UMCf	97.3 - 107.3	<0.147	<0.149	<0.133	<0.158	<0.100	0.409 J	<0.142	<0.230	<0.237	<0.481
U4-MW-14D	12/6/2022	N	EM04	UMCf	97.3 - 107.3	<0.735 UJ	<0.745 UJ	<0.665 UJ	<0.790 UJ	<0.500 UJ	<0.940 UJ	<0.710 UJ	<1.15 UJ	<1.19 UJ	<2.41 UJ
U4-MW-14D	3/16/2023	N	EM07	UMCf	97.3 - 107.3	<0.735	<0.745	<0.665	<0.790	<0.500	<0.940	<0.710	<1.15	<1.19	<2.41
U4-MW-14D	6/15/2023	N	EM10	UMCf	97.3 - 107.3	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-14D	9/14/2023	N	EM13	UMCf	97.3 - 107.3	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-14D	12/15/2023	N	EM16	UMCf	97.3 - 107.3	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-14D	3/13/2024	N	EM19	UMCf	97.3 - 107.3	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481

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
						1,1,1,2-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	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene
						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	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-14I	4/14/2022	N	BL02	UMCf	77.3 - 87.3	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-14I	12/6/2022	N	EM04	UMCf	77.3 - 87.3	<0.735 UJ	<0.745 UJ	<0.665 UJ	<0.790 UJ	<0.500 UJ	<0.940 UJ	<0.710 UJ	<1.15 UJ	<1.19 UJ	<2.41 UJ
U4-MW-14I	3/16/2023	N	EM07	UMCf	77.3 - 87.3	<0.735	<0.745	<0.665	<0.790	<0.500	<0.940	<0.710	<1.15	<1.19	<2.41
U4-MW-14I	6/15/2023	N	EM10	UMCf	77.3 - 87.3	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-14I	9/14/2023	N	EM13	UMCf	77.3 - 87.3	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-14I	12/14/2023	N	EM16	UMCf	77.3 - 87.3	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-14I	3/13/2024	N	EM19	UMCf	77.3 - 87.3	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-14I	6/14/2024	N	EM20	UMCf	77.3 - 87.3	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-15D	4/13/2022	N	BL02	UMCf	96.0 - 106.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-15D	12/5/2022	N	EM04	UMCf	96.0 - 106.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-15D	3/20/2023	N	EM07	UMCf	96.0 - 106.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-15D	6/14/2023	N	EM10	UMCf	96.0 - 106.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-15D	9/13/2023	N	EM13	UMCf	96.0 - 106.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-15D	12/12/2023	N	EM16	UMCf	96.0 - 106.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-15D	3/12/2024	N	EM19	UMCf	96.0 - 106.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-15D	6/14/2024	N	EM20	UMCf	96.0 - 106.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-15DD	4/13/2022	N	BL02	UMCf	120.3 - 130.3	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-15DD	12/5/2022	N	EM04	UMCf	120.3 - 130.3	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-15DD	3/15/2023	N	EM07	UMCf	120.3 - 130.3	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-15DD	6/13/2023	N	EM10	UMCf	120.3 - 130.3	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-15DD	9/14/2023	N	EM13	UMCf	120.3 - 130.3	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-15DD	12/13/2023	N	EM16	UMCf	120.3 - 130.3	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-15DD	3/12/2024	N	EM19	UMCf	120.3 - 130.3	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-15DD	6/14/2024	N	EM20	UMCf	120.3 - 130.3	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-15I	4/12/2022	N	BL02	UMCf	76.8 - 86.8	<0.147	<0.149	<0.133	<0.158	<0.100	0.367 J	<0.142	<0.230	<0.237	<0.481
U4-MW-15I	12/5/2022	N	EM04	UMCf	76.8 - 86.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-15I	3/17/2023	N	EM07	UMCf	76.8 - 86.8	<2.94	<2.98	<2.66	<3.16	<2.00	<3.76	<2.84	<4.60	<4.74	<9.62
U4-MW-15I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-15I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-15I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-15I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5	<11.9	<24.1
U4-MW-15I	6/17/2024	N	EM20	UMCf	76.8 - 86.8	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5	<11.9	<24.1
U4-MW-15S	4/13/2022	N	BL02	UMCf	54.8 - 64.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-15S	12/5/2022	N	EM04	UMCf	54.8 - 64.8	<3.68	<3.73	<3.33	<3.95	<2.50	<4.70	<3.55	<5.75	<5.93	<12.0
U4-MW-15S	3/13/2023	N	EM07	UMCf	54.8 - 64.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-15S	6/13/2023	N	EM10	UMCf	54.8 - 64.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-15S	9/14/2023	N	EM13	UMCf	54.8 - 64.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-15S	12/11/2023	N	EM16	UMCf	54.8 - 64.8	<0.294	<0.298	<0.266	<0.316	<0.200	<0.376	<0.284	<0.460	<0.474	<0.962
U4-MW-15S	3/12/2024	N	EM19	UMCf	54.8 - 64.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-15S	3/26/2024	N	EM19	UMCf	54.8 - 64.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-15S	6/14/2024	N	EM20	UMCf	54.8 - 64.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-16D	4/11/2022	N	BL02	UMCf	96.8 - 106.8	<0.147	<0.149	<0.133	<0.158	<0.100	0.237 J	<0.142	<0.230	<0.237	<0.481

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
						1,1,1,2-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	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-16D	12/5/2022	N	EM04	UMCf	96.8 - 106.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-16D	3/14/2023	N	EM07	UMCf	96.8 - 106.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-16D	6/13/2023	N	EM10	UMCf	96.8 - 106.8	<0.147	<0.149	<0.133	<0.158	<0.100	0.189 J	0.196 J	<0.230	<0.237	<0.481
U4-MW-16D	9/15/2023	N	EM13	UMCf	96.8 - 106.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-16D	12/14/2023	N	EM16	UMCf	96.8 - 106.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-16D	3/14/2024	N	EM19	UMCf	96.8 - 106.8	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5	<11.9	<24.1
U4-MW-16D	6/17/2024	N	EM20	UMCf	96.8 - 106.8	<7.35	<7.45	<6.65	<7.90	<5.00	<9.40	<7.10	<11.5	<11.9	<24.1
U4-MW-16DD	4/12/2022	N	BL02	UMCf	120.8 - 130.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-16DD	12/5/2022	N	EM04	UMCf	120.8 - 130.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-16DD	3/15/2023	N	EM07	UMCf	120.8 - 130.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-16DD	6/13/2023	N	EM10	UMCf	120.8 - 130.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-16DD	9/14/2023	N	EM13	UMCf	120.8 - 130.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-16DD	12/13/2023	N	EM16	UMCf	120.8 - 130.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-16DD	3/14/2024	N	EM19	UMCf	120.8 - 130.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-16DD	6/17/2024	N	EM20	UMCf	120.8 - 130.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-16I	4/11/2022	N	BL02	UMCf	77.0 - 87.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-16I	12/5/2022	N	EM04	UMCf	77.0 - 87.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-16I	12/5/2022	FD	EM04	UMCf	77.0 - 87.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-16I	3/13/2023	N	EM07	UMCf	77.0 - 87.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-16I	3/13/2023	FD	EM07	UMCf	77.0 - 87.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-16I	6/12/2023	N	EM10	UMCf	77.0 - 87.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230 UJ	<0.237	<0.481
U4-MW-16I	6/12/2023	FD	EM10	UMCf	77.0 - 87.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230 UJ	<0.237	<0.481
U4-MW-16I	9/11/2023	N	EM13	UMCf	77.0 - 87.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-16I	9/11/2023	FD	EM13	UMCf	77.0 - 87.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-16I	12/11/2023	N	EM16	UMCf	77.0 - 87.0	<0.147	<0.149	<0.133	<0.158	<0.100	0.201 J	<0.142	<0.230	<0.237	<0.481
U4-MW-16I	12/11/2023	FD	EM16	UMCf	77.0 - 87.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-16I	3/11/2024	N	EM19	UMCf	77.0 - 87.0	<0.147	<0.149	<0.133	<0.158	<0.100	0.447 J	<0.142	<0.230	<0.237	<0.481
U4-MW-16I	3/11/2024	FD	EM19	UMCf	77.0 - 87.0	<0.147	<0.149	<0.133	<0.158	<0.100	0.405 J	<0.142	<0.230	<0.237	<0.481
U4-MW-16I	6/18/2024	N	EM20	UMCf	77.0 - 87.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-16I	6/18/2024	FD	EM20	UMCf	77.0 - 87.0	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-16S	4/12/2022	N	BL02	UMCf	54.8 - 64.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-16S	4/12/2022	FD	BL02	UMCf	54.8 - 64.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-16S	12/6/2022	N	EM04	UMCf	54.8 - 64.8	<0.147 UJ	<0.149 UJ	<0.133 UJ	<0.158 UJ	<0.100 UJ	<0.188 UJ	<0.142 UJ	<0.230 UJ	<0.237 UJ	<0.481 UJ
U4-MW-16S	3/15/2023	N	EM07	UMCf	54.8 - 64.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-16S	6/13/2023	N	EM10	UMCf	54.8 - 64.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-16S	9/11/2023	N	EM13	UMCf	54.8 - 64.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-16S	12/11/2023	N	EM16	UMCf	54.8 - 64.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-16S	3/11/2024	N	EM19	UMCf	54.8 - 64.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-MW-16S	6/17/2024	N	EM20	UMCf	54.8 - 64.8	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-SLMW	11/10/2022	N	EM03		-	<0.735	<0.745	<0.665	<0.790	<0.500	<0.940	<0.710	<1.15	<1.19	<2.41
U4-T3	10/13/2022	N	EM02		-	<0.147	<0.149	<0.133	<0.158	<0.100	0.284 J	0.271 J	<0.230	<0.237	<0.481
U4-T3	11/3/2022	N	EM03		-	<0.147	<0.149	<0.133	<0.158	<0.100	0.293 J	0.376 J	<0.230	<0.237	<0.481
U4-T3	12/6/2022	N	EM04		-	<2.94 UJ	<2.98 UJ	<2.66 UJ	<3.16 UJ	<2.00 UJ	<3.76 UJ	<2.84 UJ	<4.60 UJ	<4.74 UJ	<9.62 UJ

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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
						1,1,1,2-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	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-T3	1/9/2023	N	EM05		-	<0.147	<0.149	<0.133	<0.158	<0.100	0.236 J	0.273 J	<0.230	<0.237	<0.481
U4-T3	2/13/2023	N	EM06		-	<14.7	<14.9	<13.3	<15.8	<10.0	<18.8	<14.2	<23.0	<23.7	<48.1
U4-T3	3/13/2023	N	EM07		-	<3.68	<3.73	<3.33	<3.95	<2.50	<4.70	<3.55	<5.75	<5.93	<12.0
U4-T3	4/19/2023	N	EM08		-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	0.143 J	<0.230	<0.237	<0.481
U4-T3	5/18/2023	N	EM09		-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-T3	6/12/2023	N	EM10		-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230 UJ	<0.237	<0.481
U4-T3	7/11/2023	N	EM11		-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-T3	8/10/2023	N	EM12		-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-T3	9/11/2023	N	EM13		-	<0.147	<0.149	<0.133	<0.158	<0.100	<0.188	<0.142	<0.230	<0.237	<0.481
U4-T3	10/16/2023	N	EM14		-	<3.68	<3.73	<3.33	<3.95	<2.50	<4.70	<3.55	<5.75	<5.93	<12.0

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 sample quantitation limit.
- 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.

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
						1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene (Mesitylene)	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene
						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	<0.322	<0.276	<0.126	<0.107	0.346 J	<0.149	<0.104	<0.110	<0.110	<0.120
M-251-100	10/13/2022	N	EM02	UMCf	92.5 - 102.5	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
M-251-100	11/2/2022	N	EM03	UMCf	92.5 - 102.5	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04	<1.10	<1.10	<1.20
M-251-100	12/8/2022	N	EM04	UMCf	92.5 - 102.5	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
M-251-100	1/11/2023	N	EM05	UMCf	92.5 - 102.5	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
M-251-100	2/13/2023	N	EM06	UMCf	92.5 - 102.5	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
M-251-100	3/17/2023	N	EM07	UMCf	92.5 - 102.5	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20	<5.50	<5.50	<6.00
M-251-100	4/21/2023	N	EM08	UMCf	92.5 - 102.5	<0.322	<0.276	<0.126	<0.107	0.142 J	<0.149	<0.104	<0.110	<0.110	<0.120
M-251-100	5/9/2023	N	EM09	UMCf	92.5 - 102.5	<0.322	<0.276	<0.126	<0.107	0.171 J	<0.149	<0.104	<0.110	<0.110	<0.120
M-251-100	6/14/2023	N	EM10	UMCf	92.5 - 102.5	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20	<5.50	<5.50	<6.00
M-251-100	7/14/2023	N	EM11	UMCf	92.5 - 102.5	<0.322	<0.276	<0.126	<0.107	0.126 J	<0.149	<0.104	<0.110	<0.110	<0.120
M-251-100	8/10/2023	N	EM12	UMCf	92.5 - 102.5	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
M-251-100	9/14/2023	N	EM13	UMCf	92.5 - 102.5	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
M-251-100	10/19/2023	N	EM14	UMCf	92.5 - 102.5	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
M-251-100	11/16/2023	N	EM15	UMCf	92.5 - 102.5	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20	<5.50	<5.50	<6.00
M-251-100	12/12/2023	N	EM16	UMCf	92.5 - 102.5	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
M-251-100	1/25/2024	N	EM17	UMCf	92.5 - 102.5	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
M-251-100	2/13/2024	N	EM18	UMCf	92.5 - 102.5	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20	<5.50	<5.50	<6.00
M-251-100	3/11/2024	N	EM19	UMCf	92.5 - 102.5	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20	<5.50	<5.50	<6.00
M-251-100	6/17/2024	N	EM20	UMCf	92.5 - 102.5	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20	<5.50	<5.50	<6.00
M-251-60	4/18/2022	N	BL02	UMCf	52.3 - 62.3	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
M-251-60	3/15/2023	N	EM07	UMCf	52.3 - 62.3	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
M-251-60	6/14/2023	N	EM10	UMCf	52.3 - 62.3	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
M-251-60	9/14/2023	N	EM13	UMCf	52.3 - 62.3	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
M-251-60	12/11/2023	N	EM16	UMCf	52.3 - 62.3	<0.322	<0.276 UJ	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
M-251-60	3/12/2024	N	EM19	UMCf	52.3 - 62.3	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
M-251-60	6/19/2024	N	EM20	UMCf	52.3 - 62.3	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
M-252	4/21/2022	N	BL02	UMCf	132.3 - 142.3	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
M-252	3/15/2023	N	EM07	UMCf	132.3 - 142.3	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
M-252	9/19/2023	N	EM13	UMCf	132.3 - 142.3	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
M-252	12/18/2023	N	EM16	UMCf	132.3 - 142.3	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
M-252	3/12/2024	N	EM19	UMCf	132.3 - 142.3	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
M-252	6/19/2024	N	EM20	UMCf	132.3 - 142.3	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
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	<1.61	<1.38	<0.630	<0.535	<0.409	<0.745	<0.520	<0.550	<0.550	<0.600
U4-E-01D	3/14/2023	N	EM07	UMCf	94.7 - 109.7	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-01D	6/20/2024	N	EM20	UMCf	94.7 - 109.7	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04	<1.10	<1.10	<1.20
U4-E-01I	4/19/2022	N	BL02	UMCf	74.6 - 89.6	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-01I	4/19/2022	FD	BL02	UMCf	74.6 - 89.6	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-01I	3/14/2023	N	EM07	UMCf	74.6 - 89.6	<0.322	<0.276	<0.126	<0.107	0.0909 J	<0.149	<0.104	<0.110	<0.110	<0.120

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
						1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene (Mesitylene)	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene
						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	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-01I	5/10/2023	N	EM09	UMCf	74.6 - 89.6	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-01I	6/12/2023	N	EM10	UMCf	74.6 - 89.6	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-01I	7/11/2023	N	EM11	UMCf	74.6 - 89.6	<1.61	<1.38	<0.630	<0.535	<0.409	<0.745	<0.520	<0.550	<0.550	<0.600
U4-E-01I	8/10/2023	N	EM12	UMCf	74.6 - 89.6	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-01I	9/11/2023	N	EM13	UMCf	74.6 - 89.6	<1.61	<1.38	<0.630	<0.535	<0.409	<0.745	<0.520	<0.550	<0.550	<0.600
U4-E-01I	10/16/2023	N	EM14	UMCf	74.6 - 89.6	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-01I	12/13/2023	N	EM16	UMCf	74.6 - 89.6	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04	<1.10	<1.10	<1.20
U4-E-01I	1/24/2024	N	EM17	UMCf	74.6 - 89.6	<6.44	<5.52	<2.52	<2.14	<1.64	<2.98	<2.08	<2.20	<2.20	<2.40
U4-E-01I	2/14/2024	N	EM18	UMCf	74.6 - 89.6	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04	<1.10	<1.10	<1.20
U4-E-01I	3/12/2024	N	EM19	UMCf	74.6 - 89.6	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04	<1.10	<1.10	<1.20
U4-E-01I	6/20/2024	N	EM20	UMCf	74.6 - 89.6	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04	<1.10	<1.10	<1.20
U4-E-02D	4/20/2022	N	BL02	UMCf	94.4 - 109.4	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-02D	3/14/2023	N	EM07	UMCf	94.4 - 109.4	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-02D	6/19/2024	N	EM20	UMCf	94.4 - 109.4	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04	<1.10	<1.10	<1.20
U4-E-02I	4/18/2022	N	BL02	UMCf	74.4 - 89.4	<0.322 UJ	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104 R	<0.110	<0.110	<0.120
U4-E-02I	3/14/2023	N	EM07	UMCf	74.4 - 89.4	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-02I	4/20/2023	N	EM08	UMCf	74.4 - 89.4	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-02I	5/11/2023	N	EM09	UMCf	74.4 - 89.4	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-02I	6/12/2023	N	EM10	UMCf	74.4 - 89.4	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-02I	7/11/2023	N	EM11	UMCf	74.4 - 89.4	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-02I	8/10/2023	N	EM12	UMCf	74.4 - 89.4	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-02I	9/11/2023	N	EM13	UMCf	74.4 - 89.4	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-02I	10/16/2023	N	EM14	UMCf	74.4 - 89.4	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04	<1.10	<1.10	<1.20
U4-E-02I	12/14/2023	N	EM16	UMCf	74.4 - 89.4	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04	<1.10	<1.10	<1.20
U4-E-02I	1/22/2024	N	EM17	UMCf	74.4 - 89.4	<0.322	<0.276 UJ	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-02I	2/13/2024	N	EM18	UMCf	74.4 - 89.4	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-02I	3/13/2024	N	EM19	UMCf	74.4 - 89.4	<8.05	<6.90	<3.15	<2.68	<2.05	<3.73	<2.60	<2.75	<2.75	<3.00
U4-E-02I	6/19/2024	N	EM20	UMCf	74.4 - 89.4	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4	<11.0	<11.0	<12.0
U4-E-03D	4/19/2022	N	BL02	UMCf	95.1 - 110.1	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-03D	10/13/2022	N	EM02	UMCf	95.1 - 110.1	<64.4	<55.2	<25.2	<21.4	<16.4	<29.8	<20.8	<22.0	<22.0	<24.0
U4-E-03D	11/3/2022	N	EM03	UMCf	95.1 - 110.1	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-03D	12/6/2022	N	EM04	UMCf	95.1 - 110.1	<6.44 UJ	<5.52 UJ	<2.52 UJ	<2.14 UJ	<1.64 UJ	<2.98 UJ	<2.08 UJ	<2.20 UJ	<2.20 UJ	<2.40 UJ
U4-E-03D	1/9/2023	N	EM05	UMCf	95.1 - 110.1	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-03D	2/13/2023	N	EM06	UMCf	95.1 - 110.1	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4	<11.0	<11.0	<12.0
U4-E-03D	3/13/2023	N	EM07	UMCf	95.1 - 110.1	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4	<11.0	<11.0	<12.0
U4-E-03D	3/14/2023	N	EM07	UMCf	95.1 - 110.1	<64.4	<55.2	<25.2	<21.4	<16.4	<29.8	<20.8	<22.0	<22.0	<24.0
U4-E-03D	4/19/2023	N	EM08	UMCf	95.1 - 110.1	<1.61	<1.38	<0.630	<0.535	<0.409	<0.745	<0.520	<0.550	<0.550	<0.600
U4-E-03D	5/11/2023	N	EM09	UMCf	95.1 - 110.1	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-03D	6/12/2023	N	EM10	UMCf	95.1 - 110.1	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-03D	7/11/2023	N	EM11	UMCf	95.1 - 110.1	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-03D	8/10/2023	N	EM12	UMCf	95.1 - 110.1	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-03D	9/11/2023	N	EM13	UMCf	95.1 - 110.1	<0.322	<0.276	<0.126	<0.107	0.131 J	0.183 J	<0.104	<0.110	<0.110	<0.120

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
						1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene (Mesitylene)	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-E-03D	10/16/2023	N	EM14	UMCf	95.1 - 110.1	<64.4	<55.2	<25.2	<21.4	<16.4	<29.8	<20.8	<22.0	<22.0	<24.0
U4-E-03D	6/10/2024	N	EM20	UMCf	95.1 - 110.1	<6.44	<5.52	<2.52	<2.14	<1.64	<2.98	<2.08	<2.20	<2.20	<2.40
U4-E-03D	6/10/2024	FD	EM20	UMCf	95.1 - 110.1	<6.44	<5.52	<2.52	<2.14	<1.64	<2.98	<2.08	<2.20	<2.20	<2.40
U4-E-04D	4/19/2022	N	BL02	UMCf	95.0 - 110.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-04D	3/14/2023	N	EM07	UMCf	95.0 - 110.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-04D	6/20/2024	N	EM20	UMCf	95.0 - 110.0	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04	<1.10	<1.10	<1.20
U4-E-04I	4/18/2022	N	BL02	UMCf	75.0 - 90.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-04I	3/14/2023	N	EM07	UMCf	75.0 - 90.0	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20	<5.50	<5.50	<6.00
U4-E-04I	6/20/2024	N	EM20	UMCf	75.0 - 90.0	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04	<1.10	<1.10	<1.20
U4-E-05D	4/19/2022	N	BL02	UMCf	95.0 - 110.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-05D	3/16/2023	N	EM07	UMCf	95.0 - 110.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-05D	6/10/2024	N	EM20	UMCf	95.0 - 110.0	<6.44	<5.52	<2.52	<2.14	<1.64	<2.98	<2.08	<2.20	<2.20	<2.40
U4-E-05I	4/19/2022	N	BL02	UMCf	75.0 - 90.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-05I	3/15/2023	N	EM07	UMCf	75.0 - 90.0	<0.322 UJ	<0.276 UJ	<0.126 UJ	<0.107 UJ	<0.0819 UJ	<0.149 UJ	<0.104 UJ	<0.110 UJ	<0.110 UJ	<0.120 UJ
U4-E-05I	6/19/2024	N	EM20	UMCf	75.0 - 90.0	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20	<5.50	<5.50	<6.00
U4-E-06D	4/11/2022	N	BL02	UMCf	95.1 - 110.1	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-06D	6/20/2024	N	EM20	UMCf	95.1 - 110.1	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04	<1.10	<1.10	<1.20
U4-E-06I	4/11/2022	N	BL02	UMCf	73.2 - 88.2	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-06I	4/11/2022	FD	BL02	UMCf	73.2 - 88.2	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-06I	10/12/2022	N	EM02	UMCf	73.2 - 88.2	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-06I	11/3/2022	N	EM03	UMCf	73.2 - 88.2	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-06I	12/6/2022	N	EM04	UMCf	73.2 - 88.2	<3.22 UJ	<2.76 UJ	<1.26 UJ	<1.07 UJ	<0.819 UJ	<1.49 UJ	<1.04 UJ	<1.10 UJ	<1.10 UJ	<1.20 UJ
U4-E-06I	1/9/2023	N	EM05	UMCf	73.2 - 88.2	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-06I	2/13/2023	N	EM06	UMCf	73.2 - 88.2	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4	<11.0	<11.0	<12.0
U4-E-06I	3/13/2023	N	EM07	UMCf	73.2 - 88.2	<6.44	<5.52	<2.52	<2.14	<1.64	<2.98	<2.08	<2.20	<2.20	<2.40
U4-E-06I	4/17/2023	N	EM08	UMCf	73.2 - 88.2	<6.44	<5.52	<2.52	<2.14	<1.64	<2.98	<2.08	<2.20	<2.20	<2.40
U4-E-06I	5/15/2023	N	EM09	UMCf	73.2 - 88.2	<8.05	<6.90	<3.15	<2.68	<2.05	<3.73	<2.60	<2.75	<2.75	<3.00
U4-E-06I	6/12/2023	N	EM10	UMCf	73.2 - 88.2	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-06I	7/11/2023	N	EM11	UMCf	73.2 - 88.2	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-06I	8/11/2023	N	EM12	UMCf	73.2 - 88.2	<1.61	<1.38	<0.630	<0.535	<0.409	<0.745	<0.520	<0.550	<0.550	<0.600
U4-E-06I	9/11/2023	N	EM13	UMCf	73.2 - 88.2	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-06I	10/16/2023	N	EM14	UMCf	73.2 - 88.2	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20	<5.50	<5.50	<6.00
U4-E-06I	12/13/2023	N	EM16	UMCf	73.2 - 88.2	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-06I	1/22/2024	N	EM17	UMCf	73.2 - 88.2	<0.322	<0.276 UJ	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-06I	2/13/2024	N	EM18	UMCf	73.2 - 88.2	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20	<5.50	<5.50	<6.00
U4-E-06I	3/11/2024	N	EM19	UMCf	73.2 - 88.2	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20	<5.50	<5.50	<6.00
U4-E-06I	6/11/2024	N	EM20	UMCf	73.2 - 88.2	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-07D	4/12/2022	N	BL02	UMCf	94.6 - 109.6	<0.322	<0.276	<0.126	<0.107	0.205 J	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-07D	6/20/2024	N	EM20	UMCf	94.6 - 109.6	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04	<1.10	<1.10	<1.20
U4-E-07I	4/12/2022	N	BL02	UMCf	74.7 - 89.7	<0.322	<0.276	<0.126	<0.107	0.138 J	0.191 J	<0.104	<0.110	<0.110	<0.120
U4-E-07I	10/11/2022	N	EM02	UMCf	74.7 - 89.7	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04	<1.10	<1.10	<1.20
U4-E-07I	11/3/2022	N	EM03	UMCf	74.7 - 89.7	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-07I	12/6/2022	N	EM04	UMCf	74.7 - 89.7	<8.05 UJ	<6.90 UJ	<3.15 UJ	<2.68 UJ	<2.05 UJ	<3.73 UJ	<2.60 UJ	<2.75 UJ	<2.75 UJ	<3.00 UJ

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
						1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene (Mesitylene)	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-E-07I	1/9/2023	N	EM05	UMCf	74.7 - 89.7	<0.322	<0.276	<0.126	<0.107	0.137 J	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-07I	2/13/2023	N	EM06	UMCf	74.7 - 89.7	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4	<11.0	<11.0	<12.0
U4-E-07I	3/13/2023	N	EM07	UMCf	74.7 - 89.7	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4	<11.0	<11.0	<12.0
U4-E-07I	4/19/2023	N	EM08	UMCf	74.7 - 89.7	<1.61	<1.38	<0.630	<0.535	<0.409	<0.745	<0.520	<0.550	<0.550	<0.600
U4-E-07I	5/15/2023	N	EM09	UMCf	74.7 - 89.7	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4	<11.0	<11.0	<12.0
U4-E-07I	6/12/2023	N	EM10	UMCf	74.7 - 89.7	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-07I	7/11/2023	N	EM11	UMCf	74.7 - 89.7	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-07I	8/11/2023	N	EM12	UMCf	74.7 - 89.7	<1.61	<1.38	<0.630	<0.535	<0.409	<0.745	<0.520	<0.550	<0.550	<0.600
U4-E-07I	9/11/2023	N	EM13	UMCf	74.7 - 89.7	<0.322	<0.276	<0.126	<0.107	0.105 J	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-07I	10/16/2023	N	EM14	UMCf	74.7 - 89.7	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4	<11.0	<11.0	<12.0
U4-E-07I	12/13/2023	N	EM16	UMCf	74.7 - 89.7	<0.322	<0.276	<0.126	<0.107	0.104 J	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-07I	1/23/2024	N	EM17	UMCf	74.7 - 89.7	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-07I	2/13/2024	N	EM18	UMCf	74.7 - 89.7	<64.4	<55.2	<25.2	<21.4	<16.4	<29.8	<20.8	<22.0	<22.0	<24.0
U4-E-07I	3/11/2024	N	EM19	UMCf	74.7 - 89.7	<64.4	<55.2	<25.2	<21.4	<16.4	<29.8	<20.8	<22.0	<22.0	<24.0
U4-E-07I	6/11/2024	N	EM20	UMCf	74.7 - 89.7	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-08D	4/12/2022	N	BL02	UMCf	94.6 - 109.6	<0.322	<0.276	<0.126	<0.107	0.240 J	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-08D	10/11/2022	N	EM02	UMCf	94.6 - 109.6	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04	<1.10	<1.10	<1.20
U4-E-08D	11/3/2022	N	EM03	UMCf	94.6 - 109.6	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-08D	12/6/2022	N	EM04	UMCf	94.6 - 109.6	<8.05 UJ	<6.90 UJ	<3.15 UJ	<2.68 UJ	<2.05 UJ	<3.73 UJ	<2.60 UJ	<2.75 UJ	<2.75 UJ	<3.00 UJ
U4-E-08D	1/9/2023	N	EM05	UMCf	94.6 - 109.6	<0.322	<0.276	<0.126	<0.107	0.131 J	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-08D	2/13/2023	N	EM06	UMCf	94.6 - 109.6	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4	<11.0	<11.0	<12.0
U4-E-08D	3/13/2023	N	EM07	UMCf	94.6 - 109.6	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4	<11.0	<11.0	<12.0
U4-E-08D	4/19/2023	N	EM08	UMCf	94.6 - 109.6	<1.61	<1.38	<0.630	<0.535	<0.409	<0.745	<0.520	<0.550	<0.550	<0.600
U4-E-08D	5/17/2023	N	EM09	UMCf	94.6 - 109.6	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4	<11.0	<11.0	<12.0
U4-E-08D	6/12/2023	N	EM10	UMCf	94.6 - 109.6	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-08D	7/11/2023	N	EM11	UMCf	94.6 - 109.6	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-09D	4/15/2022	N	BL02	UMCf	94.5 - 109.5	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-09D	6/10/2024	N	EM20	UMCf	94.5 - 109.5	<6.44	<5.52	<2.52	<2.14	<1.64	<2.98	<2.08	<2.20	<2.20	<2.40
U4-E-09I	4/14/2022	N	BL02	UMCf	74.9 - 89.9	<0.322	<0.276	<0.126	<0.107	0.118 J	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-09I	6/10/2024	N	EM20	UMCf	74.9 - 89.9	<6.44	<5.52	<2.52	<2.14	<1.64	<2.98	<2.08	<2.20	<2.20	<2.40
U4-E-09I	6/10/2024	FD	EM20	UMCf	74.9 - 89.9	<6.44	<5.52	<2.52	<2.14	<1.64	<2.98	<2.08	<2.20	<2.20	<2.40
U4-E-10D	4/13/2022	N	BL02	UMCf	94.5 - 109.5	<0.322	<0.276	<0.126	<0.107	0.132 J	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-10D	6/19/2024	N	EM20	UMCf	94.5 - 109.5	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04	<1.10	<1.10	<1.20
U4-E-10I	4/13/2022	N	BL02	UMCf	74.2 - 89.2	<0.322	<0.276	<0.126	<0.107	0.120 J	<0.149	<0.104	<0.110	<0.110	<0.120
U4-E-10I	6/11/2024	N	EM20	UMCf	74.2 - 89.2	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4	<11.0	<11.0	<12.0
U4-MW-01D	4/19/2022	N	BL02	UMCf	96.7 - 106.7	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-01D	2/16/2023	N	EM06	UMCf	96.7 - 106.7	<3.22 UJ	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04	<1.10	<1.10	<1.20
U4-MW-01D	3/20/2023	N	EM07	UMCf	96.7 - 106.7	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-01D	6/13/2023	N	EM10	UMCf	96.7 - 106.7	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-01D	9/14/2023	N	EM13	UMCf	96.7 - 106.7	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-01D	12/14/2023	N	EM16	UMCf	96.7 - 106.7	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-01D	3/13/2024	N	EM19	UMCf	96.7 - 106.7	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-01D	6/18/2024	N	EM20	UMCf	96.7 - 106.7	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120

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
						1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene (Mesitylene)	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-01DD	4/19/2022	N	BL02	UMCf	119.9 - 129.9	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-01DD	4/19/2022	FD	BL02	UMCf	119.9 - 129.9	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-01DD	3/15/2023	N	EM07	UMCf	119.9 - 129.9	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-01DD	6/13/2023	N	EM10	UMCf	119.9 - 129.9	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-01DD	9/14/2023	N	EM13	UMCf	119.9 - 129.9	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-01DD	12/15/2023	N	EM16	UMCf	119.9 - 129.9	<1.61	<1.38	<0.630	<0.535	<0.409	<0.745	<0.520	<0.550	<0.550	<0.600
U4-MW-01DD	3/12/2024	N	EM19	UMCf	119.9 - 129.9	<1.61	<1.38	<0.630	<0.535	<0.409	<0.745	<0.520	<0.550	<0.550	<0.600
U4-MW-01DD	6/18/2024	N	EM20	UMCf	119.9 - 129.9	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-01I	4/19/2022	N	BL02	UMCf	76.7 - 86.7	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-01I	3/20/2023	N	EM07	UMCf	76.7 - 86.7	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-01I	6/12/2023	N	EM10	UMCf	76.7 - 86.7	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-01I	9/14/2023	N	EM13	UMCf	76.7 - 86.7	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-01I	12/15/2023	N	EM16	UMCf	76.7 - 86.7	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20	<5.50	<5.50	<6.00
U4-MW-01I	3/13/2024	N	EM19	UMCf	76.7 - 86.7	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-01I	6/18/2024	N	EM20	UMCf	76.7 - 86.7	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-01S	4/18/2022	N	BL02	UMCf	54.7 - 64.7	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-01S	3/15/2023	N	EM07	UMCf	54.7 - 64.7	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-01S	6/13/2023	N	EM10	UMCf	54.7 - 64.7	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-01S	9/15/2023	N	EM13	UMCf	54.7 - 64.7	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-01S	12/13/2023	N	EM16	UMCf	54.7 - 64.7	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-01S	3/13/2024	N	EM19	UMCf	54.7 - 64.7	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-01S	6/18/2024	N	EM20	UMCf	54.7 - 64.7	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-02D	4/14/2022	N	BL02	UMCf	95.0 - 110.0	<0.322	<0.276	<0.126	<0.107	0.322 J	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-02D	10/11/2022	N	EM02	UMCf	95.0 - 110.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-02D	11/1/2022	N	EM03	UMCf	95.0 - 110.0	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20	<5.50	<5.50	<6.00
U4-MW-02D	12/7/2022	N	EM04	UMCf	95.0 - 110.0	<0.322	<0.276	<0.126	<0.107	0.360 J	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-02D	1/10/2023	N	EM05	UMCf	95.0 - 110.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-02D	2/13/2023	N	EM06	UMCf	95.0 - 110.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-02D	3/17/2023	N	EM07	UMCf	95.0 - 110.0	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4	<11.0	<11.0	<12.0
U4-MW-02D	4/19/2023	N	EM08	UMCf	95.0 - 110.0	<1.61	<1.38	<0.630	<0.535	<0.409	<0.745	<0.520	<0.550	<0.550	<0.600
U4-MW-02D	5/9/2023	N	EM09	UMCf	95.0 - 110.0	<1.61	<1.38	<0.630	<0.535	0.515 J	<0.745	<0.520	<0.550	<0.550	<0.600
U4-MW-02D	6/13/2023	N	EM10	UMCf	95.0 - 110.0	<0.322	<0.276	<0.126	<0.107	0.199 J	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-02D	7/18/2023	N	EM11	UMCf	95.0 - 110.0	0.391 J	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-02D	8/14/2023	N	EM12	UMCf	95.0 - 110.0	<80.5	<69.0	<31.5	<26.8	<20.5	<37.3	<26.0	<27.5	<27.5	<30.0
U4-MW-02D	9/11/2023	N	EM13	UMCf	95.0 - 110.0	<0.322	<0.276	<0.126	<0.107	<0.0819	0.155 J	<0.104	<0.110	<0.110	<0.120
U4-MW-02D	10/19/2023	N	EM14	UMCf	95.0 - 110.0	<0.322	<0.276	<0.126	<0.107	0.348 J	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-02D	11/15/2023	N	EM15	UMCf	95.0 - 110.0	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4	<11.0	<11.0	<12.0
U4-MW-02D	12/14/2023	N	EM16	UMCf	95.0 - 110.0	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4	<11.0	<11.0	<12.0
U4-MW-02D	1/25/2024	N	EM17	UMCf	95.0 - 110.0	<0.322	<0.276	<0.126	<0.107	0.268 J	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-02D	2/12/2024	N	EM18	UMCf	95.0 - 110.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-02D	3/13/2024	N	EM19	UMCf	95.0 - 110.0	<0.322	<0.276	<0.126	<0.107	0.211 J	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-02D	6/17/2024	N	EM20	UMCf	95.0 - 110.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-02I	4/14/2022	N	BL02	UMCf	75.0 - 90.0	<0.322	<0.276	<0.126	<0.107	0.102 J	<0.149	<0.104	<0.110	<0.110	<0.120

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
						1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene (Mesitylene)	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-02I	10/11/2022	N	EM02	UMCf	75.0 - 90.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-02I	11/2/2022	N	EM03	UMCf	75.0 - 90.0	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04	<1.10	<1.10	<1.20
U4-MW-02I	11/2/2022	FD	EM03	UMCf	75.0 - 90.0	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04	<1.10	<1.10	<1.20
U4-MW-02I	12/8/2022	N	EM04	UMCf	75.0 - 90.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-02I	12/8/2022	FD	EM04	UMCf	75.0 - 90.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-02I	1/13/2023	N	EM05	UMCf	75.0 - 90.0	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04	<1.10	<1.10	<1.20
U4-MW-02I	1/13/2023	FD	EM05	UMCf	75.0 - 90.0	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04	<1.10	<1.10	<1.20
U4-MW-02I	2/15/2023	N	EM06	UMCf	75.0 - 90.0	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04	<1.10	<1.10	<1.20
U4-MW-02I	2/15/2023	FD	EM06	UMCf	75.0 - 90.0	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04	<1.10	<1.10	<1.20
U4-MW-02I	3/17/2023	N	EM07	UMCf	75.0 - 90.0	<64.4	<55.2	<25.2	<21.4	<16.4	<29.8	<20.8	<22.0	<22.0	<24.0
U4-MW-02I	3/17/2023	FD	EM07	UMCf	75.0 - 90.0	<64.4	<55.2	<25.2	<21.4	<16.4	<29.8	<20.8	<22.0	<22.0	<24.0
U4-MW-02I	4/20/2023	N	EM08	UMCf	75.0 - 90.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-02I	4/20/2023	FD	EM08	UMCf	75.0 - 90.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-02I	5/9/2023	N	EM09	UMCf	75.0 - 90.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-02I	5/9/2023	FD	EM09	UMCf	75.0 - 90.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-02I	6/12/2023	N	EM10	UMCf	75.0 - 90.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-02I	6/12/2023	FD	EM10	UMCf	75.0 - 90.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-02I	7/18/2023	N	EM11	UMCf	75.0 - 90.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-02I	7/18/2023	FD	EM11	UMCf	75.0 - 90.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-02I	8/11/2023	N	EM12	UMCf	75.0 - 90.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-02I	8/11/2023	FD	EM12	UMCf	75.0 - 90.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-02I	9/11/2023	N	EM13	UMCf	75.0 - 90.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-02I	9/11/2023	FD	EM13	UMCf	75.0 - 90.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-02I	10/19/2023	N	EM14	UMCf	75.0 - 90.0	<0.322 UJ	<0.276 UJ	<0.126 UJ	<0.107 UJ	<0.0819 UJ	<0.149 UJ	<0.104 UJ	<0.110 UJ	<0.110 UJ	<0.120 UJ
U4-MW-02I	10/19/2023	FD	EM14	UMCf	75.0 - 90.0	<0.322	<0.276	<0.126	<0.107	0.203 J	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-02I	11/15/2023	N	EM15	UMCf	75.0 - 90.0	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20	<5.50	<5.50	<6.00
U4-MW-02I	11/15/2023	FD	EM15	UMCf	75.0 - 90.0	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20	<5.50	<5.50	<6.00
U4-MW-02I	12/14/2023	N	EM16	UMCf	75.0 - 90.0	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20	<5.50	<5.50	<6.00
U4-MW-02I	12/14/2023	FD	EM16	UMCf	75.0 - 90.0	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20	<5.50	<5.50	<6.00
U4-MW-02I	1/25/2024	N	EM17	UMCf	75.0 - 90.0	<0.322	<0.276	<0.126	<0.107	0.201 J	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-02I	1/25/2024	FD	EM17	UMCf	75.0 - 90.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-02I	2/12/2024	N	EM18	UMCf	75.0 - 90.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-02I	2/12/2024	FD	EM18	UMCf	75.0 - 90.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-02I	3/13/2024	N	EM19	UMCf	75.0 - 90.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-02I	3/13/2024	FD	EM19	UMCf	75.0 - 90.0	<0.322	<0.276	<0.126	<0.107	0.152 J	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-02I	6/17/2024	N	EM20	UMCf	75.0 - 90.0	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20	<5.50	<5.50	<6.00
U4-MW-02I	6/17/2024	FD	EM20	UMCf	75.0 - 90.0	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20	<5.50	<5.50	<6.00
U4-MW-03D	4/20/2022	N	BL02	UMCf	96.6 - 106.6	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-03D	2/16/2023	N	EM06	UMCf	96.6 - 106.6	<1.61 UJ	<1.38	<0.630	<0.535	<0.409	<0.745	<0.520	<0.550	<0.550	<0.600
U4-MW-03D	3/16/2023	N	EM07	UMCf	96.6 - 106.6	<6.44	<5.52	<2.52	<2.14	<1.64	<2.98	<2.08	<2.20	<2.20	<2.40
U4-MW-03D	3/16/2023	FD	EM07	UMCf	96.6 - 106.6	<1.61	<1.38	<0.630	<0.535	<0.409	<0.745	<0.520 UJ	<0.550	<0.550	<0.600
U4-MW-03D	6/15/2023	N	EM10	UMCf	96.6 - 106.6	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-03D	9/14/2023	N	EM13	UMCf	96.6 - 106.6	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120

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
						1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene (Mesitylene)	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-03D	12/13/2023	N	EM16	UMCf	96.6 - 106.6	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-03D	3/15/2024	N	EM19	UMCf	96.6 - 106.6	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-03D	6/17/2024	N	EM20	UMCf	96.6 - 106.6	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20	<5.50	<5.50	<6.00
U4-MW-03DD	4/20/2022	N	BL02	UMCf	119.7 - 129.7	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-03DD	3/15/2023	N	EM07	UMCf	119.7 - 129.7	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-03DD	6/15/2023	N	EM10	UMCf	119.7 - 129.7	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-03DD	9/14/2023	N	EM13	UMCf	119.7 - 129.7	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-03DD	12/14/2023	N	EM16	UMCf	119.7 - 129.7	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-03DD	3/14/2024	N	EM19	UMCf	119.7 - 129.7	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149 UJ	<0.104	<0.110	<0.110	<0.120
U4-MW-03DD	6/17/2024	N	EM20	UMCf	119.7 - 129.7	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-03I	4/19/2022	N	BL02	UMCf	76.6 - 86.6	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-03I	3/15/2023	N	EM07	UMCf	76.6 - 86.6	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-03I	6/14/2023	N	EM10	UMCf	76.6 - 86.6	<6.44	<5.52	<2.52	<2.14	<1.64	<2.98	<2.08	<2.20	<2.20	<2.40
U4-MW-03I	6/14/2023	FD	EM10	UMCf	76.6 - 86.6	<8.05	<6.90	<3.15	<2.68	<2.05	<3.73	<2.60	<2.75	<2.75	<3.00
U4-MW-03I	9/11/2023	N	EM13	UMCf	76.6 - 86.6	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-03I	9/11/2023	FD	EM13	UMCf	76.6 - 86.6	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-03I	12/13/2023	N	EM16	UMCf	76.6 - 86.6	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-03I	12/13/2023	FD	EM16	UMCf	76.6 - 86.6	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-03I	3/14/2024	N	EM19	UMCf	76.6 - 86.6	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45 UJ	<5.20	<5.50	<5.50	<6.00
U4-MW-03I	3/14/2024	FD	EM19	UMCf	76.6 - 86.6	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45 UJ	<5.20	<5.50	<5.50	<6.00
U4-MW-03I	6/19/2024	N	EM20	UMCf	76.6 - 86.6	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20	<5.50	<5.50	<6.00
U4-MW-03I	6/19/2024	FD	EM20	UMCf	76.6 - 86.6	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20	<5.50	<5.50	<6.00
U4-MW-03S	4/18/2022	N	BL02	UMCf	54.5 - 64.5	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-03S	4/18/2022	FD	BL02	UMCf	54.5 - 64.5	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-03S	3/15/2023	N	EM07	UMCf	54.5 - 64.5	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-03S	6/15/2023	N	EM10	UMCf	54.5 - 64.5	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-03S	9/14/2023	N	EM13	UMCf	54.5 - 64.5	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-03S	12/13/2023	N	EM16	UMCf	54.5 - 64.5	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-03S	3/14/2024	N	EM19	UMCf	54.5 - 64.5	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149 UJ	<0.104	<0.110	<0.110	<0.120
U4-MW-03S	6/14/2024	N	EM20	UMCf	54.5 - 64.5	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-04D	4/19/2022	N	BL02	UMCf	97.0 - 107.0	<0.322	<0.276	<0.126	<0.107	0.900 J	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-04D	2/16/2023	N	EM06	UMCf	97.0 - 107.0	<16.1 UJ	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20	<5.50	<5.50	<6.00
U4-MW-04D	3/21/2023	N	EM07	UMCf	97.0 - 107.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-04D	6/14/2023	N	EM10	UMCf	97.0 - 107.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-04D	9/15/2023	N	EM13	UMCf	97.0 - 107.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-04D	12/12/2023	N	EM16	UMCf	97.0 - 107.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-04D	3/12/2024	N	EM19	UMCf	97.0 - 107.0	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20	<5.50	<5.50	<6.00
U4-MW-04D	6/19/2024	N	EM20	UMCf	97.0 - 107.0	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20	<5.50	<5.50	<6.00
U4-MW-04I	4/19/2022	N	BL02	UMCf	76.8 - 86.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-04I	3/20/2023	N	EM07	UMCf	76.8 - 86.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-04I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<1.61	<1.38	<0.630	<0.535	<0.409	<0.745	<0.520	<0.550	<0.550	<0.600
U4-MW-04I	9/14/2023	N	EM13	UMCf	76.8 - 86.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-04I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120

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
						1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene (Mesitylene)	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-04I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	<64.4	<55.2	<25.2	<21.4	<16.4	<29.8	<20.8	<22.0	<22.0	<24.0
U4-MW-04I	6/18/2024	N	EM20	UMCf	76.8 - 86.8	<1.61	<1.38	<0.630	<0.535	<0.409	<0.745	<0.520	<0.550	<0.550	<0.600
U4-MW-05D	4/15/2022	N	BL02	UMCf	98.2 - 108.2	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-05D	10/13/2022	N	EM02	UMCf	98.2 - 108.2	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4	<11.0	<11.0	<12.0
U4-MW-05D	11/3/2022	N	EM03	UMCf	98.2 - 108.2	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-05D	12/7/2022	N	EM04	UMCf	98.2 - 108.2	<0.322	<0.276	<0.126	<0.107	0.186 J	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-05D	1/11/2023	N	EM05	UMCf	98.2 - 108.2	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-05D	2/14/2023	N	EM06	UMCf	98.2 - 108.2	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4	<11.0	<11.0	<12.0
U4-MW-05D	3/16/2023	N	EM07	UMCf	98.2 - 108.2	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4	<11.0	<11.0	<12.0
U4-MW-05D	4/20/2023	N	EM08	UMCf	98.2 - 108.2	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-05D	5/10/2023	N	EM09	UMCf	98.2 - 108.2	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-05D	6/15/2023	N	EM10	UMCf	98.2 - 108.2	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-05D	7/18/2023	N	EM11	UMCf	98.2 - 108.2	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-05D	8/14/2023	N	EM12	UMCf	98.2 - 108.2	<8.05	<6.90	<3.15	<2.68	<2.05	<3.73	<2.60	<2.75	<2.75	<3.00
U4-MW-05D	9/12/2023	N	EM13	UMCf	98.2 - 108.2	<8.05	<6.90	<3.15	<2.68	<2.05	<3.73	<2.60	<2.75	<2.75	<3.00
U4-MW-05D	10/18/2023	N	EM14	UMCf	98.2 - 108.2	<8.05	<6.90	<3.15	<2.68	<2.05	<3.73	<2.60	<2.75	<2.75	<3.00
U4-MW-05D	11/16/2023	N	EM15	UMCf	98.2 - 108.2	<8.05	<6.90	<3.15	<2.68	<2.05	<3.73	<2.60	<2.75	<2.75	<3.00
U4-MW-05D	12/14/2023	N	EM16	UMCf	98.2 - 108.2	<8.05	<6.90	<3.15	<2.68	<2.05	<3.73	<2.60	<2.75	<2.75	<3.00
U4-MW-05D	1/26/2024	N	EM17	UMCf	98.2 - 108.2	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120 UJ
U4-MW-05D	2/14/2024	N	EM18	UMCf	98.2 - 108.2	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-05D	3/12/2024	N	EM19	UMCf	98.2 - 108.2	<8.05	<6.90	<3.15	<2.68	<2.05	<3.73	<2.60	<2.75	<2.75	<3.00
U4-MW-05D	6/18/2024	N	EM20	UMCf	98.2 - 108.2	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-05I	4/15/2022	N	BL02	UMCf	76.6 - 86.6	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-05I	10/13/2022	N	EM02	UMCf	76.6 - 86.6	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4	<11.0	<11.0	<12.0
U4-MW-05I	11/3/2022	N	EM03	UMCf	76.6 - 86.6	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-05I	12/8/2022	N	EM04	UMCf	76.6 - 86.6	<0.322	<0.276	<0.126	<0.107	0.531 J	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-05I	1/11/2023	N	EM05	UMCf	76.6 - 86.6	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-05I	2/14/2023	N	EM06	UMCf	76.6 - 86.6	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4	<11.0	<11.0	<12.0
U4-MW-05I	3/14/2023	N	EM07	UMCf	76.6 - 86.6	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4	<11.0	<11.0	<12.0
U4-MW-05I	4/21/2023	N	EM08	UMCf	76.6 - 86.6	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-05I	5/10/2023	N	EM09	UMCf	76.6 - 86.6	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-05I	6/15/2023	N	EM10	UMCf	76.6 - 86.6	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-05I	7/17/2023	N	EM11	UMCf	76.6 - 86.6	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-05I	8/14/2023	N	EM12	UMCf	76.6 - 86.6	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20	<5.50	<5.50	<6.00
U4-MW-05I	9/13/2023	N	EM13	UMCf	76.6 - 86.6	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-05I	10/18/2023	N	EM14	UMCf	76.6 - 86.6	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20	<5.50	<5.50	<6.00
U4-MW-05I	11/15/2023	N	EM15	UMCf	76.6 - 86.6	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20	<5.50	<5.50	<6.00
U4-MW-05I	12/12/2023	N	EM16	UMCf	76.6 - 86.6	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-05I	1/26/2024	N	EM17	UMCf	76.6 - 86.6	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120 UJ
U4-MW-05I	2/14/2024	N	EM18	UMCf	76.6 - 86.6	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-05I	3/11/2024	N	EM19	UMCf	76.6 - 86.6	<0.322	<0.276	<0.126	<0.107	0.0850 J	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-05I	6/18/2024	N	EM20	UMCf	76.6 - 86.6	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-06D	4/19/2022	N	BL02	UMCf	97.1 - 107.1	<0.322	<0.276	<0.126	<0.107	0.785 J	<0.149	<0.104	<0.110	<0.110	<0.120

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
						1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene (Mesitylene)	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-06D	2/15/2023	N	EM06	UMCf	97.1 - 107.1	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20	<5.50	<5.50	<6.00
U4-MW-06D	3/21/2023	N	EM07	UMCf	97.1 - 107.1	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-06D	6/16/2023	N	EM10	UMCf	97.1 - 107.1	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-06D	9/13/2023	N	EM13	UMCf	97.1 - 107.1	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-06D	12/13/2023	N	EM16	UMCf	97.1 - 107.1	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-06D	3/14/2024	N	EM19	UMCf	97.1 - 107.1	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45 UJ	<5.20	<5.50	<5.50	<6.00
U4-MW-06D	6/12/2024	N	EM20	UMCf	97.1 - 107.1	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-06I	4/19/2022	N	BL02	UMCf	76.5 - 86.5	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-06I	3/14/2023	N	EM07	UMCf	76.5 - 86.5	<0.322	<0.276	<0.126	<0.107	0.117 J	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-06I	6/16/2023	N	EM10	UMCf	76.5 - 86.5	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-06I	9/12/2023	N	EM13	UMCf	76.5 - 86.5	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20	<5.50	<5.50	<6.00
U4-MW-06I	12/12/2023	N	EM16	UMCf	76.5 - 86.5	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-06I	3/14/2024	N	EM19	UMCf	76.5 - 86.5	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9 UJ	<10.4	<11.0	<11.0	<12.0
U4-MW-06I	6/11/2024	N	EM20	UMCf	76.5 - 86.5	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-07D	4/15/2022	N	BL02	UMCf	96.8 - 106.5	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-07D	10/12/2022	N	EM02	UMCf	96.8 - 106.5	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-07D	10/12/2022	FD	EM02	UMCf	96.8 - 106.5	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-07D	11/3/2022	N	EM03	UMCf	96.8 - 106.5	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-07D	12/7/2022	N	EM04	UMCf	96.8 - 106.5	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-07D	1/11/2023	N	EM05	UMCf	96.8 - 106.5	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-07D	2/14/2023	N	EM06	UMCf	96.8 - 106.5	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-07D	3/16/2023	N	EM07	UMCf	96.8 - 106.5	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-07D	4/21/2023	N	EM08	UMCf	96.8 - 106.5	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-07D	5/11/2023	N	EM09	UMCf	96.8 - 106.5	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-07D	6/13/2023	N	EM10	UMCf	96.8 - 106.5	<0.322 UJ	<0.276 UJ	<0.126 UJ	<0.107 UJ	<0.0819 UJ	<0.149 UJ	<0.104 UJ	<0.110 UJ	<0.110 UJ	<0.120 UJ
U4-MW-07D	7/17/2023	N	EM11	UMCf	96.8 - 106.5	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-07D	8/11/2023	N	EM12	UMCf	96.8 - 106.5	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-07D	9/13/2023	N	EM13	UMCf	96.8 - 106.5	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-07D	10/18/2023	N	EM14	UMCf	96.8 - 106.5	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4	<11.0	<11.0	<12.0
U4-MW-07D	11/16/2023	N	EM15	UMCf	96.8 - 106.5	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4	<11.0	<11.0	<12.0
U4-MW-07D	12/12/2023	N	EM16	UMCf	96.8 - 106.5	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-07D	1/26/2024	N	EM17	UMCf	96.8 - 106.5	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120 UJ
U4-MW-07D	2/13/2024	N	EM18	UMCf	96.8 - 106.5	<8.05	<6.90	<3.15	<2.68	<2.05	<3.73	<2.60	<2.75	<2.75	<3.00
U4-MW-07D	3/11/2024	N	EM19	UMCf	96.8 - 106.5	<8.05	<6.90	<3.15	<2.68	<2.05	<3.73	<2.60	<2.75	<2.75	<3.00
U4-MW-07D	6/12/2024	N	EM20	UMCf	96.8 - 106.5	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-07I	4/15/2022	N	BL02	UMCf	76.8 - 86.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-07I	10/12/2022	N	EM02	UMCf	76.8 - 86.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-07I	11/3/2022	N	EM03	UMCf	76.8 - 86.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-07I	12/7/2022	N	EM04	UMCf	76.8 - 86.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-07I	1/11/2023	N	EM05	UMCf	76.8 - 86.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-07I	2/15/2023	N	EM06	UMCf	76.8 - 86.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-07I	3/16/2023	N	EM07	UMCf	76.8 - 86.8	<1.61	<1.38	<0.630	<0.535	<0.409	<0.745	<0.520	<0.550	<0.550	<0.600
U4-MW-07I	4/21/2023	N	EM08	UMCf	76.8 - 86.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120

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
						1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene (Mesitylene)	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-07I	5/11/2023	N	EM09	UMCf	76.8 - 86.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-07I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<1.61	<1.38	<0.630	<0.535	<0.409	<0.745	<0.520	<0.550	<0.550	<0.600
U4-MW-07I	7/17/2023	N	EM11	UMCf	76.8 - 86.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-07I	8/11/2023	N	EM12	UMCf	76.8 - 86.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-07I	9/13/2023	N	EM13	UMCf	76.8 - 86.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-07I	10/18/2023	N	EM14	UMCf	76.8 - 86.8	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20	<5.50	<5.50	<6.00
U4-MW-07I	11/16/2023	N	EM15	UMCf	76.8 - 86.8	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20	<5.50	<5.50	<6.00
U4-MW-07I	12/11/2023	N	EM16	UMCf	76.8 - 86.8	<0.322	<0.276 UJ	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-07I	1/26/2024	N	EM17	UMCf	76.8 - 86.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120 UJ
U4-MW-07I	2/13/2024	N	EM18	UMCf	76.8 - 86.8	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20	<5.50	<5.50	<6.00
U4-MW-07I	3/11/2024	N	EM19	UMCf	76.8 - 86.8	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20	<5.50	<5.50	<6.00
U4-MW-07I	6/12/2024	N	EM20	UMCf	76.8 - 86.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-08D	4/13/2022	N	BL02	UMCf	98.6 - 108.6	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-08D	12/7/2022	N	EM04	UMCf	98.6 - 108.6	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-08D	3/17/2023	N	EM07	UMCf	98.6 - 108.6	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4	<11.0	<11.0	<12.0
U4-MW-08D	6/13/2023	N	EM10	UMCf	98.6 - 108.6	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-08D	9/13/2023	N	EM13	UMCf	98.6 - 108.6	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-08D	12/11/2023	N	EM16	UMCf	98.6 - 108.6	<0.322	<0.276 UJ	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-08D	3/12/2024	N	EM19	UMCf	98.6 - 108.6	<64.4	<55.2	<25.2	<21.4	<16.4	<29.8	<20.8	<22.0	<22.0	<24.0
U4-MW-08D	6/14/2024	N	EM20	UMCf	98.6 - 108.6	<64.4	<55.2	<25.2	<21.4	<16.4	<29.8	<20.8	<22.0	<22.0	<24.0
U4-MW-08DD	4/20/2022	N	BL02	UMCf	119.8 - 129.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-08DD	4/20/2022	FD	BL02	UMCf	119.8 - 129.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-08DD	12/8/2022	N	EM04	UMCf	119.8 - 129.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-08DD	3/15/2023	N	EM07	UMCf	119.8 - 129.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-08DD	6/14/2023	N	EM10	UMCf	119.8 - 129.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-08DD	9/14/2023	N	EM13	UMCf	119.8 - 129.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-08DD	12/14/2023	N	EM16	UMCf	119.8 - 129.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-08DD	3/14/2024	N	EM19	UMCf	119.8 - 129.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149 UJ	<0.104	<0.110	<0.110	<0.120
U4-MW-08DD	6/12/2024	N	EM20	UMCf	119.8 - 129.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-08I	4/13/2022	N	BL02	UMCf	78.0 - 88.0	<0.322	<0.276	<0.126	<0.107	0.345 J	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-08I	12/7/2022	N	EM04	UMCf	78.0 - 88.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-08I	12/7/2022	FD	EM04	UMCf	78.0 - 88.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-08I	3/17/2023	N	EM07	UMCf	78.0 - 88.0	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20	<5.50	<5.50	<6.00
U4-MW-08I	6/13/2023	N	EM10	UMCf	78.0 - 88.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-08I	9/13/2023	N	EM13	UMCf	78.0 - 88.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-08I	12/11/2023	N	EM16	UMCf	78.0 - 88.0	<0.322	<0.276 UJ	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-08I	3/12/2024	N	EM19	UMCf	78.0 - 88.0	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4	<11.0	<11.0	<12.0
U4-MW-08I	6/14/2024	N	EM20	UMCf	78.0 - 88.0	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4	<11.0	<11.0	<12.0
U4-MW-08S	4/15/2022	N	BL02	UMCf	54.9 - 64.9	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-08S	12/7/2022	N	EM04	UMCf	54.9 - 64.9	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-08S	12/7/2022	FD	EM04	UMCf	54.9 - 64.9	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-08S	3/13/2023	N	EM07	UMCf	54.9 - 64.9	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-08S	3/13/2023	FD	EM07	UMCf	54.9 - 64.9	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120

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
						1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene (Mesitylene)	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-08S	6/13/2023	N	EM10	UMCf	54.9 - 64.9	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-08S	6/13/2023	FD	EM10	UMCf	54.9 - 64.9	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-08S	9/13/2023	N	EM13	UMCf	54.9 - 64.9	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-08S	9/13/2023	FD	EM13	UMCf	54.9 - 64.9	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-08S	12/14/2023	N	EM16	UMCf	54.9 - 64.9	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-08S	12/14/2023	FD	EM16	UMCf	54.9 - 64.9	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-08S	3/14/2024	N	EM19	UMCf	54.9 - 64.9	<0.644 UJ	<0.552 UJ	<0.252 UJ	<0.214 UJ	<0.164 UJ	<0.298 UJ	<0.208 UJ	<0.220 UJ	<0.220 UJ	<0.240 UJ
U4-MW-08S	3/14/2024	FD	EM19	UMCf	54.9 - 64.9	<0.644 UJ	<0.552 UJ	<0.252 UJ	<0.214 UJ	<0.164 UJ	<0.298 UJ	<0.208 UJ	<0.220 UJ	<0.220 UJ	<0.240 UJ
U4-MW-08S	3/25/2024	N	EM19	UMCf	54.9 - 64.9	<0.322 UJ	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104 UJ	<0.110	<0.110	<0.120
U4-MW-08S	3/25/2024	FD	EM19	UMCf	54.9 - 64.9	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-08S	6/14/2024	N	EM20	UMCf	54.9 - 64.9	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-08S	6/14/2024	FD	EM20	UMCf	54.9 - 64.9	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-09D	4/14/2022	N	BL02	UMCf	96.9 - 106.9	<0.322	<0.276	<0.126	<0.107	0.239 J	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-09D	12/6/2022	N	EM04	UMCf	96.9 - 106.9	<3.22 UJ	<2.76 UJ	<1.26 UJ	<1.07 UJ	<0.819 UJ	<1.49 UJ	<1.04 UJ	<1.10 UJ	<1.10 UJ	<1.20 UJ
U4-MW-09D	3/16/2023	N	EM07	UMCf	96.9 - 106.9	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04	<1.10	<1.10	<1.20
U4-MW-09D	6/14/2023	N	EM10	UMCf	96.9 - 106.9	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-09D	9/12/2023	N	EM13	UMCf	96.9 - 106.9	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-09D	12/15/2023	N	EM16	UMCf	96.9 - 106.9	38.8 J-	<6.90 UJ	<3.15 UJ	<2.68 UJ	<2.05 UJ	<3.73 UJ	11.6 J	<2.75 UJ	<2.75 UJ	<3.00 UJ
U4-MW-09D	3/13/2024	N	EM19	UMCf	96.9 - 106.9	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-09D	6/13/2024	N	EM20	UMCf	96.9 - 106.9	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-09DD	4/14/2022	N	BL02	UMCf	119.8 - 129.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-09DD	12/6/2022	N	EM04	UMCf	119.8 - 129.8	<0.322 UJ	<0.276 UJ	<0.126 UJ	<0.107 UJ	<0.0819 UJ	<0.149 UJ	<0.104 UJ	<0.110 UJ	<0.110 UJ	<0.120 UJ
U4-MW-09DD	3/21/2023	N	EM07	UMCf	119.8 - 129.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-09DD	6/15/2023	N	EM10	UMCf	119.8 - 129.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-09DD	9/13/2023	N	EM13	UMCf	119.8 - 129.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-09DD	12/13/2023	N	EM16	UMCf	119.8 - 129.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-09DD	3/14/2024	N	EM19	UMCf	119.8 - 129.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149 UJ	<0.104	<0.110	<0.110	<0.120
U4-MW-09DD	6/13/2024	N	EM20	UMCf	119.8 - 129.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-09I	4/14/2022	N	BL02	UMCf	76.8 - 86.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-09I	12/6/2022	N	EM04	UMCf	76.8 - 86.8	<3.22 UJ	<2.76 UJ	<1.26 UJ	<1.07 UJ	<0.819 UJ	<1.49 UJ	<1.04 UJ	<1.10 UJ	<1.10 UJ	<1.20 UJ
U4-MW-09I	3/16/2023	N	EM07	UMCf	76.8 - 86.8	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04	<1.10	<1.10	<1.20
U4-MW-09I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-09I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-09I	12/15/2023	N	EM16	UMCf	76.8 - 86.8	<8.05 UJ	<6.90 UJ	<3.15 UJ	<2.68 UJ	<2.05 UJ	<3.73 UJ	<2.60 UJ	<2.75 UJ	<2.75 UJ	<3.00 UJ
U4-MW-09I	3/13/2024	N	EM19	UMCf	76.8 - 86.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-09I	6/13/2024	N	EM20	UMCf	76.8 - 86.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-09S	4/14/2022	N	BL02	UMCf	55.3 - 65.3	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-09S	12/6/2022	N	EM04	UMCf	55.3 - 65.3	<0.322 UJ	<0.276 UJ	<0.126 UJ	<0.107 UJ	<0.0819 UJ	<0.149 UJ	<0.104 UJ	<0.110 UJ	<0.110 UJ	<0.120 UJ
U4-MW-09S	3/17/2023	N	EM07	UMCf	55.3 - 65.3	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-09S	6/15/2023	N	EM10	UMCf	55.3 - 65.3	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-09S	9/13/2023	N	EM13	UMCf	55.3 - 65.3	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-09S	12/12/2023	N	EM16	UMCf	55.3 - 65.3	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-09S	3/13/2024	N	EM19	UMCf	55.3 - 65.3	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120

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
						1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene (Mesitylene)	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-09S	6/13/2024	N	EM20	UMCf	55.3 - 65.3	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-10D	4/14/2022	N	BL02	UMCf	96.9 - 106.9	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-10D	12/5/2022	N	EM04	UMCf	96.9 - 106.9	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-10D	3/17/2023	N	EM07	UMCf	96.9 - 106.9	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-10D	6/14/2023	N	EM10	UMCf	96.9 - 106.9	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-10D	9/13/2023	N	EM13	UMCf	96.9 - 106.9	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-10D	12/14/2023	N	EM16	UMCf	96.9 - 106.9	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-10D	3/14/2024	N	EM19	UMCf	96.9 - 106.9	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149 UJ	<0.104	<0.110	<0.110	<0.120
U4-MW-10D	6/11/2024	N	EM20	UMCf	96.9 - 106.9	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-10I	4/14/2022	N	BL02	UMCf	77.1 - 87.1	<0.322	<0.276	<0.126	<0.107	0.115 J	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-10I	12/5/2022	N	EM04	UMCf	77.1 - 87.1	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-10I	3/17/2023	N	EM07	UMCf	77.1 - 87.1	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-10I	6/14/2023	N	EM10	UMCf	77.1 - 87.1	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-10I	9/13/2023	N	EM13	UMCf	77.1 - 87.1	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-10I	12/14/2023	N	EM16	UMCf	77.1 - 87.1	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-10I	3/13/2024	N	EM19	UMCf	77.1 - 87.1	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-10I	6/11/2024	N	EM20	UMCf	77.1 - 87.1	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-11D	4/15/2022	N	BL02	UMCf	97.4 - 107.4	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-11D	9/26/2022	N	EM01	UMCf	97.4 - 107.4	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20	<5.50	<5.50	<6.00
U4-MW-11D	10/11/2022	N	EM02	UMCf	97.4 - 107.4	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04	<1.10	<1.10	<1.20
U4-MW-11D	11/1/2022	N	EM03	UMCf	97.4 - 107.4	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20	<5.50	<5.50	<6.00
U4-MW-11D	12/6/2022	N	EM04	UMCf	97.4 - 107.4	<8.05 UJ	<6.90 UJ	<3.15 UJ	<2.68 UJ	<2.05 UJ	<3.73 UJ	<2.60 UJ	<2.75 UJ	<2.75 UJ	<3.00 UJ
U4-MW-11D	1/12/2023	N	EM05	UMCf	97.4 - 107.4	<64.4	<55.2	<25.2	<21.4	<16.4	<29.8	<20.8	<22.0	<22.0	<24.0
U4-MW-11D	2/14/2023	N	EM06	UMCf	97.4 - 107.4	<64.4	<55.2	<25.2	<21.4	<16.4	<29.8	<20.8	<22.0	<22.0	<24.0
U4-MW-11D	3/16/2023	N	EM07	UMCf	97.4 - 107.4	<64.4	<55.2	<25.2	<21.4	<16.4	<29.8	<20.8	<22.0	<22.0	<24.0
U4-MW-11D	4/18/2023	N	EM08	UMCf	97.4 - 107.4	<1.61	<1.38	<0.630	<0.535	<0.409	<0.745	<0.520	<0.550	<0.550	<0.600
U4-MW-11D	5/17/2023	N	EM09	UMCf	97.4 - 107.4	<6.44 UJ	<5.52 UJ	<2.52 UJ	<2.14 UJ	<1.64 UJ	<2.98 UJ	<2.08 UJ	<2.20 UJ	<2.20 UJ	<2.40 UJ
U4-MW-11D	6/16/2023	N	EM10	UMCf	97.4 - 107.4	<0.322	<0.276	<0.126	<0.107	0.0940 J	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-11D	7/14/2023	N	EM11	UMCf	97.4 - 107.4	<0.322	<0.276	<0.126	<0.107	0.106 J	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-11D	8/14/2023	N	EM12	UMCf	97.4 - 107.4	<64.4	<55.2	<25.2	<21.4	<16.4	<29.8	<20.8	<22.0	<22.0	<24.0
U4-MW-11D	9/13/2023	N	EM13	UMCf	97.4 - 107.4	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-11D	10/18/2023	N	EM14	UMCf	97.4 - 107.4	<64.4	<55.2	<25.2	<21.4	<16.4	<29.8	<20.8	<22.0	<22.0	<24.0
U4-MW-11D	11/16/2023	N	EM15	UMCf	97.4 - 107.4	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20	<5.50	<5.50	<6.00
U4-MW-11D	12/13/2023	N	EM16	UMCf	97.4 - 107.4	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-11D	1/25/2024	N	EM17	UMCf	97.4 - 107.4	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-11D	2/14/2024	N	EM18	UMCf	97.4 - 107.4	<0.322	<0.276	<0.126	<0.107 UJ	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-11D	3/12/2024	N	EM19	UMCf	97.4 - 107.4	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4	<11.0	<11.0	<12.0
U4-MW-11D	6/12/2024	N	EM20	UMCf	97.4 - 107.4	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-11I	4/14/2022	N	BL02	UMCf	77.0 - 87.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104 UJ	<0.110	<0.110	<0.120
U4-MW-11I	9/26/2022	N	EM01	UMCf	77.0 - 87.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-11I	9/26/2022	FD	EM01	UMCf	77.0 - 87.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-11I	10/10/2022	N	EM02	UMCf	77.0 - 87.0	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04	<1.10	<1.10	<1.20
U4-MW-11I	10/10/2022	FD	EM02	UMCf	77.0 - 87.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120

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
						1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene (Mesitylene)	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-11I	10/31/2022	N	EM03	UMCf	77.0 - 87.0	<1.61	<1.38	<0.630	<0.535	<0.409	<0.745	<0.520	<0.550	<0.550	<0.600
U4-MW-11I	10/31/2022	FD	EM03	UMCf	77.0 - 87.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-11I	12/6/2022	N	EM04	UMCf	77.0 - 87.0	<0.322 UJ	<0.276 UJ	<0.126 UJ	<0.107 UJ	<0.0819 UJ	<0.149 UJ	<0.104 UJ	<0.110 UJ	<0.110 UJ	<0.120 UJ
U4-MW-11I	12/6/2022	FD	EM04	UMCf	77.0 - 87.0	<0.322 UJ	<0.276 UJ	<0.126 UJ	<0.107 UJ	<0.0819 UJ	<0.149 UJ	<0.104 UJ	<0.110 UJ	<0.110 UJ	<0.120 UJ
U4-MW-11I	1/12/2023	N	EM05	UMCf	77.0 - 87.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-11I	1/12/2023	FD	EM05	UMCf	77.0 - 87.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-11I	2/14/2023	N	EM06	UMCf	77.0 - 87.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-11I	2/14/2023	FD	EM06	UMCf	77.0 - 87.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-11I	3/16/2023	N	EM07	UMCf	77.0 - 87.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-11I	3/16/2023	FD	EM07	UMCf	77.0 - 87.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-11I	4/18/2023	N	EM08	UMCf	77.0 - 87.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-11I	4/18/2023	FD	EM08	UMCf	77.0 - 87.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-11I	5/19/2023	N	EM09	UMCf	77.0 - 87.0	<0.322 UJ	<0.276 UJ	<0.126 UJ	<0.107 UJ	<0.0819 UJ	<0.149 UJ	<0.104 UJ	<0.110 UJ	<0.110 UJ	<0.120 UJ
U4-MW-11I	5/19/2023	FD	EM09	UMCf	77.0 - 87.0	<0.322 UJ	<0.276 UJ	<0.126 UJ	<0.107 UJ	<0.0819 UJ	<0.149 UJ	<0.104 UJ	<0.110 UJ	<0.110 UJ	<0.120 UJ
U4-MW-11I	6/15/2023	N	EM10	UMCf	77.0 - 87.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-11I	6/15/2023	FD	EM10	UMCf	77.0 - 87.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-11I	7/13/2023	N	EM11	UMCf	77.0 - 87.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-11I	7/13/2023	FD	EM11	UMCf	77.0 - 87.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-11I	8/14/2023	N	EM12	UMCf	77.0 - 87.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-11I	8/14/2023	FD	EM12	UMCf	77.0 - 87.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-11I	9/13/2023	N	EM13	UMCf	77.0 - 87.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-11I	9/13/2023	FD	EM13	UMCf	77.0 - 87.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-11I	10/19/2023	N	EM14	UMCf	77.0 - 87.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-11I	10/19/2023	FD	EM14	UMCf	77.0 - 87.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-11I	11/16/2023	N	EM15	UMCf	77.0 - 87.0	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20	<5.50	<5.50	<6.00
U4-MW-11I	11/16/2023	FD	EM15	UMCf	77.0 - 87.0	<16.1	<13.8	<6.30	<5.35	31.5 J	<7.45	<5.20	<5.50	<5.50	<6.00
U4-MW-11I	12/13/2023	N	EM16	UMCf	77.0 - 87.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-11I	12/13/2023	FD	EM16	UMCf	77.0 - 87.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-11I	1/25/2024	N	EM17	UMCf	77.0 - 87.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-11I	1/25/2024	FD	EM17	UMCf	77.0 - 87.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-11I	2/14/2024	N	EM18	UMCf	77.0 - 87.0	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20	<5.50	<5.50	<6.00
U4-MW-11I	2/14/2024	FD	EM18	UMCf	77.0 - 87.0	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20	<5.50	<5.50	<6.00
U4-MW-11I	3/13/2024	N	EM19	UMCf	77.0 - 87.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-11I	3/13/2024	FD	EM19	UMCf	77.0 - 87.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-11I	6/12/2024	N	EM20	UMCf	77.0 - 87.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-11I	6/12/2024	FD	EM20	UMCf	77.0 - 87.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-12D	4/15/2022	N	BL02	UMCf	97.1 - 107.1	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-12D	9/27/2022	N	EM01	UMCf	97.1 - 107.1	<6.44	<5.52	<2.52	<2.14	<1.64	<2.98	<2.08	<2.20	<2.20	<2.40
U4-MW-12D	10/12/2022	N	EM02	UMCf	97.1 - 107.1	<0.322	<0.276	<0.126	<0.107	0.157 J	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-12D	11/2/2022	N	EM03	UMCf	97.1 - 107.1	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04	<1.10	<1.10	<1.20
U4-MW-12D	12/7/2022	N	EM04	UMCf	97.1 - 107.1	<0.322	<0.276	<0.126	<0.107	0.196 J	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-12D	1/12/2023	N	EM05	UMCf	97.1 - 107.1	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4	<11.0	<11.0	<12.0
U4-MW-12D	2/15/2023	N	EM06	UMCf	97.1 - 107.1	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4	<11.0	<11.0	<12.0

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
						1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene (Mesitylene)	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-12D	3/14/2023	N	EM07	UMCf	97.1 - 107.1	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20	<5.50	<5.50	<6.00
U4-MW-12D	4/17/2023	N	EM08	UMCf	97.1 - 107.1	<1.61 UJ	<1.38 UJ	<0.630 UJ	<0.535 UJ	<0.409 UJ	<0.745 UJ	<0.520 UJ	<0.550 UJ	<0.550 UJ	<0.600 UJ
U4-MW-12D	5/17/2023	N	EM09	UMCf	97.1 - 107.1	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4	<11.0	<11.0	<12.0
U4-MW-12D	6/16/2023	N	EM10	UMCf	97.1 - 107.1	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-12D	7/13/2023	N	EM11	UMCf	97.1 - 107.1	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-12D	8/14/2023	N	EM12	UMCf	97.1 - 107.1	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20	<5.50	<5.50	<6.00
U4-MW-12D	9/12/2023	N	EM13	UMCf	97.1 - 107.1	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20	<5.50	<5.50	<6.00
U4-MW-12D	10/17/2023	N	EM14	UMCf	97.1 - 107.1	<1.61	<1.38	<0.630	<0.535	<0.409	<0.745	<0.520	<0.550	<0.550	<0.600
U4-MW-12D	11/15/2023	N	EM15	UMCf	97.1 - 107.1	<1.61	<1.38	<0.630	<0.535	<0.409	<0.745	<0.520	<0.550	<0.550	<0.600
U4-MW-12D	12/12/2023	N	EM16	UMCf	97.1 - 107.1	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-12D	1/24/2024	N	EM17	UMCf	97.1 - 107.1	<0.322	<0.276	<0.126	<0.107	0.406 J	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-12D	2/13/2024	N	EM18	UMCf	97.1 - 107.1	<6.44	<5.52	<2.52	<2.14	<1.64	<2.98	<2.08	<2.20	<2.20	<2.40
U4-MW-12D	3/12/2024	N	EM19	UMCf	97.1 - 107.1	<6.44	<5.52	<2.52	<2.14	<1.64	<2.98	<2.08	<2.20	<2.20	<2.40
U4-MW-12D	6/12/2024	N	EM20	UMCf	97.1 - 107.1	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-12I	4/14/2022	N	BL02	UMCf	76.8 - 86.8	<0.322	<0.276	<0.126	<0.107	0.144 J	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-12I	4/14/2022	FD	BL02	UMCf	76.8 - 86.8	<0.322	<0.276	<0.126	<0.107	0.146 J	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-12I	9/27/2022	N	EM01	UMCf	76.8 - 86.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-12I	10/12/2022	N	EM02	UMCf	76.8 - 86.8	<0.322	<0.276	<0.126	<0.107	0.0834 J	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-12I	11/2/2022	N	EM03	UMCf	76.8 - 86.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-12I	12/7/2022	N	EM04	UMCf	76.8 - 86.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-12I	12/7/2022	FD	EM04	UMCf	76.8 - 86.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-12I	1/13/2023	N	EM05	UMCf	76.8 - 86.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-12I	2/15/2023	N	EM06	UMCf	76.8 - 86.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-12I	3/13/2023	N	EM07	UMCf	76.8 - 86.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-12I	4/17/2023	N	EM08	UMCf	76.8 - 86.8	<0.322 UJ	<0.276 UJ	<0.126 UJ	<0.107 UJ	<0.0819 UJ	<0.149 UJ	<0.104 UJ	<0.110 UJ	<0.110 UJ	<0.120 UJ
U4-MW-12I	5/17/2023	N	EM09	UMCf	76.8 - 86.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-12I	6/16/2023	N	EM10	UMCf	76.8 - 86.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-12I	7/11/2023	N	EM11	UMCf	76.8 - 86.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-12I	8/14/2023	N	EM12	UMCf	76.8 - 86.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-12I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-12I	10/17/2023	N	EM14	UMCf	76.8 - 86.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-12I	11/16/2023	N	EM15	UMCf	76.8 - 86.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-12I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-12I	1/24/2024	N	EM17	UMCf	76.8 - 86.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-12I	2/13/2024	N	EM18	UMCf	76.8 - 86.8	<6.44	<5.52	<2.52	<2.14	<1.64	<2.98	<2.08	<2.20	<2.20	<2.40
U4-MW-12I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	<6.44	<5.52	<2.52	<2.14	<1.64	<2.98	<2.08	<2.20	<2.20	<2.40
U4-MW-12I	6/13/2024	N	EM20	UMCf	76.8 - 86.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-13D	4/14/2022	N	BL02	UMCf	98.2 - 108.2	<0.322	<0.276	<0.126	<0.107	0.200 J	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-13D	9/28/2022	N	EM01	UMCf	98.2 - 108.2	<3.22	<2.76	<1.26	<1.07	<0.819	<1.49	<1.04	<1.10	<1.10	<1.20
U4-MW-13D	10/11/2022	N	EM02	UMCf	98.2 - 108.2	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-13D	11/3/2022	N	EM03	UMCf	98.2 - 108.2	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-13D	12/7/2022	N	EM04	UMCf	98.2 - 108.2	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-13D	1/12/2023	N	EM05	UMCf	98.2 - 108.2	<6.44	<5.52	<2.52	<2.14	<1.64	<2.98	<2.08	<2.20	<2.20	<2.40

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
						1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene (Mesitylene)	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-13D	2/15/2023	N	EM06	UMCf	98.2 - 108.2	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-13D	3/17/2023	N	EM07	UMCf	98.2 - 108.2	<6.44	<5.52	<2.52	<2.14	<1.64	<2.98	<2.08	<2.20	<2.20	<2.40
U4-MW-13D	4/18/2023	N	EM08	UMCf	98.2 - 108.2	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-13D	5/17/2023	N	EM09	UMCf	98.2 - 108.2	<6.44	<5.52	<2.52	<2.14	<1.64	<2.98	<2.08	<2.20	<2.20	<2.40
U4-MW-13D	6/15/2023	N	EM10	UMCf	98.2 - 108.2	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-13D	7/12/2023	N	EM11	UMCf	98.2 - 108.2	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-13D	8/11/2023	N	EM12	UMCf	98.2 - 108.2	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-13D	9/11/2023	N	EM13	UMCf	98.2 - 108.2	<8.05	<6.90	<3.15	<2.68	<2.05	<3.73	<2.60	<2.75	<2.75	<3.00
U4-MW-13D	10/18/2023	N	EM14	UMCf	98.2 - 108.2	<8.05	<6.90	<3.15	<2.68	<2.05	<3.73	<2.60	<2.75	<2.75	<3.00
U4-MW-13D	11/15/2023	N	EM15	UMCf	98.2 - 108.2	<8.05	<6.90	<3.15	<2.68	<2.05	<3.73	<2.60	<2.75	<2.75	<3.00
U4-MW-13D	12/11/2023	N	EM16	UMCf	98.2 - 108.2	<0.322	<0.276 UJ	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-13D	1/23/2024	N	EM17	UMCf	98.2 - 108.2	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-13D	2/12/2024	N	EM18	UMCf	98.2 - 108.2	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-13D	3/11/2024	N	EM19	UMCf	98.2 - 108.2	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-13D	6/13/2024	N	EM20	UMCf	98.2 - 108.2	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-13I	4/14/2022	N	BL02	UMCf	77.1 - 87.1	<0.322	<0.276	<0.126	<0.107	0.133 J	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-13I	9/28/2022	N	EM01	UMCf	77.1 - 87.1	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-13I	10/10/2022	N	EM02	UMCf	77.1 - 87.1	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-13I	11/3/2022	N	EM03	UMCf	77.1 - 87.1	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-13I	12/6/2022	N	EM04	UMCf	77.1 - 87.1	<1.61 UJ	<1.38 UJ	<0.630 UJ	<0.535 UJ	<0.409 UJ	<0.745 UJ	<0.520 UJ	<0.550 UJ	<0.550 UJ	<0.600 UJ
U4-MW-13I	1/12/2023	N	EM05	UMCf	77.1 - 87.1	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-13I	2/14/2023	N	EM06	UMCf	77.1 - 87.1	<1.61	<1.38	<0.630	<0.535	<0.409	<0.745	<0.520	<0.550	<0.550	<0.600
U4-MW-13I	3/16/2023	N	EM07	UMCf	77.1 - 87.1	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-13I	4/19/2023	N	EM08	UMCf	77.1 - 87.1	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-13I	5/17/2023	N	EM09	UMCf	77.1 - 87.1	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-13I	6/15/2023	N	EM10	UMCf	77.1 - 87.1	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-13I	7/12/2023	N	EM11	UMCf	77.1 - 87.1	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-13I	8/11/2023	N	EM12	UMCf	77.1 - 87.1	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-13I	9/11/2023	N	EM13	UMCf	77.1 - 87.1	<8.05	<6.90	<3.15	<2.68	<2.05	<3.73	<2.60	<2.75	<2.75	<3.00
U4-MW-13I	10/17/2023	N	EM14	UMCf	77.1 - 87.1	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-13I	11/15/2023	N	EM15	UMCf	77.1 - 87.1	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-13I	12/11/2023	N	EM16	UMCf	77.1 - 87.1	<0.322	<0.276 UJ	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-13I	1/23/2024	N	EM17	UMCf	77.1 - 87.1	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-13I	2/12/2024	N	EM18	UMCf	77.1 - 87.1	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-13I	3/11/2024	N	EM19	UMCf	77.1 - 87.1	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-13I	6/13/2024	N	EM20	UMCf	77.1 - 87.1	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-14D	4/13/2022	N	BL02	UMCf	97.3 - 107.3	<0.322	<0.276	<0.126	<0.107	0.134 J	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-14D	12/6/2022	N	EM04	UMCf	97.3 - 107.3	<1.61 UJ	<1.38 UJ	<0.630 UJ	<0.535 UJ	<0.409 UJ	<0.745 UJ	<0.520 UJ	<0.550 UJ	<0.550 UJ	<0.600 UJ
U4-MW-14D	3/16/2023	N	EM07	UMCf	97.3 - 107.3	<1.61	<1.38	<0.630	<0.535	<0.409	<0.745	<0.520 UJ	<0.550	<0.550	<0.600
U4-MW-14D	6/15/2023	N	EM10	UMCf	97.3 - 107.3	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-14D	9/14/2023	N	EM13	UMCf	97.3 - 107.3	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-14D	12/15/2023	N	EM16	UMCf	97.3 - 107.3	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-14D	3/13/2024	N	EM19	UMCf	97.3 - 107.3	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120

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
						1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene (Mesitylene)	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene
						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	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-14I	4/14/2022	N	BL02	UMCf	77.3 - 87.3	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-14I	12/6/2022	N	EM04	UMCf	77.3 - 87.3	<1.61 UJ	<1.38 UJ	<0.630 UJ	<0.535 UJ	<0.409 UJ	<0.745 UJ	<0.520 UJ	<0.550 UJ	<0.550 UJ	<0.600 UJ
U4-MW-14I	3/16/2023	N	EM07	UMCf	77.3 - 87.3	<1.61	<1.38	<0.630	<0.535	<0.409	<0.745	<0.520 UJ	<0.550	<0.550	<0.600
U4-MW-14I	6/15/2023	N	EM10	UMCf	77.3 - 87.3	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-14I	9/14/2023	N	EM13	UMCf	77.3 - 87.3	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-14I	12/14/2023	N	EM16	UMCf	77.3 - 87.3	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-14I	3/13/2024	N	EM19	UMCf	77.3 - 87.3	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-14I	6/14/2024	N	EM20	UMCf	77.3 - 87.3	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-15D	4/13/2022	N	BL02	UMCf	96.0 - 106.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-15D	12/5/2022	N	EM04	UMCf	96.0 - 106.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-15D	3/20/2023	N	EM07	UMCf	96.0 - 106.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-15D	6/14/2023	N	EM10	UMCf	96.0 - 106.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-15D	9/13/2023	N	EM13	UMCf	96.0 - 106.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-15D	12/12/2023	N	EM16	UMCf	96.0 - 106.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-15D	3/12/2024	N	EM19	UMCf	96.0 - 106.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-15D	6/14/2024	N	EM20	UMCf	96.0 - 106.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-15DD	4/13/2022	N	BL02	UMCf	120.3 - 130.3	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-15DD	12/5/2022	N	EM04	UMCf	120.3 - 130.3	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-15DD	3/15/2023	N	EM07	UMCf	120.3 - 130.3	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-15DD	6/13/2023	N	EM10	UMCf	120.3 - 130.3	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-15DD	9/14/2023	N	EM13	UMCf	120.3 - 130.3	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-15DD	12/13/2023	N	EM16	UMCf	120.3 - 130.3	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-15DD	3/12/2024	N	EM19	UMCf	120.3 - 130.3	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-15DD	6/14/2024	N	EM20	UMCf	120.3 - 130.3	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-15I	4/12/2022	N	BL02	UMCf	76.8 - 86.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-15I	12/5/2022	N	EM04	UMCf	76.8 - 86.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-15I	3/17/2023	N	EM07	UMCf	76.8 - 86.8	<6.44	<5.52	<2.52	<2.14	<1.64	<2.98	<2.08	<2.20	<2.20	<2.40
U4-MW-15I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-15I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-15I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-15I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20	<5.50	<5.50	<6.00
U4-MW-15I	6/17/2024	N	EM20	UMCf	76.8 - 86.8	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20	<5.50	<5.50	<6.00
U4-MW-15S	4/13/2022	N	BL02	UMCf	54.8 - 64.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-15S	12/5/2022	N	EM04	UMCf	54.8 - 64.8	<8.05	<6.90	<3.15	<2.68	<2.05	<3.73	<2.60	<2.75	<2.75	<3.00
U4-MW-15S	3/13/2023	N	EM07	UMCf	54.8 - 64.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-15S	6/13/2023	N	EM10	UMCf	54.8 - 64.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-15S	9/14/2023	N	EM13	UMCf	54.8 - 64.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-15S	12/11/2023	N	EM16	UMCf	54.8 - 64.8	<0.644	<0.552 UJ	<0.252	<0.214	<0.164	<0.298	<0.208	<0.220	<0.220	<0.240
U4-MW-15S	3/12/2024	N	EM19	UMCf	54.8 - 64.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-15S	3/26/2024	N	EM19	UMCf	54.8 - 64.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-15S	6/14/2024	N	EM20	UMCf	54.8 - 64.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-16D	4/11/2022	N	BL02	UMCf	96.8 - 106.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120

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
						1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene (Mesitylene)	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-16D	12/5/2022	N	EM04	UMCf	96.8 - 106.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-16D	3/14/2023	N	EM07	UMCf	96.8 - 106.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-16D	6/13/2023	N	EM10	UMCf	96.8 - 106.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-16D	9/15/2023	N	EM13	UMCf	96.8 - 106.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-16D	12/14/2023	N	EM16	UMCf	96.8 - 106.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-16D	3/14/2024	N	EM19	UMCf	96.8 - 106.8	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45 UJ	<5.20	<5.50	<5.50	<6.00
U4-MW-16D	6/17/2024	N	EM20	UMCf	96.8 - 106.8	<16.1	<13.8	<6.30	<5.35	<4.09	<7.45	<5.20	<5.50	<5.50	<6.00
U4-MW-16DD	4/12/2022	N	BL02	UMCf	120.8 - 130.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-16DD	12/5/2022	N	EM04	UMCf	120.8 - 130.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-16DD	3/15/2023	N	EM07	UMCf	120.8 - 130.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-16DD	6/13/2023	N	EM10	UMCf	120.8 - 130.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-16DD	9/14/2023	N	EM13	UMCf	120.8 - 130.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-16DD	12/13/2023	N	EM16	UMCf	120.8 - 130.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-16DD	3/14/2024	N	EM19	UMCf	120.8 - 130.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149 UJ	<0.104	<0.110	<0.110	<0.120
U4-MW-16DD	6/17/2024	N	EM20	UMCf	120.8 - 130.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-16I	4/11/2022	N	BL02	UMCf	77.0 - 87.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-16I	12/5/2022	N	EM04	UMCf	77.0 - 87.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-16I	12/5/2022	FD	EM04	UMCf	77.0 - 87.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-16I	3/13/2023	N	EM07	UMCf	77.0 - 87.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-16I	3/13/2023	FD	EM07	UMCf	77.0 - 87.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-16I	6/12/2023	N	EM10	UMCf	77.0 - 87.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-16I	6/12/2023	FD	EM10	UMCf	77.0 - 87.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-16I	9/11/2023	N	EM13	UMCf	77.0 - 87.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-16I	9/11/2023	FD	EM13	UMCf	77.0 - 87.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-16I	12/11/2023	N	EM16	UMCf	77.0 - 87.0	<0.322	<0.276 UJ	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-16I	12/11/2023	FD	EM16	UMCf	77.0 - 87.0	<0.322	<0.276 UJ	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-16I	3/11/2024	N	EM19	UMCf	77.0 - 87.0	<0.322	<0.276	<0.126	<0.107	0.112 J	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-16I	3/11/2024	FD	EM19	UMCf	77.0 - 87.0	<0.322	<0.276	<0.126	<0.107	0.130 J	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-16I	6/18/2024	N	EM20	UMCf	77.0 - 87.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-16I	6/18/2024	FD	EM20	UMCf	77.0 - 87.0	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-16S	4/12/2022	N	BL02	UMCf	54.8 - 64.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-16S	4/12/2022	FD	BL02	UMCf	54.8 - 64.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-16S	12/6/2022	N	EM04	UMCf	54.8 - 64.8	<0.322 UJ	<0.276 UJ	<0.126 UJ	<0.107 UJ	<0.0819 UJ	<0.149 UJ	<0.104 UJ	<0.110 UJ	<0.110 UJ	<0.120 UJ
U4-MW-16S	3/15/2023	N	EM07	UMCf	54.8 - 64.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-16S	6/13/2023	N	EM10	UMCf	54.8 - 64.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-16S	9/11/2023	N	EM13	UMCf	54.8 - 64.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-16S	12/11/2023	N	EM16	UMCf	54.8 - 64.8	<0.322	<0.276 UJ	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-16S	3/11/2024	N	EM19	UMCf	54.8 - 64.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-MW-16S	6/17/2024	N	EM20	UMCf	54.8 - 64.8	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-SLMW	11/10/2022	N	EM03		-	<1.61	<1.38	<0.630	<0.535	<0.409	<0.745	<0.520	<0.550	<0.550	<0.600
U4-T3	10/13/2022	N	EM02		-	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-T3	11/3/2022	N	EM03		-	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-T3	12/6/2022	N	EM04		-	<6.44 UJ	<5.52 UJ	<2.52 UJ	<2.14 UJ	<1.64 UJ	<2.98 UJ	<2.08 UJ	<2.20 UJ	<2.20 UJ	<2.40 UJ

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
						1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene (Mesitylene)	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-T3	1/9/2023	N	EM05		-	<0.322	<0.276	<0.126	<0.107	0.0844 J	<0.149	<0.104	<0.110	<0.110	<0.120
U4-T3	2/13/2023	N	EM06		-	<32.2	<27.6	<12.6	<10.7	<8.19	<14.9	<10.4	<11.0	<11.0	<12.0
U4-T3	3/13/2023	N	EM07		-	<8.05	<6.90	<3.15	<2.68	<2.05	<3.73	<2.60	<2.75	<2.75	<3.00
U4-T3	4/19/2023	N	EM08		-	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-T3	5/18/2023	N	EM09		-	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-T3	6/12/2023	N	EM10		-	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-T3	7/11/2023	N	EM11		-	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-T3	8/10/2023	N	EM12		-	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-T3	9/11/2023	N	EM13		-	<0.322	<0.276	<0.126	<0.107	<0.0819	<0.149	<0.104	<0.110	<0.110	<0.120
U4-T3	10/16/2023	N	EM14		-	<8.05	<6.90	<3.15	<2.68	<2.05	<3.73	<2.60	<2.75	<2.75	<3.00

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 sample quantitation limit.

-- 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.

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
						2,2-Dichloropropane	2-Butanone (MEK)	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-Pentanone	Acetone	Benzene	Bromobenzene	Bromochloromethane
						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	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
M-251-100	10/13/2022	N	EM02	UMCf	92.5 - 102.5	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
M-251-100	11/2/2022	N	EM03	UMCf	92.5 - 102.5	<1.61	<11.9	<1.06	<7.87	<1.14	<4.78	<113	<0.941	<1.18	<1.28
M-251-100	12/8/2022	N	EM04	UMCf	92.5 - 102.5	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
M-251-100	1/11/2023	N	EM05	UMCf	92.5 - 102.5	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
M-251-100	2/13/2023	N	EM06	UMCf	92.5 - 102.5	<0.161	1.46 J	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
M-251-100	3/17/2023	N	EM07	UMCf	92.5 - 102.5	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565	<4.71	<5.90	<6.40
M-251-100	4/21/2023	N	EM08	UMCf	92.5 - 102.5	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
M-251-100	5/9/2023	N	EM09	UMCf	92.5 - 102.5	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
M-251-100	6/14/2023	N	EM10	UMCf	92.5 - 102.5	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565	<4.71	<5.90	<6.40
M-251-100	7/14/2023	N	EM11	UMCf	92.5 - 102.5	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
M-251-100	8/10/2023	N	EM12	UMCf	92.5 - 102.5	<0.161	35.6	<0.106	2.52 J	<0.114	<0.478	21.9 J	<0.0941	<0.118	<0.128
M-251-100	9/14/2023	N	EM13	UMCf	92.5 - 102.5	<0.161	1.97 J	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
M-251-100	10/19/2023	N	EM14	UMCf	92.5 - 102.5	<0.161	5.41 J	<0.106	<0.787	<0.114	<0.478	19.1 J	<0.0941	<0.118	<0.128
M-251-100	11/16/2023	N	EM15	UMCf	92.5 - 102.5	<8.05	100 J	<5.30	<39.4	<5.70	<23.9	<565	<4.71	<5.90	<6.40
M-251-100	12/12/2023	N	EM16	UMCf	92.5 - 102.5	<0.161	39.7 J	<0.106	<0.787	<0.114	<0.478	135 J+	<0.0941	<0.118	<0.128
M-251-100	1/25/2024	N	EM17	UMCf	92.5 - 102.5	<0.161	24.5	<0.106	<0.787	<0.114	<0.478	217	<0.0941	<0.118	<0.128
M-251-100	2/13/2024	N	EM18	UMCf	92.5 - 102.5	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565	<4.71	<5.90	<6.40
M-251-100	3/11/2024	N	EM19	UMCf	92.5 - 102.5	<8.05	135 J	<5.30	<39.4	<5.70	<23.9	<565	<4.71	<5.90	<6.40
M-251-100	6/17/2024	N	EM20	UMCf	92.5 - 102.5	<8.05	408 J	<5.30	<39.4	<5.70	<23.9	778 J	<4.71	<5.90	<6.40
M-251-60	4/18/2022	N	BL02	UMCf	52.3 - 62.3	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	0.132 J	<0.118	<0.128
M-251-60	3/15/2023	N	EM07	UMCf	52.3 - 62.3	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
M-251-60	6/14/2023	N	EM10	UMCf	52.3 - 62.3	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
M-251-60	9/14/2023	N	EM13	UMCf	52.3 - 62.3	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
M-251-60	12/11/2023	N	EM16	UMCf	52.3 - 62.3	<0.161	<1.19	<0.106	<0.787 UJ	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
M-251-60	3/12/2024	N	EM19	UMCf	52.3 - 62.3	<0.161	2.11 J	<0.106	<0.787	<0.114	<0.478	11.6 J	<0.0941	<0.118	<0.128
M-251-60	6/19/2024	N	EM20	UMCf	52.3 - 62.3	<0.161	4.10 J	<0.106	<0.787	<0.114	<0.478	16.5 J	<0.0941	<0.118	<0.128
M-252	4/21/2022	N	BL02	UMCf	132.3 - 142.3	<0.161	7.60 J	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
M-252	3/15/2023	N	EM07	UMCf	132.3 - 142.3	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
M-252	9/19/2023	N	EM13	UMCf	132.3 - 142.3	<0.161	4.31 J	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
M-252	12/18/2023	N	EM16	UMCf	132.3 - 142.3	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
M-252	3/12/2024	N	EM19	UMCf	132.3 - 142.3	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
M-252	6/19/2024	N	EM20	UMCf	132.3 - 142.3	<0.161	16.7	<0.106	1.59 J	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
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	<0.805	<5.95	<0.530	<3.94	<0.570	<2.39	<56.5	<0.471	<0.590	<0.640
U4-E-01D	3/14/2023	N	EM07	UMCf	94.7 - 109.7	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-E-01D	6/20/2024	N	EM20	UMCf	94.7 - 109.7	<1.61	2,640	<1.06	11.5 J	<1.14	<4.78	991	<0.941	<1.18	<1.28
U4-E-01I	4/19/2022	N	BL02	UMCf	74.6 - 89.6	<0.161	3.29 J	<0.106	<0.787	<0.114	<0.478	11.7 J	<0.0941	<0.118	<0.128
U4-E-01I	4/19/2022	FD	BL02	UMCf	74.6 - 89.6	<0.161	3.45 J	<0.106	0.848 J	<0.114	<0.478	11.7 J	<0.0941	<0.118	<0.128
U4-E-01I	3/14/2023	N	EM07	UMCf	74.6 - 89.6	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128

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
						2,2-Dichloropropane	2-Butanone (MEK)	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-Pentanone	Acetone	Benzene	Bromobenzene	Bromochloromethane
						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	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-E-01I	5/10/2023	N	EM09	UMCf	74.6 - 89.6	<0.161	5.34 J	<0.106	<0.787	<0.114	<0.478	44.5 J	<0.0941	<0.118	<0.128
U4-E-01I	6/12/2023	N	EM10	UMCf	74.6 - 89.6	<0.161	19.7	<0.106	<0.787 UJ	<0.114	<0.478	84.3 J+	<0.0941	<0.118	<0.128
U4-E-01I	7/11/2023	N	EM11	UMCf	74.6 - 89.6	<0.805	<5.95	<0.530	<3.94	<0.570	<2.39	59.3 J	<0.471	<0.590	<0.640
U4-E-01I	8/10/2023	N	EM12	UMCf	74.6 - 89.6	<0.161	7.24 J	<0.106	<0.787	<0.114	0.711 J	27.4 J	<0.0941	<0.118	<0.128
U4-E-01I	9/11/2023	N	EM13	UMCf	74.6 - 89.6	<0.805	<5.95	<0.530	<3.94	<0.570	<2.39	<56.5	<0.471	<0.590	<0.640
U4-E-01I	10/16/2023	N	EM14	UMCf	74.6 - 89.6	<0.161	20.5	<0.106	<0.787	<0.114	<0.478	24.9 J	<0.0941	<0.118	<0.128
U4-E-01I	12/13/2023	N	EM16	UMCf	74.6 - 89.6	<1.61	62.0 J	<1.06	<7.87	<1.14	<4.78	<113	<0.941	<1.18	<1.28
U4-E-01I	1/24/2024	N	EM17	UMCf	74.6 - 89.6	<3.22	<23.8	<2.12	<15.7	<2.28	<9.56	<226	<1.88	<2.36	<2.56
U4-E-01I	2/14/2024	N	EM18	UMCf	74.6 - 89.6	<1.61	<11.9	<1.06	<7.87	<1.14	<4.78	<113	<0.941	<1.18	<1.28
U4-E-01I	3/12/2024	N	EM19	UMCf	74.6 - 89.6	<1.61	18.5 J	<1.06	<7.87	<1.14	<4.78	<113	<0.941	<1.18	<1.28
U4-E-01I	6/20/2024	N	EM20	UMCf	74.6 - 89.6	<1.61	2,610	<1.06	<7.87	<1.14	<4.78	1,280	<0.941	<1.18	<1.28
U4-E-02D	4/20/2022	N	BL02	UMCf	94.4 - 109.4	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-E-02D	3/14/2023	N	EM07	UMCf	94.4 - 109.4	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-E-02D	6/19/2024	N	EM20	UMCf	94.4 - 109.4	<1.61	2,970	<1.06	<7.87	<1.14	<4.78	1,010	<0.941	<1.18	<1.28
U4-E-02I	4/18/2022	N	BL02	UMCf	74.4 - 89.4	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118 UJ	<0.128
U4-E-02I	3/14/2023	N	EM07	UMCf	74.4 - 89.4	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-E-02I	4/20/2023	N	EM08	UMCf	74.4 - 89.4	<0.161	5.27 J	<0.106	<0.787	<0.114	<0.478	17.6 J	<0.0941	<0.118	<0.128
U4-E-02I	5/11/2023	N	EM09	UMCf	74.4 - 89.4	<0.161	12.3	<0.106	<0.787	<0.114	<0.478	52.8	<0.0941	<0.118	<0.128
U4-E-02I	6/12/2023	N	EM10	UMCf	74.4 - 89.4	<0.161	31.6	<0.106	<0.787 UJ	<0.114	<0.478	31.2 J	<0.0941	<0.118	<0.128
U4-E-02I	7/11/2023	N	EM11	UMCf	74.4 - 89.4	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	36.2 J	<0.0941	<0.118	<0.128
U4-E-02I	8/10/2023	N	EM12	UMCf	74.4 - 89.4	<0.161	47.5	<0.106	<0.787	<0.114	<0.478	41.5 J	<0.0941	<0.118	<0.128
U4-E-02I	9/11/2023	N	EM13	UMCf	74.4 - 89.4	<0.161	41.3	<0.106	<0.787	<0.114	<0.478	57.0	<0.0941	<0.118	<0.128
U4-E-02I	10/16/2023	N	EM14	UMCf	74.4 - 89.4	<1.61	47.8 J	<1.06	<7.87	<1.14	<4.78	<113	<0.941	<1.18	<1.28
U4-E-02I	12/14/2023	N	EM16	UMCf	74.4 - 89.4	<1.61	<11.9	<1.06	<7.87	<1.14	<4.78	<113	<0.941	<1.18	<1.28
U4-E-02I	1/22/2024	N	EM17	UMCf	74.4 - 89.4	<0.161	17.9	<0.106	<0.787 UJ	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-E-02I	2/13/2024	N	EM18	UMCf	74.4 - 89.4	<0.161	46.6	<0.106	<0.787	<0.114	1.16 J	<11.3	<0.0941	<0.118	<0.128
U4-E-02I	3/13/2024	N	EM19	UMCf	74.4 - 89.4	<4.03	<29.8	<2.65	<19.7	<2.85	<12.0	<282	<2.35	<2.95	<3.20
U4-E-02I	6/19/2024	N	EM20	UMCf	74.4 - 89.4	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130	<9.41	<11.8	<12.8
U4-E-03D	4/19/2022	N	BL02	UMCf	95.1 - 110.1	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-E-03D	10/13/2022	N	EM02	UMCf	95.1 - 110.1	<32.2	<238	<21.2	<157	<22.8	<95.6	<2,260	<18.8	<23.6	<25.6
U4-E-03D	11/3/2022	N	EM03	UMCf	95.1 - 110.1	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-E-03D	12/6/2022	N	EM04	UMCf	95.1 - 110.1	<3.22 UJ	<23.8 UJ	<2.12 UJ	<15.7 UJ	<2.28 UJ	<9.56 UJ	<226 UJ	<1.88 UJ	<2.36 UJ	<2.56 UJ
U4-E-03D	1/9/2023	N	EM05	UMCf	95.1 - 110.1	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-E-03D	2/13/2023	N	EM06	UMCf	95.1 - 110.1	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130	<9.41	<11.8	<12.8
U4-E-03D	3/13/2023	N	EM07	UMCf	95.1 - 110.1	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130	<9.41	<11.8	<12.8
U4-E-03D	3/14/2023	N	EM07	UMCf	95.1 - 110.1	<32.2	<238	<21.2	<157	<22.8	<95.6	<2,260	<18.8	<23.6	<25.6
U4-E-03D	4/19/2023	N	EM08	UMCf	95.1 - 110.1	<0.805	<5.95	<0.530	<3.94	<0.570	<2.39	<56.5	<0.471	<0.590	<0.640
U4-E-03D	5/11/2023	N	EM09	UMCf	95.1 - 110.1	<0.161	50.0	<0.106	<0.787	<0.114	<0.478	164	<0.0941	<0.118	0.159 J
U4-E-03D	6/12/2023	N	EM10	UMCf	95.1 - 110.1	<0.161	46.8	<0.106	<0.787 UJ	<0.114	<0.478	233	<0.0941	<0.118	<0.128
U4-E-03D	7/11/2023	N	EM11	UMCf	95.1 - 110.1	<0.161	18.4	<0.106	<0.787	<0.114	<0.478	195	<0.0941	<0.118	<0.128
U4-E-03D	8/10/2023	N	EM12	UMCf	95.1 - 110.1	<0.161	6.05 J	<0.106	<0.787	<0.114	<0.478	29.5 J	<0.0941	<0.118	<0.128
U4-E-03D	9/11/2023	N	EM13	UMCf	95.1 - 110.1	<0.161	32.7	<0.106	<0.787	<0.114	<0.478	201	<0.0941	<0.118	<0.128

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
						2,2-Dichloropropane	2-Butanone (MEK)	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-Pentanone	Acetone	Benzene	Bromobenzene	Bromochloromethane
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-E-03D	10/16/2023	N	EM14	UMCf	95.1 - 110.1	<32.2	<238	<21.2	<157	<22.8	<95.6	<2,260	<18.8	<23.6	<25.6
U4-E-03D	6/10/2024	N	EM20	UMCf	95.1 - 110.1	<3.22	1,450	<2.12	<15.7	<2.28	<9.56	485 J	<1.88	<2.36	<2.56
U4-E-03D	6/10/2024	FD	EM20	UMCf	95.1 - 110.1	<3.22	1,480	<2.12	<15.7	<2.28	<9.56	500 J	<1.88	<2.36	<2.56
U4-E-04D	4/19/2022	N	BL02	UMCf	95.0 - 110.0	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-E-04D	3/14/2023	N	EM07	UMCf	95.0 - 110.0	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-E-04D	6/20/2024	N	EM20	UMCf	95.0 - 110.0	<1.61	1,180	<1.06	<7.87	<1.14	<4.78	937	<0.941	<1.18	<1.28
U4-E-04I	4/18/2022	N	BL02	UMCf	75.0 - 90.0	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-E-04I	3/14/2023	N	EM07	UMCf	75.0 - 90.0	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565	<4.71	<5.90	<6.40
U4-E-04I	6/20/2024	N	EM20	UMCf	75.0 - 90.0	<1.61	851	<1.06	<7.87	<1.14	<4.78	942	<0.941	<1.18	<1.28
U4-E-05D	4/19/2022	N	BL02	UMCf	95.0 - 110.0	<0.161	2.86 J	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-E-05D	3/16/2023	N	EM07	UMCf	95.0 - 110.0	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-E-05D	6/10/2024	N	EM20	UMCf	95.0 - 110.0	<3.22	1,500	<2.12	<15.7	<2.28	<9.56	1,130	<1.88	<2.36	<2.56
U4-E-05I	4/19/2022	N	BL02	UMCf	75.0 - 90.0	<0.161	4.61 J	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-E-05I	3/15/2023	N	EM07	UMCf	75.0 - 90.0	<0.161 UJ	110 J-	<0.106 UJ	<0.787 UJ	<0.114 UJ	<0.478 UJ	98.1 J	<0.0941 UJ	<0.118 UJ	<0.128 UJ
U4-E-05I	6/19/2024	N	EM20	UMCf	75.0 - 90.0	<8.05	1,700	<5.30	<39.4	<5.70	<23.9	908 J	<4.71	<5.90	<6.40
U4-E-06D	4/11/2022	N	BL02	UMCf	95.1 - 110.1	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	0.186 J	<0.118	<0.128
U4-E-06D	6/20/2024	N	EM20	UMCf	95.1 - 110.1	<1.61	2,680	<1.06	15.8 J	<1.14	<4.78	1,390	<0.941	<1.18	<1.28
U4-E-06I	4/11/2022	N	BL02	UMCf	73.2 - 88.2	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	0.166 J	<0.118	<0.128
U4-E-06I	4/11/2022	FD	BL02	UMCf	73.2 - 88.2	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	0.153 J	<0.118	<0.128
U4-E-06I	10/12/2022	N	EM02	UMCf	73.2 - 88.2	<0.161	8.89 J	<0.106	<0.787	<0.114	<0.478	33.8 J	<0.0941	<0.118	0.445 J
U4-E-06I	11/3/2022	N	EM03	UMCf	73.2 - 88.2	<0.161	10.5	<0.106	<0.787	<0.114	<0.478	39.8 J	<0.0941	<0.118	<0.128
U4-E-06I	12/6/2022	N	EM04	UMCf	73.2 - 88.2	<1.61 UJ	36.1 J	<1.06 UJ	<7.87 UJ	<1.14 UJ	<4.78 UJ	<113 UJ	<0.941 UJ	<1.18 UJ	<1.28 UJ
U4-E-06I	1/9/2023	N	EM05	UMCf	73.2 - 88.2	<0.161	16.0 J+	<0.106	<0.787	<0.114	<0.478	32.8 J	<0.0941	<0.118	<0.128
U4-E-06I	2/13/2023	N	EM06	UMCf	73.2 - 88.2	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130	<9.41	<11.8	<12.8
U4-E-06I	3/13/2023	N	EM07	UMCf	73.2 - 88.2	<3.22	<23.8	<2.12	<15.7	<2.28	<9.56	<226	<1.88	<2.36	<2.56
U4-E-06I	4/17/2023	N	EM08	UMCf	73.2 - 88.2	<3.22	26.1 J	<2.12	<15.7	<2.28	<9.56	<226	<1.88	<2.36	<2.56
U4-E-06I	5/15/2023	N	EM09	UMCf	73.2 - 88.2	<4.03	<29.8	<2.65	<19.7	<2.85	<12.0	<282	<2.35	<2.95	<3.20
U4-E-06I	6/12/2023	N	EM10	UMCf	73.2 - 88.2	<0.161	7.09 J	<0.106	<0.787 UJ	<0.114	<0.478	21.0 J	<0.0941	<0.118	<0.128
U4-E-06I	7/11/2023	N	EM11	UMCf	73.2 - 88.2	<0.161	14.1	<0.106	<0.787	<0.114	<0.478	52.8	<0.0941	<0.118	<0.128
U4-E-06I	8/11/2023	N	EM12	UMCf	73.2 - 88.2	<0.805	<5.95	<0.530	<3.94	<0.570	<2.39	<56.5	<0.471	<0.590	<0.640
U4-E-06I	9/11/2023	N	EM13	UMCf	73.2 - 88.2	<0.161	11.1	<0.106	<0.787	<0.114	<0.478	87.0	<0.0941	<0.118	<0.128
U4-E-06I	10/16/2023	N	EM14	UMCf	73.2 - 88.2	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565	<4.71	<5.90	<6.40
U4-E-06I	12/13/2023	N	EM16	UMCf	73.2 - 88.2	<0.161	196	<0.106	7.34 J	<0.114	9.20 J	497 J	<0.0941	<0.118	<0.128
U4-E-06I	1/22/2024	N	EM17	UMCf	73.2 - 88.2	<0.161	927	<0.106	17.1 J-	<0.114	19.1	1,100 J	<0.0941	<0.118	<0.128
U4-E-06I	2/13/2024	N	EM18	UMCf	73.2 - 88.2	<8.05	1,020	<5.30	<39.4	<5.70	<23.9	959 J	<4.71	<5.90	<6.40
U4-E-06I	3/11/2024	N	EM19	UMCf	73.2 - 88.2	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565	<4.71	<5.90	<6.40
U4-E-06I	6/11/2024	N	EM20	UMCf	73.2 - 88.2	<0.161	7.24 J	<0.106	<0.787	<0.114	<0.478	30.5 J	<0.0941	<0.118	<0.128
U4-E-07D	4/12/2022	N	BL02	UMCf	94.6 - 109.6	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-E-07D	6/20/2024	N	EM20	UMCf	94.6 - 109.6	<1.61	<11.9	<1.06	<7.87	<1.14	<4.78	<113	<0.941	<1.18	<1.28
U4-E-07I	4/12/2022	N	BL02	UMCf	74.7 - 89.7	<0.161	1.25 J	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-E-07I	10/11/2022	N	EM02	UMCf	74.7 - 89.7	<1.61	<11.9	<1.06	<7.87	<1.14	<4.78	<113	<0.941	<1.18	<1.28
U4-E-07I	11/3/2022	N	EM03	UMCf	74.7 - 89.7	<0.161	2.17 J	<0.106	<0.787	<0.114	<0.478	<11.3	0.186 J	<0.118	<0.128
U4-E-07I	12/6/2022	N	EM04	UMCf	74.7 - 89.7	<4.03 UJ	<29.8 UJ	<2.65 UJ	<19.7 UJ	<2.85 UJ	<12.0 UJ	<282 UJ	<2.35 UJ	<2.95 UJ	<3.20 UJ

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
						2,2-Dichloropropane	2-Butanone (MEK)	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-Pentanone	Acetone	Benzene	Bromobenzene	Bromochloromethane
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-E-07I	1/9/2023	N	EM05	UMCf	74.7 - 89.7	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-E-07I	2/13/2023	N	EM06	UMCf	74.7 - 89.7	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130	<9.41	<11.8	<12.8
U4-E-07I	3/13/2023	N	EM07	UMCf	74.7 - 89.7	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130	<9.41	<11.8	<12.8
U4-E-07I	4/19/2023	N	EM08	UMCf	74.7 - 89.7	<0.805	<5.95	<0.530	<3.94	<0.570	<2.39	<56.5	<0.471	<0.590	<0.640
U4-E-07I	5/15/2023	N	EM09	UMCf	74.7 - 89.7	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130	<9.41	<11.8	<12.8
U4-E-07I	6/12/2023	N	EM10	UMCf	74.7 - 89.7	<0.161	<1.19	<0.106	<0.787 UJ	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-E-07I	7/11/2023	N	EM11	UMCf	74.7 - 89.7	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-E-07I	8/11/2023	N	EM12	UMCf	74.7 - 89.7	<0.805	<5.95	<0.530	<3.94	<0.570	<2.39	<56.5	<0.471	<0.590	<0.640
U4-E-07I	9/11/2023	N	EM13	UMCf	74.7 - 89.7	<0.161	6.21 J	<0.106	<0.787	<0.114	<0.478	32.0 J	<0.0941	<0.118	<0.128
U4-E-07I	10/16/2023	N	EM14	UMCf	74.7 - 89.7	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130	<9.41	<11.8	<12.8
U4-E-07I	12/13/2023	N	EM16	UMCf	74.7 - 89.7	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-E-07I	1/23/2024	N	EM17	UMCf	74.7 - 89.7	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-E-07I	2/13/2024	N	EM18	UMCf	74.7 - 89.7	<32.2	<238	<21.2	<157	<22.8	<95.6	<2,260	<18.8	<23.6	<25.6
U4-E-07I	3/11/2024	N	EM19	UMCf	74.7 - 89.7	<32.2	<238	<21.2	<157	<22.8	<95.6	<2,260	<18.8	<23.6	<25.6
U4-E-07I	6/11/2024	N	EM20	UMCf	74.7 - 89.7	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-E-08D	4/12/2022	N	BL02	UMCf	94.6 - 109.6	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	0.298 J
U4-E-08D	10/11/2022	N	EM02	UMCf	94.6 - 109.6	<1.61	<11.9	<1.06	<7.87	<1.14	<4.78	<113	<0.941	<1.18	<1.28
U4-E-08D	11/3/2022	N	EM03	UMCf	94.6 - 109.6	<0.161	1.32 J	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-E-08D	12/6/2022	N	EM04	UMCf	94.6 - 109.6	<4.03 UJ	<29.8 UJ	<2.65 UJ	<19.7 UJ	<2.85 UJ	<12.0 UJ	<282 UJ	<2.35 UJ	<2.95 UJ	<3.20 UJ
U4-E-08D	1/9/2023	N	EM05	UMCf	94.6 - 109.6	<0.161	2.81 J	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-E-08D	2/13/2023	N	EM06	UMCf	94.6 - 109.6	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130	<9.41	<11.8	<12.8
U4-E-08D	3/13/2023	N	EM07	UMCf	94.6 - 109.6	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130	<9.41	<11.8	<12.8
U4-E-08D	4/19/2023	N	EM08	UMCf	94.6 - 109.6	<0.805	<5.95	<0.530	<3.94	<0.570	<2.39	<56.5	<0.471	<0.590	<0.640
U4-E-08D	5/17/2023	N	EM09	UMCf	94.6 - 109.6	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130	<9.41	<11.8	<12.8
U4-E-08D	6/12/2023	N	EM10	UMCf	94.6 - 109.6	<0.161	<1.19	<0.106	<0.787 UJ	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-E-08D	7/11/2023	N	EM11	UMCf	94.6 - 109.6	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-E-09D	4/15/2022	N	BL02	UMCf	94.5 - 109.5	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-E-09D	6/10/2024	N	EM20	UMCf	94.5 - 109.5	<3.22	1,500	<2.12	<15.7	<2.28	<9.56	835 J	<1.88	<2.36	<2.56
U4-E-09I	4/14/2022	N	BL02	UMCf	74.9 - 89.9	<0.161	1.24 J	<0.106	<0.787	<0.114	<0.478	<11.3	0.188 J	<0.118	<0.128
U4-E-09I	6/10/2024	N	EM20	UMCf	74.9 - 89.9	<3.22	381	<2.12	<15.7	<2.28	<9.56	418 J	<1.88	<2.36	<2.56
U4-E-09I	6/10/2024	FD	EM20	UMCf	74.9 - 89.9	<3.22	338	<2.12	<15.7	<2.28	<9.56	374 J	<1.88	<2.36	<2.56
U4-E-10D	4/13/2022	N	BL02	UMCf	94.5 - 109.5	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-E-10D	6/19/2024	N	EM20	UMCf	94.5 - 109.5	<1.61	4,320	<1.06	11.8 J	<1.14	<4.78	1,070	<0.941	<1.18	<1.28
U4-E-10I	4/13/2022	N	BL02	UMCf	74.2 - 89.2	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-E-10I	6/11/2024	N	EM20	UMCf	74.2 - 89.2	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130	<9.41	<11.8	<12.8
U4-MW-01D	4/19/2022	N	BL02	UMCf	96.7 - 106.7	<0.161	3.67 J	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-01D	2/16/2023	N	EM06	UMCf	96.7 - 106.7	<1.61	<11.9	<1.06	<7.87	<1.14	<4.78	<113	<0.941	<1.18	<1.28
U4-MW-01D	3/20/2023	N	EM07	UMCf	96.7 - 106.7	<0.161	1.37 J	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-01D	6/13/2023	N	EM10	UMCf	96.7 - 106.7	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-01D	9/14/2023	N	EM13	UMCf	96.7 - 106.7	<0.161	1.26 J	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-01D	12/14/2023	N	EM16	UMCf	96.7 - 106.7	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-01D	3/13/2024	N	EM19	UMCf	96.7 - 106.7	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-01D	6/18/2024	N	EM20	UMCf	96.7 - 106.7	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128

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
						2,2-Dichloropropane	2-Butanone (MEK)	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-Pentanone	Acetone	Benzene	Bromobenzene	Bromochloromethane
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-01DD	4/19/2022	N	BL02	UMCf	119.9 - 129.9	<0.161	5.15 J	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-01DD	4/19/2022	FD	BL02	UMCf	119.9 - 129.9	<0.161	5.81 J	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-01DD	3/15/2023	N	EM07	UMCf	119.9 - 129.9	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-01DD	6/13/2023	N	EM10	UMCf	119.9 - 129.9	<0.161	2.36 J	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-01DD	9/14/2023	N	EM13	UMCf	119.9 - 129.9	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-01DD	12/15/2023	N	EM16	UMCf	119.9 - 129.9	<0.805	<5.95	<0.530	<3.94	<0.570	<2.39	<56.5	<0.471	<0.590	<0.640
U4-MW-01DD	3/12/2024	N	EM19	UMCf	119.9 - 129.9	<0.805	<5.95	<0.530	<3.94	<0.570	<2.39	<56.5	<0.471	<0.590	<0.640
U4-MW-01DD	6/18/2024	N	EM20	UMCf	119.9 - 129.9	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-01I	4/19/2022	N	BL02	UMCf	76.7 - 86.7	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-01I	3/20/2023	N	EM07	UMCf	76.7 - 86.7	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-01I	6/12/2023	N	EM10	UMCf	76.7 - 86.7	<0.161	<1.19	<0.106	<0.787 UJ	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-01I	9/14/2023	N	EM13	UMCf	76.7 - 86.7	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-01I	12/15/2023	N	EM16	UMCf	76.7 - 86.7	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565	<4.71	<5.90	<6.40
U4-MW-01I	3/13/2024	N	EM19	UMCf	76.7 - 86.7	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-01I	6/18/2024	N	EM20	UMCf	76.7 - 86.7	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-01S	4/18/2022	N	BL02	UMCf	54.7 - 64.7	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-01S	3/15/2023	N	EM07	UMCf	54.7 - 64.7	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-01S	6/13/2023	N	EM10	UMCf	54.7 - 64.7	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-01S	9/15/2023	N	EM13	UMCf	54.7 - 64.7	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-01S	12/13/2023	N	EM16	UMCf	54.7 - 64.7	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-01S	3/13/2024	N	EM19	UMCf	54.7 - 64.7	<0.161	1.51 J	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-01S	6/18/2024	N	EM20	UMCf	54.7 - 64.7	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-02D	4/14/2022	N	BL02	UMCf	95.0 - 110.0	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-02D	10/11/2022	N	EM02	UMCf	95.0 - 110.0	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-02D	11/1/2022	N	EM03	UMCf	95.0 - 110.0	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565	<4.71	<5.90	<6.40
U4-MW-02D	12/7/2022	N	EM04	UMCf	95.0 - 110.0	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-02D	1/10/2023	N	EM05	UMCf	95.0 - 110.0	<0.161	<1.19	<0.106	<0.787	<0.114	0.872 J	<1,130	<0.0941	<0.118	<0.128
U4-MW-02D	2/13/2023	N	EM06	UMCf	95.0 - 110.0	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<9.41	<0.118	<0.128
U4-MW-02D	3/17/2023	N	EM07	UMCf	95.0 - 110.0	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130	<9.41	<11.8	<12.8
U4-MW-02D	4/19/2023	N	EM08	UMCf	95.0 - 110.0	<0.805	<5.95	<0.530	<3.94	<0.570	<2.39	<56.5	<0.471	<0.590	<0.640
U4-MW-02D	5/9/2023	N	EM09	UMCf	95.0 - 110.0	<0.805	<5.95	<0.530	<3.94	<0.570	<2.39	<56.5	<0.471	<0.590	<0.640
U4-MW-02D	6/13/2023	N	EM10	UMCf	95.0 - 110.0	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-02D	7/18/2023	N	EM11	UMCf	95.0 - 110.0	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-02D	8/14/2023	N	EM12	UMCf	95.0 - 110.0	<40.3	<298	<26.5	<197	<28.5	<120	<2,820	<23.5	<29.5	<32.0
U4-MW-02D	9/11/2023	N	EM13	UMCf	95.0 - 110.0	<0.161	5.69 J	<0.106	0.860 J	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-02D	10/19/2023	N	EM14	UMCf	95.0 - 110.0	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-02D	11/15/2023	N	EM15	UMCf	95.0 - 110.0	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130	<9.41	<11.8	<12.8
U4-MW-02D	12/14/2023	N	EM16	UMCf	95.0 - 110.0	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130	<9.41	<11.8	<12.8
U4-MW-02D	1/25/2024	N	EM17	UMCf	95.0 - 110.0	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-02D	2/12/2024	N	EM18	UMCf	95.0 - 110.0	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-02D	3/13/2024	N	EM19	UMCf	95.0 - 110.0	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-02D	6/17/2024	N	EM20	UMCf	95.0 - 110.0	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-02I	4/14/2022	N	BL02	UMCf	75.0 - 90.0	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128

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
						2,2-Dichloropropane	2-Butanone (MEK)	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-Pentanone	Acetone	Benzene	Bromobenzene	Bromochloromethane
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-02I	10/11/2022	N	EM02	UMCf	75.0 - 90.0	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	11.9 J	<0.0941	<0.118	<0.128
U4-MW-02I	11/2/2022	N	EM03	UMCf	75.0 - 90.0	<1.61	<11.9	<1.06	<7.87	<1.14	<4.78	<113	<0.941	<1.18	<1.28
U4-MW-02I	11/2/2022	FD	EM03	UMCf	75.0 - 90.0	<1.61	<11.9	<1.06	<7.87	<1.14	<4.78	<113	<0.941	<1.18	<1.28
U4-MW-02I	12/8/2022	N	EM04	UMCf	75.0 - 90.0	<0.161	<1.19 UJ	<0.106	<0.787	<0.114	<0.478	32.3 J	<0.0941	<0.118	<0.128
U4-MW-02I	12/8/2022	FD	EM04	UMCf	75.0 - 90.0	<0.161	34.2 J	<0.106	<0.787	<0.114	<0.478	61.2	<0.0941	<0.118	<0.128
U4-MW-02I	1/13/2023	N	EM05	UMCf	75.0 - 90.0	<1.61	<11.9	<1.06	<7.87	<1.14	<4.78	176 J	<0.941	<1.18	<1.28
U4-MW-02I	1/13/2023	FD	EM05	UMCf	75.0 - 90.0	<1.61	<11.9	<1.06	<7.87	<1.14	<4.78	190 J	<0.941	<1.18	<1.28
U4-MW-02I	2/15/2023	N	EM06	UMCf	75.0 - 90.0	<1.61	<11.9	<1.06	<7.87	<1.14	<4.78	<113	<0.941	<1.18	<1.28
U4-MW-02I	2/15/2023	FD	EM06	UMCf	75.0 - 90.0	<1.61	<11.9	<1.06	<7.87	<1.14	<4.78	<113	<0.941	<1.18	<1.28
U4-MW-02I	3/17/2023	N	EM07	UMCf	75.0 - 90.0	<32.2	<238	<21.2	<157	<22.8	<95.6	<2,260	<18.8	<23.6	<25.6
U4-MW-02I	3/17/2023	FD	EM07	UMCf	75.0 - 90.0	<32.2	<238	<21.2	<157	<22.8	<95.6	<2,260	<18.8	<23.6	<25.6
U4-MW-02I	4/20/2023	N	EM08	UMCf	75.0 - 90.0	<0.161	26.0	<0.106	<0.787	<0.114	<0.478	39.3 J	<0.0941	<0.118	<0.128
U4-MW-02I	4/20/2023	FD	EM08	UMCf	75.0 - 90.0	<0.161	28.7	<0.106	<0.787	<0.114	<0.478	46.3 J	<0.0941	<0.118	<0.128
U4-MW-02I	5/9/2023	N	EM09	UMCf	75.0 - 90.0	<0.161	21.7 J+	<0.106	<0.787	<0.114	<0.478	46.0 J	<0.0941	<0.118	<0.128
U4-MW-02I	5/9/2023	FD	EM09	UMCf	75.0 - 90.0	<0.161	19.6 J+	<0.106	<0.787	<0.114	<0.478	47.8 J	<0.0941	<0.118	<0.128
U4-MW-02I	6/12/2023	N	EM10	UMCf	75.0 - 90.0	<0.161	6.47 J	<0.106	<0.787 UJ	<0.114	<0.478	49.2 J	<0.0941	<0.118	<0.128
U4-MW-02I	6/12/2023	FD	EM10	UMCf	75.0 - 90.0	<0.161	7.53 J	<0.106	<0.787 UJ	<0.114	<0.478	48.9 J	<0.0941	<0.118	<0.128
U4-MW-02I	7/18/2023	N	EM11	UMCf	75.0 - 90.0	<0.161	24.0	<0.106	<0.787	<0.114	<0.478	32.7 J	<0.0941	<0.118	<0.128
U4-MW-02I	7/18/2023	FD	EM11	UMCf	75.0 - 90.0	<0.161	26.0	<0.106	<0.787	<0.114	<0.478	35.3 J	<0.0941	<0.118	<0.128
U4-MW-02I	8/11/2023	N	EM12	UMCf	75.0 - 90.0	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-02I	8/11/2023	FD	EM12	UMCf	75.0 - 90.0	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-02I	9/11/2023	N	EM13	UMCf	75.0 - 90.0	<0.161	60.9 J	<0.106	1.26 J	<0.114	0.779 J	437 J	<0.0941	<0.118	<0.128
U4-MW-02I	9/11/2023	FD	EM13	UMCf	75.0 - 90.0	<0.161	36.0 J	<0.106	<0.787	<0.114	<0.478	274 J	<0.0941	<0.118	<0.128
U4-MW-02I	10/19/2023	N	EM14	UMCf	75.0 - 90.0	<0.161 UJ	4.80 J	<0.106 UJ	<0.787 UJ	<0.114 UJ	<0.478 UJ	39.4 J	<0.0941 UJ	<0.118 UJ	<0.128 UJ
U4-MW-02I	10/19/2023	FD	EM14	UMCf	75.0 - 90.0	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	76.5 J	<0.0941	<0.118	<0.128
U4-MW-02I	11/15/2023	N	EM15	UMCf	75.0 - 90.0	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565	<4.71	<5.90	<6.40
U4-MW-02I	11/15/2023	FD	EM15	UMCf	75.0 - 90.0	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565	<4.71	<5.90	<6.40
U4-MW-02I	12/14/2023	N	EM16	UMCf	75.0 - 90.0	<8.05	200 J	<5.30	<39.4	<5.70	<23.9	<565	<4.71	<5.90	<6.40
U4-MW-02I	12/14/2023	FD	EM16	UMCf	75.0 - 90.0	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565	<4.71	<5.90	<6.40
U4-MW-02I	1/25/2024	N	EM17	UMCf	75.0 - 90.0	<0.161	38.1	<0.106	<0.787	<0.114	<0.478	469 J	<0.0941	<0.118	<0.128
U4-MW-02I	1/25/2024	FD	EM17	UMCf	75.0 - 90.0	<0.161	39.7	<0.106	<0.787	<0.114	<0.478	506 J	<0.0941	<0.118	<0.128
U4-MW-02I	2/12/2024	N	EM18	UMCf	75.0 - 90.0	<0.161	39.0	<0.106	<0.787	<0.114	<0.478	291	<0.0941	<0.118	<0.128
U4-MW-02I	2/12/2024	FD	EM18	UMCf	75.0 - 90.0	<0.161	41.6	<0.106	<0.787	<0.114	<0.478	311	<0.0941	<0.118	<0.128
U4-MW-02I	3/13/2024	N	EM19	UMCf	75.0 - 90.0	<0.161	38.6	<0.106	<0.787	<0.114	<0.478	263	<0.0941	<0.118	<0.128
U4-MW-02I	3/13/2024	FD	EM19	UMCf	75.0 - 90.0	<0.161	44.7	<0.106	<0.787	<0.114	<0.478	297	<0.0941	<0.118	<0.128
U4-MW-02I	6/17/2024	N	EM20	UMCf	75.0 - 90.0	<8.05	676 J+	<5.30	<39.4	<5.70	<23.9	4,440 J+	<4.71	<5.90	<6.40
U4-MW-02I	6/17/2024	FD	EM20	UMCf	75.0 - 90.0	<8.05	605 J+	<5.30	<39.4	<5.70	<23.9	4,130 J+	<4.71	<5.90	<6.40
U4-MW-03D	4/20/2022	N	BL02	UMCf	96.6 - 106.6	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-03D	2/16/2023	N	EM06	UMCf	96.6 - 106.6	<0.805	<5.95	<0.530	<3.94	<0.570	<2.39	<56.5	<4.71	<0.590	<0.640
U4-MW-03D	3/16/2023	N	EM07	UMCf	96.6 - 106.6	<3.22	<23.8	<2.12	<15.7	<2.28	<9.56	<226	4.74 J	<2.36	<2.56
U4-MW-03D	3/16/2023	FD	EM07	UMCf	96.6 - 106.6	<0.805	<5.95	<0.530	<3.94	<0.570	<2.39	<56.5	<2.35 UJ	<0.590	<0.640
U4-MW-03D	6/15/2023	N	EM10	UMCf	96.6 - 106.6	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-03D	9/14/2023	N	EM13	UMCf	96.6 - 106.6	<0.161	1.43 J	<0.106	<0.787	<0.114	<0.478	13.4 J	<0.0941	<0.118	<0.128

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
						2,2-Dichloropropane	2-Butanone (MEK)	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-Pentanone	Acetone	Benzene	Bromobenzene	Bromochloromethane
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-03D	12/13/2023	N	EM16	UMCf	96.6 - 106.6	<0.161	97.4	<0.106	<0.787	<0.114	<0.478	236 J	<0.0941	<0.118	<0.128
U4-MW-03D	3/15/2024	N	EM19	UMCf	96.6 - 106.6	<0.161	46.8	<0.106	<0.787	<0.114	<0.478	263	<0.0941	<0.118	<0.128
U4-MW-03D	6/17/2024	N	EM20	UMCf	96.6 - 106.6	<8.05	101 J	<5.30	<39.4	<5.70	<23.9	593 J	<4.71	<5.90	<6.40
U4-MW-03DD	4/20/2022	N	BL02	UMCf	119.7 - 129.7	<0.161	3.03 J	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-03DD	3/15/2023	N	EM07	UMCf	119.7 - 129.7	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-03DD	6/15/2023	N	EM10	UMCf	119.7 - 129.7	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-03DD	9/14/2023	N	EM13	UMCf	119.7 - 129.7	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-03DD	12/14/2023	N	EM16	UMCf	119.7 - 129.7	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-03DD	3/14/2024	N	EM19	UMCf	119.7 - 129.7	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-03DD	6/17/2024	N	EM20	UMCf	119.7 - 129.7	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-03I	4/19/2022	N	BL02	UMCf	76.6 - 86.6	<0.161	17.3	<0.106	1.71 J	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-03I	3/15/2023	N	EM07	UMCf	76.6 - 86.6	<0.161	9.75 J	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-03I	6/14/2023	N	EM10	UMCf	76.6 - 86.6	<3.22	<23.8	<2.12	<15.7	<2.28	<9.56	<226	<1.88	<2.36	<2.56
U4-MW-03I	6/14/2023	FD	EM10	UMCf	76.6 - 86.6	<4.03	<29.8	<2.65	<19.7	<2.85	<12.0	<282	<2.35	<2.95	<3.20
U4-MW-03I	9/11/2023	N	EM13	UMCf	76.6 - 86.6	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-03I	9/11/2023	FD	EM13	UMCf	76.6 - 86.6	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-03I	12/13/2023	N	EM16	UMCf	76.6 - 86.6	<0.161	16.8	<0.106	<0.787	<0.114	<0.478	63.3	<0.0941	<0.118	<0.128
U4-MW-03I	12/13/2023	FD	EM16	UMCf	76.6 - 86.6	<0.161	15.4	<0.106	<0.787	<0.114	<0.478	59.2	<0.0941	<0.118	<0.128
U4-MW-03I	3/14/2024	N	EM19	UMCf	76.6 - 86.6	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565	<4.71	<5.90	<6.40
U4-MW-03I	3/14/2024	FD	EM19	UMCf	76.6 - 86.6	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565	<4.71	<5.90	<6.40
U4-MW-03I	6/19/2024	N	EM20	UMCf	76.6 - 86.6	<8.05	137 J	<5.30	<39.4	<5.70	<23.9	680 J	<4.71	<5.90	<6.40
U4-MW-03I	6/19/2024	FD	EM20	UMCf	76.6 - 86.6	<8.05	147 J	<5.30	<39.4	<5.70	<23.9	728 J	<4.71	<5.90	<6.40
U4-MW-03S	4/18/2022	N	BL02	UMCf	54.5 - 64.5	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118 UJ	<0.128
U4-MW-03S	4/18/2022	FD	BL02	UMCf	54.5 - 64.5	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118 UJ	<0.128
U4-MW-03S	3/15/2023	N	EM07	UMCf	54.5 - 64.5	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-03S	6/15/2023	N	EM10	UMCf	54.5 - 64.5	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-03S	9/14/2023	N	EM13	UMCf	54.5 - 64.5	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-03S	12/13/2023	N	EM16	UMCf	54.5 - 64.5	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-03S	3/14/2024	N	EM19	UMCf	54.5 - 64.5	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-03S	6/14/2024	N	EM20	UMCf	54.5 - 64.5	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-04D	4/19/2022	N	BL02	UMCf	97.0 - 107.0	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-04D	2/16/2023	N	EM06	UMCf	97.0 - 107.0	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565	<4.71	<5.90	<6.40
U4-MW-04D	3/21/2023	N	EM07	UMCf	97.0 - 107.0	<0.161	2.95 J	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-04D	6/14/2023	N	EM10	UMCf	97.0 - 107.0	<0.161	20.6	<0.106	<0.787	<0.114	<0.478	86.7 J+	<0.0941	<0.118	<0.128
U4-MW-04D	9/15/2023	N	EM13	UMCf	97.0 - 107.0	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	21.3 J	<0.0941	<0.118	<0.128
U4-MW-04D	12/12/2023	N	EM16	UMCf	97.0 - 107.0	<0.161	54.9 J	<0.106	<0.787	<0.114	<0.478	291 J+	<0.0941	<0.118	<0.128
U4-MW-04D	3/12/2024	N	EM19	UMCf	97.0 - 107.0	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565	<4.71	<5.90	<6.40
U4-MW-04D	6/19/2024	N	EM20	UMCf	97.0 - 107.0	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565	<4.71	<5.90	<6.40
U4-MW-04I	4/19/2022	N	BL02	UMCf	76.8 - 86.8	<0.161	2.71 J	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-04I	3/20/2023	N	EM07	UMCf	76.8 - 86.8	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-04I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<0.805	23.3 J	<0.530	<3.94	<0.570	<2.39	87.0 J	<0.471	<0.590	<0.640
U4-MW-04I	9/14/2023	N	EM13	UMCf	76.8 - 86.8	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-04I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	<0.161	39.6 J	<0.106	<0.787	<0.114	<0.478	272 J+	<0.0941	<0.118	<0.128

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
						2,2-Dichloropropane	2-Butanone (MEK)	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-Pentanone	Acetone	Benzene	Bromobenzene	Bromochloromethane
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-04I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	<32.2	<238	<21.2	<157	<22.8	<95.6	<2,260	<18.8	<23.6	<25.6
U4-MW-04I	6/18/2024	N	EM20	UMCf	76.8 - 86.8	<0.805	<5.95	<0.530	<3.94	<0.570	<2.39	<56.5	<0.471	<0.590	<0.640
U4-MW-05D	4/15/2022	N	BL02	UMCf	98.2 - 108.2	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-05D	10/13/2022	N	EM02	UMCf	98.2 - 108.2	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130	<9.41	<11.8	<12.8
U4-MW-05D	11/3/2022	N	EM03	UMCf	98.2 - 108.2	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-05D	12/7/2022	N	EM04	UMCf	98.2 - 108.2	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-05D	1/11/2023	N	EM05	UMCf	98.2 - 108.2	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	16.9 J	<0.0941	<0.118	<0.128
U4-MW-05D	2/14/2023	N	EM06	UMCf	98.2 - 108.2	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130	<9.41	<11.8	<12.8
U4-MW-05D	3/16/2023	N	EM07	UMCf	98.2 - 108.2	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130	<9.41	<11.8	<12.8
U4-MW-05D	4/20/2023	N	EM08	UMCf	98.2 - 108.2	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-05D	5/10/2023	N	EM09	UMCf	98.2 - 108.2	<0.161	35.3	<0.106	<0.787	<0.114	<0.478	80.9	<0.0941	<0.118	<0.128
U4-MW-05D	6/15/2023	N	EM10	UMCf	98.2 - 108.2	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	103	<0.0941	<0.118	<0.128
U4-MW-05D	7/18/2023	N	EM11	UMCf	98.2 - 108.2	<0.161	1.80 J	<0.106	<0.787	<0.114	<0.478	50.4	<0.0941	<0.118	<0.128
U4-MW-05D	8/14/2023	N	EM12	UMCf	98.2 - 108.2	<4.03	30.9 J	<2.65	<19.7	<2.85	<12.0	311 J	<2.35	<2.95	<3.20
U4-MW-05D	9/12/2023	N	EM13	UMCf	98.2 - 108.2	<4.03	<29.8	<2.65	<19.7	<2.85	<12.0	<282	<2.35	<2.95	<3.20
U4-MW-05D	10/18/2023	N	EM14	UMCf	98.2 - 108.2	<4.03	<29.8	<2.65	<19.7	<2.85	<12.0	<282	<2.35	<2.95	<3.20
U4-MW-05D	11/16/2023	N	EM15	UMCf	98.2 - 108.2	<4.03	<29.8	<2.65	<19.7	<2.85	<12.0	<282	<2.35	<2.95	<3.20
U4-MW-05D	12/14/2023	N	EM16	UMCf	98.2 - 108.2	<4.03	<29.8	<2.65	<19.7	<2.85	<12.0	<282	<2.35	<2.95	<3.20
U4-MW-05D	1/26/2024	N	EM17	UMCf	98.2 - 108.2	<0.161	97.6	<0.106	<0.787	<0.114	2.18 J	587	<0.0941	<0.118	<0.128
U4-MW-05D	2/14/2024	N	EM18	UMCf	98.2 - 108.2	<0.161	<1.19	<0.106	<0.787	<0.114	4.70	1,480	<0.0941	<0.118	<0.128
U4-MW-05D	3/12/2024	N	EM19	UMCf	98.2 - 108.2	<4.03	203 J	<2.65	<19.7	<2.85	<12.0	1,110 J	<2.35	<2.95	<3.20
U4-MW-05D	6/18/2024	N	EM20	UMCf	98.2 - 108.2	<0.161	132	<0.106	<0.787	<0.114	1.77 J	912 J+	<0.0941	<0.118	<0.128
U4-MW-05I	4/15/2022	N	BL02	UMCf	76.6 - 86.6	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-05I	10/13/2022	N	EM02	UMCf	76.6 - 86.6	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130	<9.41	<11.8	<12.8
U4-MW-05I	11/3/2022	N	EM03	UMCf	76.6 - 86.6	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-05I	12/8/2022	N	EM04	UMCf	76.6 - 86.6	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-05I	1/11/2023	N	EM05	UMCf	76.6 - 86.6	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-05I	2/14/2023	N	EM06	UMCf	76.6 - 86.6	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130	<9.41	<11.8	<12.8
U4-MW-05I	3/14/2023	N	EM07	UMCf	76.6 - 86.6	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130	<9.41	<11.8	<12.8
U4-MW-05I	4/21/2023	N	EM08	UMCf	76.6 - 86.6	<0.161	14.3	<0.106	<0.787	<0.114	<0.478	23.4 J	<0.0941	<0.118	<0.128
U4-MW-05I	5/10/2023	N	EM09	UMCf	76.6 - 86.6	<0.161	89.2	<0.106	<0.787	<0.114	<0.478	44.0 J	<0.0941	<0.118	<0.128
U4-MW-05I	6/15/2023	N	EM10	UMCf	76.6 - 86.6	<0.161	78.9	<0.106	<0.787	<0.114	<0.478	76.6	<0.0941	<0.118	<0.128
U4-MW-05I	7/17/2023	N	EM11	UMCf	76.6 - 86.6	<0.161	212	<0.106	<0.787	<0.114	<0.478	51.1	<0.0941	<0.118	<0.128
U4-MW-05I	8/14/2023	N	EM12	UMCf	76.6 - 86.6	<8.05	92.4 J	<5.30	<39.4	<5.70	<23.9	<565	<4.71	<5.90	<6.40
U4-MW-05I	9/13/2023	N	EM13	UMCf	76.6 - 86.6	<0.161	42.3	<0.106	4.26 J	<0.114	<0.478	103	<0.0941	<0.118	<0.128
U4-MW-05I	10/18/2023	N	EM14	UMCf	76.6 - 86.6	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565	<4.71	<5.90	<6.40
U4-MW-05I	11/15/2023	N	EM15	UMCf	76.6 - 86.6	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565	<4.71	<5.90	<6.40
U4-MW-05I	12/12/2023	N	EM16	UMCf	76.6 - 86.6	<0.161	66.7 J	<0.106	<0.787	<0.114	<0.478	469 J+	<0.0941	<0.118	<0.128
U4-MW-05I	1/26/2024	N	EM17	UMCf	76.6 - 86.6	<0.161	332	<0.106	4.06 J	<0.114	2.47 J	2,320	<0.0941	<0.118	<0.128
U4-MW-05I	2/14/2024	N	EM18	UMCf	76.6 - 86.6	<0.161	317	<0.106	5.18	<0.114	3.17	1,770	<0.0941	<0.118	<0.128
U4-MW-05I	3/11/2024	N	EM19	UMCf	76.6 - 86.6	<0.161	202	<0.106	2.53 J	<0.114	2.85 J	1,030 J	<0.0941	<0.118	0.132 J
U4-MW-05I	6/18/2024	N	EM20	UMCf	76.6 - 86.6	<0.161	70.1	<0.106	6.12 J	<0.114	1.53 J	275	<0.0941	<0.118	<0.128
U4-MW-06D	4/19/2022	N	BL02	UMCf	97.1 - 107.1	<0.161	4.05 J	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128

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
						2,2-Dichloropropane	2-Butanone (MEK)	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-Pentanone	Acetone	Benzene	Bromobenzene	Bromochloromethane
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-06D	2/15/2023	N	EM06	UMCf	97.1 - 107.1	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565	<4.71	<5.90	<6.40
U4-MW-06D	3/21/2023	N	EM07	UMCf	97.1 - 107.1	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-06D	6/16/2023	N	EM10	UMCf	97.1 - 107.1	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-06D	9/13/2023	N	EM13	UMCf	97.1 - 107.1	<0.161	55.5	<0.106	<0.787 UJ	<0.114	<0.478	200	<0.0941	<0.118	<0.128
U4-MW-06D	12/13/2023	N	EM16	UMCf	97.1 - 107.1	<0.161	52.9	<0.106	<0.787	<0.114	<0.478	231 J	<0.0941	<0.118	<0.128
U4-MW-06D	3/14/2024	N	EM19	UMCf	97.1 - 107.1	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565	<4.71	<5.90	<6.40
U4-MW-06D	6/12/2024	N	EM20	UMCf	97.1 - 107.1	<0.161	208	<0.106	<0.787	<0.114	<0.478	1,610	<0.0941	<0.118	<0.128
U4-MW-06I	4/19/2022	N	BL02	UMCf	76.5 - 86.5	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	0.128 J	<0.118	<0.128
U4-MW-06I	3/14/2023	N	EM07	UMCf	76.5 - 86.5	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-06I	6/16/2023	N	EM10	UMCf	76.5 - 86.5	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-06I	9/12/2023	N	EM13	UMCf	76.5 - 86.5	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565	<4.71	<5.90	<6.40
U4-MW-06I	12/12/2023	N	EM16	UMCf	76.5 - 86.5	<0.161	29.3 J	<0.106	<0.787	<0.114	<0.478	268 J+	<0.0941	<0.118	<0.128
U4-MW-06I	3/14/2024	N	EM19	UMCf	76.5 - 86.5	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130	<9.41	<11.8	<12.8
U4-MW-06I	6/11/2024	N	EM20	UMCf	76.5 - 86.5	<0.161	191	<0.106	1.66 J	<0.114	1.14 J	2,020	<0.0941	<0.118	<0.128
U4-MW-07D	4/15/2022	N	BL02	UMCf	96.8 - 106.5	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-07D	10/12/2022	N	EM02	UMCf	96.8 - 106.5	<0.161	1.20 J	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-07D	10/12/2022	FD	EM02	UMCf	96.8 - 106.5	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-07D	11/3/2022	N	EM03	UMCf	96.8 - 106.5	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-07D	12/7/2022	N	EM04	UMCf	96.8 - 106.5	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-07D	1/11/2023	N	EM05	UMCf	96.8 - 106.5	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-07D	2/14/2023	N	EM06	UMCf	96.8 - 106.5	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-07D	3/16/2023	N	EM07	UMCf	96.8 - 106.5	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-07D	4/21/2023	N	EM08	UMCf	96.8 - 106.5	<0.161	18.5	<0.106	<0.787	<0.114	<0.478	23.4 J	<0.0941	<0.118	<0.128
U4-MW-07D	5/11/2023	N	EM09	UMCf	96.8 - 106.5	<0.161	142	<0.106	<0.787	<0.114	<0.478	314	<0.0941	<0.118	0.361 J
U4-MW-07D	6/13/2023	N	EM10	UMCf	96.8 - 106.5	<0.161 UJ	85.0 J	<0.106 UJ	<0.787 UJ	<0.114 UJ	<0.478 UJ	176 J	<0.0941 UJ	<0.118 UJ	<0.128 UJ
U4-MW-07D	7/17/2023	N	EM11	UMCf	96.8 - 106.5	<0.161	16.0	<0.106	<0.787	<0.114	<0.478	77.4	<0.0941	<0.118	<0.128
U4-MW-07D	8/11/2023	N	EM12	UMCf	96.8 - 106.5	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	203	<0.0941	<0.118	<0.128
U4-MW-07D	9/13/2023	N	EM13	UMCf	96.8 - 106.5	<0.161	125	<0.106	<0.787 UJ	<0.114	<0.478	970	<0.0941	<0.118	<0.128
U4-MW-07D	10/18/2023	N	EM14	UMCf	96.8 - 106.5	<16.1	161 J	<10.6	<78.7	<11.4	<47.8	1,170 J	<9.41	<11.8	<12.8
U4-MW-07D	11/16/2023	N	EM15	UMCf	96.8 - 106.5	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130	<9.41	<11.8	<12.8
U4-MW-07D	12/12/2023	N	EM16	UMCf	96.8 - 106.5	<0.161	74.5 J	<0.106	<0.787	<0.114	<0.478	491 J+	<0.0941	<0.118	<0.128
U4-MW-07D	1/26/2024	N	EM17	UMCf	96.8 - 106.5	<0.161	56.9	<0.106	<0.787	<0.114	<0.478	389	<0.0941	<0.118	<0.128
U4-MW-07D	2/13/2024	N	EM18	UMCf	96.8 - 106.5	<4.03	<29.8	<2.65	<19.7	<2.85	<12.0	<282	<2.35	<2.95	<3.20
U4-MW-07D	3/11/2024	N	EM19	UMCf	96.8 - 106.5	<4.03	66.2 J	<2.65	<19.7	<2.85	<12.0	<282	<2.35	<2.95	<3.20
U4-MW-07D	6/12/2024	N	EM20	UMCf	96.8 - 106.5	<0.161	331	<0.106	<0.787	<0.114	<0.478	228	<0.0941	<0.118	<0.128
U4-MW-07I	4/15/2022	N	BL02	UMCf	76.8 - 86.8	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-07I	10/12/2022	N	EM02	UMCf	76.8 - 86.8	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-07I	11/3/2022	N	EM03	UMCf	76.8 - 86.8	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-07I	12/7/2022	N	EM04	UMCf	76.8 - 86.8	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-07I	1/11/2023	N	EM05	UMCf	76.8 - 86.8	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-07I	2/15/2023	N	EM06	UMCf	76.8 - 86.8	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-07I	3/16/2023	N	EM07	UMCf	76.8 - 86.8	<0.805	<5.95	<0.530	<3.94	<0.570	<2.39	<56.5	<0.471	<0.590	<0.640
U4-MW-07I	4/21/2023	N	EM08	UMCf	76.8 - 86.8	<0.161	17.3	<0.106	<0.787	<0.114	<0.478	62.0	<0.0941	<0.118	<0.128

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
						2,2-Dichloropropane	2-Butanone (MEK)	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-Pentanone	Acetone	Benzene	Bromobenzene	Bromochloromethane
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-07I	5/11/2023	N	EM09	UMCf	76.8 - 86.8	<0.161	5.24 J	<0.106	<0.787	<0.114	<0.478	12.2 J	<0.0941	<0.118	<0.128
U4-MW-07I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<0.805	14.9 J	<0.530	<3.94	<0.570	<2.39	<56.5	<0.471	<0.590	<0.640
U4-MW-07I	7/17/2023	N	EM11	UMCf	76.8 - 86.8	<0.161	14.7	<0.106	<0.787	<0.114	<0.478	15.2 J	<0.0941	<0.118	<0.128
U4-MW-07I	8/11/2023	N	EM12	UMCf	76.8 - 86.8	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	201	<0.0941	<0.118	<0.128
U4-MW-07I	9/13/2023	N	EM13	UMCf	76.8 - 86.8	<0.161	117	<0.106	3.53 J	<0.114	<0.478	780	<0.0941	<0.118	<0.128
U4-MW-07I	10/18/2023	N	EM14	UMCf	76.8 - 86.8	<8.05	150 J	<5.30	<39.4	<5.70	<23.9	894 J	<4.71	<5.90	<6.40
U4-MW-07I	11/16/2023	N	EM15	UMCf	76.8 - 86.8	<8.05	135 J	<5.30	<39.4	<5.70	<23.9	705 J	<4.71	<5.90	<6.40
U4-MW-07I	12/11/2023	N	EM16	UMCf	76.8 - 86.8	<0.161	68.0	<0.106	<0.787 UJ	<0.114	<0.478	521	<0.0941	<0.118	<0.128
U4-MW-07I	1/26/2024	N	EM17	UMCf	76.8 - 86.8	<0.161	56.2	<0.106	<0.787	<0.114	<0.478	443	<0.0941	<0.118	<0.128
U4-MW-07I	2/13/2024	N	EM18	UMCf	76.8 - 86.8	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565	<4.71	<5.90	<6.40
U4-MW-07I	3/11/2024	N	EM19	UMCf	76.8 - 86.8	<8.05	227 J	<5.30	<39.4	<5.70	<23.9	1,020 J	<4.71	<5.90	<6.40
U4-MW-07I	6/12/2024	N	EM20	UMCf	76.8 - 86.8	<0.161	444	<0.106	3.78 J	<0.114	3.54 J	483	<0.0941	<0.118	<0.128
U4-MW-08D	4/13/2022	N	BL02	UMCf	98.6 - 108.6	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-08D	12/7/2022	N	EM04	UMCf	98.6 - 108.6	<0.161	11.7 J+	<0.106	<0.787	<0.114	<0.478	39.5 J	<0.0941	<0.118	<0.128
U4-MW-08D	3/17/2023	N	EM07	UMCf	98.6 - 108.6	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130	<9.41	<11.8	<12.8
U4-MW-08D	6/13/2023	N	EM10	UMCf	98.6 - 108.6	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-08D	9/13/2023	N	EM13	UMCf	98.6 - 108.6	<0.161	<1.19	<0.106	<0.787 UJ	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-08D	12/11/2023	N	EM16	UMCf	98.6 - 108.6	<0.161	<1.19	<0.106	<0.787 UJ	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-08D	3/12/2024	N	EM19	UMCf	98.6 - 108.6	<32.2	<238	<21.2	<157	<22.8	<95.6	<2,260	<18.8	<23.6	<25.6
U4-MW-08D	6/14/2024	N	EM20	UMCf	98.6 - 108.6	<32.2	<238	<21.2	<157	<22.8	<95.6	<2,260	<18.8	<23.6	<25.6
U4-MW-08DD	4/20/2022	N	BL02	UMCf	119.8 - 129.8	<0.161	18.7 J	<0.106	3.03 J	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-08DD	4/20/2022	FD	BL02	UMCf	119.8 - 129.8	<0.161	5.79 J	<0.106	1.23 J	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-08DD	12/8/2022	N	EM04	UMCf	119.8 - 129.8	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	0.870 J	<0.118	<0.128
U4-MW-08DD	3/15/2023	N	EM07	UMCf	119.8 - 129.8	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-08DD	6/14/2023	N	EM10	UMCf	119.8 - 129.8	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-08DD	9/14/2023	N	EM13	UMCf	119.8 - 129.8	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-08DD	12/14/2023	N	EM16	UMCf	119.8 - 129.8	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-08DD	3/14/2024	N	EM19	UMCf	119.8 - 129.8	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-08DD	6/12/2024	N	EM20	UMCf	119.8 - 129.8	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-08I	4/13/2022	N	BL02	UMCf	78.0 - 88.0	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-08I	12/7/2022	N	EM04	UMCf	78.0 - 88.0	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-08I	12/7/2022	FD	EM04	UMCf	78.0 - 88.0	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-08I	3/17/2023	N	EM07	UMCf	78.0 - 88.0	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565	<4.71	<5.90	<6.40
U4-MW-08I	6/13/2023	N	EM10	UMCf	78.0 - 88.0	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-08I	9/13/2023	N	EM13	UMCf	78.0 - 88.0	<0.161	<1.19	<0.106	<0.787 UJ	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-08I	12/11/2023	N	EM16	UMCf	78.0 - 88.0	<0.161	<1.19	<0.106	<0.787 UJ	<0.114	<0.478	18.2 J	<0.0941	<0.118	<0.128
U4-MW-08I	3/12/2024	N	EM19	UMCf	78.0 - 88.0	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130	<9.41	<11.8	<12.8
U4-MW-08I	6/14/2024	N	EM20	UMCf	78.0 - 88.0	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130	<9.41	<11.8	<12.8
U4-MW-08S	4/15/2022	N	BL02	UMCf	54.9 - 64.9	<0.161	1.31 J	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-08S	12/7/2022	N	EM04	UMCf	54.9 - 64.9	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-08S	12/7/2022	FD	EM04	UMCf	54.9 - 64.9	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-08S	3/13/2023	N	EM07	UMCf	54.9 - 64.9	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-08S	3/13/2023	FD	EM07	UMCf	54.9 - 64.9	<0.161	2.44 J	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128

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
						2,2-Dichloropropane	2-Butanone (MEK)	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-Pentanone	Acetone	Benzene	Bromobenzene	Bromochloromethane
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-08S	6/13/2023	N	EM10	UMCf	54.9 - 64.9	<0.161	17.6	<0.106	<0.787	<0.114	<0.478	23.2 J	<0.0941	<0.118	<0.128
U4-MW-08S	6/13/2023	FD	EM10	UMCf	54.9 - 64.9	<0.161	16.5	<0.106	<0.787	<0.114	<0.478	21.4 J	<0.0941	<0.118	<0.128
U4-MW-08S	9/13/2023	N	EM13	UMCf	54.9 - 64.9	<0.161	13.7	<0.106	<0.787 UJ	<0.114	<0.478	16.4 J	<0.0941	<0.118	<0.128
U4-MW-08S	9/13/2023	FD	EM13	UMCf	54.9 - 64.9	<0.161	14.3	<0.106	<0.787 UJ	<0.114	<0.478	16.6 J	<0.0941	<0.118	<0.128
U4-MW-08S	12/14/2023	N	EM16	UMCf	54.9 - 64.9	<0.161	44.6	<0.106	<0.787	<0.114	<0.478	31.2 J	<0.0941	<0.118	<0.128
U4-MW-08S	12/14/2023	FD	EM16	UMCf	54.9 - 64.9	<0.161	44.7	<0.106	<0.787	<0.114	<0.478	32.0 J	<0.0941	<0.118	<0.128
U4-MW-08S	3/14/2024	N	EM19	UMCf	54.9 - 64.9	<0.322 UJ	5.96 J	<0.212 UJ	<1.57 UJ	<0.228 UJ	<0.956 UJ	<22.6 UJ	<0.188 UJ	<0.236 UJ	<0.256 UJ
U4-MW-08S	3/14/2024	FD	EM19	UMCf	54.9 - 64.9	<0.322 UJ	6.75 J	<0.212 UJ	<1.57 UJ	<0.228 UJ	<0.956 UJ	<22.6 UJ	<0.188 UJ	<0.236 UJ	<0.256 UJ
U4-MW-08S	3/25/2024	N	EM19	UMCf	54.9 - 64.9	<0.161	32.6 J	<0.106	<0.787	<0.114	<0.478	21.8 J	<0.0941 UJ	<0.118	<0.128
U4-MW-08S	3/25/2024	FD	EM19	UMCf	54.9 - 64.9	<0.161	44.9 J	<0.106	5.01 J	<0.114	<0.478	27.3 J	<0.0941	<0.118	<0.128
U4-MW-08S	6/14/2024	N	EM20	UMCf	54.9 - 64.9	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-08S	6/14/2024	FD	EM20	UMCf	54.9 - 64.9	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-09D	4/14/2022	N	BL02	UMCf	96.9 - 106.9	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-09D	12/6/2022	N	EM04	UMCf	96.9 - 106.9	<1.61 UJ	<11.9 UJ	<1.06 UJ	<7.87 UJ	<1.14 UJ	<4.78 UJ	<113 UJ	<0.941 UJ	<1.18 UJ	<1.28 UJ
U4-MW-09D	3/16/2023	N	EM07	UMCf	96.9 - 106.9	<1.61	38.2 J	<1.06	<7.87	<1.14	<4.78	287 J	<0.941	<1.18	<1.28
U4-MW-09D	6/14/2023	N	EM10	UMCf	96.9 - 106.9	<0.161	39.7	<0.106	<0.787	<0.114	<0.478	126 J+	<0.0941	<0.118	0.224 J
U4-MW-09D	9/12/2023	N	EM13	UMCf	96.9 - 106.9	<0.161	38.2	<0.106	<0.787	<0.114	<0.478	201	<0.0941	<0.118	<0.128
U4-MW-09D	12/15/2023	N	EM16	UMCf	96.9 - 106.9	<4.03 UJ	131 J	<2.65 UJ	<19.7 UJ	<2.85 UJ	<12.0 UJ	640 J	<2.35 UJ	<2.95 UJ	<3.20 UJ
U4-MW-09D	3/13/2024	N	EM19	UMCf	96.9 - 106.9	<0.161	158	<0.106	2.58 J	<0.114	2.32 J	760	<0.0941	<0.118	<0.128
U4-MW-09D	6/13/2024	N	EM20	UMCf	96.9 - 106.9	<0.161	168	<0.106	3.01 J	<0.114	5.56 J	1,310	<0.0941	<0.118	<0.128
U4-MW-09DD	4/14/2022	N	BL02	UMCf	119.8 - 129.8	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-09DD	12/6/2022	N	EM04	UMCf	119.8 - 129.8	<0.161 UJ	<1.19 UJ	<0.106 UJ	<0.787 UJ	<0.114 UJ	<0.478 UJ	<11.3 UJ	<0.0941 UJ	<0.118 UJ	<0.128 UJ
U4-MW-09DD	3/21/2023	N	EM07	UMCf	119.8 - 129.8	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478 UJ	<11.3	<0.0941	<0.118	<0.128
U4-MW-09DD	6/15/2023	N	EM10	UMCf	119.8 - 129.8	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-09DD	9/13/2023	N	EM13	UMCf	119.8 - 129.8	<0.161	6.38 J	<0.106	<0.787 UJ	<0.114	<0.478	12.9 J	<0.0941	<0.118	<0.128
U4-MW-09DD	12/13/2023	N	EM16	UMCf	119.8 - 129.8	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-09DD	3/14/2024	N	EM19	UMCf	119.8 - 129.8	<0.161	44.6	<0.106	2.88 J	<0.114	1.48 J	349	<0.0941	<0.118	<0.128
U4-MW-09DD	6/13/2024	N	EM20	UMCf	119.8 - 129.8	<0.161	3.96 J	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-09I	4/14/2022	N	BL02	UMCf	76.8 - 86.8	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	2.49	<0.118	<0.128
U4-MW-09I	12/6/2022	N	EM04	UMCf	76.8 - 86.8	<1.61 UJ	<11.9 UJ	<1.06 UJ	<7.87 UJ	<1.14 UJ	<4.78 UJ	<113 UJ	<0.941 UJ	<1.18 UJ	<1.28 UJ
U4-MW-09I	3/16/2023	N	EM07	UMCf	76.8 - 86.8	<1.61	17.2 J	<1.06	<7.87	<1.14	<4.78	<113	<0.941	<1.18	<1.28
U4-MW-09I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<0.161	3.02 J	<0.106	<0.787	<0.114	<0.478	22.0 J	<0.941	<0.118	0.185 J
U4-MW-09I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	<0.161	4.54 J	<0.106	<0.787	<0.114	<0.478	32.8 J	<0.0941	<0.118	<0.128
U4-MW-09I	12/15/2023	N	EM16	UMCf	76.8 - 86.8	<4.03 UJ	<29.8 UJ	<2.65 UJ	<19.7 UJ	<2.85 UJ	<12.0 UJ	<282 UJ	<2.35 UJ	<2.95 UJ	<3.20 UJ
U4-MW-09I	3/13/2024	N	EM19	UMCf	76.8 - 86.8	<0.161	79.9	<0.106	1.07 J	<0.114	3.12 J	465	<0.0941	<0.118	<0.128
U4-MW-09I	6/13/2024	N	EM20	UMCf	76.8 - 86.8	<0.161	17.8	<0.106	<0.787	<0.114	2.53 J	72.4	<0.0941	<0.118	<0.128
U4-MW-09S	4/14/2022	N	BL02	UMCf	55.3 - 65.3	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-09S	12/6/2022	N	EM04	UMCf	55.3 - 65.3	<0.161 UJ	<1.19 UJ	<0.106 UJ	<0.787 UJ	<0.114 UJ	<0.478 UJ	<11.3 UJ	<0.0941 UJ	<0.118 UJ	<0.128 UJ
U4-MW-09S	3/17/2023	N	EM07	UMCf	55.3 - 65.3	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-09S	6/15/2023	N	EM10	UMCf	55.3 - 65.3	<0.161	151	<0.106	<0.787	<0.114	<0.478	26.0 J	<0.0941	<0.118	<0.128
U4-MW-09S	9/13/2023	N	EM13	UMCf	55.3 - 65.3	<0.161	164	<0.106	<0.787 UJ	<0.114	<0.478	85.5	<0.0941	<0.118	<0.128
U4-MW-09S	12/12/2023	N	EM16	UMCf	55.3 - 65.3	<0.161	85.6 J	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-09S	3/13/2024	N	EM19	UMCf	55.3 - 65.3	<0.161	783	<0.106	<0.787	<0.114	<0.478	184	<0.0941	<0.118	<0.128

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
						2,2-Dichloropropane	2-Butanone (MEK)	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-Pentanone	Acetone	Benzene	Bromobenzene	Bromochloromethane
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-09S	6/13/2024	N	EM20	UMCf	55.3 - 65.3	<0.161	22.5	<0.106	<0.787	<0.114	0.928 J	28.7 J	<0.0941	<0.118	<0.128
U4-MW-10D	4/14/2022	N	BL02	UMCf	96.9 - 106.9	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-10D	12/5/2022	N	EM04	UMCf	96.9 - 106.9	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-10D	3/17/2023	N	EM07	UMCf	96.9 - 106.9	<0.161	27.8	<0.106	<0.787	<0.114	<0.478	45.7 J	<0.0941	<0.118	<0.128
U4-MW-10D	6/14/2023	N	EM10	UMCf	96.9 - 106.9	<0.161	20.5	<0.106	<0.787	<0.114	<0.478	74.4 J+	<0.0941	<0.118	<0.128
U4-MW-10D	9/13/2023	N	EM13	UMCf	96.9 - 106.9	<0.161	<1.19	<0.106	<0.787 UJ	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-10D	12/14/2023	N	EM16	UMCf	96.9 - 106.9	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-10D	3/14/2024	N	EM19	UMCf	96.9 - 106.9	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-10D	6/11/2024	N	EM20	UMCf	96.9 - 106.9	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-10I	4/14/2022	N	BL02	UMCf	77.1 - 87.1	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-10I	12/5/2022	N	EM04	UMCf	77.1 - 87.1	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-10I	3/17/2023	N	EM07	UMCf	77.1 - 87.1	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-10I	6/14/2023	N	EM10	UMCf	77.1 - 87.1	<0.161	61.6	<0.106	<0.787	<0.114	<0.478	90.1 J+	<0.0941	<0.118	<0.128
U4-MW-10I	9/13/2023	N	EM13	UMCf	77.1 - 87.1	<0.161	11.4	<0.106	<0.787 UJ	<0.114	<0.478	29.0 J	<0.0941	<0.118	<0.128
U4-MW-10I	12/14/2023	N	EM16	UMCf	77.1 - 87.1	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-10I	3/13/2024	N	EM19	UMCf	77.1 - 87.1	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-10I	6/11/2024	N	EM20	UMCf	77.1 - 87.1	<0.161	1.59 J	<0.106	<0.787	<0.114	<0.478	<11.3	0.109 J	<0.118	<0.128
U4-MW-11D	4/15/2022	N	BL02	UMCf	97.4 - 107.4	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-11D	9/26/2022	N	EM01	UMCf	97.4 - 107.4	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565	<4.71	<5.90	<6.40
U4-MW-11D	10/11/2022	N	EM02	UMCf	97.4 - 107.4	<1.61	<11.9	<1.06	<7.87	<1.14	<4.78	<113	<0.941	<1.18	<1.28
U4-MW-11D	11/1/2022	N	EM03	UMCf	97.4 - 107.4	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565	<4.71	<5.90	<6.40
U4-MW-11D	12/6/2022	N	EM04	UMCf	97.4 - 107.4	<4.03 UJ	88.4 J	<2.65 UJ	<19.7 UJ	<2.85 UJ	<12.0 UJ	<282 UJ	<2.35 UJ	<2.95 UJ	<3.20 UJ
U4-MW-11D	1/12/2023	N	EM05	UMCf	97.4 - 107.4	<32.2	<238	<21.2	<157	<22.8	<95.6	<2,260	<18.8	<23.6	<25.6
U4-MW-11D	2/14/2023	N	EM06	UMCf	97.4 - 107.4	<32.2	<238	<21.2	<157	<22.8	<95.6	<2,260	<18.8	<23.6	<25.6
U4-MW-11D	3/16/2023	N	EM07	UMCf	97.4 - 107.4	<32.2	<238	<21.2	<157	<22.8	<95.6	<2,260	<18.8	<23.6	<25.6
U4-MW-11D	4/18/2023	N	EM08	UMCf	97.4 - 107.4	<0.805	<5.95	<0.530	<3.94	<0.570	<2.39	<56.5	<0.471	<0.590	<0.640
U4-MW-11D	5/17/2023	N	EM09	UMCf	97.4 - 107.4	<3.22 UJ	<23.8 UJ	<2.12 UJ	<15.7 UJ	<2.28 UJ	<9.56 UJ	<226 UJ	<1.88 UJ	<2.36 UJ	<2.56 UJ
U4-MW-11D	6/16/2023	N	EM10	UMCf	97.4 - 107.4	<0.161	2.53 J	<0.106	<0.787	<0.114	<0.478	16.9 J	<0.0941	<0.118	<0.128
U4-MW-11D	7/14/2023	N	EM11	UMCf	97.4 - 107.4	<0.161	2.58 J	<0.106	<0.787	<0.114	<0.478	11.4 J	<0.0941	<0.118	<0.128
U4-MW-11D	8/14/2023	N	EM12	UMCf	97.4 - 107.4	<32.2	<238	<21.2	<157	<22.8	<95.6	<2,260	<18.8	<23.6	<25.6 UJ
U4-MW-11D	9/13/2023	N	EM13	UMCf	97.4 - 107.4	<0.161	10.4	<0.106	<0.787 UJ	<0.114	<0.478	158	<0.0941	<0.118	<0.128
U4-MW-11D	10/18/2023	N	EM14	UMCf	97.4 - 107.4	<32.2	<238	<21.2	<157	<22.8	<95.6	<2,260	<18.8	<23.6	<25.6
U4-MW-11D	11/16/2023	N	EM15	UMCf	97.4 - 107.4	<8.05	92.3 J	<5.30	<39.4	<5.70	<23.9	736 J	<4.71	<5.90	<6.40
U4-MW-11D	12/13/2023	N	EM16	UMCf	97.4 - 107.4	<0.161	117	<0.106	<0.787	<0.114	<0.478	<565	<0.0941	<0.118	0.407 J
U4-MW-11D	1/25/2024	N	EM17	UMCf	97.4 - 107.4	<0.161	118	<0.106	<0.787	<0.114	<0.478	855 J	<0.0941	<0.118	0.196 J
U4-MW-11D	2/14/2024	N	EM18	UMCf	97.4 - 107.4	<0.161	96.3	<0.106	<0.787	<0.114	<0.478	592	<0.0941	<0.118	<0.128
U4-MW-11D	3/12/2024	N	EM19	UMCf	97.4 - 107.4	<16.1	121 J	<10.6	<78.7	<11.4	<47.8	<1,130	<9.41	<11.8	<12.8
U4-MW-11D	6/12/2024	N	EM20	UMCf	97.4 - 107.4	<0.161	6.96 J	<0.106	<0.787	<0.114	<0.478	17.6 J	<0.0941	<0.118	<0.128
U4-MW-11I	4/14/2022	N	BL02	UMCf	77.0 - 87.0	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-11I	9/26/2022	N	EM01	UMCf	77.0 - 87.0	<0.161	20.1	<0.106	<0.787	<0.114	<0.478	184	<0.0941	<0.118	<0.128
U4-MW-11I	9/26/2022	FD	EM01	UMCf	77.0 - 87.0	<0.161	20.5	<0.106	<0.787	<0.114	<0.478	176	<0.0941	<0.118	0.663 J
U4-MW-11I	10/10/2022	N	EM02	UMCf	77.0 - 87.0	<1.61	16.0 J	<1.06	<7.87	<1.14	<4.78	<113	<0.941	<1.18	<1.28
U4-MW-11I	10/10/2022	FD	EM02	UMCf	77.0 - 87.0	<0.161	24.1	<0.106	<0.787	<0.114	<0.478	18.3 J	<0.0941	<0.118	0.614 J

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
						2,2-Dichloropropane	2-Butanone (MEK)	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-Pentanone	Acetone	Benzene	Bromobenzene	Bromochloromethane
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-11I	10/31/2022	N	EM03	UMCf	77.0 - 87.0	<0.805	62.2	<0.530	<3.94	<0.570	<2.39	<56.5	<0.471	<0.590	<0.640
U4-MW-11I	10/31/2022	FD	EM03	UMCf	77.0 - 87.0	<0.161	70.6	<0.106	<0.787	<0.114	<0.478	44.2 J	<0.0941	<0.118	<0.128
U4-MW-11I	12/6/2022	N	EM04	UMCf	77.0 - 87.0	<0.161 UJ	57.4 J+	<0.106 UJ	<0.787 UJ	<0.114 UJ	<0.478 UJ	57.7 J+	<0.0941 UJ	<0.118 UJ	<0.128 UJ
U4-MW-11I	12/6/2022	FD	EM04	UMCf	77.0 - 87.0	<0.161 UJ	57.2 J+	<0.106 UJ	<0.787 UJ	<0.114 UJ	<0.478 UJ	57.8 J+	<0.0941 UJ	<0.118 UJ	<0.128 UJ
U4-MW-11I	1/12/2023	N	EM05	UMCf	77.0 - 87.0	<0.161	44.0	<0.106	<0.787	<0.114	<0.478	54.7 J+	<0.0941	<0.118	<0.128
U4-MW-11I	1/12/2023	FD	EM05	UMCf	77.0 - 87.0	<0.161	43.9	<0.106	<0.787	<0.114	<0.478	52.3 J+	<0.0941	<0.118	<0.128
U4-MW-11I	2/14/2023	N	EM06	UMCf	77.0 - 87.0	<0.161	20.8 J+	<0.106	<0.787	<0.114	<0.478	22.1 J	<0.0941	<0.118	<0.128
U4-MW-11I	2/14/2023	FD	EM06	UMCf	77.0 - 87.0	<0.161	19.3 J+	<0.106	<0.787	<0.114	<0.478	20.6 J	<0.0941	<0.118	<0.128
U4-MW-11I	3/16/2023	N	EM07	UMCf	77.0 - 87.0	<0.161	44.6	<0.106	<0.787	<0.114	<0.478	44.6 J	<0.0941	<0.118	<0.128
U4-MW-11I	3/16/2023	FD	EM07	UMCf	77.0 - 87.0	<0.161	42.2	<0.106	<0.787	<0.114	<0.478	43.6 J	<0.0941	<0.118	<0.128
U4-MW-11I	4/18/2023	N	EM08	UMCf	77.0 - 87.0	<0.161	34.4	<0.106	<0.787	<0.114	<0.478	45.3 J	<0.0941	<0.118	<0.128
U4-MW-11I	4/18/2023	FD	EM08	UMCf	77.0 - 87.0	<0.161	33.9	<0.106	<0.787	<0.114	<0.478	42.6 J	<0.0941	<0.118	<0.128
U4-MW-11I	5/19/2023	N	EM09	UMCf	77.0 - 87.0	<0.161 UJ	31.4 J-	<0.106 UJ	<0.787 UJ	<0.114 UJ	<0.478 UJ	43.6 J	<0.0941 UJ	<0.118 UJ	<0.128 UJ
U4-MW-11I	5/19/2023	FD	EM09	UMCf	77.0 - 87.0	<0.161 UJ	30.9 J-	<0.106 UJ	<0.787 UJ	<0.114 UJ	<0.478 UJ	45.1 J	<0.0941 UJ	<0.118 UJ	<0.128 UJ
U4-MW-11I	6/15/2023	N	EM10	UMCf	77.0 - 87.0	<0.161	22.2	<0.106	<0.787	<0.114	<0.478	30.9 J	<0.0941	<0.118	<0.128
U4-MW-11I	6/15/2023	FD	EM10	UMCf	77.0 - 87.0	<0.161	21.8	<0.106	<0.787	<0.114	<0.478	29.7 J	<0.0941	<0.118	<0.128
U4-MW-11I	7/13/2023	N	EM11	UMCf	77.0 - 87.0	<0.161	13.7	<0.106	<0.787	<0.114	<0.478	24.5 J	<0.0941	<0.118	<0.128
U4-MW-11I	7/13/2023	FD	EM11	UMCf	77.0 - 87.0	<0.161	14.9	<0.106	<0.787	<0.114	<0.478	24.2 J	<0.0941	<0.118	<0.128
U4-MW-11I	8/14/2023	N	EM12	UMCf	77.0 - 87.0	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-11I	8/14/2023	FD	EM12	UMCf	77.0 - 87.0	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-11I	9/13/2023	N	EM13	UMCf	77.0 - 87.0	<0.161	<1.19	<0.106	<0.787 UJ	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-11I	9/13/2023	FD	EM13	UMCf	77.0 - 87.0	<0.161	<1.19	<0.106	<0.787 UJ	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-11I	10/19/2023	N	EM14	UMCf	77.0 - 87.0	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-11I	10/19/2023	FD	EM14	UMCf	77.0 - 87.0	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	15.8 J	<0.0941	<0.118	<0.128
U4-MW-11I	11/16/2023	N	EM15	UMCf	77.0 - 87.0	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565	<4.71	<5.90	<6.40
U4-MW-11I	11/16/2023	FD	EM15	UMCf	77.0 - 87.0	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565	<4.71	<5.90	<6.40
U4-MW-11I	12/13/2023	N	EM16	UMCf	77.0 - 87.0	<0.161	16.2	<0.106	<0.787	<0.114	<0.478	<226	<0.0941	<0.118	0.183 J
U4-MW-11I	12/13/2023	FD	EM16	UMCf	77.0 - 87.0	<0.161	11.6	<0.106	<0.787	<0.114	<0.478	<226	<0.0941	<0.118	0.163 J
U4-MW-11I	1/25/2024	N	EM17	UMCf	77.0 - 87.0	<0.161	13.5	<0.106	<0.787	<0.114	<0.478	96.2	<0.0941	<0.118	<0.128
U4-MW-11I	1/25/2024	FD	EM17	UMCf	77.0 - 87.0	<0.161	15.2	<0.106	<0.787	<0.114	<0.478	98.5	<0.0941	<0.118	<0.128
U4-MW-11I	2/14/2024	N	EM18	UMCf	77.0 - 87.0	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565	<4.71	<5.90	<6.40
U4-MW-11I	2/14/2024	FD	EM18	UMCf	77.0 - 87.0	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565	<4.71	<5.90	<6.40
U4-MW-11I	3/13/2024	N	EM19	UMCf	77.0 - 87.0	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-11I	3/13/2024	FD	EM19	UMCf	77.0 - 87.0	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-11I	6/12/2024	N	EM20	UMCf	77.0 - 87.0	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-11I	6/12/2024	FD	EM20	UMCf	77.0 - 87.0	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-12D	4/15/2022	N	BL02	UMCf	97.1 - 107.1	<0.161	1.23 J	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-12D	9/27/2022	N	EM01	UMCf	97.1 - 107.1	<3.22	<23.8	<2.12	<15.7	<2.28	<9.56	<226	<1.88	<2.36	<2.56
U4-MW-12D	10/12/2022	N	EM02	UMCf	97.1 - 107.1	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-12D	11/2/2022	N	EM03	UMCf	97.1 - 107.1	<1.61	<11.9	<1.06	<7.87	<1.14	<4.78	<113	<0.941	<1.18	<1.28
U4-MW-12D	12/7/2022	N	EM04	UMCf	97.1 - 107.1	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-12D	1/12/2023	N	EM05	UMCf	97.1 - 107.1	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130	<9.41	<11.8	<12.8
U4-MW-12D	2/15/2023	N	EM06	UMCf	97.1 - 107.1	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130	<9.41	<11.8	<12.8

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	Volatile Organic Compounds by SW8260B
						2,2-Dichloropropane	2-Butanone (MEK)	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-Pentanone	Acetone	Benzene	Bromobenzene	Bromochloromethane
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-12D	3/14/2023	N	EM07	UMCf	97.1 - 107.1	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565	<4.71	<5.90	<6.40
U4-MW-12D	4/17/2023	N	EM08	UMCf	97.1 - 107.1	<0.805 UJ	<5.95 UJ	<0.530 UJ	<3.94 UJ	<0.570 UJ	<2.39 UJ	<56.5 UJ	<0.471 UJ	<0.590 UJ	<0.640 UJ
U4-MW-12D	5/17/2023	N	EM09	UMCf	97.1 - 107.1	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130	<9.41	<11.8	<12.8
U4-MW-12D	6/16/2023	N	EM10	UMCf	97.1 - 107.1	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-12D	7/13/2023	N	EM11	UMCf	97.1 - 107.1	<0.161	4.52 J	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-12D	8/14/2023	N	EM12	UMCf	97.1 - 107.1	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565	<4.71	<5.90	<6.40
U4-MW-12D	9/12/2023	N	EM13	UMCf	97.1 - 107.1	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565	<4.71	<5.90	<6.40
U4-MW-12D	10/17/2023	N	EM14	UMCf	97.1 - 107.1	<0.805	154	<0.530	<3.94	<0.570	<2.39	718	<0.471	<0.590	<0.640
U4-MW-12D	11/15/2023	N	EM15	UMCf	97.1 - 107.1	<0.805	158	<0.530	<3.94	<0.570	<2.39	1,010	<0.471	<0.590	<0.640
U4-MW-12D	12/12/2023	N	EM16	UMCf	97.1 - 107.1	<0.161	92.3 J	<0.106	<0.787	<0.114	0.760 J	498 J+	<0.0941	<0.118	<0.128
U4-MW-12D	1/24/2024	N	EM17	UMCf	97.1 - 107.1	<0.161	69.2	<0.106	<0.787	<0.114	<0.478	306	<0.0941	<0.118	<0.128
U4-MW-12D	2/13/2024	N	EM18	UMCf	97.1 - 107.1	<3.22	78.4 J	<2.12	<15.7	<2.28	<9.56	309 J	<1.88	<2.36	<2.56
U4-MW-12D	3/12/2024	N	EM19	UMCf	97.1 - 107.1	<3.22	105 J	<2.12	<15.7	<2.28	<9.56	376 J	<1.88	<2.36	<2.56
U4-MW-12D	6/12/2024	N	EM20	UMCf	97.1 - 107.1	<0.161	123	<0.106	16.3	<0.114	<0.478	154	<0.0941	<0.118	<0.128
U4-MW-12I	4/14/2022	N	BL02	UMCf	76.8 - 86.8	<0.161	1.87 J	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-12I	4/14/2022	FD	BL02	UMCf	76.8 - 86.8	<0.161	2.86 J	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-12I	9/27/2022	N	EM01	UMCf	76.8 - 86.8	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	13.7 J	<0.0941	<0.118	<0.128
U4-MW-12I	10/12/2022	N	EM02	UMCf	76.8 - 86.8	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-12I	11/2/2022	N	EM03	UMCf	76.8 - 86.8	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-12I	12/7/2022	N	EM04	UMCf	76.8 - 86.8	<0.161	10.6 J+	<0.106	<0.787	<0.114	<0.478	16.9 J	<0.0941	<0.118	<0.128
U4-MW-12I	12/7/2022	FD	EM04	UMCf	76.8 - 86.8	<0.161	10.3 J+	<0.106	<0.787	<0.114	<0.478	16.1 J	<0.0941	<0.118	<0.128
U4-MW-12I	1/13/2023	N	EM05	UMCf	76.8 - 86.8	<0.161	9.72 J	<0.106	<0.787	<0.114	<0.478	30.3 J	<0.0941	<0.118	<0.128
U4-MW-12I	2/15/2023	N	EM06	UMCf	76.8 - 86.8	<0.161	24.7 J+	<0.106	<0.787	<0.114	<0.478	23.4 J	<0.0941	<0.118	<0.128
U4-MW-12I	3/13/2023	N	EM07	UMCf	76.8 - 86.8	<0.161	14.6	<0.106	<0.787	<0.114	<0.478	19.6 J	<0.0941	<0.118	<0.128
U4-MW-12I	4/17/2023	N	EM08	UMCf	76.8 - 86.8	<0.161 UJ	22.4 J-	<0.106 UJ	<0.787 UJ	<0.114 UJ	<0.478 UJ	32.0 J	<0.0941 UJ	<0.118 UJ	<0.128 UJ
U4-MW-12I	5/17/2023	N	EM09	UMCf	76.8 - 86.8	<0.161	26.4	<0.106	<0.787	<0.114	<0.478	43.1 J	<0.0941	<0.118	<0.128
U4-MW-12I	6/16/2023	N	EM10	UMCf	76.8 - 86.8	<0.161	30.4	<0.106	<0.787	<0.114	<0.478	63.2	<0.0941	<0.118	<0.128
U4-MW-12I	7/11/2023	N	EM11	UMCf	76.8 - 86.8	<0.161	57.2	<0.106	5.56 J	<0.114	<0.478	63.6	<0.0941	<0.118	<0.128
U4-MW-12I	8/14/2023	N	EM12	UMCf	76.8 - 86.8	<0.161	2.25 J	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-12I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	<0.161	2.56 J	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-12I	10/17/2023	N	EM14	UMCf	76.8 - 86.8	<0.161	20.5	<0.106	2.02 J	<0.114	<0.478	26.8 J	<0.0941	<0.118	<0.128
U4-MW-12I	11/16/2023	N	EM15	UMCf	76.8 - 86.8	<0.161	7.26 J	<0.106	<0.787	<0.114	<0.478	18.7 J	<0.0941	<0.118	<0.128
U4-MW-12I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	73.9 J	<0.0941	<0.118	<0.128
U4-MW-12I	1/24/2024	N	EM17	UMCf	76.8 - 86.8	<0.161	59.7 J	<0.106	3.76 J	<0.114	<0.478	401	<0.0941	<0.118	<0.128
U4-MW-12I	2/13/2024	N	EM18	UMCf	76.8 - 86.8	<3.22	<23.8	<2.12	<15.7	<2.28	<9.56	<226	<1.88	<2.36	<2.56
U4-MW-12I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	<3.22	<23.8	<2.12	<15.7	<2.28	<9.56	<226	<1.88	<2.36	<2.56
U4-MW-12I	6/13/2024	N	EM20	UMCf	76.8 - 86.8	<0.161	9.04 J	<0.106	2.69 J	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-13D	4/14/2022	N	BL02	UMCf	98.2 - 108.2	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-13D	9/28/2022	N	EM01	UMCf	98.2 - 108.2	<1.61	<11.9	<1.06	<7.87	<1.14	<4.78	<113	<0.941	<1.18	<1.28
U4-MW-13D	10/11/2022	N	EM02	UMCf	98.2 - 108.2	<0.161	14.7	<0.106	<0.787	<0.114	<0.478	66.9	<0.0941	<0.118	<0.128
U4-MW-13D	11/3/2022	N	EM03	UMCf	98.2 - 108.2	<0.161	2.69 J	<0.106	<0.787	<0.114	<0.478	15.0 J	<0.0941	<0.118	<0.128
U4-MW-13D	12/7/2022	N	EM04	UMCf	98.2 - 108.2	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-13D	1/12/2023	N	EM05	UMCf	98.2 - 108.2	<3.22	<23.8	<2.12	<15.7	<2.28	<9.56	<226	<1.88	<2.36	<2.56

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
						2,2-Dichloropropane	2-Butanone (MEK)	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-Pentanone	Acetone	Benzene	Bromobenzene	Bromochloromethane
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-13D	2/15/2023	N	EM06	UMCf	98.2 - 108.2	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-13D	3/17/2023	N	EM07	UMCf	98.2 - 108.2	<3.22	<23.8	<2.12	<15.7	<2.28	<9.56	<226	<1.88	<2.36	<2.56
U4-MW-13D	4/18/2023	N	EM08	UMCf	98.2 - 108.2	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-13D	5/17/2023	N	EM09	UMCf	98.2 - 108.2	<3.22	<23.8	<2.12	<15.7	<2.28	<9.56	<226	<1.88	<2.36	<2.56
U4-MW-13D	6/15/2023	N	EM10	UMCf	98.2 - 108.2	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-13D	7/12/2023	N	EM11	UMCf	98.2 - 108.2	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-13D	8/11/2023	N	EM12	UMCf	98.2 - 108.2	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-13D	9/11/2023	N	EM13	UMCf	98.2 - 108.2	<4.03	<29.8	<2.65	<19.7	<2.85	<12.0	<282	<2.35	<2.95	<3.20
U4-MW-13D	10/18/2023	N	EM14	UMCf	98.2 - 108.2	<4.03	<29.8	<2.65	<19.7	<2.85	<12.0	<282	<2.35	<2.95	<3.20
U4-MW-13D	11/15/2023	N	EM15	UMCf	98.2 - 108.2	<4.03	<29.8	<2.65	<19.7	<2.85	<12.0	<282	<2.35	<2.95	<3.20
U4-MW-13D	12/11/2023	N	EM16	UMCf	98.2 - 108.2	<0.161	<1.19	<0.106	<0.787 UJ	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-13D	1/23/2024	N	EM17	UMCf	98.2 - 108.2	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-13D	2/12/2024	N	EM18	UMCf	98.2 - 108.2	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-13D	3/11/2024	N	EM19	UMCf	98.2 - 108.2	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-13D	6/13/2024	N	EM20	UMCf	98.2 - 108.2	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-13I	4/14/2022	N	BL02	UMCf	77.1 - 87.1	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-13I	9/28/2022	N	EM01	UMCf	77.1 - 87.1	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	0.157 J	<0.118	<0.128
U4-MW-13I	10/10/2022	N	EM02	UMCf	77.1 - 87.1	<0.161	1.81 J	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-13I	11/3/2022	N	EM03	UMCf	77.1 - 87.1	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-13I	12/6/2022	N	EM04	UMCf	77.1 - 87.1	<0.805 UJ	19.1 J	<0.530 UJ	<3.94 UJ	<0.570 UJ	<2.39 UJ	<56.5 UJ	<0.471 UJ	<0.590 UJ	<0.640 UJ
U4-MW-13I	1/12/2023	N	EM05	UMCf	77.1 - 87.1	<0.161	20.5 J+	<0.106	<0.787	<0.114	<0.478	16.9 J	<0.0941	<0.118	<0.128
U4-MW-13I	2/14/2023	N	EM06	UMCf	77.1 - 87.1	<0.805	17.5 J	<0.530	<3.94	<0.570	<2.39	<56.5	0.558 J	<0.590	<0.640
U4-MW-13I	3/16/2023	N	EM07	UMCf	77.1 - 87.1	<0.161	25.9	<0.106	<0.787	<0.114	<0.478	11.3 J	<0.0941	<0.118	<0.128
U4-MW-13I	4/19/2023	N	EM08	UMCf	77.1 - 87.1	<0.161	25.2	<0.106	<0.787	<0.114	<0.478	16.5 J	<0.0941	<0.118	<0.128
U4-MW-13I	5/17/2023	N	EM09	UMCf	77.1 - 87.1	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	18.3 J	<0.0941	<0.118	<0.128
U4-MW-13I	6/15/2023	N	EM10	UMCf	77.1 - 87.1	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-13I	7/12/2023	N	EM11	UMCf	77.1 - 87.1	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-13I	8/11/2023	N	EM12	UMCf	77.1 - 87.1	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-13I	9/11/2023	N	EM13	UMCf	77.1 - 87.1	<4.03	<29.8	<2.65	<19.7	<2.85	<12.0	<282	<2.35	<2.95	<3.20
U4-MW-13I	10/17/2023	N	EM14	UMCf	77.1 - 87.1	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-13I	11/15/2023	N	EM15	UMCf	77.1 - 87.1	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-13I	12/11/2023	N	EM16	UMCf	77.1 - 87.1	<0.161	<1.19	<0.106	<0.787 UJ	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-13I	1/23/2024	N	EM17	UMCf	77.1 - 87.1	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-13I	2/12/2024	N	EM18	UMCf	77.1 - 87.1	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-13I	3/11/2024	N	EM19	UMCf	77.1 - 87.1	<0.161	5.78 J	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-13I	6/13/2024	N	EM20	UMCf	77.1 - 87.1	<0.161	18.2	<0.106	1.78 J	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-14D	4/13/2022	N	BL02	UMCf	97.3 - 107.3	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-14D	12/6/2022	N	EM04	UMCf	97.3 - 107.3	<0.805 UJ	<5.95 UJ	<0.530 UJ	<3.94 UJ	<0.570 UJ	<2.39 UJ	<56.5 UJ	<0.471 UJ	<0.590 UJ	<0.640 UJ
U4-MW-14D	3/16/2023	N	EM07	UMCf	97.3 - 107.3	<0.805	<5.95	<0.530	<3.94	<0.570	<2.39	<56.5	<0.471	<0.590	<0.640
U4-MW-14D	6/15/2023	N	EM10	UMCf	97.3 - 107.3	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-14D	9/14/2023	N	EM13	UMCf	97.3 - 107.3	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-14D	12/15/2023	N	EM16	UMCf	97.3 - 107.3	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-14D	3/13/2024	N	EM19	UMCf	97.3 - 107.3	<0.161	2.06 J	<0.106	<0.787	<0.114	<0.478	21.4 J	<0.0941	<0.118	<0.128

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
						2,2-Dichloropropane	2-Butanone (MEK)	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-Pentanone	Acetone	Benzene	Bromobenzene	Bromochloromethane
						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	<0.161	2.32 J	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-14I	4/14/2022	N	BL02	UMCf	77.3 - 87.3	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-14I	12/6/2022	N	EM04	UMCf	77.3 - 87.3	<0.805 UJ	<5.95 UJ	<0.530 UJ	<3.94 UJ	<0.570 UJ	<2.39 UJ	<56.5 UJ	<0.471 UJ	<0.590 UJ	<0.640 UJ
U4-MW-14I	3/16/2023	N	EM07	UMCf	77.3 - 87.3	<0.805	<5.95	<0.530	<3.94	<0.570	<2.39	<56.5	<0.471	<0.590	<0.640
U4-MW-14I	6/15/2023	N	EM10	UMCf	77.3 - 87.3	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-14I	9/14/2023	N	EM13	UMCf	77.3 - 87.3	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-14I	12/14/2023	N	EM16	UMCf	77.3 - 87.3	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-14I	3/13/2024	N	EM19	UMCf	77.3 - 87.3	<0.161	1.46 J	<0.106	<0.787	<0.114	<0.478	15.3 J	<0.0941	<0.118	<0.128
U4-MW-14I	6/14/2024	N	EM20	UMCf	77.3 - 87.3	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-15D	4/13/2022	N	BL02	UMCf	96.0 - 106.0	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-15D	12/5/2022	N	EM04	UMCf	96.0 - 106.0	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-15D	3/20/2023	N	EM07	UMCf	96.0 - 106.0	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-15D	6/14/2023	N	EM10	UMCf	96.0 - 106.0	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-15D	9/13/2023	N	EM13	UMCf	96.0 - 106.0	<0.161	<1.19	<0.106	<0.787 UJ	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-15D	12/12/2023	N	EM16	UMCf	96.0 - 106.0	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-15D	3/12/2024	N	EM19	UMCf	96.0 - 106.0	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-15D	6/14/2024	N	EM20	UMCf	96.0 - 106.0	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-15DD	4/13/2022	N	BL02	UMCf	120.3 - 130.3	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-15DD	12/5/2022	N	EM04	UMCf	120.3 - 130.3	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	14.4 J	<0.0941	<0.118	<0.128
U4-MW-15DD	3/15/2023	N	EM07	UMCf	120.3 - 130.3	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-15DD	6/13/2023	N	EM10	UMCf	120.3 - 130.3	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-15DD	9/14/2023	N	EM13	UMCf	120.3 - 130.3	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-15DD	12/13/2023	N	EM16	UMCf	120.3 - 130.3	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-15DD	3/12/2024	N	EM19	UMCf	120.3 - 130.3	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-15DD	6/14/2024	N	EM20	UMCf	120.3 - 130.3	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-15I	4/12/2022	N	BL02	UMCf	76.8 - 86.8	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-15I	12/5/2022	N	EM04	UMCf	76.8 - 86.8	<0.161	20.3 J+	<0.106	<0.787	<0.114	<0.478	37.2 J	<0.0941	<0.118	<0.128
U4-MW-15I	3/17/2023	N	EM07	UMCf	76.8 - 86.8	<3.22	<23.8	<2.12	<15.7	<2.28	<9.56	<226	<1.88	<2.36	<2.56
U4-MW-15I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<0.161	51.5	<0.106	<0.787	<0.114	<0.478	103 J+	<0.0941	<0.118	<0.128
U4-MW-15I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	<0.161	2.14 J	<0.106	<0.787	<0.114	<0.478	13.1 J	<0.0941	<0.118	<0.128
U4-MW-15I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	<0.161	5.52 J	<0.106	<0.787	<0.114	<0.478	22.9 J	<0.0941	<0.118	<0.128
U4-MW-15I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565	<4.71	<5.90	<6.40
U4-MW-15I	6/17/2024	N	EM20	UMCf	76.8 - 86.8	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565	<4.71	<5.90	<6.40
U4-MW-15S	4/13/2022	N	BL02	UMCf	54.8 - 64.8	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-15S	12/5/2022	N	EM04	UMCf	54.8 - 64.8	<4.03	<29.8	<2.65	<19.7	<2.85	<12.0	<282	<2.35	<2.95	<3.20
U4-MW-15S	3/13/2023	N	EM07	UMCf	54.8 - 64.8	<0.161	14.5	<0.106	<0.787	<0.114	<0.478	22.3 J	<0.0941	<0.118	<0.128
U4-MW-15S	6/13/2023	N	EM10	UMCf	54.8 - 64.8	<0.161	19.5	<0.106	<0.787	<0.114	<0.478	32.1 J	<0.0941	<0.118	<0.128
U4-MW-15S	9/14/2023	N	EM13	UMCf	54.8 - 64.8	<0.161	6.88 J	<0.106	<0.787	<0.114	<0.478	15.5 J	<0.0941	<0.118	<0.128
U4-MW-15S	12/11/2023	N	EM16	UMCf	54.8 - 64.8	<0.322	<2.38	<0.212	<1.57 UJ	<0.228	<0.956	<22.6	<0.188	<0.236	<0.256
U4-MW-15S	3/12/2024	N	EM19	UMCf	54.8 - 64.8	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-15S	3/26/2024	N	EM19	UMCf	54.8 - 64.8	<0.161	2.42 J	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-15S	6/14/2024	N	EM20	UMCf	54.8 - 64.8	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-16D	4/11/2022	N	BL02	UMCf	96.8 - 106.8	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	0.261 J	<0.118	<0.128

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
						2,2-Dichloropropane	2-Butanone (MEK)	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-Pentanone	Acetone	Benzene	Bromobenzene	Bromochloromethane
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-16D	12/5/2022	N	EM04	UMCf	96.8 - 106.8	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-16D	3/14/2023	N	EM07	UMCf	96.8 - 106.8	<0.161	31.3	<0.106	<0.787	<0.114	<0.478	644	<0.0941	<0.118	<0.128
U4-MW-16D	6/13/2023	N	EM10	UMCf	96.8 - 106.8	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-16D	9/15/2023	N	EM13	UMCf	96.8 - 106.8	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-16D	12/14/2023	N	EM16	UMCf	96.8 - 106.8	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-16D	3/14/2024	N	EM19	UMCf	96.8 - 106.8	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565	<4.71	<5.90	<6.40
U4-MW-16D	6/17/2024	N	EM20	UMCf	96.8 - 106.8	<8.05	<59.5	<5.30	<39.4	<5.70	<23.9	<565	<4.71	<5.90	<6.40
U4-MW-16DD	4/12/2022	N	BL02	UMCf	120.8 - 130.8	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-16DD	12/5/2022	N	EM04	UMCf	120.8 - 130.8	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-16DD	3/15/2023	N	EM07	UMCf	120.8 - 130.8	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-16DD	6/13/2023	N	EM10	UMCf	120.8 - 130.8	<0.161	1.54 J	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-16DD	9/14/2023	N	EM13	UMCf	120.8 - 130.8	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-16DD	12/13/2023	N	EM16	UMCf	120.8 - 130.8	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-16DD	3/14/2024	N	EM19	UMCf	120.8 - 130.8	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-16DD	6/17/2024	N	EM20	UMCf	120.8 - 130.8	<0.161	2.06 J	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-16I	4/11/2022	N	BL02	UMCf	77.0 - 87.0	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	0.186 J	<0.118	<0.128
U4-MW-16I	12/5/2022	N	EM04	UMCf	77.0 - 87.0	<0.161	36.1 J+	<0.106	<0.787	<0.114	<0.478	20.0 J	<0.0941	<0.118	<0.128
U4-MW-16I	12/5/2022	FD	EM04	UMCf	77.0 - 87.0	<0.161	34.3 J+	<0.106	<0.787	<0.114	<0.478	18.7 J	<0.0941	<0.118	<0.128
U4-MW-16I	3/13/2023	N	EM07	UMCf	77.0 - 87.0	<0.161	23.8	<0.106	<0.787	<0.114	<0.478	37.6 J	<0.0941	<0.118	<0.128
U4-MW-16I	3/13/2023	FD	EM07	UMCf	77.0 - 87.0	<0.161	22.0	<0.106	<0.787	<0.114	<0.478	34.6 J	<0.0941	<0.118	<0.128
U4-MW-16I	6/12/2023	N	EM10	UMCf	77.0 - 87.0	<0.161	39.0	<0.106	<0.787 UJ	<0.114	<0.478	46.3 J	<0.0941	<0.118	<0.128
U4-MW-16I	6/12/2023	FD	EM10	UMCf	77.0 - 87.0	<0.161	37.3	<0.106	<0.787 UJ	<0.114	<0.478	44.5 J	<0.0941	<0.118	<0.128
U4-MW-16I	9/11/2023	N	EM13	UMCf	77.0 - 87.0	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-16I	9/11/2023	FD	EM13	UMCf	77.0 - 87.0	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-16I	12/11/2023	N	EM16	UMCf	77.0 - 87.0	<0.161	<1.19	<0.106	<0.787 UJ	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-16I	12/11/2023	FD	EM16	UMCf	77.0 - 87.0	<0.161	<1.19	<0.106	<0.787 UJ	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-16I	3/11/2024	N	EM19	UMCf	77.0 - 87.0	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-16I	3/11/2024	FD	EM19	UMCf	77.0 - 87.0	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	0.180 J	<0.118	<0.128
U4-MW-16I	6/18/2024	N	EM20	UMCf	77.0 - 87.0	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-16I	6/18/2024	FD	EM20	UMCf	77.0 - 87.0	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-16S	4/12/2022	N	BL02	UMCf	54.8 - 64.8	<0.161	1.22 J	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-16S	4/12/2022	FD	BL02	UMCf	54.8 - 64.8	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-MW-16S	12/6/2022	N	EM04	UMCf	54.8 - 64.8	<0.161 UJ	<1.19 UJ	<0.106 UJ	<0.787 UJ	<0.114 UJ	<0.478 UJ	<11.3 UJ	<0.0941 UJ	<0.118 UJ	<0.128 UJ
U4-MW-16S	3/15/2023	N	EM07	UMCf	54.8 - 64.8	<0.161	42.6	<0.106	<0.787	<0.114	<0.478	38.0 J	<0.0941	<0.118	<0.128
U4-MW-16S	6/13/2023	N	EM10	UMCf	54.8 - 64.8	<0.161	47.0	<0.106	<0.787	<0.114	<0.478	54.0	<0.0941	<0.118	<0.128
U4-MW-16S	9/11/2023	N	EM13	UMCf	54.8 - 64.8	<0.161	16.4	<0.106	<0.787	<0.114	<0.478	32.1 J	<0.0941	<0.118	<0.128
U4-MW-16S	12/11/2023	N	EM16	UMCf	54.8 - 64.8	<0.161	11.8	<0.106	<0.787 UJ	<0.114	<0.478	27.2 J	<0.0941	<0.118	<0.128
U4-MW-16S	3/11/2024	N	EM19	UMCf	54.8 - 64.8	<0.161	20.3	<0.106	<0.787	<0.114	<0.478	50.4 J+	<0.0941	<0.118	<0.128
U4-MW-16S	6/17/2024	N	EM20	UMCf	54.8 - 64.8	<0.161	4.51 J	<0.106	<0.787	<0.114	<0.478	<11.3	<0.0941	<0.118	<0.128
U4-SLMW	11/10/2022	N	EM03		-	<0.805	<5.95	<0.530	<3.94	<0.570	<2.39	<56.5	<0.471	<0.590	<0.640
U4-T3	10/13/2022	N	EM02		-	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	22.8 J	<0.0941	<0.118	<0.128
U4-T3	11/3/2022	N	EM03		-	<0.161	3.43 J	<0.106	<0.787	<0.114	<0.478	12.3 J	<0.0941	<0.118	<0.128
U4-T3	12/6/2022	N	EM04		-	<3.22 UJ	<23.8 UJ	<2.12 UJ	<15.7 UJ	<2.28 UJ	<9.56 UJ	<226 UJ	<1.88 UJ	<2.36 UJ	<2.56 UJ

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	
						2,2-Dichloropropane	2-Butanone (MEK)	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-Pentanone	Acetone	Benzene	Bromobenzene	Bromochloro-methane
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-T3	1/9/2023	N	EM05		-	<0.161	2.47 J	<0.106	<0.787	<0.114	<0.478	11.4 J	<0.0941	<0.118	<0.128
U4-T3	2/13/2023	N	EM06		-	<16.1	<119	<10.6	<78.7	<11.4	<47.8	<1,130	<9.41	<11.8	<12.8
U4-T3	3/13/2023	N	EM07		-	<4.03	<29.8	<2.65	<19.7	<2.85	<12.0	<282	<2.35	<2.95	<3.20
U4-T3	4/19/2023	N	EM08		-	<0.161	2.01 J	<0.106	<0.787	<0.114	<0.478	12.8 J	<0.0941	<0.118	<0.128
U4-T3	5/18/2023	N	EM09		-	<0.161	26.1 J+	<0.106	<0.787	<0.114	<0.478	121	<0.0941	<0.118	<0.128
U4-T3	6/12/2023	N	EM10		-	<0.161	25.8	<0.106	<0.787 UJ	<0.114	<0.478	96.7 J+	<0.0941	<0.118	<0.128
U4-T3	7/11/2023	N	EM11		-	<0.161	<1.19	<0.106	<0.787	<0.114	<0.478	90.2	<0.0941	<0.118	<0.128
U4-T3	8/10/2023	N	EM12		-	<0.161	17.1	<0.106	<0.787	<0.114	0.823 J	39.1 J	<0.0941	<0.118	<0.128
U4-T3	9/11/2023	N	EM13		-	<0.161	22.7	<0.106	<0.787	<0.114	<0.478	69.8	<0.0941	<0.118	<0.128
U4-T3	10/16/2023	N	EM14		-	<4.03	<29.8	<2.65	<19.7	<2.85	<12.0	<282	<2.35	<2.95	<3.20

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 sample quantitation limit.
- 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.

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
						Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene
						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	13.1	8.80	<0.605	<0.128	<0.116	<0.192	8,010	<0.960	<0.126	<0.111
M-251-100	10/13/2022	N	EM02	UMCf	92.5 - 102.5	6.92	3.40	<0.605	<0.128	<0.116	<0.192	3,950	<0.960	<0.126	<0.111
M-251-100	11/2/2022	N	EM03	UMCf	92.5 - 102.5	5.61 J	<1.29	<6.05	<1.28	<1.16	<1.92	2,420	<9.60	<1.26	<1.11
M-251-100	12/8/2022	N	EM04	UMCf	92.5 - 102.5	4.81	1.77	<0.605	1.55	<0.116	<0.192	2,240	<0.960	<0.126	<0.111
M-251-100	1/11/2023	N	EM05	UMCf	92.5 - 102.5	4.88	1.80	<0.605	<0.128	<0.116	<0.192	2,680	<0.960	<0.126	<0.111
M-251-100	2/13/2023	N	EM06	UMCf	92.5 - 102.5	4.13	1.02	<0.605	1.37	<0.116	<0.192	1,480	<0.960	<0.126	<0.111
M-251-100	3/17/2023	N	EM07	UMCf	92.5 - 102.5	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	1,630	<48.0	<6.30	<5.55
M-251-100	4/21/2023	N	EM08	UMCf	92.5 - 102.5	4.56	1.33	<0.605	1.65	<0.116	<0.192	1,950 J+	<0.960	<0.126	<0.111
M-251-100	5/9/2023	N	EM09	UMCf	92.5 - 102.5	5.11	2.19	<0.605	1.58	<0.116	<0.192	2,200	<0.960	<0.126	<0.111
M-251-100	6/14/2023	N	EM10	UMCf	92.5 - 102.5	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	2,240	<48.0	<6.30	<5.55
M-251-100	7/14/2023	N	EM11	UMCf	92.5 - 102.5	4.24	2.14	<0.605	1.90	<0.116	<0.192	2,600	<0.960	<0.126	<0.111
M-251-100	8/10/2023	N	EM12	UMCf	92.5 - 102.5	2.50	0.978 J	<0.605	<0.128	<0.116	<0.192	2,010	<0.960	<0.126	<0.111
M-251-100	9/14/2023	N	EM13	UMCf	92.5 - 102.5	3.13	1.23	<0.605	<0.128	<0.116	<0.192	2,340	<0.960	<0.126	<0.111
M-251-100	10/19/2023	N	EM14	UMCf	92.5 - 102.5	3.31	1.17	<0.605	<0.128	<0.116	<0.192	2,400	<0.960	<0.126	<0.111
M-251-100	11/16/2023	N	EM15	UMCf	92.5 - 102.5	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	1,900	<48.0	<6.30	<5.55
M-251-100	12/12/2023	N	EM16	UMCf	92.5 - 102.5	3.09	1.28	<0.605	<0.128	<0.116	<0.192	2,380 J+	<0.960	<0.126	<0.111
M-251-100	1/25/2024	N	EM17	UMCf	92.5 - 102.5	3.30	1.64	<0.605	<0.128	<0.116	<0.192	2,730 J+	<0.960	<0.126	<0.111
M-251-100	2/13/2024	N	EM18	UMCf	92.5 - 102.5	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	1,520	<48.0	<6.30	<5.55
M-251-100	3/11/2024	N	EM19	UMCf	92.5 - 102.5	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	1,750	<48.0	<6.30	<5.55
M-251-100	6/17/2024	N	EM20	UMCf	92.5 - 102.5	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	2,220	<48.0	<6.30	<5.55
M-251-60	4/18/2022	N	BL02	UMCf	52.3 - 62.3	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	13.5	<0.960	<0.126	<0.111
M-251-60	3/15/2023	N	EM07	UMCf	52.3 - 62.3	<0.136	0.212 J	<0.605	<0.128	<0.116	<0.192	14.5 J+	<0.960	<0.126	<0.111
M-251-60	6/14/2023	N	EM10	UMCf	52.3 - 62.3	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	19.9	<0.960	<0.126	<0.111
M-251-60	9/14/2023	N	EM13	UMCf	52.3 - 62.3	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	22.2	<0.960	<0.126	<0.111
M-251-60	12/11/2023	N	EM16	UMCf	52.3 - 62.3	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	27.1	<0.960	<0.126	<0.111
M-251-60	3/12/2024	N	EM19	UMCf	52.3 - 62.3	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	9.43	<0.960	<0.126	<0.111
M-251-60	6/19/2024	N	EM20	UMCf	52.3 - 62.3	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	0.611 J	<0.960	<0.126	<0.111
M-252	4/21/2022	N	BL02	UMCf	132.3 - 142.3	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	0.192 J	<0.960	<0.126	<0.111
M-252	3/15/2023	N	EM07	UMCf	132.3 - 142.3	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	17.8 J+	<0.960	<0.126	<0.111
M-252	9/19/2023	N	EM13	UMCf	132.3 - 142.3	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	<0.111	<0.960	<0.126	<0.111
M-252	12/18/2023	N	EM16	UMCf	132.3 - 142.3	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	5.55	<0.960	<0.126	<0.111 UJ
M-252	3/12/2024	N	EM19	UMCf	132.3 - 142.3	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	1.69 J	<0.960	<0.126	<0.111
M-252	6/19/2024	N	EM20	UMCf	132.3 - 142.3	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	0.623 J	<0.960	<0.126	<0.111
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	5.46	9.81 J-	<3.03	<0.640	<0.580	<0.960	6,650	<4.80	<0.630	<0.555
U4-E-01D	3/14/2023	N	EM07	UMCf	94.7 - 109.7	3.04	0.458 J	<0.605	<0.128	<0.116	<0.192	5.08	<0.960	<0.126	<0.111
U4-E-01D	6/20/2024	N	EM20	UMCf	94.7 - 109.7	<1.36	<1.29	<6.05	<1.28	<1.16	<1.92	<1.11	<9.60	<1.26	<1.11
U4-E-01I	4/19/2022	N	BL02	UMCf	74.6 - 89.6	0.521 J	0.388 J	<0.605	<0.128	<0.116	<0.192	186 J	<0.960	<0.126	<0.111
U4-E-01I	4/19/2022	FD	BL02	UMCf	74.6 - 89.6	0.509 J	<0.129	<0.605	<0.128	<0.116	<0.192	280 J	<0.960	<0.126	<0.111
U4-E-01I	3/14/2023	N	EM07	UMCf	74.6 - 89.6	2.27	0.446 J	<0.605	0.646 J	<0.116	<0.192	1,300	<0.960	<0.126	<0.111

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
						Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene
						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	0.887 J	<0.129	<0.605	0.439 J	<0.116	<0.192	477 J+	<0.960	<0.126	<0.111
U4-E-01I	5/10/2023	N	EM09	UMCf	74.6 - 89.6	0.980 J	0.189 J	<0.605	<0.128	<0.116	<0.192	553	<0.960	<0.126	<0.111
U4-E-01I	6/12/2023	N	EM10	UMCf	74.6 - 89.6	1.63	0.383 J	<0.605	0.814 J	<0.116	<0.192	1,530	<0.960	<0.126	<0.111
U4-E-01I	7/11/2023	N	EM11	UMCf	74.6 - 89.6	0.904 J	<0.645	<3.03	<0.640	<0.580	<0.960	381	<4.80	<0.630	<0.555
U4-E-01I	8/10/2023	N	EM12	UMCf	74.6 - 89.6	0.955 J	<0.129	<0.605	<0.128	<0.116	<0.192	153	<0.960	<0.126	<0.111
U4-E-01I	9/11/2023	N	EM13	UMCf	74.6 - 89.6	<0.680	<0.645	<3.03	<0.640	<0.580	<0.960	101	<4.80	<0.630	<0.555
U4-E-01I	10/16/2023	N	EM14	UMCf	74.6 - 89.6	0.388 J	<0.129	<0.605	<0.128	<0.116	<0.192	152	<0.960	<0.126	<0.111
U4-E-01I	12/13/2023	N	EM16	UMCf	74.6 - 89.6	<1.36	<1.29	<6.05	<1.28	<1.16	<1.92	<1.11	<9.60	<1.26	<1.11
U4-E-01I	1/24/2024	N	EM17	UMCf	74.6 - 89.6	<2.72	<2.58	<12.1	<2.56	<2.32	<3.84	<2.22	<19.2	<2.52	<2.22
U4-E-01I	2/14/2024	N	EM18	UMCf	74.6 - 89.6	<1.36	<1.29	<6.05	<1.28	<1.16	<1.92	<1.11	<9.60	<1.26	<1.11
U4-E-01I	3/12/2024	N	EM19	UMCf	74.6 - 89.6	<1.36	<1.29	<6.05	<1.28	<1.16	<1.92	<1.11	<9.60	<1.26	<1.11
U4-E-01I	6/20/2024	N	EM20	UMCf	74.6 - 89.6	<1.36	<1.29	<6.05	<1.28	<1.16	<1.92	1.87 J	<9.60	<1.26	<1.11
U4-E-02D	4/20/2022	N	BL02	UMCf	94.4 - 109.4	3.33 J+	1.82	<0.605	<0.128	<0.116	<0.192	1,660	<0.960	<0.126	<0.111
U4-E-02D	3/14/2023	N	EM07	UMCf	94.4 - 109.4	3.21	0.376 J	<0.605	<0.128	<0.116	<0.192	6.95	<0.960	<0.126	<0.111
U4-E-02D	6/19/2024	N	EM20	UMCf	94.4 - 109.4	<1.36	<1.29	<6.05	<1.28	<1.16	<1.92	<1.11	<9.60	<1.26	<1.11
U4-E-02I	4/18/2022	N	BL02	UMCf	74.4 - 89.4	1.65	1.65	<0.605	<0.128	<0.116	<0.192	727	<0.960	<0.126	<0.111
U4-E-02I	3/14/2023	N	EM07	UMCf	74.4 - 89.4	2.11	0.378 J	<0.605	0.176 J	<0.116	<0.192	165	<0.960	<0.126	<0.111
U4-E-02I	4/20/2023	N	EM08	UMCf	74.4 - 89.4	1.66	<0.129	<0.605	0.401 J	<0.116	<0.192	503 J+	<0.960	<0.126	<0.111
U4-E-02I	5/11/2023	N	EM09	UMCf	74.4 - 89.4	1.19	0.412 J	<0.605	0.376 J	<0.116	<0.192	477	<0.960	<0.126	<0.111
U4-E-02I	6/12/2023	N	EM10	UMCf	74.4 - 89.4	0.953 J	0.197 J	<0.605	0.180 J	<0.116	<0.192	398	<0.960	<0.126	<0.111
U4-E-02I	7/11/2023	N	EM11	UMCf	74.4 - 89.4	0.630 J	<0.129	<0.605	0.336 J	<0.116	<0.192	321	<0.960	<0.126	<0.111
U4-E-02I	8/10/2023	N	EM12	UMCf	74.4 - 89.4	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	214	<0.960	<0.126	<0.111
U4-E-02I	9/11/2023	N	EM13	UMCf	74.4 - 89.4	0.380 J	0.224 J	<0.605	<0.128	<0.116	<0.192	198	<0.960	<0.126	<0.111
U4-E-02I	10/16/2023	N	EM14	UMCf	74.4 - 89.4	<1.36	<1.29	<6.05	<1.28	<1.16	<1.92	151	<9.60	<1.26	<1.11
U4-E-02I	12/14/2023	N	EM16	UMCf	74.4 - 89.4	<1.36	<1.29	<6.05	<1.28	<1.16	<1.92	55.6	<9.60	2.42 J	<1.11
U4-E-02I	1/22/2024	N	EM17	UMCf	74.4 - 89.4	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	39.1 J+	<0.960	<0.126	<0.111
U4-E-02I	2/13/2024	N	EM18	UMCf	74.4 - 89.4	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	27.1	<0.960	<0.126	<0.111
U4-E-02I	3/13/2024	N	EM19	UMCf	74.4 - 89.4	<3.40	<3.22	<15.1	<3.20	<2.90	<4.80	11.7 J	<24.0	<3.15	<2.78
U4-E-02I	6/19/2024	N	EM20	UMCf	74.4 - 89.4	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	49.3 J	<96.0	<12.6	<11.1
U4-E-03D	4/19/2022	N	BL02	UMCf	95.1 - 110.1	10.9	6.45	<0.605	<0.128	<0.116	<0.192	6,390	<0.960	<0.126	<0.111
U4-E-03D	10/13/2022	N	EM02	UMCf	95.1 - 110.1	<27.2	<25.8	<121	<25.6	<23.2	<38.4	4,280	<192	<25.2	<22.2
U4-E-03D	11/3/2022	N	EM03	UMCf	95.1 - 110.1	9.37	4.31	<0.605	2.75	<0.116	<0.192	4,350	<0.960	<0.126	<0.111
U4-E-03D	12/6/2022	N	EM04	UMCf	95.1 - 110.1	7.65 J	3.37 J	<12.1 UJ	6.86 J	<2.32 UJ	<3.84 UJ	3,470	<19.2 UJ	<2.52 UJ	<2.22 UJ
U4-E-03D	1/9/2023	N	EM05	UMCf	95.1 - 110.1	7.40	2.90	<0.605	2.25	<0.116	<0.192	3,520	<0.960	<0.126	<0.111
U4-E-03D	2/13/2023	N	EM06	UMCf	95.1 - 110.1	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	3,130	<96.0	<12.6	<11.1
U4-E-03D	3/13/2023	N	EM07	UMCf	95.1 - 110.1	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	3,070	<96.0	<12.6	<11.1
U4-E-03D	3/14/2023	N	EM07	UMCf	95.1 - 110.1	<27.2	<25.8	<121	<25.6	<23.2	<38.4	12,200	<192	<25.2	<22.2
U4-E-03D	4/19/2023	N	EM08	UMCf	95.1 - 110.1	4.48 J	2.05 J	<3.03	1.47 J	<0.580	<0.960	3,360 J+	<4.80	<0.630	<0.555
U4-E-03D	5/11/2023	N	EM09	UMCf	95.1 - 110.1	4.02	1.58	<0.605	<0.128	<0.116	<0.192	2,640	<0.960	<0.126	<0.111
U4-E-03D	6/12/2023	N	EM10	UMCf	95.1 - 110.1	5.66	2.26	<0.605	2.20	<0.116	<0.192	3,700	<0.960	<0.126	<0.111
U4-E-03D	7/11/2023	N	EM11	UMCf	95.1 - 110.1	5.08	2.45	<0.605	1.56	<0.116	<0.192	3,470	<0.960	<0.126	<0.111
U4-E-03D	8/10/2023	N	EM12	UMCf	95.1 - 110.1	4.55	1.84	<0.605	<0.128	<0.116	<0.192	3,320	<0.960	<0.126	<0.111
U4-E-03D	9/11/2023	N	EM13	UMCf	95.1 - 110.1	4.84	2.48	<0.605	2.88	<0.116	<0.192	3,570	<0.960	<0.126	<0.111

Table 2
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 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
						Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-E-03D	10/16/2023	N	EM14	UMCf	95.1 - 110.1	<27.2	<25.8	<121	<25.6	<23.2	<38.4	3,140	<192	<25.2	<22.2
U4-E-03D	6/10/2024	N	EM20	UMCf	95.1 - 110.1	<2.72	<2.58	<12.1	<2.56	<2.32	<3.84	<2.22	<19.2	<2.52	<2.22
U4-E-03D	6/10/2024	FD	EM20	UMCf	95.1 - 110.1	<2.72	<2.58	<12.1	<2.56	<2.32	<3.84	<2.22	<19.2	<2.52	<2.22
U4-E-04D	4/19/2022	N	BL02	UMCf	95.0 - 110.0	2.28	0.947 J	<0.605	<0.128	<0.116	<0.192	2,980	<0.960	<0.126	<0.111
U4-E-04D	3/14/2023	N	EM07	UMCf	95.0 - 110.0	3.30	0.484 J	<0.605	<0.128	<0.116	<0.192	4.96 J	<0.960	<0.126	<0.111
U4-E-04D	6/20/2024	N	EM20	UMCf	95.0 - 110.0	<1.36	<1.29	<6.05	<1.28	<1.16	<1.92	<1.11	<9.60	<1.26	<1.11
U4-E-04I	4/18/2022	N	BL02	UMCf	75.0 - 90.0	0.591 J	<0.129	<0.605	<0.128	<0.116	<0.192	433	<0.960	<0.126	<0.111
U4-E-04I	3/14/2023	N	EM07	UMCf	75.0 - 90.0	<6.80	<6.45	<30.3	12.3 J	<5.80	<9.60	5,600	<48.0	<6.30	<5.55
U4-E-04I	6/20/2024	N	EM20	UMCf	75.0 - 90.0	<1.36	<1.29	<6.05	<1.28	<1.16	<1.92	3.50 J	<9.60	<1.26	<1.11
U4-E-05D	4/19/2022	N	BL02	UMCf	95.0 - 110.0	4.11	3.20	<0.605	<0.128	<0.116	<0.192	3,780	<0.960	<0.126	<0.111
U4-E-05D	3/16/2023	N	EM07	UMCf	95.0 - 110.0	0.727 J	<0.129	<0.605	<0.128	<0.116	<0.192	5.23 J+	<0.960	<0.126	<0.111
U4-E-05D	6/10/2024	N	EM20	UMCf	95.0 - 110.0	<2.72	<2.58	<12.1	<2.56	<2.32	<3.84	<2.22	<19.2	<2.52	<2.22
U4-E-05I	4/19/2022	N	BL02	UMCf	75.0 - 90.0	1.41	1.99	<0.605	<0.128	<0.116	<0.192	516	<0.960	<0.126	<0.111
U4-E-05I	3/15/2023	N	EM07	UMCf	75.0 - 90.0	3.94 J-	1.44 J-	<0.605 UJ	0.706 J	<0.116 UJ	<0.192 UJ	459 J	<0.960 UJ	<0.126 UJ	<0.111 UJ
U4-E-05I	6/19/2024	N	EM20	UMCf	75.0 - 90.0	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	<5.55	<48.0	<6.30	<5.55
U4-E-06D	4/11/2022	N	BL02	UMCf	95.1 - 110.1	0.502 J	0.185 J	<0.605	<0.128	<0.116	<0.192	819	<0.960	<0.126	<0.111
U4-E-06D	6/20/2024	N	EM20	UMCf	95.1 - 110.1	<1.36	<1.29	<6.05	<1.28	<1.16	<1.92	<1.11	<9.60	<1.26	<1.11
U4-E-06I	4/11/2022	N	BL02	UMCf	73.2 - 88.2	0.679 J	<0.129	<0.605	<0.128	<0.116	<0.192	218	<0.960	<0.126	<0.111
U4-E-06I	4/11/2022	FD	BL02	UMCf	73.2 - 88.2	0.605 J	<0.129	<0.605	<0.128	<0.116	<0.192	215	<0.960	<0.126	<0.111
U4-E-06I	10/12/2022	N	EM02	UMCf	73.2 - 88.2	1.58	0.258 J	<0.605	1.14	<0.116	<0.192	<0.111	<0.960	<0.126	<0.111
U4-E-06I	11/3/2022	N	EM03	UMCf	73.2 - 88.2	1.16 J+	0.235 J	<0.605	0.654 J	<0.116	<0.192	1,740	<0.960	<0.126	<0.111
U4-E-06I	12/6/2022	N	EM04	UMCf	73.2 - 88.2	<1.36 UJ	<1.29 UJ	<6.05 UJ	2.80 J	<1.16 UJ	<1.92 UJ	1,080	<9.60 UJ	<1.26 UJ	<1.11 UJ
U4-E-06I	1/9/2023	N	EM05	UMCf	73.2 - 88.2	1.18	0.386 J	<0.605	0.877 J	<0.116	<0.192	2,050	<0.960	<0.126	<0.111
U4-E-06I	2/13/2023	N	EM06	UMCf	73.2 - 88.2	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	1,730	<96.0	<12.6	<11.1
U4-E-06I	3/13/2023	N	EM07	UMCf	73.2 - 88.2	<2.72	<2.58	<12.1	<2.56	<2.32	<3.84	923	<19.2	<2.52	<2.22
U4-E-06I	4/17/2023	N	EM08	UMCf	73.2 - 88.2	<2.72	<2.58	<12.1	<2.56	<2.32	<3.84	1,080	<19.2	<2.52	<2.22
U4-E-06I	5/15/2023	N	EM09	UMCf	73.2 - 88.2	<3.40	<3.22	<15.1	<3.20	<2.90	<4.80	1,840	<24.0	<3.15	<2.78
U4-E-06I	6/12/2023	N	EM10	UMCf	73.2 - 88.2	1.99	0.446 J	<0.605	1.54	<0.116	<0.192	3,080	<0.960	<0.126	<0.111
U4-E-06I	7/11/2023	N	EM11	UMCf	73.2 - 88.2	1.55	<0.129	<0.605	1.00 J	<0.116	<0.192	2,820	<0.960	<0.126	<0.111
U4-E-06I	8/11/2023	N	EM12	UMCf	73.2 - 88.2	1.57 J	<0.645	<3.03	<0.640	<0.580	<0.960	2,630 J	<4.80	<0.630	<0.555
U4-E-06I	9/11/2023	N	EM13	UMCf	73.2 - 88.2	0.936 J	0.305 J	<0.605	0.612 J	<0.116	<0.192	1,470	<0.960	<0.126	<0.111
U4-E-06I	10/16/2023	N	EM14	UMCf	73.2 - 88.2	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	1,120	<48.0	<6.30	<5.55
U4-E-06I	12/13/2023	N	EM16	UMCf	73.2 - 88.2	0.440 J	<0.129	<0.605	<0.128	<0.116	<0.192	765 J+	<0.960	<0.126	<0.111
U4-E-06I	1/22/2024	N	EM17	UMCf	73.2 - 88.2	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	1,020 J+	<0.960	<0.126	<0.111
U4-E-06I	2/13/2024	N	EM18	UMCf	73.2 - 88.2	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	927	<48.0	<6.30	<5.55
U4-E-06I	3/11/2024	N	EM19	UMCf	73.2 - 88.2	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	1,200	<48.0	<6.30	<5.55
U4-E-06I	6/11/2024	N	EM20	UMCf	73.2 - 88.2	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	782	<0.960	<0.126	<0.111
U4-E-07D	4/12/2022	N	BL02	UMCf	94.6 - 109.6	3.05	1.20	<0.605	2.62	<0.116	<0.192	5,980	<0.960	<0.126	<0.111
U4-E-07D	6/20/2024	N	EM20	UMCf	94.6 - 109.6	<1.36	<1.29	<6.05	<1.28	<1.16	<1.92	197	<9.60	<1.26	<1.11
U4-E-07I	4/12/2022	N	BL02	UMCf	74.7 - 89.7	1.21	0.866 J	<0.605	1.03	<0.116	<0.192	1,140	<0.960	<0.126	<0.111
U4-E-07I	10/11/2022	N	EM02	UMCf	74.7 - 89.7	2.84 J	<1.29	<6.05	5.80 J	<1.16	<1.92	3,920	<9.60	<1.26	<1.11
U4-E-07I	11/3/2022	N	EM03	UMCf	74.7 - 89.7	4.41	1.98 J+	<0.605	1.58	<0.116	<0.192	3,510	<0.960	<0.126	<0.111
U4-E-07I	12/6/2022	N	EM04	UMCf	74.7 - 89.7	4.68 J	<3.22 UJ	<15.1 UJ	8.58 J	<2.90 UJ	<4.80 UJ	4,200	<24.0 UJ	<3.15 UJ	<2.78 UJ

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
						Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-E-07I	1/9/2023	N	EM05	UMCf	74.7 - 89.7	4.48	1.88	<0.605	1.92	<0.116	<0.192	3,840	<0.960	<0.126	<0.111
U4-E-07I	2/13/2023	N	EM06	UMCf	74.7 - 89.7	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	3,670	<96.0	<12.6	<11.1
U4-E-07I	3/13/2023	N	EM07	UMCf	74.7 - 89.7	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	3,520	<96.0	<12.6	<11.1
U4-E-07I	4/19/2023	N	EM08	UMCf	74.7 - 89.7	4.35 J	1.69 J	<3.03	1.59 J	<0.580	<0.960	3,410 J+	<4.80	<0.630	<0.555
U4-E-07I	5/15/2023	N	EM09	UMCf	74.7 - 89.7	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	2,910	<96.0	<12.6	<11.1
U4-E-07I	6/12/2023	N	EM10	UMCf	74.7 - 89.7	3.88	1.06	<0.605	1.69	<0.116	<0.192	2,840	<0.960	<0.126	<0.111
U4-E-07I	7/11/2023	N	EM11	UMCf	74.7 - 89.7	2.96	1.12	<0.605	1.07	<0.116	<0.192	2,850	<0.960	<0.126	<0.111
U4-E-07I	8/11/2023	N	EM12	UMCf	74.7 - 89.7	2.46 J	<0.645	<3.03	<0.640	<0.580	<0.960	2,840 J	<4.80	<0.630	<0.555
U4-E-07I	9/11/2023	N	EM13	UMCf	74.7 - 89.7	2.90	1.33	<0.605	2.21	<0.116	<0.192	3,620	<0.960	<0.126	<0.111
U4-E-07I	10/16/2023	N	EM14	UMCf	74.7 - 89.7	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	3,520	<96.0	<12.6	<11.1
U4-E-07I	12/13/2023	N	EM16	UMCf	74.7 - 89.7	2.84	0.998 J	<0.605	<0.128	<0.116	<0.192	3,950	<0.960	<0.126	<0.111
U4-E-07I	1/23/2024	N	EM17	UMCf	74.7 - 89.7	1.74	<0.129	<0.605	<0.128	<0.116	<0.192	2,940	<0.960	<0.126	<0.111
U4-E-07I	2/13/2024	N	EM18	UMCf	74.7 - 89.7	<27.2	<25.8	<121	<25.6	<23.2	<38.4	3,660	<192	<25.2	<22.2
U4-E-07I	3/11/2024	N	EM19	UMCf	74.7 - 89.7	<27.2	<25.8	<121	<25.6	<23.2	<38.4	4,770	<192	<25.2	<22.2
U4-E-07I	6/11/2024	N	EM20	UMCf	74.7 - 89.7	2.68	0.883 J	<0.605	1.40	<0.116	<0.192	2,830	<0.960	<0.126	<0.111
U4-E-08D	4/12/2022	N	BL02	UMCf	94.6 - 109.6	2.74	0.954 J	<0.605	2.96	<0.116	<0.192	7,120	<0.960	<0.126	<0.111
U4-E-08D	10/11/2022	N	EM02	UMCf	94.6 - 109.6	<1.36	<1.29	<6.05	5.96 J	<1.16	<1.92	4,850	<9.60	<1.26	<1.11
U4-E-08D	11/3/2022	N	EM03	UMCf	94.6 - 109.6	2.56 J+	0.740 J	<0.605	2.84	<0.116	<0.192	5,020	<0.960	<0.126	<0.111
U4-E-08D	12/6/2022	N	EM04	UMCf	94.6 - 109.6	<3.40 UJ	<3.22 UJ	<15.1 UJ	8.37 J	<2.90 UJ	<4.80 UJ	4,090	<24.0 UJ	<3.15 UJ	<2.78 UJ
U4-E-08D	1/9/2023	N	EM05	UMCf	94.6 - 109.6	1.99	0.639 J	<0.605	1.73	<0.116	<0.192	4,300	<0.960	<0.126	<0.111
U4-E-08D	2/13/2023	N	EM06	UMCf	94.6 - 109.6	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	3,920	<96.0	<12.6	<11.1
U4-E-08D	3/13/2023	N	EM07	UMCf	94.6 - 109.6	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	3,480	<96.0	<12.6	<11.1
U4-E-08D	4/19/2023	N	EM08	UMCf	94.6 - 109.6	1.92 J	<0.645	<3.03	1.54 J	<0.580	<0.960	3,410 J+	<4.80	<0.630	<0.555
U4-E-08D	5/17/2023	N	EM09	UMCf	94.6 - 109.6	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	2,880	<96.0	<12.6	<11.1
U4-E-08D	6/12/2023	N	EM10	UMCf	94.6 - 109.6	1.54	0.321 J	<0.605	1.44	<0.116	<0.192	2,820	<0.960	<0.126	<0.111
U4-E-08D	7/11/2023	N	EM11	UMCf	94.6 - 109.6	1.61	<0.129	<0.605	1.06	<0.116	<0.192	2,620	<0.960	<0.126	<0.111
U4-E-09D	4/15/2022	N	BL02	UMCf	94.5 - 109.5	0.642 J	0.461 J	<0.605	0.533 J	<0.116	<0.192	1,450	<0.960	<0.126	<0.111
U4-E-09D	6/10/2024	N	EM20	UMCf	94.5 - 109.5	<2.72	<2.58	<12.1	<2.56	<2.32	<3.84	<2.22	<19.2	<2.52	<2.22
U4-E-09I	4/14/2022	N	BL02	UMCf	74.9 - 89.9	1.00 J	0.618 J	<0.605	0.610 J	<0.116	<0.192	1,240	<0.960	<0.126	<0.111
U4-E-09I	6/10/2024	N	EM20	UMCf	74.9 - 89.9	<2.72	<2.58	<12.1	<2.56	<2.32	<3.84	<2.22	<19.2	<2.52	<2.22
U4-E-09I	6/10/2024	FD	EM20	UMCf	74.9 - 89.9	<2.72	<2.58	<12.1	<2.56	<2.32	<3.84	<2.22	<19.2	<2.52	<2.22
U4-E-10D	4/13/2022	N	BL02	UMCf	94.5 - 109.5	1.14	0.707 J	<0.605	0.717 J	<0.116	<0.192	704 J+	<0.960	<0.126	<0.111
U4-E-10D	6/19/2024	N	EM20	UMCf	94.5 - 109.5	<1.36	<1.29	<6.05	<1.28	<1.16	<1.92	<1.11	<9.60	<1.26	<1.11
U4-E-10I	4/13/2022	N	BL02	UMCf	74.2 - 89.2	0.478 J	0.509 J	<0.605	0.585 J	<0.116	<0.192	1,330	<0.960	<0.126	<0.111
U4-E-10I	6/11/2024	N	EM20	UMCf	74.2 - 89.2	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	<11.1	<96.0	<12.6	<11.1
U4-MW-01D	4/19/2022	N	BL02	UMCf	96.7 - 106.7	0.564 J	0.346 J	<0.605	<0.128	<0.116	<0.192	608	<0.960	<0.126	<0.111
U4-MW-01D	2/16/2023	N	EM06	UMCf	96.7 - 106.7	<1.36	<1.29	<6.05	<1.28	<1.16	<1.92	857	<9.60	<1.26	<1.11
U4-MW-01D	3/20/2023	N	EM07	UMCf	96.7 - 106.7	2.14	0.356 J	<0.605	0.863 J	<0.116	<0.192	1,100	<0.960	<0.126	<0.111
U4-MW-01D	6/13/2023	N	EM10	UMCf	96.7 - 106.7	1.89	0.216 J	<0.605	0.652 J	<0.116	<0.192	871	<0.960	<0.126	<0.111
U4-MW-01D	9/14/2023	N	EM13	UMCf	96.7 - 106.7	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	671	<0.960	<0.126	<0.111
U4-MW-01D	12/14/2023	N	EM16	UMCf	96.7 - 106.7	1.54	0.184 J	<0.605	0.348 J	<0.116	<0.192	428	<0.960	<0.126	<0.111
U4-MW-01D	3/13/2024	N	EM19	UMCf	96.7 - 106.7	1.39	0.181 J	<0.605	0.291 J	<0.116	<0.192	612	<0.960	<0.126	<0.111
U4-MW-01D	6/18/2024	N	EM20	UMCf	96.7 - 106.7	1.41	<0.129	<0.605	0.396 J	<0.116	<0.192	675	<0.960	<0.126	<0.111

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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
						Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-01DD	4/19/2022	N	BL02	UMCf	119.9 - 129.9	0.170 J	<0.129	<0.605	<0.128	<0.116	<0.192	21.2	<0.960	<0.126	<0.111
U4-MW-01DD	4/19/2022	FD	BL02	UMCf	119.9 - 129.9	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	20.3	<0.960	<0.126	<0.111
U4-MW-01DD	3/15/2023	N	EM07	UMCf	119.9 - 129.9	0.644 J	<0.129	<0.605	0.471 J	<0.116	<0.192	363 J+	<0.960	<0.126	<0.111
U4-MW-01DD	6/13/2023	N	EM10	UMCf	119.9 - 129.9	1.48	0.166 J	<0.605	0.178 J	<0.116	<0.192	374	<0.960	<0.126	<0.111
U4-MW-01DD	9/14/2023	N	EM13	UMCf	119.9 - 129.9	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	417	<0.960	<0.126	<0.111
U4-MW-01DD	12/15/2023	N	EM16	UMCf	119.9 - 129.9	<0.680	<0.645	<3.03	<0.640	<0.580	<0.960	180	<4.80	<0.630	<0.555
U4-MW-01DD	3/12/2024	N	EM19	UMCf	119.9 - 129.9	<0.680	<0.645	<3.03	<0.640	<0.580	<0.960	197	<4.80	<0.630	<0.555
U4-MW-01DD	6/18/2024	N	EM20	UMCf	119.9 - 129.9	0.181 J	<0.129	<0.605	<0.128	<0.116	<0.192	132	<0.960	<0.126	<0.111
U4-MW-01I	4/19/2022	N	BL02	UMCf	76.7 - 86.7	0.622 J	0.371 J	<0.605	<0.128	<0.116	<0.192	395	<0.960	<0.126	<0.111
U4-MW-01I	3/20/2023	N	EM07	UMCf	76.7 - 86.7	1.99	0.431 J	<0.605	0.789 J	<0.116	<0.192	1,060	<0.960	<0.126	<0.111
U4-MW-01I	6/12/2023	N	EM10	UMCf	76.7 - 86.7	2.08	0.203 J	<0.605	0.793 J	<0.116	<0.192	908	<0.960	<0.126	<0.111
U4-MW-01I	9/14/2023	N	EM13	UMCf	76.7 - 86.7	2.22	<0.129	<0.605	<0.128	<0.116	<0.192	969	<0.960	<0.126	<0.111
U4-MW-01I	12/15/2023	N	EM16	UMCf	76.7 - 86.7	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	892	<48.0	<6.30	<5.55
U4-MW-01I	3/13/2024	N	EM19	UMCf	76.7 - 86.7	1.47	0.180 J	<0.605	0.681 J	<0.116	<0.192	1,000	<0.960	<0.126	<0.111
U4-MW-01I	6/18/2024	N	EM20	UMCf	76.7 - 86.7	1.28	0.202 J	<0.605	0.483 J	<0.116	<0.192	809	<0.960	<0.126	<0.111
U4-MW-01S	4/18/2022	N	BL02	UMCf	54.7 - 64.7	0.375 J	0.147 J	<0.605	<0.128	<0.116	<0.192	56.8	<0.960	<0.126	<0.111
U4-MW-01S	3/15/2023	N	EM07	UMCf	54.7 - 64.7	0.346 J	<0.129	<0.605	0.227 J	<0.116	<0.192	32.5 J+	<0.960	<0.126	<0.111
U4-MW-01S	6/13/2023	N	EM10	UMCf	54.7 - 64.7	0.294 J	<0.129	<0.605	<0.128	<0.116	<0.192	31.2	<0.960	<0.126	<0.111
U4-MW-01S	9/15/2023	N	EM13	UMCf	54.7 - 64.7	0.274 J	<0.129	<0.605	<0.128	<0.116	<0.192	35.0	<0.960	<0.126	<0.111
U4-MW-01S	12/13/2023	N	EM16	UMCf	54.7 - 64.7	0.305 J	<0.129	<0.605	<0.128	<0.116	<0.192	26.7 J+	<0.960	<0.126	<0.111
U4-MW-01S	3/13/2024	N	EM19	UMCf	54.7 - 64.7	0.190 J	<0.129	<0.605	<0.128	<0.116	<0.192	27.5	<0.960	<0.126	<0.111
U4-MW-01S	6/18/2024	N	EM20	UMCf	54.7 - 64.7	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	12.5	<0.960	<0.126	<0.111
U4-MW-02D	4/14/2022	N	BL02	UMCf	95.0 - 110.0	9.08	5.28	<0.605	2.50	<0.116	<0.192	8,990	<0.960	<0.126	<0.111
U4-MW-02D	10/11/2022	N	EM02	UMCf	95.0 - 110.0	13.2	6.19	<0.605	5.24	<0.116	<0.192	10,700	<0.960	<0.126	<0.111
U4-MW-02D	11/1/2022	N	EM03	UMCf	95.0 - 110.0	10.6 J	<6.45	<30.3	<6.40	<5.80	<9.60	4,950	<48.0	16.2 J	<5.55
U4-MW-02D	12/7/2022	N	EM04	UMCf	95.0 - 110.0	12.1	5.74	<0.605	<0.128	<0.116	<0.192	11,200	<0.960	<0.126	<0.111
U4-MW-02D	1/10/2023	N	EM05	UMCf	95.0 - 110.0	9.38	4.64	<0.605	<0.128	<0.116	<0.192	7,970	<0.960	<0.126	<0.111
U4-MW-02D	2/13/2023	N	EM06	UMCf	95.0 - 110.0	10.7	3.75	<0.605	4.15	<0.116	<0.192	7,230	<0.960	<0.126	<0.111
U4-MW-02D	3/17/2023	N	EM07	UMCf	95.0 - 110.0	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	9,500	<96.0	<12.6	<11.1
U4-MW-02D	4/19/2023	N	EM08	UMCf	95.0 - 110.0	9.38	3.77 J	<3.03	2.96 J	<0.580	<0.960	10,100 J+	<4.80	<0.630	<0.555
U4-MW-02D	5/9/2023	N	EM09	UMCf	95.0 - 110.0	9.24	3.51 J	<3.03	8.04	<0.580	<0.960	10,300	<4.80	<0.630	<0.555
U4-MW-02D	6/13/2023	N	EM10	UMCf	95.0 - 110.0	7.28	3.82	<0.605	2.24	<0.116	<0.192	<0.111	<0.960	<0.126	<0.111
U4-MW-02D	7/18/2023	N	EM11	UMCf	95.0 - 110.0	9.63	5.00	<0.605	<0.128	<0.116	<0.192	10,700	<0.960	<0.126	<0.111
U4-MW-02D	8/14/2023	N	EM12	UMCf	95.0 - 110.0	<34.0	<32.3	<151	<32.0	<29.0	<48.0	7,970	<240	43.0 J	<27.8
U4-MW-02D	9/11/2023	N	EM13	UMCf	95.0 - 110.0	7.33	3.71	<0.605	3.41	<0.116	<0.192	8,840	<0.960	<0.126	<0.111
U4-MW-02D	10/19/2023	N	EM14	UMCf	95.0 - 110.0	10.9	4.73	<0.605	<0.128	<0.116	<0.192	10,200	<0.960	<0.126	<0.111
U4-MW-02D	11/15/2023	N	EM15	UMCf	95.0 - 110.0	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	8,080	<96.0	<12.6	<11.1
U4-MW-02D	12/14/2023	N	EM16	UMCf	95.0 - 110.0	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	6,310	<96.0	59.6 J	<11.1
U4-MW-02D	1/25/2024	N	EM17	UMCf	95.0 - 110.0	8.30	3.74	<0.605	<0.128	<0.116	<0.192	6,250 J+	<0.960	<0.126	<0.111
U4-MW-02D	2/12/2024	N	EM18	UMCf	95.0 - 110.0	6.16	2.57	<0.605	<0.128	<0.116	<0.192	6,880	<0.960	<0.126	<0.111
U4-MW-02D	3/13/2024	N	EM19	UMCf	95.0 - 110.0	6.99	2.78	<0.605	2.21	<0.116	<0.192	7,740 J+	<0.960	0.144 J	<0.111
U4-MW-02D	6/17/2024	N	EM20	UMCf	95.0 - 110.0	5.39	2.45	<0.605	<0.128	<0.116	<0.192	5,500	<0.960	<0.126	<0.111
U4-MW-02I	4/14/2022	N	BL02	UMCf	75.0 - 90.0	2.73	1.62	<0.605	0.809 J	<0.116	<0.192	1,380	<0.960	<0.126	<0.111

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
						Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-02I	10/11/2022	N	EM02	UMCf	75.0 - 90.0	4.87	2.46	<0.605	2.06	<0.116	<0.192	2,860	<0.960	<0.126	<0.111
U4-MW-02I	11/2/2022	N	EM03	UMCf	75.0 - 90.0	3.93 J	<1.29	<6.05	<1.28	<1.16	<1.92	3,760	<9.60	<1.26	<1.11
U4-MW-02I	11/2/2022	FD	EM03	UMCf	75.0 - 90.0	2.76 J	<1.29	<6.05	5.26 J	<1.16	<1.92	3,760	<9.60	<1.26	<1.11
U4-MW-02I	12/8/2022	N	EM04	UMCf	75.0 - 90.0	0.766 J	0.454 J	<0.605	0.173 J	<0.116	<0.192	474	<0.960	<0.126	<0.111
U4-MW-02I	12/8/2022	FD	EM04	UMCf	75.0 - 90.0	0.924 J	0.569 J	<0.605	0.214 J	<0.116	<0.192	462	<0.960	<0.126	<0.111
U4-MW-02I	1/13/2023	N	EM05	UMCf	75.0 - 90.0	2.62 J	<1.29	<6.05	<1.28	<1.16	<1.92	1,910	<9.60	<1.26	<1.11
U4-MW-02I	1/13/2023	FD	EM05	UMCf	75.0 - 90.0	3.20 J	<1.29	<6.05	<1.28	<1.16	<1.92	1,890	<9.60	<1.26	<1.11
U4-MW-02I	2/15/2023	N	EM06	UMCf	75.0 - 90.0	8.86 J	5.67 J	<6.05	<1.28	<1.16	<1.92	6,040	<9.60	<1.26	<1.11
U4-MW-02I	2/15/2023	FD	EM06	UMCf	75.0 - 90.0	8.84 J	6.04 J	<6.05	<1.28	<1.16	<1.92	6,030	<9.60	<1.26	<1.11
U4-MW-02I	3/17/2023	N	EM07	UMCf	75.0 - 90.0	<27.2	<25.8	<121	<25.6	<23.2	<38.4	7,070	<192	<25.2	<22.2
U4-MW-02I	3/17/2023	FD	EM07	UMCf	75.0 - 90.0	<27.2	<25.8	<121	<25.6	<23.2	<38.4	7,210	<192	<25.2	<22.2
U4-MW-02I	4/20/2023	N	EM08	UMCf	75.0 - 90.0	0.189 J	<0.129	<0.605	<0.128	<0.116	<0.192	128	<0.960	<0.126	<0.111
U4-MW-02I	4/20/2023	FD	EM08	UMCf	75.0 - 90.0	0.188 J	<0.129	<0.605	<0.128	<0.116	<0.192	134	<0.960	<0.126	<0.111
U4-MW-02I	5/9/2023	N	EM09	UMCf	75.0 - 90.0	0.204 J	<0.129	<0.605	<0.128	<0.116	<0.192	313	<0.960	<0.126	<0.111
U4-MW-02I	5/9/2023	FD	EM09	UMCf	75.0 - 90.0	0.228 J	<0.129	<0.605	<0.128	<0.116	<0.192	301 J+	<0.960	<0.126	<0.111
U4-MW-02I	6/12/2023	N	EM10	UMCf	75.0 - 90.0	0.371 J	<0.129	<0.605	<0.128	<0.116	<0.192	390	<0.960	<0.126	<0.111
U4-MW-02I	6/12/2023	FD	EM10	UMCf	75.0 - 90.0	0.294 J	<0.129	<0.605	<0.128	<0.116	<0.192	385	<0.960	<0.126	<0.111
U4-MW-02I	7/18/2023	N	EM11	UMCf	75.0 - 90.0	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	118	<0.960	<0.126	<0.111
U4-MW-02I	7/18/2023	FD	EM11	UMCf	75.0 - 90.0	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	143	<0.960	<0.126	<0.111
U4-MW-02I	8/11/2023	N	EM12	UMCf	75.0 - 90.0	2.03	0.743 J	<0.605	<0.128	<0.116	<0.192	1,860 J	<0.960	<0.126	<0.111
U4-MW-02I	8/11/2023	FD	EM12	UMCf	75.0 - 90.0	2.10	0.833 J	<0.605	<0.128	<0.116	<0.192	1,910 J	<0.960	<0.126	<0.111
U4-MW-02I	9/11/2023	N	EM13	UMCf	75.0 - 90.0	1.13	0.404 J	<0.605	0.320 J	<0.116	<0.192	1,270 J	<0.960	<0.126	<0.111
U4-MW-02I	9/11/2023	FD	EM13	UMCf	75.0 - 90.0	1.64	0.713 J	<0.605	0.722 J	<0.116	<0.192	2,040 J	<0.960	<0.126	<0.111
U4-MW-02I	10/19/2023	N	EM14	UMCf	75.0 - 90.0	4.68 J-	1.82 J-	<0.605 UJ	<0.128 UJ	<0.116 UJ	<0.192 UJ	3,570 J-	<0.960 UJ	<0.126 UJ	<0.111 UJ
U4-MW-02I	10/19/2023	FD	EM14	UMCf	75.0 - 90.0	5.37	2.05	<0.605	<0.128	<0.116	<0.192	4,030	<0.960	<0.126	<0.111
U4-MW-02I	11/15/2023	N	EM15	UMCf	75.0 - 90.0	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	3,240	<48.0	<6.30	<5.55
U4-MW-02I	11/15/2023	FD	EM15	UMCf	75.0 - 90.0	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	3,230	<48.0	<6.30	<5.55
U4-MW-02I	12/14/2023	N	EM16	UMCf	75.0 - 90.0	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	3,480	<48.0	18.0 J	<5.55
U4-MW-02I	12/14/2023	FD	EM16	UMCf	75.0 - 90.0	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	3,370	<48.0	11.3 J	<5.55
U4-MW-02I	1/25/2024	N	EM17	UMCf	75.0 - 90.0	6.26	3.17	<0.605	3.80 J+	<0.116	<0.192	4,980 J	<0.960	<0.126	<0.111
U4-MW-02I	1/25/2024	FD	EM17	UMCf	75.0 - 90.0	5.91	2.87	<0.605	3.32 J+	<0.116	<0.192	4,170 J	<0.960	<0.126	<0.111
U4-MW-02I	2/12/2024	N	EM18	UMCf	75.0 - 90.0	6.02	2.52	<0.605	2.31	<0.116	<0.192	4,640	<0.960	<0.126	<0.111
U4-MW-02I	2/12/2024	FD	EM18	UMCf	75.0 - 90.0	5.59	2.41	<0.605	2.15	<0.116	<0.192	4,680	<0.960	<0.126	<0.111
U4-MW-02I	3/13/2024	N	EM19	UMCf	75.0 - 90.0	<0.136	2.03	<0.605	1.57	<0.116	<0.192	4,890 J+	<0.960	<0.126	<0.111
U4-MW-02I	3/13/2024	FD	EM19	UMCf	75.0 - 90.0	<0.136	2.28	<0.605	1.85	<0.116	<0.192	4,940 J+	<0.960	0.166 J	<0.111
U4-MW-02I	6/17/2024	N	EM20	UMCf	75.0 - 90.0	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	2,500	<48.0	<6.30	<5.55
U4-MW-02I	6/17/2024	FD	EM20	UMCf	75.0 - 90.0	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	2,510	<48.0	<6.30	<5.55
U4-MW-03D	4/20/2022	N	BL02	UMCf	96.6 - 106.6	1.81 J+	0.629 J	<0.605	<0.128	<0.116	<0.192	2,270	<0.960	<0.126	<0.111
U4-MW-03D	2/16/2023	N	EM06	UMCf	96.6 - 106.6	1.71 J	<0.645	<3.03	0.835 J	<0.580	<0.960	1,350	<4.80	<0.630	<0.555
U4-MW-03D	3/16/2023	N	EM07	UMCf	96.6 - 106.6	<2.72	<2.58	<12.1	<2.56	<2.32	<3.84	1,670	<19.2	<2.52	<2.22
U4-MW-03D	3/16/2023	FD	EM07	UMCf	96.6 - 106.6	<0.680	<0.645	<3.03	<0.640	<0.580	<0.960	1,620	<4.80	<0.630	<0.555
U4-MW-03D	6/15/2023	N	EM10	UMCf	96.6 - 106.6	1.13	<0.129	<0.605	<0.128	<0.116	<0.192	1,130 J+	<0.960	<0.126	<0.111
U4-MW-03D	9/14/2023	N	EM13	UMCf	96.6 - 106.6	2.75	<0.129	<0.605	<0.128	<0.116	<0.192	2,150	<0.960	<0.126	<0.111

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
						Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-03D	12/13/2023	N	EM16	UMCf	96.6 - 106.6	1.91	0.573 J	<0.605	0.987 J	<0.116	<0.192	1,600	<0.960	<0.126	<0.111
U4-MW-03D	3/15/2024	N	EM19	UMCf	96.6 - 106.6	1.02	0.203 J	<0.605	<0.128	<0.116	<0.192	882	<0.960	<0.126	<0.111
U4-MW-03D	6/17/2024	N	EM20	UMCf	96.6 - 106.6	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	1,120	<48.0	<6.30	<5.55
U4-MW-03DD	4/20/2022	N	BL02	UMCf	119.7 - 129.7	0.152 J	<0.129	<0.605	<0.128	<0.116	<0.192	173	<0.960	<0.126	<0.111
U4-MW-03DD	3/15/2023	N	EM07	UMCf	119.7 - 129.7	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	4.62 J	<0.960	<0.126	<0.111
U4-MW-03DD	6/15/2023	N	EM10	UMCf	119.7 - 129.7	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	1.95 J	<0.960	<0.126	<0.111
U4-MW-03DD	9/14/2023	N	EM13	UMCf	119.7 - 129.7	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	2.98 J	<0.960	<0.126	<0.111
U4-MW-03DD	12/14/2023	N	EM16	UMCf	119.7 - 129.7	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	2.42 J	<0.960	<0.126	<0.111
U4-MW-03DD	3/14/2024	N	EM19	UMCf	119.7 - 129.7	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	2.21 J	<0.960	<0.126	<0.111
U4-MW-03DD	6/17/2024	N	EM20	UMCf	119.7 - 129.7	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	1.36 J	<0.960	<0.126	<0.111
U4-MW-03I	4/19/2022	N	BL02	UMCf	76.6 - 86.6	0.846 J	0.580 J	<0.605	<0.128	<0.116	<0.192	277	<0.960	<0.126	<0.111
U4-MW-03I	3/15/2023	N	EM07	UMCf	76.6 - 86.6	2.03	0.539 J	<0.605	0.737 J	<0.116	<0.192	1,210 J+	<0.960	<0.126	<0.111
U4-MW-03I	6/14/2023	N	EM10	UMCf	76.6 - 86.6	<2.72	<2.58	<12.1	<2.56	<2.32	<3.84	884 J	<19.2	<2.52	<2.22
U4-MW-03I	6/14/2023	FD	EM10	UMCf	76.6 - 86.6	<3.40	<3.22	<15.1	<3.20	<2.90	<4.80	1,220 J	<24.0	<3.15	<2.78
U4-MW-03I	9/11/2023	N	EM13	UMCf	76.6 - 86.6	2.32	0.674 J	<0.605	1.43	<0.116	<0.192	1,470 J	<0.960	<0.126	<0.111
U4-MW-03I	9/11/2023	FD	EM13	UMCf	76.6 - 86.6	2.14	0.706 J	<0.605	1.17	<0.116	<0.192	912 J	<0.960	<0.126	<0.111
U4-MW-03I	12/13/2023	N	EM16	UMCf	76.6 - 86.6	1.69	0.578 J	<0.605	<0.128	<0.116	<0.192	1,390	<0.960	<0.126	<0.111
U4-MW-03I	12/13/2023	FD	EM16	UMCf	76.6 - 86.6	1.75	0.505 J	<0.605	0.999 J	<0.116	<0.192	1,470 J+	<0.960	<0.126	<0.111
U4-MW-03I	3/14/2024	N	EM19	UMCf	76.6 - 86.6	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	1,100	<48.0	<6.30	<5.55
U4-MW-03I	3/14/2024	FD	EM19	UMCf	76.6 - 86.6	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	1,030	<48.0	<6.30	<5.55
U4-MW-03I	6/19/2024	N	EM20	UMCf	76.6 - 86.6	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	616	<48.0	<6.30	<5.55
U4-MW-03I	6/19/2024	FD	EM20	UMCf	76.6 - 86.6	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	615	<48.0	<6.30	<5.55
U4-MW-03S	4/18/2022	N	BL02	UMCf	54.5 - 64.5	0.176 J	<0.129	<0.605	<0.128	<0.116	<0.192	45.1	<0.960	<0.126	<0.111
U4-MW-03S	4/18/2022	FD	BL02	UMCf	54.5 - 64.5	0.182 J	<0.129	<0.605	<0.128	<0.116	<0.192	44.1	<0.960	<0.126	<0.111
U4-MW-03S	3/15/2023	N	EM07	UMCf	54.5 - 64.5	0.383 J	0.218 J	<0.605	0.312 J	<0.116	<0.192	76.3	<0.960	<0.126	<0.111
U4-MW-03S	6/15/2023	N	EM10	UMCf	54.5 - 64.5	0.259 J	<0.129	<0.605	<0.128	<0.116	<0.192	59.9	<0.960	<0.126	<0.111
U4-MW-03S	9/14/2023	N	EM13	UMCf	54.5 - 64.5	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	81.5	<0.960	<0.126	<0.111
U4-MW-03S	12/13/2023	N	EM16	UMCf	54.5 - 64.5	0.261 J	<0.129	<0.605	<0.128	<0.116	<0.192	70.6	<0.960	<0.126	<0.111
U4-MW-03S	3/14/2024	N	EM19	UMCf	54.5 - 64.5	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	59.2	<0.960	<0.126	<0.111
U4-MW-03S	6/14/2024	N	EM20	UMCf	54.5 - 64.5	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	33.8	<0.960	<0.126	<0.111
U4-MW-04D	4/19/2022	N	BL02	UMCf	97.0 - 107.0	4.27	1.46	<0.605	<0.128	<0.116	<0.192	6,140	<0.960	<0.126	<0.111
U4-MW-04D	2/16/2023	N	EM06	UMCf	97.0 - 107.0	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	1,240	<48.0	<6.30	<5.55
U4-MW-04D	3/21/2023	N	EM07	UMCf	97.0 - 107.0	2.44	<0.129	<0.605	<0.128	<0.116	<0.192	1,160	<0.960	<0.126	<0.111
U4-MW-04D	6/14/2023	N	EM10	UMCf	97.0 - 107.0	1.56	0.221 J	<0.605	<0.128	<0.116	<0.192	891	<0.960	<0.126	<0.111
U4-MW-04D	9/15/2023	N	EM13	UMCf	97.0 - 107.0	1.78	<0.129	<0.605	<0.128	<0.116	<0.192	1,430	<0.960	<0.126	<0.111
U4-MW-04D	12/12/2023	N	EM16	UMCf	97.0 - 107.0	1.26	<0.129	<0.605	<0.128	<0.116	<0.192	979 J+	<0.960	<0.126	<0.111
U4-MW-04D	3/12/2024	N	EM19	UMCf	97.0 - 107.0	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	841	<48.0	<6.30	<5.55
U4-MW-04D	6/19/2024	N	EM20	UMCf	97.0 - 107.0	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	835	<48.0	<6.30	<5.55
U4-MW-04I	4/19/2022	N	BL02	UMCf	76.8 - 86.8	1.86	0.968 J	<0.605	<0.128	<0.116	<0.192	1,830	<0.960	<0.126	<0.111
U4-MW-04I	3/20/2023	N	EM07	UMCf	76.8 - 86.8	2.91	0.558 J	<0.605	1.26	<0.116	<0.192	2,350	<0.960	<0.126	<0.111
U4-MW-04I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	1.90 J	<0.645	<3.03	1.01 J	<0.580	<0.960	2,250	<4.80	<0.630	<0.555
U4-MW-04I	9/14/2023	N	EM13	UMCf	76.8 - 86.8	3.07	<0.129	<0.605	<0.128	<0.116	<0.192	3,860	<0.960	<0.126	<0.111
U4-MW-04I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	4.31	1.09	<0.605	<0.128	<0.116	<0.192	4,550 J+	<0.960	<0.126	<0.111

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
						Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-04I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	<27.2	<25.8	<121	<25.6	<23.2	<38.4	4,860	<192	<25.2	<22.2
U4-MW-04I	6/18/2024	N	EM20	UMCf	76.8 - 86.8	3.63 J	1.23 J	<3.03	1.27 J	<0.580	<0.960	4,240	<4.80	<0.630	<0.555
U4-MW-05D	4/15/2022	N	BL02	UMCf	98.2 - 108.2	14.8	8.45 J-	<0.605	3.80	<0.116	<0.192	6,320	<0.960	<0.126	<0.111
U4-MW-05D	10/13/2022	N	EM02	UMCf	98.2 - 108.2	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	5,350	<96.0	<12.6	<11.1
U4-MW-05D	11/3/2022	N	EM03	UMCf	98.2 - 108.2	11.3	5.15	<0.605	1.89	<0.116	<0.192	3,790	<0.960	<0.126	<0.111
U4-MW-05D	12/7/2022	N	EM04	UMCf	98.2 - 108.2	12.9	6.25	<0.605	<0.128	<0.116	<0.192	3,950	<0.960	<0.126	<0.111
U4-MW-05D	1/11/2023	N	EM05	UMCf	98.2 - 108.2	11.2	5.71	<0.605	<0.128	<0.116	<0.192	3,990	<0.960	<0.126	<0.111
U4-MW-05D	2/14/2023	N	EM06	UMCf	98.2 - 108.2	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	2,590	<96.0	<12.6	<11.1
U4-MW-05D	3/16/2023	N	EM07	UMCf	98.2 - 108.2	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	2,710 J+	<96.0	<12.6	<11.1
U4-MW-05D	4/20/2023	N	EM08	UMCf	98.2 - 108.2	5.26	1.92	<0.605	0.960 J	<0.116	<0.192	1,950	<0.960	<0.126	<0.111
U4-MW-05D	5/10/2023	N	EM09	UMCf	98.2 - 108.2	4.76	1.58	<0.605	<0.128	<0.116	<0.192	1,630	<0.960	<0.126	<0.111
U4-MW-05D	6/15/2023	N	EM10	UMCf	98.2 - 108.2	2.36	0.972 J	<0.605	<0.128	<0.116	<0.192	1,510 J+	<0.960	<0.126	<0.111
U4-MW-05D	7/18/2023	N	EM11	UMCf	98.2 - 108.2	2.89	1.40	<0.605	<0.128	<0.116	<0.192	1,950	<0.960	<0.126	<0.111
U4-MW-05D	8/14/2023	N	EM12	UMCf	98.2 - 108.2	<3.40	<3.22	<15.1	<3.20	<2.90	<4.80	2,150	<24.0	<3.15	<2.78
U4-MW-05D	9/12/2023	N	EM13	UMCf	98.2 - 108.2	<3.40	<3.22	<15.1	<3.20	<2.90	<4.80	756	<24.0	<3.15	<2.78
U4-MW-05D	10/18/2023	N	EM14	UMCf	98.2 - 108.2	<3.40	<3.22	<15.1	<3.20	<2.90	<4.80	1,010	<24.0	<3.15	<2.78
U4-MW-05D	11/16/2023	N	EM15	UMCf	98.2 - 108.2	<3.40	<3.22	<15.1	<3.20	<2.90	<4.80	1,670	<24.0	<3.15	<2.78
U4-MW-05D	12/14/2023	N	EM16	UMCf	98.2 - 108.2	<3.40	<3.22	<15.1	<3.20	<2.90	<4.80	915	<24.0	4.69 J	<2.78
U4-MW-05D	1/26/2024	N	EM17	UMCf	98.2 - 108.2	3.21	1.22	<0.605	<0.128	<0.116	<0.192	2,050 J+	<0.960	<0.126	<0.111
U4-MW-05D	2/14/2024	N	EM18	UMCf	98.2 - 108.2	3.43	1.30	<0.605	<0.128	<0.116	<0.192	2,010	<0.960	<0.126	<0.111
U4-MW-05D	3/12/2024	N	EM19	UMCf	98.2 - 108.2	<3.40	<3.22	<15.1	<3.20	<2.90	<4.80	850	<24.0	<3.15	<2.78
U4-MW-05D	6/18/2024	N	EM20	UMCf	98.2 - 108.2	2.95	0.806 J	<0.605	<0.128	<0.116	<0.192	1,730	<0.960	<0.126	<0.111
U4-MW-05I	4/15/2022	N	BL02	UMCf	76.6 - 86.6	9.46	5.71 J-	<0.605	2.53	<0.116	<0.192	3,530	<0.960	<0.126	<0.111
U4-MW-05I	10/13/2022	N	EM02	UMCf	76.6 - 86.6	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	5,930	<96.0	<12.6	<11.1
U4-MW-05I	11/3/2022	N	EM03	UMCf	76.6 - 86.6	15.2	8.95	<0.605	3.70	<0.116	<0.192	5,800	<0.960	<0.126	<0.111
U4-MW-05I	12/8/2022	N	EM04	UMCf	76.6 - 86.6	14.5	8.16	<0.605	3.07	<0.116	<0.192	3,970	<0.960	<0.126	<0.111
U4-MW-05I	1/11/2023	N	EM05	UMCf	76.6 - 86.6	12.4	6.41	<0.605	2.70	<0.116	<0.192	4,040	<96.0	<0.126	<0.111
U4-MW-05I	2/14/2023	N	EM06	UMCf	76.6 - 86.6	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	3,270	<96.0	<12.6	<11.1
U4-MW-05I	3/14/2023	N	EM07	UMCf	76.6 - 86.6	20.3 J	<12.9	<60.5	<12.8	<11.6	<19.2	6,720	<96.0	<12.6	<11.1
U4-MW-05I	4/21/2023	N	EM08	UMCf	76.6 - 86.6	2.29	0.809 J	<0.605	0.368 J	<0.116	<0.192	646 J+	<0.960	<0.126	<0.111
U4-MW-05I	5/10/2023	N	EM09	UMCf	76.6 - 86.6	0.375 J	<0.129	<0.605	<0.128	<0.116	<0.192	531	<0.960	<0.126	<0.111
U4-MW-05I	6/15/2023	N	EM10	UMCf	76.6 - 86.6	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	415 J+	<0.960	<0.126	<0.111
U4-MW-05I	7/17/2023	N	EM11	UMCf	76.6 - 86.6	3.26	1.21	<0.605	0.471 J	<0.116	<0.192	1,830	<0.960	<0.126	<0.111
U4-MW-05I	8/14/2023	N	EM12	UMCf	76.6 - 86.6	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	1,620	<48.0	8.24 J	<5.55
U4-MW-05I	9/13/2023	N	EM13	UMCf	76.6 - 86.6	1.72	0.525 J	<0.605	0.192 J	<0.116	<0.192	985	<0.960	<0.126	<0.111
U4-MW-05I	10/18/2023	N	EM14	UMCf	76.6 - 86.6	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	920	<48.0	<6.30	<5.55
U4-MW-05I	11/15/2023	N	EM15	UMCf	76.6 - 86.6	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	1,310	<48.0	<6.30	<5.55
U4-MW-05I	12/12/2023	N	EM16	UMCf	76.6 - 86.6	2.15	0.759 J	<0.605	<0.128	<0.116	<0.192	1,800 J+	<0.960	<0.126	<0.111
U4-MW-05I	1/26/2024	N	EM17	UMCf	76.6 - 86.6	3.28	1.17	<0.605	<0.128	<0.116	<0.192	2,400 J+	<0.960	<0.126	<0.111
U4-MW-05I	2/14/2024	N	EM18	UMCf	76.6 - 86.6	2.72	1.02	<0.605	<0.128	<0.116	<0.192	2,380	<0.960	<0.126	<0.111
U4-MW-05I	3/11/2024	N	EM19	UMCf	76.6 - 86.6	2.82	0.820 J	<0.605	<0.128	<0.116	<0.192	2,010	<0.960	<0.126	<0.111
U4-MW-05I	6/18/2024	N	EM20	UMCf	76.6 - 86.6	2.36	0.701 J	<0.605	<0.128	<0.116	<0.192	2,190	<0.960	<0.126	<0.111
U4-MW-06D	4/19/2022	N	BL02	UMCf	97.1 - 107.1	10.0	5.10	<0.605	<0.128	<0.116	<0.192	4,840	<0.960	<0.126	<0.111

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						Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-06D	2/15/2023	N	EM06	UMCf	97.1 - 107.1	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	2,110	<48.0	<6.30	<5.55
U4-MW-06D	3/21/2023	N	EM07	UMCf	97.1 - 107.1	6.74	1.89	<0.605	<0.128	<0.116	<0.192	2,440 J+	<0.960	<0.126	<0.111
U4-MW-06D	6/16/2023	N	EM10	UMCf	97.1 - 107.1	4.96	1.48	<0.605	1.13	<0.116	<0.192	1,920	<0.960	<0.126	<0.111
U4-MW-06D	9/13/2023	N	EM13	UMCf	97.1 - 107.1	3.65	0.843 J	<0.605	<0.128	<0.116	<0.192	1,650	<0.960	<0.126	<0.111
U4-MW-06D	12/13/2023	N	EM16	UMCf	97.1 - 107.1	4.15	1.63	<0.605	<0.128	<0.116	<0.192	1,950	<0.960	<0.126	<0.111
U4-MW-06D	3/14/2024	N	EM19	UMCf	97.1 - 107.1	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	1,740	<48.0	<6.30	<5.55
U4-MW-06D	6/12/2024	N	EM20	UMCf	97.1 - 107.1	2.16	0.895 J	<0.605	<0.128	<0.116	<0.192	1,190	<0.960	<0.126	<0.111
U4-MW-06I	4/19/2022	N	BL02	UMCf	76.5 - 86.5	0.674 J	0.297 J	<0.605	<0.128	<0.116	<0.192	217	<0.960	<0.126	<0.111
U4-MW-06I	3/14/2023	N	EM07	UMCf	76.5 - 86.5	7.41	4.03	<0.605	1.67	<0.116	<0.192	3,220	<0.960	<0.126	<0.111
U4-MW-06I	6/16/2023	N	EM10	UMCf	76.5 - 86.5	6.36	2.39	<0.605	1.75	<0.116	<0.192	2,420	<0.960	<0.126	<0.111
U4-MW-06I	9/12/2023	N	EM13	UMCf	76.5 - 86.5	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	2,620	<48.0	<6.30	<5.55
U4-MW-06I	12/12/2023	N	EM16	UMCf	76.5 - 86.5	6.15	2.38	<0.605	<0.128	<0.116	<0.192	2,770 J+	<0.960	<0.126	<0.111
U4-MW-06I	3/14/2024	N	EM19	UMCf	76.5 - 86.5	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	2,950	<96.0	<12.6	<11.1
U4-MW-06I	6/11/2024	N	EM20	UMCf	76.5 - 86.5	4.08	1.32	<0.605	0.549 J	<0.116	<0.192	2,210	<0.960	<0.126	<0.111
U4-MW-07D	4/15/2022	N	BL02	UMCf	96.8 - 106.5	1.13	0.515 J	<0.605	0.461 J	0.137 J	<0.192	1,330	<0.960	<0.126	<0.111
U4-MW-07D	10/12/2022	N	EM02	UMCf	96.8 - 106.5	3.77	0.211 J	<0.605	0.373 J	<0.116	<0.192	113	<0.960	<0.126	<0.111
U4-MW-07D	10/12/2022	FD	EM02	UMCf	96.8 - 106.5	2.98	0.201 J	<0.605	<0.128	<0.116	<0.192	95.5	<0.960	<0.126	<0.111
U4-MW-07D	11/3/2022	N	EM03	UMCf	96.8 - 106.5	3.76	0.280 J	<0.605	<0.128	<0.116	<0.192	146	<0.960	<0.126	<0.111
U4-MW-07D	12/7/2022	N	EM04	UMCf	96.8 - 106.5	3.77	0.338 J	<0.605	<0.128	<0.116	<0.192	101	<0.960	<0.126	<0.111
U4-MW-07D	1/11/2023	N	EM05	UMCf	96.8 - 106.5	2.84	<0.129	<0.605	<0.128	<0.116	<0.192	119	<0.960	<0.126	<0.111
U4-MW-07D	2/14/2023	N	EM06	UMCf	96.8 - 106.5	1.38	<0.129	<0.605	<0.128	<0.116	<0.192	92.3	<0.960	<0.126	<0.111
U4-MW-07D	3/16/2023	N	EM07	UMCf	96.8 - 106.5	1.21	<0.129	<0.605	<0.128	<0.116	<0.192	75.1	<0.960	<0.126	<0.111
U4-MW-07D	4/21/2023	N	EM08	UMCf	96.8 - 106.5	0.461 J	<0.129	<0.605	<0.128	<0.116	<0.192	267 J+	<0.960	<0.126	<0.111
U4-MW-07D	5/11/2023	N	EM09	UMCf	96.8 - 106.5	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	98.3	<0.960	<0.126	<0.111
U4-MW-07D	6/13/2023	N	EM10	UMCf	96.8 - 106.5	0.363 J	0.563 J	<0.605 UJ	<0.128 UJ	<0.116 UJ	<0.192 UJ	205 J	<0.960 UJ	<0.126 UJ	<0.111 UJ
U4-MW-07D	7/17/2023	N	EM11	UMCf	96.8 - 106.5	3.88	1.52	<0.605	1.31	<0.116	<0.192	2,740	<0.960	<0.126	<0.111
U4-MW-07D	8/11/2023	N	EM12	UMCf	96.8 - 106.5	3.93	<0.129	<0.605	<0.128	<0.116	<0.192	3,100	<0.960	<0.126	<0.111
U4-MW-07D	9/13/2023	N	EM13	UMCf	96.8 - 106.5	2.06	0.654 J	<0.605	0.698 J	<0.116	<0.192	1,940	<0.960	<0.126	<0.111
U4-MW-07D	10/18/2023	N	EM14	UMCf	96.8 - 106.5	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	2,400	<96.0	<12.6	<11.1
U4-MW-07D	11/16/2023	N	EM15	UMCf	96.8 - 106.5	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	2,840	<96.0	<12.6	<11.1
U4-MW-07D	12/12/2023	N	EM16	UMCf	96.8 - 106.5	<0.136	0.468 J	<0.605	<0.128	<0.116	<0.192	1,590 J+	<0.960	<0.126	<0.111
U4-MW-07D	1/26/2024	N	EM17	UMCf	96.8 - 106.5	0.955 J	<0.129	<0.605	<0.128	<0.116	<0.192	1,230 J+	<0.960	<0.126	<0.111
U4-MW-07D	2/13/2024	N	EM18	UMCf	96.8 - 106.5	<3.40	<3.22	<15.1	<3.20	<2.90	<4.80	779	<24.0	<3.15	<2.78
U4-MW-07D	3/11/2024	N	EM19	UMCf	96.8 - 106.5	<3.40	<3.22	<15.1	<3.20	<2.90	<4.80	757	<24.0	<3.15	<2.78
U4-MW-07D	6/12/2024	N	EM20	UMCf	96.8 - 106.5	<0.136	<0.129	<0.605	<0.128	<0.116	0.317 J	1,240	<0.960	<0.126	<0.111
U4-MW-07I	4/15/2022	N	BL02	UMCf	76.8 - 86.8	0.676 J	0.206 J	<0.605	0.313 J	<0.116	<0.192	373	<0.960	<0.126	<0.111
U4-MW-07I	10/12/2022	N	EM02	UMCf	76.8 - 86.8	5.11	0.403 J	<0.605	0.425 J	<0.116	<0.192	164	<0.960	<0.126	<0.111
U4-MW-07I	11/3/2022	N	EM03	UMCf	76.8 - 86.8	3.61	0.321 J	<0.605	<0.128	<0.116	<0.192	153	<0.960	<0.126	<0.111
U4-MW-07I	12/7/2022	N	EM04	UMCf	76.8 - 86.8	4.08	0.353 J	<0.605	<0.128	<0.116	<0.192	129	<0.960	<0.126	<0.111
U4-MW-07I	1/11/2023	N	EM05	UMCf	76.8 - 86.8	2.79	0.162 J	<0.605	<0.128	<0.116	<0.192	154	<4.80	<0.126	<0.111
U4-MW-07I	2/15/2023	N	EM06	UMCf	76.8 - 86.8	1.57	0.149 J	<0.605	<0.128	<0.116	<0.192	180	<0.960	<0.126	<0.111
U4-MW-07I	3/16/2023	N	EM07	UMCf	76.8 - 86.8	1.40 J	<0.645	<3.03	<0.640	<0.580	<0.960	250	<4.80	<0.630	<0.555
U4-MW-07I	4/21/2023	N	EM08	UMCf	76.8 - 86.8	1.82	0.262 J	<0.605	0.333 J	<0.116	<0.192	578 J+	<0.960	<0.126	<0.111

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
						Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-07I	5/11/2023	N	EM09	UMCf	76.8 - 86.8	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	344	<0.960	<0.126	<0.111
U4-MW-07I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<0.680	<0.645	<3.03	<0.640	<0.580	<0.960	131	<4.80	<0.630	<0.555
U4-MW-07I	7/17/2023	N	EM11	UMCf	76.8 - 86.8	2.26	0.574 J	<0.605	<0.128	<0.116	<0.192	2,180	<0.960	<0.126	<0.111
U4-MW-07I	8/11/2023	N	EM12	UMCf	76.8 - 86.8	2.01	<0.129	<0.605	<0.128	<0.116	<0.192	1,730	<0.960	<0.126	<0.111
U4-MW-07I	9/13/2023	N	EM13	UMCf	76.8 - 86.8	1.68	0.394 J	<0.605	<0.128	<0.116	<0.192	1,600	<0.960	<0.126	<0.111
U4-MW-07I	10/18/2023	N	EM14	UMCf	76.8 - 86.8	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	1,370	<48.0	<6.30	<5.55
U4-MW-07I	11/16/2023	N	EM15	UMCf	76.8 - 86.8	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	1,750	<48.0	<6.30	<5.55
U4-MW-07I	12/11/2023	N	EM16	UMCf	76.8 - 86.8	<0.136	0.663 J	<0.605	<0.128	<0.116	<0.192	1,880	<0.960	<0.126	<0.111
U4-MW-07I	1/26/2024	N	EM17	UMCf	76.8 - 86.8	1.39	0.732 J	<0.605	<0.128	<0.116	<0.192	2,340 J+	<0.960	<0.126	<0.111
U4-MW-07I	2/13/2024	N	EM18	UMCf	76.8 - 86.8	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	1,140	<48.0	<6.30	<5.55
U4-MW-07I	3/11/2024	N	EM19	UMCf	76.8 - 86.8	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	2,350	<48.0	<6.30	<5.55
U4-MW-07I	6/12/2024	N	EM20	UMCf	76.8 - 86.8	1.09	<0.129	<0.605	<0.128	<0.116	0.388 J	1,500	<0.960	<0.126	<0.111
U4-MW-08D	4/13/2022	N	BL02	UMCf	98.6 - 108.6	<0.136	0.452 J	<0.605	<0.128	<0.116	<0.192	10,300 J+	<0.960	<0.126	<0.111
U4-MW-08D	12/7/2022	N	EM04	UMCf	98.6 - 108.6	3.42	0.921 J	<0.605	1.85	<0.116	<0.192	4,240	<0.960	<0.126	<0.111
U4-MW-08D	3/17/2023	N	EM07	UMCf	98.6 - 108.6	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	4,220	<96.0	<12.6	<11.1
U4-MW-08D	6/13/2023	N	EM10	UMCf	98.6 - 108.6	2.36	0.768 J	<0.605	<0.128	<0.116	<0.192	5,060	<0.960	<0.126	<0.111
U4-MW-08D	9/13/2023	N	EM13	UMCf	98.6 - 108.6	5.95	1.99	<0.605	3.03	<0.116	<0.192	7,970	<0.960	<0.126	<0.111
U4-MW-08D	12/11/2023	N	EM16	UMCf	98.6 - 108.6	<0.136	1.41	<0.605	<0.128	<0.116	<0.192	6,060	<0.960	<0.126	<0.111
U4-MW-08D	3/12/2024	N	EM19	UMCf	98.6 - 108.6	<27.2	<25.8	<121	<25.6	<23.2	<38.4	4,480	<192	<25.2	<22.2
U4-MW-08D	6/14/2024	N	EM20	UMCf	98.6 - 108.6	<27.2	<25.8	<121	<25.6	<23.2	<38.4	6,790	<192	<25.2	<22.2
U4-MW-08DD	4/20/2022	N	BL02	UMCf	119.8 - 129.8	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	90.2	<0.960	<0.126	<0.111
U4-MW-08DD	4/20/2022	FD	BL02	UMCf	119.8 - 129.8	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	85.4	<0.960	<0.126	<0.111
U4-MW-08DD	12/8/2022	N	EM04	UMCf	119.8 - 129.8	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	28.1	<0.960	<0.126	<0.111
U4-MW-08DD	3/15/2023	N	EM07	UMCf	119.8 - 129.8	0.192 J	<0.129	<0.605	0.251 J	<0.116	<0.192	126	<0.960	<0.126	<0.111
U4-MW-08DD	6/14/2023	N	EM10	UMCf	119.8 - 129.8	0.148 J	<0.129	<0.605	<0.128	<0.116	<0.192	97.5	<0.960	<0.126	<0.111
U4-MW-08DD	9/14/2023	N	EM13	UMCf	119.8 - 129.8	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	64.9	<0.960	<0.126	<0.111
U4-MW-08DD	12/14/2023	N	EM16	UMCf	119.8 - 129.8	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	52.7	<0.960	<0.126	<0.111
U4-MW-08DD	3/14/2024	N	EM19	UMCf	119.8 - 129.8	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	46.9	<0.960	<0.126	<0.111
U4-MW-08DD	6/12/2024	N	EM20	UMCf	119.8 - 129.8	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	43.2	<0.960	<0.126	<0.111
U4-MW-08I	4/13/2022	N	BL02	UMCf	78.0 - 88.0	5.72	2.19	<0.605	2.14	<0.116	<0.192	1,100 J+	<0.960	<0.126	<0.111
U4-MW-08I	12/7/2022	N	EM04	UMCf	78.0 - 88.0	2.33	1.08	<0.605	1.46	<0.116	<0.192	2,660	<0.960	<0.126	<0.111
U4-MW-08I	12/7/2022	FD	EM04	UMCf	78.0 - 88.0	2.52	1.14	<0.605	1.40	<0.116	<0.192	2,560	<0.960	<0.126	<0.111
U4-MW-08I	3/17/2023	N	EM07	UMCf	78.0 - 88.0	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	5,210	<48.0	<6.30	<5.55
U4-MW-08I	6/13/2023	N	EM10	UMCf	78.0 - 88.0	1.34	0.411 J	<0.605	<0.128	<0.116	<0.192	1,520	<0.960	<0.126	<0.111
U4-MW-08I	9/13/2023	N	EM13	UMCf	78.0 - 88.0	3.80	0.489 J	<0.605	1.84	<0.116	<0.192	3,410	<0.960	<0.126	<0.111
U4-MW-08I	12/11/2023	N	EM16	UMCf	78.0 - 88.0	<0.136	1.41	<0.605	<0.128	<0.116	<0.192	4,500 J-	<0.960	<0.126	<0.111
U4-MW-08I	3/12/2024	N	EM19	UMCf	78.0 - 88.0	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	3,770	<96.0	<12.6	<11.1
U4-MW-08I	6/14/2024	N	EM20	UMCf	78.0 - 88.0	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	4,030	<96.0	<12.6	<11.1
U4-MW-08S	4/15/2022	N	BL02	UMCf	54.9 - 64.9	0.213 J	<0.129 UJ	<0.605	<0.128	<0.116	<0.192	38.2	<0.960	<0.126	<0.111
U4-MW-08S	12/7/2022	N	EM04	UMCf	54.9 - 64.9	0.290 J	<0.129	<0.605	<0.128	<0.116	<0.192	15.0	<0.960	<0.126	<0.111
U4-MW-08S	12/7/2022	FD	EM04	UMCf	54.9 - 64.9	0.275 J	<0.129	<0.605	<0.128	<0.116	<0.192	15.4	<0.960	<0.126	<0.111
U4-MW-08S	3/13/2023	N	EM07	UMCf	54.9 - 64.9	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	0.792 J	<0.960	<0.126	<0.111
U4-MW-08S	3/13/2023	FD	EM07	UMCf	54.9 - 64.9	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	0.964 J	<0.960	<0.126	<0.111

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
						Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-08S	6/13/2023	N	EM10	UMCf	54.9 - 64.9	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	2.78 J	<0.960	<0.126	<0.111
U4-MW-08S	6/13/2023	FD	EM10	UMCf	54.9 - 64.9	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	3.05 J	<0.960	<0.126	<0.111
U4-MW-08S	9/13/2023	N	EM13	UMCf	54.9 - 64.9	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	<0.111	<0.960	<0.126	<0.111
U4-MW-08S	9/13/2023	FD	EM13	UMCf	54.9 - 64.9	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	<0.111	<0.960	<0.126	<0.111
U4-MW-08S	12/14/2023	N	EM16	UMCf	54.9 - 64.9	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	<0.111	<0.960	<0.126	<0.111
U4-MW-08S	12/14/2023	FD	EM16	UMCf	54.9 - 64.9	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	0.174 J	<0.960	<0.126	<0.111
U4-MW-08S	3/14/2024	N	EM19	UMCf	54.9 - 64.9	<0.272 UJ	<0.258 UJ	<1.21 UJ	<0.256 UJ	<0.232 UJ	<0.384 UJ	0.229 J	<1.92 UJ	<0.252 UJ	<0.222 UJ
U4-MW-08S	3/14/2024	FD	EM19	UMCf	54.9 - 64.9	<0.272 UJ	<0.258 UJ	<1.21 UJ	<0.256 UJ	<0.232 UJ	<0.384 UJ	0.770 J	<1.92 UJ	<0.252 UJ	<0.222 UJ
U4-MW-08S	3/25/2024	N	EM19	UMCf	54.9 - 64.9	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	<0.111	<0.960	<0.126	<0.111
U4-MW-08S	3/25/2024	FD	EM19	UMCf	54.9 - 64.9	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	<0.111	<0.960	<0.126	<0.111
U4-MW-08S	6/14/2024	N	EM20	UMCf	54.9 - 64.9	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	0.267 J	<0.960	<0.126	<0.111
U4-MW-08S	6/14/2024	FD	EM20	UMCf	54.9 - 64.9	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	<0.111	<0.960	<0.126	<0.111
U4-MW-09D	4/14/2022	N	BL02	UMCf	96.9 - 106.9	1.86	0.936 J	<0.605	0.488 J	<0.116	<0.192	2,940	<0.960	<0.126	<0.111
U4-MW-09D	12/6/2022	N	EM04	UMCf	96.9 - 106.9	3.78 J	<1.29 UJ	<6.05 UJ	2.57 J	<1.16 UJ	<1.92 UJ	602	<9.60 UJ	<1.26 UJ	<1.11 UJ
U4-MW-09D	3/16/2023	N	EM07	UMCf	96.9 - 106.9	<1.36	<1.29	<6.05	<1.28	<1.16	<1.92	525	<9.60	<1.26	<1.11
U4-MW-09D	6/14/2023	N	EM10	UMCf	96.9 - 106.9	0.372 J	<0.129	<0.605	<0.128	<0.116	<0.192	360	<0.960	<0.126	<0.111
U4-MW-09D	9/12/2023	N	EM13	UMCf	96.9 - 106.9	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	609 J	<0.960	<0.126	<0.111
U4-MW-09D	12/15/2023	N	EM16	UMCf	96.9 - 106.9	<3.40 UJ	<3.22 UJ	<15.1 UJ	<3.20 UJ	<2.90 UJ	<4.80 UJ	558 J-	<24.0 UJ	<3.15 UJ	<2.78 UJ
U4-MW-09D	3/13/2024	N	EM19	UMCf	96.9 - 106.9	0.189 J	<0.129	<0.605	<0.128	<0.116	<0.192	419	<0.960	<0.126	<0.111
U4-MW-09D	6/13/2024	N	EM20	UMCf	96.9 - 106.9	0.362 J	<0.129	<0.605	<0.128	<0.116	<0.192	411	<0.960	<0.126	<0.111
U4-MW-09DD	4/14/2022	N	BL02	UMCf	119.8 - 129.8	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	21.9	<0.960	<0.126	<0.111
U4-MW-09DD	12/6/2022	N	EM04	UMCf	119.8 - 129.8	<0.136 UJ	<0.129 UJ	<0.605 UJ	<0.128 UJ	<0.116 UJ	<0.192 UJ	12.5	<0.960 UJ	<0.126 UJ	<0.111 UJ
U4-MW-09DD	3/21/2023	N	EM07	UMCf	119.8 - 129.8	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	15.9 J+	<0.960	<0.126	<0.111
U4-MW-09DD	6/15/2023	N	EM10	UMCf	119.8 - 129.8	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	12.8	<0.960	<0.126	<0.111
U4-MW-09DD	9/13/2023	N	EM13	UMCf	119.8 - 129.8	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	24.0	<0.960	<0.126	<0.111
U4-MW-09DD	12/13/2023	N	EM16	UMCf	119.8 - 129.8	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	21.1 J+	<0.960	<0.126	<0.111
U4-MW-09DD	3/14/2024	N	EM19	UMCf	119.8 - 129.8	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	23.2	<0.960	<0.126	<0.111
U4-MW-09DD	6/13/2024	N	EM20	UMCf	119.8 - 129.8	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	11.3	<0.960	<0.126	<0.111
U4-MW-09I	4/14/2022	N	BL02	UMCf	76.8 - 86.8	0.516 J	0.526 J	<0.605	0.384 J	<0.116	<0.192	130	<0.960	<0.126	<0.111
U4-MW-09I	12/6/2022	N	EM04	UMCf	76.8 - 86.8	4.46 J	<1.29 UJ	<6.05 UJ	2.97 J	<1.16 UJ	<1.92 UJ	1,150	<9.60 UJ	<1.26 UJ	<1.11 UJ
U4-MW-09I	3/16/2023	N	EM07	UMCf	76.8 - 86.8	2.16 J	<1.29	<6.05	<1.28	<1.16	<1.92	767	<9.60	<1.26	<1.11
U4-MW-09I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	0.718 J	0.136 J	<0.605	<0.128	<0.116	<0.192	501	<0.960	<0.126	<0.111
U4-MW-09I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	849 J	<0.960	<0.126	<0.111
U4-MW-09I	12/15/2023	N	EM16	UMCf	76.8 - 86.8	<3.40 UJ	<3.22 UJ	<15.1 UJ	<3.20 UJ	<2.90 UJ	<4.80 UJ	611 J-	<24.0 UJ	<3.15 UJ	<2.78 UJ
U4-MW-09I	3/13/2024	N	EM19	UMCf	76.8 - 86.8	0.196 J	<0.129	<0.605	<0.128	<0.116	<0.192	505	<0.960	<0.126	<0.111
U4-MW-09I	6/13/2024	N	EM20	UMCf	76.8 - 86.8	0.679 J	0.273 J	<0.605	<0.128	<0.116	<0.192	573	<0.960	<0.126	<0.111
U4-MW-09S	4/14/2022	N	BL02	UMCf	55.3 - 65.3	0.248 J	<0.129	<0.605	<0.128	<0.116	<0.192	20.3	<0.960	<0.126	<0.111
U4-MW-09S	12/6/2022	N	EM04	UMCf	55.3 - 65.3	0.450 J	<0.129 UJ	<0.605 UJ	0.464 J	<0.116 UJ	<0.192 UJ	135	<0.960 UJ	<0.126 UJ	<0.111 UJ
U4-MW-09S	3/17/2023	N	EM07	UMCf	55.3 - 65.3	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	148	<0.960	<0.126	<0.111
U4-MW-09S	6/15/2023	N	EM10	UMCf	55.3 - 65.3	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	24.2	<0.960	<0.126	<0.111
U4-MW-09S	9/13/2023	N	EM13	UMCf	55.3 - 65.3	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	47.0	<0.960	<0.126	<0.111
U4-MW-09S	12/12/2023	N	EM16	UMCf	55.3 - 65.3	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	785 J+	<0.960	<0.126	<0.111
U4-MW-09S	3/13/2024	N	EM19	UMCf	55.3 - 65.3	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	67.4	<0.960	0.136 J	<0.111

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
						Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-09S	6/13/2024	N	EM20	UMCf	55.3 - 65.3	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	2.35 J	<0.960	<0.126	<0.111
U4-MW-10D	4/14/2022	N	BL02	UMCf	96.9 - 106.9	0.213 J	0.477 J	<0.605	<0.128	<0.116	<0.192	316	<0.960	<0.126	<0.111
U4-MW-10D	12/5/2022	N	EM04	UMCf	96.9 - 106.9	0.138 J	<0.129	<0.605	<0.128	<0.116	<0.192	153	<0.960	<0.126	<0.111
U4-MW-10D	3/17/2023	N	EM07	UMCf	96.9 - 106.9	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	46.5	<0.960	<0.126	<0.111
U4-MW-10D	6/14/2023	N	EM10	UMCf	96.9 - 106.9	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	0.843 J	<0.960	<0.126	<0.111
U4-MW-10D	9/13/2023	N	EM13	UMCf	96.9 - 106.9	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	52.5	<0.960	<0.126	<0.111
U4-MW-10D	12/14/2023	N	EM16	UMCf	96.9 - 106.9	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	25.9	<0.960	<0.126	<0.111
U4-MW-10D	3/14/2024	N	EM19	UMCf	96.9 - 106.9	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	45.2	<0.960	<0.126	<0.111
U4-MW-10D	6/11/2024	N	EM20	UMCf	96.9 - 106.9	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	36.2	<0.960	<0.126	<0.111
U4-MW-10I	4/14/2022	N	BL02	UMCf	77.1 - 87.1	0.790 J	0.558 J	<0.605	0.491 J	<0.116	<0.192	695	<0.960	<0.126	<0.111
U4-MW-10I	12/5/2022	N	EM04	UMCf	77.1 - 87.1	0.387 J	<0.129	<0.605	<0.128	<0.116	<0.192	33.1	<0.960	<0.126	<0.111
U4-MW-10I	3/17/2023	N	EM07	UMCf	77.1 - 87.1	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	180	<0.960	<0.126	<0.111
U4-MW-10I	6/14/2023	N	EM10	UMCf	77.1 - 87.1	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	18.0	<0.960	<0.126	<0.111
U4-MW-10I	9/13/2023	N	EM13	UMCf	77.1 - 87.1	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	30.1	<0.960	<0.126	<0.111
U4-MW-10I	12/14/2023	N	EM16	UMCf	77.1 - 87.1	0.484 J	<0.129	<0.605	<0.128	<0.116	<0.192	1,400	<0.960	<0.126	<0.111
U4-MW-10I	3/13/2024	N	EM19	UMCf	77.1 - 87.1	1.15	0.531 J	<0.605	0.840 J	<0.116	<0.192	2,810	<0.960	0.145 J	<0.111
U4-MW-10I	6/11/2024	N	EM20	UMCf	77.1 - 87.1	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	273	<0.960	<0.126	<0.111
U4-MW-11D	4/15/2022	N	BL02	UMCf	97.4 - 107.4	2.44	0.612 J	<0.605	2.22	<0.116	<0.192	5,540	<0.960	<0.126	<0.111
U4-MW-11D	9/26/2022	N	EM01	UMCf	97.4 - 107.4	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	8,910	<48.0	<6.30	<5.55
U4-MW-11D	10/11/2022	N	EM02	UMCf	97.4 - 107.4	1.68 J	<1.29	<6.05	6.48 J	<1.16	<1.92	6,480	<9.60	<1.26	<1.11
U4-MW-11D	11/1/2022	N	EM03	UMCf	97.4 - 107.4	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	8,490	<48.0	<6.30	<5.55
U4-MW-11D	12/6/2022	N	EM04	UMCf	97.4 - 107.4	<3.40 UJ	<3.22 UJ	<15.1 UJ	7.62 J	<2.90 UJ	<4.80 UJ	5,290	<24.0 UJ	<3.15 UJ	<2.78 UJ
U4-MW-11D	1/12/2023	N	EM05	UMCf	97.4 - 107.4	<27.2	<25.8	<121	<25.6	<23.2	<38.4	6,580	<192	<25.2	<22.2
U4-MW-11D	2/14/2023	N	EM06	UMCf	97.4 - 107.4	<27.2	<25.8	<121	<25.6	<23.2	<38.4	7,100	<192	<25.2	<22.2
U4-MW-11D	3/16/2023	N	EM07	UMCf	97.4 - 107.4	<27.2	<25.8	<121	<25.6	<23.2	<38.4	5,710 J+	<192	<25.2	<22.2
U4-MW-11D	4/18/2023	N	EM08	UMCf	97.4 - 107.4	1.39 J	<0.645	<3.03	1.30 J	<0.580	<0.960	3,870	<4.80	<0.630	<0.555
U4-MW-11D	5/17/2023	N	EM09	UMCf	97.4 - 107.4	<2.72 UJ	<2.58 UJ	<12.1 UJ	<2.56 UJ	<2.32 UJ	<3.84 UJ	4,000 J-	<19.2 UJ	<2.52 UJ	<2.22 UJ
U4-MW-11D	6/16/2023	N	EM10	UMCf	97.4 - 107.4	2.37	0.836 J	<0.605	5.26	<0.116	<0.192	6,060	<0.960	<0.126	<0.111
U4-MW-11D	7/14/2023	N	EM11	UMCf	97.4 - 107.4	1.68	0.712 J	<0.605	1.98	<0.116	<0.192	5,610	<0.960	<0.126	<0.111
U4-MW-11D	8/14/2023	N	EM12	UMCf	97.4 - 107.4	<27.2	<25.8	<121	<25.6	<23.2	<38.4	6,900	<192	<25.2	<22.2
U4-MW-11D	9/13/2023	N	EM13	UMCf	97.4 - 107.4	1.87	0.509 J	<0.605	1.98	<0.116	<0.192	5,440	<0.960	<0.126	<0.111
U4-MW-11D	10/18/2023	N	EM14	UMCf	97.4 - 107.4	<27.2	<25.8	<121	<25.6	<23.2	<38.4	3,100	<192	<25.2	<22.2
U4-MW-11D	11/16/2023	N	EM15	UMCf	97.4 - 107.4	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	4,930	<48.0	<6.30	<5.55
U4-MW-11D	12/13/2023	N	EM16	UMCf	97.4 - 107.4	1.26	0.411 J	<0.605	1.78	<0.116	<0.192	4,440	<0.960	<0.126	<0.111
U4-MW-11D	1/25/2024	N	EM17	UMCf	97.4 - 107.4	1.27	0.447 J	<0.605	<0.128	<0.116	<0.192	5,430 J+	<0.960	<0.126	<0.111
U4-MW-11D	2/14/2024	N	EM18	UMCf	97.4 - 107.4	1.06	0.165 J	<0.605	<0.128	<0.116	<0.192	4,590	<0.960	<0.126	<0.111
U4-MW-11D	3/12/2024	N	EM19	UMCf	97.4 - 107.4	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	4,640	<96.0	<12.6	<11.1
U4-MW-11D	6/12/2024	N	EM20	UMCf	97.4 - 107.4	1.26	0.240 J	<0.605	<0.128	<0.116	<0.192	3,360	<0.960	<0.126	<0.111
U4-MW-11I	4/14/2022	N	BL02	UMCf	77.0 - 87.0	0.588 J	0.503 J	<0.605	0.593 J	<0.116	<0.192	704	<0.960	<0.126	<0.111
U4-MW-11I	9/26/2022	N	EM01	UMCf	77.0 - 87.0	0.397 J	<0.129	<0.605	<0.128	<0.116	<0.192	287	<0.960	<0.126	<0.111
U4-MW-11I	9/26/2022	FD	EM01	UMCf	77.0 - 87.0	0.336 J	<0.129	<0.605	<0.128	<0.116	<0.192	273	<0.960	<0.126	<0.111
U4-MW-11I	10/10/2022	N	EM02	UMCf	77.0 - 87.0	<1.36	<1.29	<6.05	<1.28	<1.16	<1.92	203	<9.60	<1.26	<1.11
U4-MW-11I	10/10/2022	FD	EM02	UMCf	77.0 - 87.0	<0.136	<0.129	<0.605	2.85	<0.116	<0.192	214	<0.960	<0.126	<0.111

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
						Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-11I	10/31/2022	N	EM03	UMCf	77.0 - 87.0	<0.680	<0.645	<3.03	<0.640	<0.580	<0.960	125	<4.80	<0.630	<0.555
U4-MW-11I	10/31/2022	FD	EM03	UMCf	77.0 - 87.0	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	151	<0.960	<0.126	<0.111
U4-MW-11I	12/6/2022	N	EM04	UMCf	77.0 - 87.0	<0.136 UJ	<0.129 UJ	<0.605 UJ	<0.128 UJ	<0.116 UJ	<0.192 UJ	145	<0.960 UJ	<0.126 UJ	<0.111 UJ
U4-MW-11I	12/6/2022	FD	EM04	UMCf	77.0 - 87.0	<0.136 UJ	<0.129 UJ	<0.605 UJ	<0.128 UJ	<0.116 UJ	<0.192 UJ	150	<0.960 UJ	<0.126 UJ	<0.111 UJ
U4-MW-11I	1/12/2023	N	EM05	UMCf	77.0 - 87.0	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	27.9	<0.960	<0.126	<0.111
U4-MW-11I	1/12/2023	FD	EM05	UMCf	77.0 - 87.0	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	27.3	<0.960	<0.126	<0.111
U4-MW-11I	2/14/2023	N	EM06	UMCf	77.0 - 87.0	0.752 J	0.309 J	<0.605	0.919 J	<0.116	<0.192	1,630	<0.960	<0.126	<0.111
U4-MW-11I	2/14/2023	FD	EM06	UMCf	77.0 - 87.0	0.915 J	0.348 J	<0.605	0.717 J	<0.116	<0.192	1,850	<0.960	<0.126	<0.111
U4-MW-11I	3/16/2023	N	EM07	UMCf	77.0 - 87.0	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	0.831 J	<0.960	<0.126	<0.111
U4-MW-11I	3/16/2023	FD	EM07	UMCf	77.0 - 87.0	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	0.889 J	<0.960	<0.126	<0.111
U4-MW-11I	4/18/2023	N	EM08	UMCf	77.0 - 87.0	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	11.5	<0.960	<0.126	<0.111
U4-MW-11I	4/18/2023	FD	EM08	UMCf	77.0 - 87.0	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	11.7	<0.960	<0.126	<0.111
U4-MW-11I	5/19/2023	N	EM09	UMCf	77.0 - 87.0	<0.136 UJ	<0.129 UJ	<0.605 UJ	<0.128 UJ	<0.116 UJ	<0.192 UJ	16.3 J-	<0.960 UJ	<0.126 UJ	<0.111 UJ
U4-MW-11I	5/19/2023	FD	EM09	UMCf	77.0 - 87.0	<0.136 UJ	<0.129 UJ	<0.605 UJ	<0.128 UJ	<0.116 UJ	<0.192 UJ	16.4 J-	<0.960 UJ	<0.126 UJ	<0.111 UJ
U4-MW-11I	6/15/2023	N	EM10	UMCf	77.0 - 87.0	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	2.45 J	<0.960	<0.126	<0.111
U4-MW-11I	6/15/2023	FD	EM10	UMCf	77.0 - 87.0	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	2.43 J	<0.960	<0.126	<0.111
U4-MW-11I	7/13/2023	N	EM11	UMCf	77.0 - 87.0	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	12.1	<0.960	<0.126	<0.111
U4-MW-11I	7/13/2023	FD	EM11	UMCf	77.0 - 87.0	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	12.2	<0.960	<0.126	<0.111
U4-MW-11I	8/14/2023	N	EM12	UMCf	77.0 - 87.0	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	1,480	<0.960	<0.126	<0.111
U4-MW-11I	8/14/2023	FD	EM12	UMCf	77.0 - 87.0	0.672 J	<0.129	<0.605	0.339 J	<0.116	<0.192	2,720	<0.960	<0.126	<0.111
U4-MW-11I	9/13/2023	N	EM13	UMCf	77.0 - 87.0	0.695 J	<0.129	<0.605	0.597 J	<0.116	<0.192	2,190	<0.960	<0.126	<0.111
U4-MW-11I	9/13/2023	FD	EM13	UMCf	77.0 - 87.0	0.727 J	<0.129	<0.605	0.753 J	<0.116	<0.192	2,110	<0.960	<0.126	<0.111
U4-MW-11I	10/19/2023	N	EM14	UMCf	77.0 - 87.0	1.39	0.364 J	<0.605	<0.128	<0.116	<0.192	4,050	<0.960	<0.126	<0.111
U4-MW-11I	10/19/2023	FD	EM14	UMCf	77.0 - 87.0	1.54	0.363 J	<0.605	<0.128	<0.116	<0.192	4,000	<0.960	<0.126	<0.111
U4-MW-11I	11/16/2023	N	EM15	UMCf	77.0 - 87.0	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	2,260	<48.0	<6.30	<5.55
U4-MW-11I	11/16/2023	FD	EM15	UMCf	77.0 - 87.0	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	2,500	<48.0	<6.30	<5.55
U4-MW-11I	12/13/2023	N	EM16	UMCf	77.0 - 87.0	0.587 J	0.160 J	<0.605	<0.128	<0.116	<0.192	2,870	<0.960	<0.126	<0.111
U4-MW-11I	12/13/2023	FD	EM16	UMCf	77.0 - 87.0	0.586 J	0.190 J	<0.605	0.215 J	<0.116	<0.192	2,570	<0.960	<0.126	<0.111
U4-MW-11I	1/25/2024	N	EM17	UMCf	77.0 - 87.0	0.642 J	<0.129	<0.605	<0.128	<0.116	<0.192	2,100 J	<0.960	<0.126	<0.111
U4-MW-11I	1/25/2024	FD	EM17	UMCf	77.0 - 87.0	0.763 J	<0.129	<0.605	<0.128	<0.116	<0.192	3,030 J	<0.960	<0.126	<0.111
U4-MW-11I	2/14/2024	N	EM18	UMCf	77.0 - 87.0	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	2,800	<48.0	<6.30	<5.55
U4-MW-11I	2/14/2024	FD	EM18	UMCf	77.0 - 87.0	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	2,970	<48.0	<6.30	<5.55
U4-MW-11I	3/13/2024	N	EM19	UMCf	77.0 - 87.0	0.775 J	<0.129	<0.605	0.539 J	<0.116	<0.192	3,090	<0.960	<0.126	<0.111
U4-MW-11I	3/13/2024	FD	EM19	UMCf	77.0 - 87.0	0.836 J	<0.129	<0.605	0.488 J	<0.116	<0.192	3,180	<0.960	<0.126	<0.111
U4-MW-11I	6/12/2024	N	EM20	UMCf	77.0 - 87.0	0.863 J	0.225 J	<0.605	0.361 J	<0.116	<0.192	2,590	<0.960	<0.126	<0.111
U4-MW-11I	6/12/2024	FD	EM20	UMCf	77.0 - 87.0	1.05	0.251 J	<0.605	0.716 J	<0.116	<0.192	3,060	<0.960	<0.126	<0.111
U4-MW-12D	4/15/2022	N	BL02	UMCf	97.1 - 107.1	2.15	0.934 J	<0.605	1.81	<0.116	<0.192	4,690	<0.960	<0.126	<0.111
U4-MW-12D	9/27/2022	N	EM01	UMCf	97.1 - 107.1	<2.72	<2.58	<12.1	<2.56	<2.32	<3.84	4,030 J	<19.2	<2.52	<2.22
U4-MW-12D	10/12/2022	N	EM02	UMCf	97.1 - 107.1	1.59	0.380 J	<0.605	1.63	<0.116	<0.192	<0.111	<0.960	<0.126	<0.111
U4-MW-12D	11/2/2022	N	EM03	UMCf	97.1 - 107.1	<1.36	<1.29	<6.05	<1.28	<1.16	<1.92	3,140	<9.60	<1.26	<1.11
U4-MW-12D	12/7/2022	N	EM04	UMCf	97.1 - 107.1	1.96	0.515 J	<0.605	<0.128	<0.116	<0.192	3,560	<0.960	<0.126	<0.111
U4-MW-12D	1/12/2023	N	EM05	UMCf	97.1 - 107.1	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	3,260	<96.0	<12.6	<11.1
U4-MW-12D	2/15/2023	N	EM06	UMCf	97.1 - 107.1	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	2,520	<96.0	<12.6	<11.1

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
						Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-12D	3/14/2023	N	EM07	UMCf	97.1 - 107.1	<6.80	<6.45	<30.3	10.0 J	<5.80	<9.60	2,740	<48.0	<6.30	<5.55
U4-MW-12D	4/17/2023	N	EM08	UMCf	97.1 - 107.1	1.50 J	<0.645 UJ	<3.03 UJ	0.770 J	<0.580 UJ	<0.960 UJ	2,760 J-	<4.80 UJ	<0.630 UJ	<0.555 UJ
U4-MW-12D	5/17/2023	N	EM09	UMCf	97.1 - 107.1	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	3,780	<96.0	<12.6	<11.1
U4-MW-12D	6/16/2023	N	EM10	UMCf	97.1 - 107.1	1.03	0.258 J	<0.605	1.15	<0.116	<0.192	2,250	<0.960	<0.126	<0.111
U4-MW-12D	7/13/2023	N	EM11	UMCf	97.1 - 107.1	0.552 J	0.170 J	<0.605	0.522 J	<0.116	<0.192	1,210	<0.960	<0.126	<0.111
U4-MW-12D	8/14/2023	N	EM12	UMCf	97.1 - 107.1	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	973	<48.0	22.4 J	<5.55
U4-MW-12D	9/12/2023	N	EM13	UMCf	97.1 - 107.1	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	888	<48.0	<6.30	<5.55
U4-MW-12D	10/17/2023	N	EM14	UMCf	97.1 - 107.1	<0.680	<0.645	<3.03	0.821 J	<0.580	<0.960	924	<4.80	<0.630	<0.555
U4-MW-12D	11/15/2023	N	EM15	UMCf	97.1 - 107.1	<0.680	<0.645	<3.03	<0.640	<0.580	<0.960	704	<4.80	<0.630	<0.555
U4-MW-12D	12/12/2023	N	EM16	UMCf	97.1 - 107.1	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	820 J+	<0.960	<0.126	<0.111
U4-MW-12D	1/24/2024	N	EM17	UMCf	97.1 - 107.1	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	652	1.16 J	<0.126	<0.111
U4-MW-12D	2/13/2024	N	EM18	UMCf	97.1 - 107.1	<2.72	<2.58	<12.1	<2.56	<2.32	<3.84	536	<19.2	<2.52	<2.22
U4-MW-12D	3/12/2024	N	EM19	UMCf	97.1 - 107.1	<2.72	<2.58	<12.1	<2.56	<2.32	<3.84	474	<19.2	<2.52	<2.22
U4-MW-12D	6/12/2024	N	EM20	UMCf	97.1 - 107.1	0.296 J	<0.129	<0.605	<0.128	<0.116	<0.192	980	<0.960	<0.126	<0.111
U4-MW-12I	4/14/2022	N	BL02	UMCf	76.8 - 86.8	1.28	0.688 J	<0.605	0.961 J	<0.116	<0.192	1,670	<0.960	<0.126	<0.111
U4-MW-12I	4/14/2022	FD	BL02	UMCf	76.8 - 86.8	1.16	0.609 J	<0.605	0.812 J	<0.116	<0.192	1,640	<0.960	<0.126	<0.111
U4-MW-12I	9/27/2022	N	EM01	UMCf	76.8 - 86.8	0.456 J	<0.129	<0.605	0.351 J	<0.116	<0.192	231	<0.960	<0.126	<0.111
U4-MW-12I	10/12/2022	N	EM02	UMCf	76.8 - 86.8	0.344 J	<0.129 UJ	<0.605	0.486 J	<0.116	<0.192	194	<0.960	<0.126	<0.111
U4-MW-12I	11/2/2022	N	EM03	UMCf	76.8 - 86.8	0.236 J	<0.129	<0.605	<0.128	<0.116	<0.192	182	<0.960	<0.126	<0.111
U4-MW-12I	12/7/2022	N	EM04	UMCf	76.8 - 86.8	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	91.3	<0.960	<0.126	<0.111
U4-MW-12I	12/7/2022	FD	EM04	UMCf	76.8 - 86.8	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	90.0	<0.960	<0.126	<0.111
U4-MW-12I	1/13/2023	N	EM05	UMCf	76.8 - 86.8	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	36.5	<0.960	<0.126	<0.111
U4-MW-12I	2/15/2023	N	EM06	UMCf	76.8 - 86.8	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	36.5	<0.960	<0.126	<0.111
U4-MW-12I	3/13/2023	N	EM07	UMCf	76.8 - 86.8	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	8.18	<0.960	<0.126	<0.111
U4-MW-12I	4/17/2023	N	EM08	UMCf	76.8 - 86.8	<0.136 UJ	<0.129 UJ	<0.605 UJ	<0.128 UJ	<0.116 UJ	<0.192 UJ	0.265 J	<0.960 UJ	<0.126 UJ	<0.111 UJ
U4-MW-12I	5/17/2023	N	EM09	UMCf	76.8 - 86.8	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	0.714 J	<0.960	<0.126	<0.111
U4-MW-12I	6/16/2023	N	EM10	UMCf	76.8 - 86.8	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	<0.111	<0.960	<0.126	<0.111
U4-MW-12I	7/11/2023	N	EM11	UMCf	76.8 - 86.8	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	0.731 J	<0.960	<0.126	<0.111
U4-MW-12I	8/14/2023	N	EM12	UMCf	76.8 - 86.8	<0.136	<0.129	<0.605	0.190 J	<0.116	<0.192	468	<0.960	<0.126	<0.111
U4-MW-12I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	181 J	<0.960	<0.126	<0.111
U4-MW-12I	10/17/2023	N	EM14	UMCf	76.8 - 86.8	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	2.19 J	<0.960	<0.126	<0.111
U4-MW-12I	11/16/2023	N	EM15	UMCf	76.8 - 86.8	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	495	<0.960	<0.126	<0.111
U4-MW-12I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	688 J+	<0.960	<0.126	<0.111
U4-MW-12I	1/24/2024	N	EM17	UMCf	76.8 - 86.8	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	567	<0.960	<0.126	<0.111
U4-MW-12I	2/13/2024	N	EM18	UMCf	76.8 - 86.8	<2.72	<2.58	<12.1	<2.56	<2.32	<3.84	614	<19.2	<2.52	<2.22
U4-MW-12I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	<2.72	<2.58	<12.1	<2.56	<2.32	<3.84	601	<19.2	<2.52	<2.22
U4-MW-12I	6/13/2024	N	EM20	UMCf	76.8 - 86.8	0.405 J	<0.129	<0.605	<0.128	<0.116	<0.192	1,290	<0.960	<0.126	<0.111
U4-MW-13D	4/14/2022	N	BL02	UMCf	98.2 - 108.2	1.63	0.706 J	<0.605	1.11	<0.116	<0.192	3,460	<0.960	<0.126	<0.111
U4-MW-13D	9/28/2022	N	EM01	UMCf	98.2 - 108.2	<1.36	<1.29	<6.05	<1.28	<1.16	<1.92	1,270	<9.60	<1.26	<1.11
U4-MW-13D	10/11/2022	N	EM02	UMCf	98.2 - 108.2	0.628 J	<0.129	<0.605	<0.128	<0.116	<0.192	983	<0.960	<0.126	<0.111
U4-MW-13D	11/3/2022	N	EM03	UMCf	98.2 - 108.2	1.01 J+	0.198 J	<0.605	0.415 J	<0.116	<0.192	1,060	<0.960	<0.126	<0.111
U4-MW-13D	12/7/2022	N	EM04	UMCf	98.2 - 108.2	1.83	0.233 J	<0.605	<0.128	<0.116	<0.192	874	<0.960	<0.126	<0.111
U4-MW-13D	1/12/2023	N	EM05	UMCf	98.2 - 108.2	<2.72	<2.58	<12.1	<2.56	<2.32	<3.84	837	<19.2	<2.52	<2.22

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
						Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-13D	2/15/2023	N	EM06	UMCf	98.2 - 108.2	2.28	<0.129	<0.605	<0.128	<0.116	<0.192	729	<0.960	<0.126	<0.111
U4-MW-13D	3/17/2023	N	EM07	UMCf	98.2 - 108.2	<2.72	<2.58	<12.1	<2.56	<2.32	<3.84	687	<19.2	<2.52	<2.22
U4-MW-13D	4/18/2023	N	EM08	UMCf	98.2 - 108.2	1.62	0.134 J	<0.605	0.223 J	<0.116	<0.192	489	<0.960	<0.126	<0.111
U4-MW-13D	5/17/2023	N	EM09	UMCf	98.2 - 108.2	<2.72	<2.58	<12.1	<2.56	<2.32	<3.84	475	<19.2	<2.52	<2.22
U4-MW-13D	6/15/2023	N	EM10	UMCf	98.2 - 108.2	1.35	<0.129	<0.605	<0.128	<0.116	<0.192	473	<0.960	<0.126	<0.111
U4-MW-13D	7/12/2023	N	EM11	UMCf	98.2 - 108.2	1.12	<0.129	<0.605	0.271 J	<0.116	<0.192	447	<0.960	<0.126	<0.111
U4-MW-13D	8/11/2023	N	EM12	UMCf	98.2 - 108.2	1.19	<0.129	<0.605	0.432 J	<0.116	<0.192	412 J+	<0.960	<0.126	<0.111
U4-MW-13D	9/11/2023	N	EM13	UMCf	98.2 - 108.2	<3.40	<3.22	<15.1	<3.20	<2.90	<4.80	716	<24.0	<3.15	<2.78
U4-MW-13D	10/18/2023	N	EM14	UMCf	98.2 - 108.2	<3.40	<3.22	<15.1	<3.20	<2.90	<4.80	451	<24.0	<3.15	<2.78
U4-MW-13D	11/15/2023	N	EM15	UMCf	98.2 - 108.2	<3.40	<3.22	<15.1	<3.20	<2.90	<4.80	485	<24.0	<3.15	<2.78
U4-MW-13D	12/11/2023	N	EM16	UMCf	98.2 - 108.2	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	761	<0.960	<0.126	<0.111
U4-MW-13D	1/23/2024	N	EM17	UMCf	98.2 - 108.2	0.687 J	<0.129	<0.605	<0.128	<0.116	<0.192	660	<0.960	<0.126	<0.111
U4-MW-13D	2/12/2024	N	EM18	UMCf	98.2 - 108.2	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	686	<0.960	<0.126	<0.111
U4-MW-13D	3/11/2024	N	EM19	UMCf	98.2 - 108.2	0.946 J	<0.129	<0.605	0.252 J	<0.116	<0.192	778	<0.960	<0.126	<0.111
U4-MW-13D	6/13/2024	N	EM20	UMCf	98.2 - 108.2	0.503 J	<0.129	<0.605	<0.128	<0.116	<0.192	854	<0.960	<0.126	<0.111
U4-MW-13I	4/14/2022	N	BL02	UMCf	77.1 - 87.1	1.18	0.624 J	<0.605	0.865 J	<0.116	<0.192	1,350	<0.960	<0.126	<0.111
U4-MW-13I	9/28/2022	N	EM01	UMCf	77.1 - 87.1	0.584 J	<0.129	<0.605	0.400 J	<0.116	<0.192	154 J-	<0.960	<0.126	<0.111
U4-MW-13I	10/10/2022	N	EM02	UMCf	77.1 - 87.1	0.505 J	<0.129	<0.605	0.759 J	<0.116	<0.192	451	<0.960	0.394 J	<0.111
U4-MW-13I	11/3/2022	N	EM03	UMCf	77.1 - 87.1	0.580 J	<0.129	<0.605	0.426 J	<0.116	<0.192	441	<0.960	<0.126	<0.111
U4-MW-13I	12/6/2022	N	EM04	UMCf	77.1 - 87.1	<0.680 UJ	<0.645 UJ	<3.03 UJ	<0.640 UJ	<0.580 UJ	<0.960 UJ	305	<4.80 UJ	<0.630 UJ	<0.555 UJ
U4-MW-13I	1/12/2023	N	EM05	UMCf	77.1 - 87.1	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	236	<0.960	<0.126	<0.111
U4-MW-13I	2/14/2023	N	EM06	UMCf	77.1 - 87.1	<0.680	<0.645	<3.03	<0.640	<0.580	<0.960	373	<4.80	<0.630	<0.555
U4-MW-13I	3/16/2023	N	EM07	UMCf	77.1 - 87.1	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	133	<0.960	<0.126	<0.111
U4-MW-13I	4/19/2023	N	EM08	UMCf	77.1 - 87.1	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	34.8 J+	<0.960	<0.126	<0.111
U4-MW-13I	5/17/2023	N	EM09	UMCf	77.1 - 87.1	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	38.0	<0.960	<0.126	<0.111
U4-MW-13I	6/15/2023	N	EM10	UMCf	77.1 - 87.1	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	46.7	<0.960	<0.126	<0.111
U4-MW-13I	7/12/2023	N	EM11	UMCf	77.1 - 87.1	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	44.3	<0.960	<0.126	<0.111
U4-MW-13I	8/11/2023	N	EM12	UMCf	77.1 - 87.1	1.07	<0.129	<0.605	<0.128	<0.116	<0.192	685	<0.960	<0.126	<0.111
U4-MW-13I	9/11/2023	N	EM13	UMCf	77.1 - 87.1	<3.40	<3.22	<15.1	<3.20	<2.90	<4.80	805	<24.0	<3.15	<2.78
U4-MW-13I	10/17/2023	N	EM14	UMCf	77.1 - 87.1	1.23	0.135 J	<0.605	0.400 J	<0.116	<0.192	904	<0.960	<0.126	<0.111
U4-MW-13I	11/15/2023	N	EM15	UMCf	77.1 - 87.1	1.17	<0.129	<0.605	0.455 J	<0.116	<0.192	831	<0.960	<0.126	<0.111
U4-MW-13I	12/11/2023	N	EM16	UMCf	77.1 - 87.1	<0.136	0.159 J	<0.605	<0.128	<0.116	<0.192	1,100	<0.960	<0.126	<0.111
U4-MW-13I	1/23/2024	N	EM17	UMCf	77.1 - 87.1	0.673 J	<0.129	<0.605	<0.128	<0.116	<0.192	1,060	<0.960	<0.126	<0.111
U4-MW-13I	2/12/2024	N	EM18	UMCf	77.1 - 87.1	1.02	<0.129	<0.605	<0.128	<0.116	<0.192	1,090	<0.960	<0.126	<0.111
U4-MW-13I	3/11/2024	N	EM19	UMCf	77.1 - 87.1	1.03	0.165 J	<0.605	0.279 J	<0.116	<0.192	1,170	<0.960	<0.126	<0.111
U4-MW-13I	6/13/2024	N	EM20	UMCf	77.1 - 87.1	0.710 J	0.193 J	<0.605	0.267 J	<0.116	<0.192	1,130	<0.960	<0.126	<0.111
U4-MW-14D	4/13/2022	N	BL02	UMCf	97.3 - 107.3	0.920 J	0.628 J	<0.605	0.805 J	<0.116	<0.192	110 J	<0.960	<0.126	<0.111
U4-MW-14D	12/6/2022	N	EM04	UMCf	97.3 - 107.3	1.17 J	<0.645 UJ	<3.03 UJ	1.27 J	<0.580 UJ	<0.960 UJ	287	<4.80 UJ	<0.630 UJ	<0.555 UJ
U4-MW-14D	3/16/2023	N	EM07	UMCf	97.3 - 107.3	<0.680	<0.645	<3.03	<0.640	<0.580	<0.960	217 J+	<4.80	<0.630	<0.555
U4-MW-14D	6/15/2023	N	EM10	UMCf	97.3 - 107.3	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	147	<0.960	<0.126	<0.111
U4-MW-14D	9/14/2023	N	EM13	UMCf	97.3 - 107.3	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	120	<0.960	<0.126	<0.111
U4-MW-14D	12/15/2023	N	EM16	UMCf	97.3 - 107.3	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	177	<0.960	<0.126	<0.111
U4-MW-14D	3/13/2024	N	EM19	UMCf	97.3 - 107.3	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	121	<0.960	0.203 J	<0.111

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
						Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene
						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	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	86.1	<0.960	<0.126	<0.111
U4-MW-14I	4/14/2022	N	BL02	UMCf	77.3 - 87.3	0.557 J	0.536 J	<0.605	0.537 J	<0.116	<0.192	157	<0.960	<0.126	<0.111
U4-MW-14I	12/6/2022	N	EM04	UMCf	77.3 - 87.3	<0.680 UJ	<0.645 UJ	<3.03 UJ	1.27 J	<0.580 UJ	<0.960 UJ	212	<4.80 UJ	<0.630 UJ	<0.555 UJ
U4-MW-14I	3/16/2023	N	EM07	UMCf	77.3 - 87.3	<0.680	<0.645	<3.03	<0.640	<0.580	<0.960	229 J+	<4.80	<0.630	<0.555
U4-MW-14I	6/15/2023	N	EM10	UMCf	77.3 - 87.3	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	133	<0.960	<0.126	<0.111
U4-MW-14I	9/14/2023	N	EM13	UMCf	77.3 - 87.3	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	122	<0.960	<0.126	<0.111
U4-MW-14I	12/14/2023	N	EM16	UMCf	77.3 - 87.3	0.217 J	<0.129	<0.605	<0.128	<0.116	<0.192	233	<0.960	<0.126	<0.111
U4-MW-14I	3/13/2024	N	EM19	UMCf	77.3 - 87.3	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	155	<0.960	0.197 J	<0.111
U4-MW-14I	6/14/2024	N	EM20	UMCf	77.3 - 87.3	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	164	<0.960	<0.126	<0.111
U4-MW-15D	4/13/2022	N	BL02	UMCf	96.0 - 106.0	0.402 J	<0.129	<0.605	<0.128	<0.116	<0.192	407 J+	<0.960	<0.126	<0.111
U4-MW-15D	12/5/2022	N	EM04	UMCf	96.0 - 106.0	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	165	<0.960	<0.126	<0.111
U4-MW-15D	3/20/2023	N	EM07	UMCf	96.0 - 106.0	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	114	<0.960	<0.126	<0.111
U4-MW-15D	6/14/2023	N	EM10	UMCf	96.0 - 106.0	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	298	<0.960	<0.126	<0.111
U4-MW-15D	9/13/2023	N	EM13	UMCf	96.0 - 106.0	<0.136	<0.129	<0.605	0.136 J	<0.116	<0.192	144	<0.960	<0.126	<0.111
U4-MW-15D	12/12/2023	N	EM16	UMCf	96.0 - 106.0	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	92.6	<0.960	<0.126	<0.111
U4-MW-15D	3/12/2024	N	EM19	UMCf	96.0 - 106.0	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	92.0	<0.960	<0.126	<0.111
U4-MW-15D	6/14/2024	N	EM20	UMCf	96.0 - 106.0	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	88.7	<0.960	<0.126	<0.111
U4-MW-15DD	4/13/2022	N	BL02	UMCf	120.3 - 130.3	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	13.2 J+	<0.960	<0.126	<0.111
U4-MW-15DD	12/5/2022	N	EM04	UMCf	120.3 - 130.3	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	0.237 J	<0.960	<0.126	<0.111
U4-MW-15DD	3/15/2023	N	EM07	UMCf	120.3 - 130.3	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	0.232 J	<0.960	<0.126	<0.111
U4-MW-15DD	6/13/2023	N	EM10	UMCf	120.3 - 130.3	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	0.336 J	<0.960	<0.126	<0.111
U4-MW-15DD	9/14/2023	N	EM13	UMCf	120.3 - 130.3	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	<0.111	<0.960	<0.126	<0.111
U4-MW-15DD	12/13/2023	N	EM16	UMCf	120.3 - 130.3	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	0.329 J	<0.960	<0.126	<0.111
U4-MW-15DD	3/12/2024	N	EM19	UMCf	120.3 - 130.3	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	0.261 J	<0.960	<0.126	<0.111
U4-MW-15DD	6/14/2024	N	EM20	UMCf	120.3 - 130.3	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	<0.111	<0.960	<0.126	<0.111
U4-MW-15I	4/12/2022	N	BL02	UMCf	76.8 - 86.8	0.609 J	0.428 J	<0.605	0.809 J	<0.116	<0.192	705	<0.960	<0.126	<0.111
U4-MW-15I	12/5/2022	N	EM04	UMCf	76.8 - 86.8	0.582 J	<0.129	<0.605	0.371 J	<0.116	<0.192	758	<0.960	<0.126	<0.111
U4-MW-15I	3/17/2023	N	EM07	UMCf	76.8 - 86.8	<2.72	<2.58	<12.1	<2.56	<2.32	<3.84	47.6 J	<19.2	<2.52	<2.22
U4-MW-15I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	4.51 J	<0.960	<0.126	<0.111
U4-MW-15I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	214 J	<0.960	<0.126	<0.111
U4-MW-15I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	643 J+	<0.960	<0.126	<0.111
U4-MW-15I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	975	<48.0	<6.30	<5.55
U4-MW-15I	6/17/2024	N	EM20	UMCf	76.8 - 86.8	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	1,440	<48.0	<6.30	<5.55
U4-MW-15S	4/13/2022	N	BL02	UMCf	54.8 - 64.8	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	9.07 J+	<0.960	<0.126	<0.111
U4-MW-15S	12/5/2022	N	EM04	UMCf	54.8 - 64.8	<3.40	<3.22	<15.1	<3.20	<2.90	<4.80	8.04 J	<24.0	<3.15	<2.78
U4-MW-15S	3/13/2023	N	EM07	UMCf	54.8 - 64.8	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	<0.111	<0.960	<0.126	<0.111
U4-MW-15S	6/13/2023	N	EM10	UMCf	54.8 - 64.8	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	0.191 J	<0.960	<0.126	<0.111
U4-MW-15S	9/14/2023	N	EM13	UMCf	54.8 - 64.8	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	<0.111	<0.960	<0.126	<0.111
U4-MW-15S	12/11/2023	N	EM16	UMCf	54.8 - 64.8	<0.272	<0.258	<1.21	<0.256	<0.232	<0.384	<0.222	<1.92	<0.252	<0.222
U4-MW-15S	3/12/2024	N	EM19	UMCf	54.8 - 64.8	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	1.18 J	<0.960	<0.126	<0.111
U4-MW-15S	3/26/2024	N	EM19	UMCf	54.8 - 64.8	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	<0.111	<0.960	<0.126	<0.111
U4-MW-15S	6/14/2024	N	EM20	UMCf	54.8 - 64.8	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	<0.111	<0.960	<0.126	<0.111
U4-MW-16D	4/11/2022	N	BL02	UMCf	96.8 - 106.8	1.91	0.510 J	<0.605	<0.128	<0.116	<0.192	3,310	<0.960	<0.126	<0.111

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
						Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-16D	12/5/2022	N	EM04	UMCf	96.8 - 106.8	0.840 J	0.281 J	<0.605	0.646 J	<0.116	<0.192	2,020	<0.960	<0.126	<0.111
U4-MW-16D	3/14/2023	N	EM07	UMCf	96.8 - 106.8	0.443 J	<0.129	<0.605	<0.128	<0.116	<0.192	1,290	<0.960	<0.126	<0.111
U4-MW-16D	6/13/2023	N	EM10	UMCf	96.8 - 106.8	1.36	0.366 J	<0.605	<0.128	<0.116	<0.192	3,560	<0.960	<0.126	<0.111
U4-MW-16D	9/15/2023	N	EM13	UMCf	96.8 - 106.8	0.318 J	<0.129	<0.605	<0.128	<0.116	<0.192	1,470	<0.960	<0.126	<0.111
U4-MW-16D	12/14/2023	N	EM16	UMCf	96.8 - 106.8	0.255 J	<0.129	<0.605	<0.128	<0.116	<0.192	1,000	<0.960	<0.126	<0.111
U4-MW-16D	3/14/2024	N	EM19	UMCf	96.8 - 106.8	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	1,190	<48.0	<6.30	<5.55
U4-MW-16D	6/17/2024	N	EM20	UMCf	96.8 - 106.8	<6.80	<6.45	<30.3	<6.40	<5.80	<9.60	1,840	<48.0	<6.30	<5.55
U4-MW-16DD	4/12/2022	N	BL02	UMCf	120.8 - 130.8	<0.136	<0.129	<0.605	0.369 J	<0.116	<0.192	121	<0.960	<0.126	<0.111
U4-MW-16DD	12/5/2022	N	EM04	UMCf	120.8 - 130.8	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	43.7	<0.960	<0.126	<0.111
U4-MW-16DD	3/15/2023	N	EM07	UMCf	120.8 - 130.8	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	34.8 J+	<0.960	<0.126	<0.111
U4-MW-16DD	6/13/2023	N	EM10	UMCf	120.8 - 130.8	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	26.8	<0.960	<0.126	<0.111
U4-MW-16DD	9/14/2023	N	EM13	UMCf	120.8 - 130.8	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	23.2	<0.960	<0.126	<0.111
U4-MW-16DD	12/13/2023	N	EM16	UMCf	120.8 - 130.8	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	17.4 J+	<0.960	<0.126	<0.111
U4-MW-16DD	3/14/2024	N	EM19	UMCf	120.8 - 130.8	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	16.2	<0.960	<0.126	<0.111
U4-MW-16DD	6/17/2024	N	EM20	UMCf	120.8 - 130.8	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	10.3	<0.960	<0.126	<0.111
U4-MW-16I	4/11/2022	N	BL02	UMCf	77.0 - 87.0	0.794 J	0.154 J	<0.605	<0.128	<0.116	<0.192	424	<0.960	<0.126	<0.111
U4-MW-16I	12/5/2022	N	EM04	UMCf	77.0 - 87.0	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	7.96	<0.960	<0.126	<0.111
U4-MW-16I	12/5/2022	FD	EM04	UMCf	77.0 - 87.0	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	8.00	<0.960	<0.126	<0.111
U4-MW-16I	3/13/2023	N	EM07	UMCf	77.0 - 87.0	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	<0.111	<0.960	<0.126	<0.111
U4-MW-16I	3/13/2023	FD	EM07	UMCf	77.0 - 87.0	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	<0.111	<0.960	<0.126	<0.111
U4-MW-16I	6/12/2023	N	EM10	UMCf	77.0 - 87.0	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	<0.111	<0.960	<0.126	<0.111
U4-MW-16I	6/12/2023	FD	EM10	UMCf	77.0 - 87.0	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	<0.111	<0.960	<0.126	<0.111
U4-MW-16I	9/11/2023	N	EM13	UMCf	77.0 - 87.0	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	1,440	<0.960	<0.126	<0.111
U4-MW-16I	9/11/2023	FD	EM13	UMCf	77.0 - 87.0	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	1,420	<0.960	<0.126	<0.111
U4-MW-16I	12/11/2023	N	EM16	UMCf	77.0 - 87.0	<0.136	0.384 J	<0.605	<0.128	<0.116	<0.192	2,280	<0.960	<0.126	<0.111
U4-MW-16I	12/11/2023	FD	EM16	UMCf	77.0 - 87.0	<0.136	0.347 J	<0.605	<0.128	<0.116	<0.192	2,360	<0.960	<0.126	<0.111
U4-MW-16I	3/11/2024	N	EM19	UMCf	77.0 - 87.0	1.25	0.411 J	<0.605	0.742 J	<0.116	<0.192	1,880	<0.960	<0.126	<0.111
U4-MW-16I	3/11/2024	FD	EM19	UMCf	77.0 - 87.0	1.07	0.394 J	<0.605	0.695 J	<0.116	<0.192	1,880	<0.960	<0.126	<0.111
U4-MW-16I	6/18/2024	N	EM20	UMCf	77.0 - 87.0	0.582 J	<0.129	<0.605	<0.128	<0.116	<0.192	1,640	<0.960	<0.126	<0.111
U4-MW-16I	6/18/2024	FD	EM20	UMCf	77.0 - 87.0	0.686 J	<0.129	<0.605	<0.128	<0.116	<0.192	1,980	<0.960	<0.126	<0.111
U4-MW-16S	4/12/2022	N	BL02	UMCf	54.8 - 64.8	0.323 J	<0.129	<0.605	0.365 J	<0.116	<0.192	12.8	<0.960	<0.126	<0.111
U4-MW-16S	4/12/2022	FD	BL02	UMCf	54.8 - 64.8	0.308 J	<0.129	<0.605	0.346 J	<0.116	<0.192	12.3	<0.960	<0.126	<0.111
U4-MW-16S	12/6/2022	N	EM04	UMCf	54.8 - 64.8	0.193 J	<0.129 UJ	<0.605 UJ	<0.128 UJ	<0.116 UJ	<0.192 UJ	7.61	<0.960 UJ	<0.126 UJ	<0.111 UJ
U4-MW-16S	3/15/2023	N	EM07	UMCf	54.8 - 64.8	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	<0.111	<0.960	<0.126	<0.111
U4-MW-16S	6/13/2023	N	EM10	UMCf	54.8 - 64.8	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	<0.111	<0.960	<0.126	<0.111
U4-MW-16S	9/11/2023	N	EM13	UMCf	54.8 - 64.8	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	<0.111	<0.960	<0.126	<0.111
U4-MW-16S	12/11/2023	N	EM16	UMCf	54.8 - 64.8	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	<0.111 UJ	<0.960	<0.126	<0.111
U4-MW-16S	3/11/2024	N	EM19	UMCf	54.8 - 64.8	0.212 J	<0.129	<0.605	<0.128	<0.116	<0.192	<0.111	<0.960	<0.126	<0.111
U4-MW-16S	6/17/2024	N	EM20	UMCf	54.8 - 64.8	<0.136	<0.129	<0.605	<0.128	<0.116	<0.192	<0.111	<0.960	<0.126	<0.111
U4-SLMW	11/10/2022	N	EM03		-	1.60 J	<0.645	<3.03	<0.640	<0.580	<0.960	1.75 J	<4.80	<0.630	<0.555
U4-T3	10/13/2022	N	EM02		-	4.01	1.87	<0.605	<0.128	<0.116	<0.192	3,720	<0.960	<0.126	<0.111
U4-T3	11/3/2022	N	EM03		-	5.54	2.33	<0.605	2.09	<0.116	<0.192	3,460	<0.960	<0.126	<0.111
U4-T3	12/6/2022	N	EM04		-	3.81 J	<2.58 UJ	<12.1 UJ	6.19 J	<2.32 UJ	<3.84 UJ	2,520	<19.2 UJ	<2.52 UJ	<2.22 UJ

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
						Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-T3	1/9/2023	N	EM05		-	4.50	1.86	<0.605	1.63	<0.116	<0.192	3,390	<0.960	<0.126	<0.111
U4-T3	2/13/2023	N	EM06		-	<13.6	<12.9	<60.5	<12.8	<11.6	<19.2	3,210	<96.0	<12.6	<11.1
U4-T3	3/13/2023	N	EM07		-	<3.40	<3.22	<15.1	<3.20	<2.90	<4.80	1,410	<24.0	<3.15	<2.78
U4-T3	4/19/2023	N	EM08		-	1.94	0.640 J	<0.605	0.658 J	<0.116	<0.192	1,150 J+	<0.960	<0.126	<0.111
U4-T3	5/18/2023	N	EM09		-	1.87	0.557 J	<0.605	<0.128	<0.116	<0.192	1,750	<0.960	<0.126	<0.111
U4-T3	6/12/2023	N	EM10		-	2.41	0.589 J	<0.605	1.13	<0.116	<0.192	1,720	<0.960	<0.126	<0.111
U4-T3	7/11/2023	N	EM11		-	1.91	0.716 J	<0.605	0.657 J	<0.116	<0.192	1,490	<0.960	<0.126	<0.111
U4-T3	8/10/2023	N	EM12		-	1.14	<0.129	<0.605	<0.128	<0.116	<0.192	815	<0.960	<0.126	<0.111
U4-T3	9/11/2023	N	EM13		-	1.29	<0.129	<0.605	<0.128	<0.116	<0.192	911	<0.960	<0.126	<0.111
U4-T3	10/16/2023	N	EM14		-	<3.40	<3.22	<15.1	<3.20	<2.90	<4.80	618	<24.0	<3.15	<2.78

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 sample quantitation limit.

-- 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.

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
						Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Diisopropyl Ether (DIPE)	Ethyl Tert-Butyl Ether (ETBE)	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	m,p-Xylene (Sum of Isomers)	Methylene 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	6.51	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.11 J
M-251-100	10/13/2022	N	EM02	UMCf	92.5 - 102.5	3.91	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.845 J
M-251-100	11/2/2022	N	EM03	UMCf	92.5 - 102.5	2.27 J	<1.22	<3.74	<1.05	<1.01	<1.37	<3.37	<1.05	<4.30	<4.30
M-251-100	12/8/2022	N	EM04	UMCf	92.5 - 102.5	2.75	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.576 J
M-251-100	1/11/2023	N	EM05	UMCf	92.5 - 102.5	2.88	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.536 J
M-251-100	2/13/2023	N	EM06	UMCf	92.5 - 102.5	2.53	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337 UJ	<0.105	<0.430	0.475 J
M-251-100	3/17/2023	N	EM07	UMCf	92.5 - 102.5	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9	<5.25	<21.5	<21.5
M-251-100	4/21/2023	N	EM08	UMCf	92.5 - 102.5	1.95	<0.122	<0.374	<0.105	<0.101	<0.137 UJ	<0.337	<0.105	<0.430	0.506 J
M-251-100	5/9/2023	N	EM09	UMCf	92.5 - 102.5	2.31	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
M-251-100	6/14/2023	N	EM10	UMCf	92.5 - 102.5	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9	<5.25	<21.5	<21.5
M-251-100	7/14/2023	N	EM11	UMCf	92.5 - 102.5	2.44	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.443 J
M-251-100	8/10/2023	N	EM12	UMCf	92.5 - 102.5	1.11	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
M-251-100	9/14/2023	N	EM13	UMCf	92.5 - 102.5	1.36	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
M-251-100	10/19/2023	N	EM14	UMCf	92.5 - 102.5	1.30	<0.122	<18.7	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.806 J
M-251-100	11/16/2023	N	EM15	UMCf	92.5 - 102.5	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9	<5.25	<21.5	<21.5
M-251-100	12/12/2023	N	EM16	UMCf	92.5 - 102.5	1.40	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.04 J
M-251-100	1/25/2024	N	EM17	UMCf	92.5 - 102.5	1.64	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.17 J
M-251-100	2/13/2024	N	EM18	UMCf	92.5 - 102.5	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9	<5.25	<21.5	<21.5
M-251-100	3/11/2024	N	EM19	UMCf	92.5 - 102.5	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9	<5.25	<21.5	<21.5
M-251-100	6/17/2024	N	EM20	UMCf	92.5 - 102.5	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9	<5.25	<21.5	<21.5
M-251-60	4/18/2022	N	BL02	UMCf	52.3 - 62.3	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
M-251-60	3/15/2023	N	EM07	UMCf	52.3 - 62.3	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
M-251-60	6/14/2023	N	EM10	UMCf	52.3 - 62.3	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
M-251-60	9/14/2023	N	EM13	UMCf	52.3 - 62.3	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
M-251-60	12/11/2023	N	EM16	UMCf	52.3 - 62.3	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
M-251-60	3/12/2024	N	EM19	UMCf	52.3 - 62.3	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.731 J
M-251-60	6/19/2024	N	EM20	UMCf	52.3 - 62.3	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
M-252	4/21/2022	N	BL02	UMCf	132.3 - 142.3	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
M-252	3/15/2023	N	EM07	UMCf	132.3 - 142.3	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
M-252	9/19/2023	N	EM13	UMCf	132.3 - 142.3	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
M-252	12/18/2023	N	EM16	UMCf	132.3 - 142.3	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
M-252	3/12/2024	N	EM19	UMCf	132.3 - 142.3	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
M-252	6/19/2024	N	EM20	UMCf	132.3 - 142.3	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
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	4.26 J	<0.610	<1.87	<0.525	<0.505	<0.685	<1.69	<0.525	<2.15	<2.15
U4-E-01D	3/14/2023	N	EM07	UMCf	94.7 - 109.7	2.59	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-E-01D	6/20/2024	N	EM20	UMCf	94.7 - 109.7	<1.40	<1.22	<3.74	<1.05	19.7	<1.37	<3.37	<1.05	<4.30	5.29 J
U4-E-01I	4/19/2022	N	BL02	UMCf	74.6 - 89.6	0.328 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-E-01I	4/19/2022	FD	BL02	UMCf	74.6 - 89.6	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-E-01I	3/14/2023	N	EM07	UMCf	74.6 - 89.6	0.871 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.461 J

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
						Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Diisopropyl Ether (DIPE)	Ethyl Tert-Butyl Ether (ETBE)	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	m,p-Xylene (Sum of Isomers)	Methylene 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	0.207 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-E-01I	5/10/2023	N	EM09	UMCf	74.6 - 89.6	0.280 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.999 J
U4-E-01I	6/12/2023	N	EM10	UMCf	74.6 - 89.6	0.341 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	2.63 J
U4-E-01I	7/11/2023	N	EM11	UMCf	74.6 - 89.6	<0.700	<0.610	<1.87	<0.525	<0.505	<0.685	<1.69	<0.525	<2.15	3.49 J
U4-E-01I	8/10/2023	N	EM12	UMCf	74.6 - 89.6	0.907 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.79 J
U4-E-01I	9/11/2023	N	EM13	UMCf	74.6 - 89.6	<0.700	<0.610	<1.87	<0.525	<0.505	<0.685	<1.69	<0.525	<2.15	<2.15
U4-E-01I	10/16/2023	N	EM14	UMCf	74.6 - 89.6	0.307 J	0.246 J	<0.374	<0.105	<0.101	0.157 J	<0.337	<0.105	<0.430	2.41 J
U4-E-01I	12/13/2023	N	EM16	UMCf	74.6 - 89.6	<1.40	<1.22	<3.74	<1.05	65.4	<1.37	<3.37	<1.05	<4.30	<4.30
U4-E-01I	1/24/2024	N	EM17	UMCf	74.6 - 89.6	<2.80	<2.44	<7.48	<2.10	40.1	<2.74	<6.74	<2.10	<8.60	<8.60
U4-E-01I	2/14/2024	N	EM18	UMCf	74.6 - 89.6	<1.40	<1.22	<3.74	<1.05	<1.01	<1.37	<3.37	<1.05	<4.30	<4.30
U4-E-01I	3/12/2024	N	EM19	UMCf	74.6 - 89.6	<1.40	<1.22	<3.74	<1.05	62.2	<1.37	<3.37	<1.05	<4.30	<4.30
U4-E-01I	6/20/2024	N	EM20	UMCf	74.6 - 89.6	<1.40	<1.22	<3.74	<1.05	<1.01	<1.37	<3.37	<1.05	<4.30	8.11 J
U4-E-02D	4/20/2022	N	BL02	UMCf	94.4 - 109.4	1.39	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.478 J
U4-E-02D	3/14/2023	N	EM07	UMCf	94.4 - 109.4	2.36	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-E-02D	6/19/2024	N	EM20	UMCf	94.4 - 109.4	<1.40	<1.22	<3.74	<1.05	121	<1.37	<3.37	<1.05	<4.30	4.38 J
U4-E-02I	4/18/2022	N	BL02	UMCf	74.4 - 89.4	0.956 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430 UJ	<0.430
U4-E-02I	3/14/2023	N	EM07	UMCf	74.4 - 89.4	1.15	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-E-02I	4/20/2023	N	EM08	UMCf	74.4 - 89.4	0.761 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-E-02I	5/11/2023	N	EM09	UMCf	74.4 - 89.4	0.499 J	<0.122 UJ	<0.374	<0.105	3.56	<0.137	<0.337	<0.105	<0.430	0.970 J
U4-E-02I	6/12/2023	N	EM10	UMCf	74.4 - 89.4	0.297 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	6.89
U4-E-02I	7/11/2023	N	EM11	UMCf	74.4 - 89.4	0.232 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	4.58 J
U4-E-02I	8/10/2023	N	EM12	UMCf	74.4 - 89.4	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	2.23 J
U4-E-02I	9/11/2023	N	EM13	UMCf	74.4 - 89.4	0.179 J	<0.122	<0.374	<0.105	16.6	0.184 J	<0.337	<0.105	<0.430	3.59 J
U4-E-02I	10/16/2023	N	EM14	UMCf	74.4 - 89.4	<1.40	<1.22	<3.74	<1.05	<1.01	<1.37	<3.37	<1.05	<4.30	5.64 J
U4-E-02I	12/14/2023	N	EM16	UMCf	74.4 - 89.4	<1.40	<1.22	<3.74	<1.05	115	<1.37	<3.37	<1.05	<4.30	6.75 J
U4-E-02I	1/22/2024	N	EM17	UMCf	74.4 - 89.4	<0.140	<0.122	<0.374	<0.105	149	<0.137	<0.337	<0.105	<0.430	7.93
U4-E-02I	2/13/2024	N	EM18	UMCf	74.4 - 89.4	<0.140	<0.122	<0.374	<0.105	<0.101	0.315 J	<0.337	<0.105	<0.430	7.22
U4-E-02I	3/13/2024	N	EM19	UMCf	74.4 - 89.4	<3.50	<3.05	<9.35	<2.63	327	<3.43	<8.43	<2.63	<10.7	<10.7
U4-E-02I	6/19/2024	N	EM20	UMCf	74.4 - 89.4	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7	<10.5	<43.0	<43.0
U4-E-03D	4/19/2022	N	BL02	UMCf	95.1 - 110.1	4.96	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.797 J
U4-E-03D	10/13/2022	N	EM02	UMCf	95.1 - 110.1	<28.0	<24.4	<74.8	<21.0	<20.2	<27.4	<67.4	<21.0	<86.0	<86.0
U4-E-03D	11/3/2022	N	EM03	UMCf	95.1 - 110.1	5.14 J+	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.543 J
U4-E-03D	12/6/2022	N	EM04	UMCf	95.1 - 110.1	3.45 J	<2.44 UJ	<7.48 UJ	<2.10 UJ	<2.02 UJ	<2.74 UJ	<6.74 UJ	<2.10 UJ	<8.60 UJ	<8.60 UJ
U4-E-03D	1/9/2023	N	EM05	UMCf	95.1 - 110.1	3.66	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.516 J
U4-E-03D	2/13/2023	N	EM06	UMCf	95.1 - 110.1	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7	<10.5	<43.0	<43.0
U4-E-03D	3/13/2023	N	EM07	UMCf	95.1 - 110.1	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7	<10.5	<43.0	<43.0
U4-E-03D	3/14/2023	N	EM07	UMCf	95.1 - 110.1	<28.0	<24.4	<74.8	<21.0	<20.2	<27.4	<67.4	<21.0	<86.0	<86.0
U4-E-03D	4/19/2023	N	EM08	UMCf	95.1 - 110.1	1.97 J	<0.610	<1.87	<0.525	<0.505	<0.685	<1.69	<0.525	<2.15	<2.15
U4-E-03D	5/11/2023	N	EM09	UMCf	95.1 - 110.1	1.55 J-	<0.122 UJ	<0.374	<0.105	0.730 J	<0.137	<0.337	<0.105	<0.430	2.04 J
U4-E-03D	6/12/2023	N	EM10	UMCf	95.1 - 110.1	2.21	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	2.05 J
U4-E-03D	7/11/2023	N	EM11	UMCf	95.1 - 110.1	2.15	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	2.69 J
U4-E-03D	8/10/2023	N	EM12	UMCf	95.1 - 110.1	1.92	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	3.09 J
U4-E-03D	9/11/2023	N	EM13	UMCf	95.1 - 110.1	2.11	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	3.22 J

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
						Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Diisopropyl Ether (DIPE)	Ethyl Tert-Butyl Ether (ETBE)	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	m,p-Xylene (Sum of Isomers)	Methylene Chloride
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-E-03D	10/16/2023	N	EM14	UMCf	95.1 - 110.1	<28.0	<24.4	<74.8	<21.0	<20.2	<27.4	<67.4	<21.0	<86.0	<86.0
U4-E-03D	6/10/2024	N	EM20	UMCf	95.1 - 110.1	<2.80	<2.44	<7.48	<2.10	46.8 J	<2.74	<6.74	<2.10	<8.60	<8.60
U4-E-03D	6/10/2024	FD	EM20	UMCf	95.1 - 110.1	<2.80	<2.44	<7.48	<2.10	<2.02 UJ	<2.74	<6.74	<2.10	<8.60	12.3 J
U4-E-04D	4/19/2022	N	BL02	UMCf	95.0 - 110.0	0.812 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-E-04D	3/14/2023	N	EM07	UMCf	95.0 - 110.0	2.85	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-E-04D	6/20/2024	N	EM20	UMCf	95.0 - 110.0	<1.40	<1.22	<3.74	<1.05	<1.01	<1.37	<3.37	<1.05	<4.30	<4.30
U4-E-04I	4/18/2022	N	BL02	UMCf	75.0 - 90.0	0.141 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-E-04I	3/14/2023	N	EM07	UMCf	75.0 - 90.0	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9	<5.25	<21.5	<21.5
U4-E-04I	6/20/2024	N	EM20	UMCf	75.0 - 90.0	<1.40	<1.22	<3.74	<1.05	<1.01	<1.37	<3.37	<1.05	<4.30	15.8 J
U4-E-05D	4/19/2022	N	BL02	UMCf	95.0 - 110.0	2.06	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-E-05D	3/16/2023	N	EM07	UMCf	95.0 - 110.0	0.449 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-E-05D	6/10/2024	N	EM20	UMCf	95.0 - 110.0	<2.80	<2.44	<7.48	<2.10	<2.02	<2.74	<6.74	<2.10	<8.60	<8.60
U4-E-05I	4/19/2022	N	BL02	UMCf	75.0 - 90.0	0.948 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-E-05I	3/15/2023	N	EM07	UMCf	75.0 - 90.0	1.53 J-	<0.122 UJ	<0.374 UJ	<0.105 UJ	<0.101 UJ	<0.137 UJ	<0.337 UJ	<0.105 UJ	<0.430 UJ	<0.430 UJ
U4-E-05I	6/19/2024	N	EM20	UMCf	75.0 - 90.0	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9	<5.25	<21.5	27.9 J
U4-E-06D	4/11/2022	N	BL02	UMCf	95.1 - 110.1	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-E-06D	6/20/2024	N	EM20	UMCf	95.1 - 110.1	<1.40	<1.22	<3.74	<1.05	<1.01	<1.37	<3.37	<1.05	<4.30	6.97 J
U4-E-06I	4/11/2022	N	BL02	UMCf	73.2 - 88.2	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-E-06I	4/11/2022	FD	BL02	UMCf	73.2 - 88.2	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-E-06I	10/12/2022	N	EM02	UMCf	73.2 - 88.2	0.447 J	<0.122	<0.374	<0.105	4.56	<0.137	<0.337	<0.105	<0.430	0.976 J
U4-E-06I	11/3/2022	N	EM03	UMCf	73.2 - 88.2	0.414 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	2.60 J
U4-E-06I	12/6/2022	N	EM04	UMCf	73.2 - 88.2	<1.40 UJ	<1.22 UJ	<3.74 UJ	<1.05 UJ	<1.01 UJ	<1.37 UJ	<3.37 UJ	<1.05 UJ	<4.30 UJ	6.34 J
U4-E-06I	1/9/2023	N	EM05	UMCf	73.2 - 88.2	0.412 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	2.99 J
U4-E-06I	2/13/2023	N	EM06	UMCf	73.2 - 88.2	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7	<10.5	<43.0	<43.0
U4-E-06I	3/13/2023	N	EM07	UMCf	73.2 - 88.2	<2.80	<2.44	<7.48	<2.10	7.88 J	<2.74	<6.74	<2.10	<8.60	<8.60
U4-E-06I	4/17/2023	N	EM08	UMCf	73.2 - 88.2	<2.80	<2.44	<7.48	<2.10	<2.02	<2.74	<6.74	<2.10	<8.60	<8.60
U4-E-06I	5/15/2023	N	EM09	UMCf	73.2 - 88.2	<3.50	<3.05	<9.35	<2.63	<2.53	<3.43	<8.43	<2.63	<10.7	<10.7
U4-E-06I	6/12/2023	N	EM10	UMCf	73.2 - 88.2	0.486 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.87 J
U4-E-06I	7/11/2023	N	EM11	UMCf	73.2 - 88.2	0.449 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.96 J
U4-E-06I	8/11/2023	N	EM12	UMCf	73.2 - 88.2	<0.700	<0.610	<1.87	<0.525	<0.505	<0.685	<1.69	<0.525	<2.15	2.47 J
U4-E-06I	9/11/2023	N	EM13	UMCf	73.2 - 88.2	0.340 J	<0.122	<0.374	<0.105	7.88	<0.137	<0.337	<0.105	<0.430	2.30 J
U4-E-06I	10/16/2023	N	EM14	UMCf	73.2 - 88.2	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9	<5.25	<21.5	<21.5
U4-E-06I	12/13/2023	N	EM16	UMCf	73.2 - 88.2	<0.140	<0.122	<0.374	<0.105	19.1	<0.137	<0.337	<0.105	<0.430	7.03
U4-E-06I	1/22/2024	N	EM17	UMCf	73.2 - 88.2	<0.140	<0.122	<0.374	<0.105	2.40	<0.137	<0.337	<0.105	<0.430	<0.430
U4-E-06I	2/13/2024	N	EM18	UMCf	73.2 - 88.2	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9	<5.25	<21.5	<21.5
U4-E-06I	3/11/2024	N	EM19	UMCf	73.2 - 88.2	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9	<5.25	<21.5	<21.5
U4-E-06I	6/11/2024	N	EM20	UMCf	73.2 - 88.2	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-E-07D	4/12/2022	N	BL02	UMCf	94.6 - 109.6	1.08	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.637 J
U4-E-07D	6/20/2024	N	EM20	UMCf	94.6 - 109.6	<1.40	<1.22	<3.74	<1.05	<1.01	<1.37	<3.37	<1.05	<4.30	<4.30
U4-E-07I	4/12/2022	N	BL02	UMCf	74.7 - 89.7	0.715 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-E-07I	10/11/2022	N	EM02	UMCf	74.7 - 89.7	<1.40	<1.22	<3.74	<1.05	<1.01	<1.37	<3.37	<1.05	<4.30	<4.30
U4-E-07I	11/3/2022	N	EM03	UMCf	74.7 - 89.7	2.14 J+	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	2.44 J
U4-E-07I	12/6/2022	N	EM04	UMCf	74.7 - 89.7	<3.50 UJ	<3.05 UJ	<9.35 UJ	<2.63 UJ	<2.53 UJ	<3.43 UJ	<8.43 UJ	<2.63 UJ	<10.7 UJ	<10.7 UJ

Table 2
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 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
						Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Diisopropyl Ether (DIPE)	Ethyl Tert-Butyl Ether (ETBE)	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	m,p-Xylene (Sum of Isomers)	Methylene Chloride
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-E-07I	1/9/2023	N	EM05	UMCf	74.7 - 89.7	2.24	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.747 J
U4-E-07I	2/13/2023	N	EM06	UMCf	74.7 - 89.7	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7	<10.5	<43.0	<43.0
U4-E-07I	3/13/2023	N	EM07	UMCf	74.7 - 89.7	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7	<10.5	<43.0	<43.0
U4-E-07I	4/19/2023	N	EM08	UMCf	74.7 - 89.7	1.67 J	<0.610	<1.87	<0.525	<0.505	<0.685	<1.69	<0.525	<2.15	<2.15
U4-E-07I	5/15/2023	N	EM09	UMCf	74.7 - 89.7	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7	<10.5	<43.0	<43.0
U4-E-07I	6/12/2023	N	EM10	UMCf	74.7 - 89.7	1.15	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	2.86 J
U4-E-07I	7/11/2023	N	EM11	UMCf	74.7 - 89.7	1.07	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	3.33 J
U4-E-07I	8/11/2023	N	EM12	UMCf	74.7 - 89.7	<0.700	<0.610	<1.87	<0.525	<0.505	<0.685	<1.69	<0.525	<2.15	3.45 J
U4-E-07I	9/11/2023	N	EM13	UMCf	74.7 - 89.7	1.30	<0.122	<0.374	<0.105	0.286 J	<0.137	<0.337	<0.105	<0.430	1.81 J
U4-E-07I	10/16/2023	N	EM14	UMCf	74.7 - 89.7	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7	<10.5	<43.0	<43.0
U4-E-07I	12/13/2023	N	EM16	UMCf	74.7 - 89.7	1.09	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	2.00 J
U4-E-07I	1/23/2024	N	EM17	UMCf	74.7 - 89.7	0.444 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.88 J
U4-E-07I	2/13/2024	N	EM18	UMCf	74.7 - 89.7	<28.0	<24.4	<74.8	<21.0	<20.2	<27.4	<67.4	<21.0	<86.0	<86.0
U4-E-07I	3/11/2024	N	EM19	UMCf	74.7 - 89.7	<28.0	<24.4	<74.8	<21.0	<20.2	<27.4	<67.4	<21.0	<86.0	<86.0
U4-E-07I	6/11/2024	N	EM20	UMCf	74.7 - 89.7	1.03	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.93 J
U4-E-08D	4/12/2022	N	BL02	UMCf	94.6 - 109.6	1.00 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.819 J
U4-E-08D	10/11/2022	N	EM02	UMCf	94.6 - 109.6	<1.40	<1.22	<3.74	<1.05	<1.01	<1.37	<3.37	<1.05	<4.30	<4.30
U4-E-08D	11/3/2022	N	EM03	UMCf	94.6 - 109.6	0.768 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.540 J
U4-E-08D	12/6/2022	N	EM04	UMCf	94.6 - 109.6	<3.50 UJ	<3.05 UJ	<9.35 UJ	<2.63 UJ	<2.53 UJ	<3.43 UJ	<8.43 UJ	<2.63 UJ	<10.7 UJ	<10.7 UJ
U4-E-08D	1/9/2023	N	EM05	UMCf	94.6 - 109.6	0.743 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.08 J
U4-E-08D	2/13/2023	N	EM06	UMCf	94.6 - 109.6	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7	<10.5	<43.0	<43.0
U4-E-08D	3/13/2023	N	EM07	UMCf	94.6 - 109.6	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7	<10.5	<43.0	<43.0
U4-E-08D	4/19/2023	N	EM08	UMCf	94.6 - 109.6	<0.700	<0.610	<1.87	<0.525	<0.505	<0.685	<1.69	<0.525	<2.15	<2.15
U4-E-08D	5/17/2023	N	EM09	UMCf	94.6 - 109.6	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7	<10.5	<43.0	<43.0
U4-E-08D	6/12/2023	N	EM10	UMCf	94.6 - 109.6	0.399 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.40 J
U4-E-08D	7/11/2023	N	EM11	UMCf	94.6 - 109.6	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.19 J
U4-E-09D	4/15/2022	N	BL02	UMCf	94.5 - 109.5	0.209 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-E-09D	6/10/2024	N	EM20	UMCf	94.5 - 109.5	<2.80	<2.44	<7.48	<2.10	105	<2.74	<6.74	<2.10	<8.60	<8.60
U4-E-09I	4/14/2022	N	BL02	UMCf	74.9 - 89.9	0.576 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-E-09I	6/10/2024	N	EM20	UMCf	74.9 - 89.9	<2.80	<2.44	<7.48	<2.10	662	<2.74	<6.74	<2.10	<8.60	9.00 J
U4-E-09I	6/10/2024	FD	EM20	UMCf	74.9 - 89.9	<2.80	<2.44	<7.48	<2.10	634	<2.74	<6.74	<2.10	<8.60	9.94 J
U4-E-10D	4/13/2022	N	BL02	UMCf	94.5 - 109.5	0.612 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-E-10D	6/19/2024	N	EM20	UMCf	94.5 - 109.5	<1.40	<1.22	<3.74	<1.05	24.8	<1.37	<3.37	<1.05	<4.30	5.87 J
U4-E-10I	4/13/2022	N	BL02	UMCf	74.2 - 89.2	0.441 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-E-10I	6/11/2024	N	EM20	UMCf	74.2 - 89.2	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7	<10.5	<43.0	<43.0
U4-MW-01D	4/19/2022	N	BL02	UMCf	96.7 - 106.7	0.274 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-01D	2/16/2023	N	EM06	UMCf	96.7 - 106.7	<1.40	<1.22	<3.74	<1.05	<1.01	<1.37	<3.37	<1.05	<4.30	<4.30
U4-MW-01D	3/20/2023	N	EM07	UMCf	96.7 - 106.7	1.08	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-01D	6/13/2023	N	EM10	UMCf	96.7 - 106.7	0.948 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-01D	9/14/2023	N	EM13	UMCf	96.7 - 106.7	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-01D	12/14/2023	N	EM16	UMCf	96.7 - 106.7	0.579 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-01D	3/13/2024	N	EM19	UMCf	96.7 - 106.7	0.667 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-01D	6/18/2024	N	EM20	UMCf	96.7 - 106.7	0.634 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430

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
						Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Diisopropyl Ether (DIPE)	Ethyl Tert-Butyl Ether (ETBE)	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	m,p-Xylene (Sum of Isomers)	Methylene Chloride
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-01DD	4/19/2022	N	BL02	UMCf	119.9 - 129.9	0.190 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-01DD	4/19/2022	FD	BL02	UMCf	119.9 - 129.9	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-01DD	3/15/2023	N	EM07	UMCf	119.9 - 129.9	0.307 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-01DD	6/13/2023	N	EM10	UMCf	119.9 - 129.9	0.722 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-01DD	9/14/2023	N	EM13	UMCf	119.9 - 129.9	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-01DD	12/15/2023	N	EM16	UMCf	119.9 - 129.9	<0.700	<0.610	<1.87	<0.525	<0.505	<0.685	<1.69	<0.525	<2.15	<2.15
U4-MW-01DD	3/12/2024	N	EM19	UMCf	119.9 - 129.9	<0.700	<0.610	<1.87	<0.525	<0.505	<0.685	<1.69	<0.525	<2.15	<2.15
U4-MW-01DD	6/18/2024	N	EM20	UMCf	119.9 - 129.9	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-01I	4/19/2022	N	BL02	UMCf	76.7 - 86.7	0.259 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-01I	3/20/2023	N	EM07	UMCf	76.7 - 86.7	1.10	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-01I	6/12/2023	N	EM10	UMCf	76.7 - 86.7	0.777 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-01I	9/14/2023	N	EM13	UMCf	76.7 - 86.7	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-01I	12/15/2023	N	EM16	UMCf	76.7 - 86.7	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9	<5.25	<21.5	<21.5
U4-MW-01I	3/13/2024	N	EM19	UMCf	76.7 - 86.7	0.555 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.430 J
U4-MW-01I	6/18/2024	N	EM20	UMCf	76.7 - 86.7	0.451 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-01S	4/18/2022	N	BL02	UMCf	54.7 - 64.7	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-01S	3/15/2023	N	EM07	UMCf	54.7 - 64.7	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-01S	6/13/2023	N	EM10	UMCf	54.7 - 64.7	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-01S	9/15/2023	N	EM13	UMCf	54.7 - 64.7	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-01S	12/13/2023	N	EM16	UMCf	54.7 - 64.7	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-01S	3/13/2024	N	EM19	UMCf	54.7 - 64.7	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-01S	6/18/2024	N	EM20	UMCf	54.7 - 64.7	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-02D	4/14/2022	N	BL02	UMCf	95.0 - 110.0	3.00	0.473 J	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.47 J
U4-MW-02D	10/11/2022	N	EM02	UMCf	95.0 - 110.0	4.51	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.47 J
U4-MW-02D	11/1/2022	N	EM03	UMCf	95.0 - 110.0	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9	<5.25	<21.5	<21.5
U4-MW-02D	12/7/2022	N	EM04	UMCf	95.0 - 110.0	4.53	0.149 J	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.73 J
U4-MW-02D	1/10/2023	N	EM05	UMCf	95.0 - 110.0	3.70	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.33 J
U4-MW-02D	2/13/2023	N	EM06	UMCf	95.0 - 110.0	3.77	0.157 J	<0.374	<0.105	<0.101	<0.137	<0.337 UJ	<0.105	<0.430	1.36 J
U4-MW-02D	3/17/2023	N	EM07	UMCf	95.0 - 110.0	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7	<10.5	<43.0	<43.0
U4-MW-02D	4/19/2023	N	EM08	UMCf	95.0 - 110.0	3.33 J	<0.610	<1.87	<0.525	<0.505	<0.685	<1.69	<0.525	<2.15	<2.15
U4-MW-02D	5/9/2023	N	EM09	UMCf	95.0 - 110.0	3.44 J	<0.610	<1.87	<0.525	<0.505	<0.685	<1.69	<0.525	<2.15	<2.15
U4-MW-02D	6/13/2023	N	EM10	UMCf	95.0 - 110.0	2.86	0.148 J	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.831 J
U4-MW-02D	7/18/2023	N	EM11	UMCf	95.0 - 110.0	4.13	0.170 J	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.16 J
U4-MW-02D	8/14/2023	N	EM12	UMCf	95.0 - 110.0	<35.0	<30.5	<93.5	<26.3	<25.3	<34.3	<84.3	<26.3	<108	<108
U4-MW-02D	9/11/2023	N	EM13	UMCf	95.0 - 110.0	2.71	0.152 J	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-02D	10/19/2023	N	EM14	UMCf	95.0 - 110.0	3.45	<0.122	<37.4	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.37 J
U4-MW-02D	11/15/2023	N	EM15	UMCf	95.0 - 110.0	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7	<10.5	<43.0	<43.0
U4-MW-02D	12/14/2023	N	EM16	UMCf	95.0 - 110.0	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7	<10.5	<43.0	<43.0
U4-MW-02D	1/25/2024	N	EM17	UMCf	95.0 - 110.0	3.42	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.887 J
U4-MW-02D	2/12/2024	N	EM18	UMCf	95.0 - 110.0	2.01	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.09 J
U4-MW-02D	3/13/2024	N	EM19	UMCf	95.0 - 110.0	2.36	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.14 J
U4-MW-02D	6/17/2024	N	EM20	UMCf	95.0 - 110.0	1.95	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	12.2
U4-MW-02I	4/14/2022	N	BL02	UMCf	75.0 - 90.0	1.22	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430

Table 2
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 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
						Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Diisopropyl Ether (DIPE)	Ethyl Tert-Butyl Ether (ETBE)	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	m,p-Xylene (Sum of Isomers)	Methylene Chloride
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-02I	10/11/2022	N	EM02	UMCf	75.0 - 90.0	1.94	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.571 J
U4-MW-02I	11/2/2022	N	EM03	UMCf	75.0 - 90.0	<1.40	<1.22	<3.74	<1.05	<1.01	<1.37	<3.37	<1.05	<4.30	4.54 J
U4-MW-02I	11/2/2022	FD	EM03	UMCf	75.0 - 90.0	<1.40	<1.22	<3.74	<1.05	<1.01	<1.37	<3.37	<1.05	<4.30	<4.30
U4-MW-02I	12/8/2022	N	EM04	UMCf	75.0 - 90.0	0.184 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	0.335 J	<0.430	3.23 J
U4-MW-02I	12/8/2022	FD	EM04	UMCf	75.0 - 90.0	0.426 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	12.3 J
U4-MW-02I	1/13/2023	N	EM05	UMCf	75.0 - 90.0	<1.40	<1.22	<3.74	<1.05	<1.01	<1.37	<3.37	<1.05	<4.30	<4.30
U4-MW-02I	1/13/2023	FD	EM05	UMCf	75.0 - 90.0	<1.40	<1.22	<3.74	<1.05	<1.01	<1.37	<3.37	<1.05	<4.30	<4.30
U4-MW-02I	2/15/2023	N	EM06	UMCf	75.0 - 90.0	4.74 J	<1.22	<3.74	<1.05	<1.01	<1.37	<3.37	<1.05	<4.30	<4.30
U4-MW-02I	2/15/2023	FD	EM06	UMCf	75.0 - 90.0	4.62 J	<1.22	<3.74	<1.05	<1.01	<1.37	<3.37	<1.05	<4.30	<4.30
U4-MW-02I	3/17/2023	N	EM07	UMCf	75.0 - 90.0	<28.0	<24.4	<74.8	<21.0	<20.2	<27.4	<67.4	<21.0	<86.0	<86.0
U4-MW-02I	3/17/2023	FD	EM07	UMCf	75.0 - 90.0	<28.0	<24.4	<74.8	<21.0	<20.2	<27.4	<67.4	<21.0	<86.0	<86.0
U4-MW-02I	4/20/2023	N	EM08	UMCf	75.0 - 90.0	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	6.15
U4-MW-02I	4/20/2023	FD	EM08	UMCf	75.0 - 90.0	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	6.54
U4-MW-02I	5/9/2023	N	EM09	UMCf	75.0 - 90.0	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	9.93 J+
U4-MW-02I	5/9/2023	FD	EM09	UMCf	75.0 - 90.0	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	9.73 J+
U4-MW-02I	6/12/2023	N	EM10	UMCf	75.0 - 90.0	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	6.47
U4-MW-02I	6/12/2023	FD	EM10	UMCf	75.0 - 90.0	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	6.42
U4-MW-02I	7/18/2023	N	EM11	UMCf	75.0 - 90.0	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.55 J
U4-MW-02I	7/18/2023	FD	EM11	UMCf	75.0 - 90.0	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	2.01 J
U4-MW-02I	8/11/2023	N	EM12	UMCf	75.0 - 90.0	0.719 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	6.37
U4-MW-02I	8/11/2023	FD	EM12	UMCf	75.0 - 90.0	0.705 J	0.123 J	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	6.77
U4-MW-02I	9/11/2023	N	EM13	UMCf	75.0 - 90.0	0.410 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	5.18
U4-MW-02I	9/11/2023	FD	EM13	UMCf	75.0 - 90.0	0.669 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	5.32
U4-MW-02I	10/19/2023	N	EM14	UMCf	75.0 - 90.0	1.74 J-	<0.122 UJ	<18.7 UJ	<0.105 UJ	<0.101 UJ	<0.137 UJ	<0.337 UJ	<0.105 UJ	<0.430 UJ	4.79 J
U4-MW-02I	10/19/2023	FD	EM14	UMCf	75.0 - 90.0	1.82	0.166 J	<18.7	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	5.03
U4-MW-02I	11/15/2023	N	EM15	UMCf	75.0 - 90.0	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9	<5.25	<21.5	<21.5
U4-MW-02I	11/15/2023	FD	EM15	UMCf	75.0 - 90.0	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9	<5.25	<21.5	<21.5
U4-MW-02I	12/14/2023	N	EM16	UMCf	75.0 - 90.0	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9	<5.25	<21.5	<21.5
U4-MW-02I	12/14/2023	FD	EM16	UMCf	75.0 - 90.0	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9	<5.25	<21.5	<21.5
U4-MW-02I	1/25/2024	N	EM17	UMCf	75.0 - 90.0	2.81	<0.122	<0.374	<0.105	11.2 J	<0.137	<0.337	<0.105	<0.430	5.02
U4-MW-02I	1/25/2024	FD	EM17	UMCf	75.0 - 90.0	2.93	<0.122	<0.374	<0.105	<0.101 UJ	<0.137	<0.337	<0.105	<0.430	5.28
U4-MW-02I	2/12/2024	N	EM18	UMCf	75.0 - 90.0	2.34	<0.122	<0.374	<0.105	14.4	<0.137	<0.337	<0.105	<0.430	4.32 J
U4-MW-02I	2/12/2024	FD	EM18	UMCf	75.0 - 90.0	2.02	<0.122	<0.374	<0.105	16.6	<0.137	<0.337	<0.105	<0.430	4.34 J
U4-MW-02I	3/13/2024	N	EM19	UMCf	75.0 - 90.0	1.82	<0.122	<0.374	<0.105	19.5	<0.137	<0.337	<0.105	<0.430	3.77 J
U4-MW-02I	3/13/2024	FD	EM19	UMCf	75.0 - 90.0	2.09	<0.122	<0.374	<0.105	21.3	<0.137	<0.337	<0.105	<0.430	4.23 J
U4-MW-02I	6/17/2024	N	EM20	UMCf	75.0 - 90.0	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9	<5.25	<21.5	<21.5
U4-MW-02I	6/17/2024	FD	EM20	UMCf	75.0 - 90.0	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9	<5.25	<21.5	<21.5
U4-MW-03D	4/20/2022	N	BL02	UMCf	96.6 - 106.6	0.605 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-03D	2/16/2023	N	EM06	UMCf	96.6 - 106.6	<0.700	<0.610	<1.87	<0.525	<0.505	<0.685	<1.69	<0.525	<2.15	<2.15
U4-MW-03D	3/16/2023	N	EM07	UMCf	96.6 - 106.6	<2.80	<2.44	<7.48	<2.10	<2.02	<2.74	<6.74	<2.10	<8.60	<8.60
U4-MW-03D	3/16/2023	FD	EM07	UMCf	96.6 - 106.6	<0.700	<0.610	<1.87	<0.525	<0.505	<0.685	<1.69	<0.525	<2.15	<2.15
U4-MW-03D	6/15/2023	N	EM10	UMCf	96.6 - 106.6	<0.140	<0.122 UJ	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-03D	9/14/2023	N	EM13	UMCf	96.6 - 106.6	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	2.28 J

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
						Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Diisopropyl Ether (DIPE)	Ethyl Tert-Butyl Ether (ETBE)	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	m,p-Xylene (Sum of Isomers)	Methylene Chloride
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-03D	12/13/2023	N	EM16	UMCf	96.6 - 106.6	0.789 J	<0.122	<0.374	<0.105	1.85	<0.137	<0.337	<0.105	<0.430	4.36 J
U4-MW-03D	3/15/2024	N	EM19	UMCf	96.6 - 106.6	0.488 J	<0.122	<0.374	<0.105	0.555 J	<0.137	<0.337	<0.105	<0.430	4.41 J
U4-MW-03D	6/17/2024	N	EM20	UMCf	96.6 - 106.6	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9	<5.25	<21.5	<21.5
U4-MW-03DD	4/20/2022	N	BL02	UMCf	119.7 - 129.7	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-03DD	3/15/2023	N	EM07	UMCf	119.7 - 129.7	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-03DD	6/15/2023	N	EM10	UMCf	119.7 - 129.7	<0.140	<0.122 UJ	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-03DD	9/14/2023	N	EM13	UMCf	119.7 - 129.7	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-03DD	12/14/2023	N	EM16	UMCf	119.7 - 129.7	<0.140	<0.122	<0.374	<0.105	1.06	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-03DD	3/14/2024	N	EM19	UMCf	119.7 - 129.7	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-03DD	6/17/2024	N	EM20	UMCf	119.7 - 129.7	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-03I	4/19/2022	N	BL02	UMCf	76.6 - 86.6	0.457 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-03I	3/15/2023	N	EM07	UMCf	76.6 - 86.6	1.01	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-03I	6/14/2023	N	EM10	UMCf	76.6 - 86.6	<2.80	<2.44	<7.48	<2.10	<2.02	<2.74	<6.74	<2.10	<8.60	<8.60
U4-MW-03I	6/14/2023	FD	EM10	UMCf	76.6 - 86.6	<3.50	<3.05	<9.35	<2.63	<2.53	<3.43	<8.43	<2.63	<10.7	<10.7
U4-MW-03I	9/11/2023	N	EM13	UMCf	76.6 - 86.6	0.877 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-03I	9/11/2023	FD	EM13	UMCf	76.6 - 86.6	1.00 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-03I	12/13/2023	N	EM16	UMCf	76.6 - 86.6	0.739 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	3.61 J
U4-MW-03I	12/13/2023	FD	EM16	UMCf	76.6 - 86.6	0.817 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	3.29 J
U4-MW-03I	3/14/2024	N	EM19	UMCf	76.6 - 86.6	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9	<5.25	<21.5	<21.5
U4-MW-03I	3/14/2024	FD	EM19	UMCf	76.6 - 86.6	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9	<5.25	<21.5	<21.5
U4-MW-03I	6/19/2024	N	EM20	UMCf	76.6 - 86.6	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9	<5.25	<21.5	<21.5
U4-MW-03I	6/19/2024	FD	EM20	UMCf	76.6 - 86.6	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9	<5.25	<21.5	<21.5
U4-MW-03S	4/18/2022	N	BL02	UMCf	54.5 - 64.5	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-03S	4/18/2022	FD	BL02	UMCf	54.5 - 64.5	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-03S	3/15/2023	N	EM07	UMCf	54.5 - 64.5	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-03S	6/15/2023	N	EM10	UMCf	54.5 - 64.5	<0.140	<0.122 UJ	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-03S	9/14/2023	N	EM13	UMCf	54.5 - 64.5	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-03S	12/13/2023	N	EM16	UMCf	54.5 - 64.5	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-03S	3/14/2024	N	EM19	UMCf	54.5 - 64.5	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-03S	6/14/2024	N	EM20	UMCf	54.5 - 64.5	<0.140	<0.122 UJ	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-04D	4/19/2022	N	BL02	UMCf	97.0 - 107.0	1.42	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.856 J
U4-MW-04D	2/16/2023	N	EM06	UMCf	97.0 - 107.0	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9	<5.25	<21.5	<21.5
U4-MW-04D	3/21/2023	N	EM07	UMCf	97.0 - 107.0	0.946 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-04D	6/14/2023	N	EM10	UMCf	97.0 - 107.0	0.643 J	<0.122	<0.374	<0.105	0.126 J	<0.137	<0.337	<0.105	<0.430	0.479 J
U4-MW-04D	9/15/2023	N	EM13	UMCf	97.0 - 107.0	0.612 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.580 J
U4-MW-04D	12/12/2023	N	EM16	UMCf	97.0 - 107.0	0.499 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.64 J
U4-MW-04D	3/12/2024	N	EM19	UMCf	97.0 - 107.0	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9	<5.25	<21.5	<21.5
U4-MW-04D	6/19/2024	N	EM20	UMCf	97.0 - 107.0	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9	<5.25	<21.5	<21.5
U4-MW-04I	4/19/2022	N	BL02	UMCf	76.8 - 86.8	0.749 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-04I	3/20/2023	N	EM07	UMCf	76.8 - 86.8	1.06	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.491 J
U4-MW-04I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	0.810 J	<0.610	<1.87	<0.525	<0.505	<0.685	<1.69	<0.525	<2.15	<2.15
U4-MW-04I	9/14/2023	N	EM13	UMCf	76.8 - 86.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.693 J
U4-MW-04I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	1.64	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.07 J

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
						Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Diisopropyl Ether (DIPE)	Ethyl Tert-Butyl Ether (ETBE)	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	m,p-Xylene (Sum of Isomers)	Methylene Chloride
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-04I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	<28.0	<24.4	<74.8	<21.0	<20.2	<27.4	<67.4	<21.0	<86.0	<86.0
U4-MW-04I	6/18/2024	N	EM20	UMCf	76.8 - 86.8	<0.700	<0.610	<1.87	<0.525	<0.505	<0.685	<1.69	<0.525	<2.15	<2.15
U4-MW-05D	4/15/2022	N	BL02	UMCf	98.2 - 108.2	7.16	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-05D	10/13/2022	N	EM02	UMCf	98.2 - 108.2	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7	<10.5	<43.0	<43.0
U4-MW-05D	11/3/2022	N	EM03	UMCf	98.2 - 108.2	6.10	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.767 J
U4-MW-05D	12/7/2022	N	EM04	UMCf	98.2 - 108.2	6.85	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.757 J
U4-MW-05D	1/11/2023	N	EM05	UMCf	98.2 - 108.2	5.60	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.566 J
U4-MW-05D	2/14/2023	N	EM06	UMCf	98.2 - 108.2	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7	<10.5	<43.0	<43.0
U4-MW-05D	3/16/2023	N	EM07	UMCf	98.2 - 108.2	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7	<10.5	<43.0	<43.0
U4-MW-05D	4/20/2023	N	EM08	UMCf	98.2 - 108.2	2.41	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-05D	5/10/2023	N	EM09	UMCf	98.2 - 108.2	1.81	0.311 J	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	4.02 J
U4-MW-05D	6/15/2023	N	EM10	UMCf	98.2 - 108.2	1.13	<0.122 UJ	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	7.82
U4-MW-05D	7/18/2023	N	EM11	UMCf	98.2 - 108.2	1.41	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	6.87
U4-MW-05D	8/14/2023	N	EM12	UMCf	98.2 - 108.2	<3.50	<3.05	<9.35	<2.63	<2.53	<3.43	<8.43	<2.63	<10.7	<10.7
U4-MW-05D	9/12/2023	N	EM13	UMCf	98.2 - 108.2	<3.50	<3.05	<9.35	<2.63	<2.53	<3.43	<8.43	<2.63	<10.7	<10.7
U4-MW-05D	10/18/2023	N	EM14	UMCf	98.2 - 108.2	<3.50	<3.05	<9.35	<2.63	<2.53	<3.43	<8.43	<2.63	<10.7	<10.7
U4-MW-05D	11/16/2023	N	EM15	UMCf	98.2 - 108.2	<3.50	<3.05	<9.35	<2.63	<2.53	<3.43	<8.43	<2.63	<10.7	<10.7
U4-MW-05D	12/14/2023	N	EM16	UMCf	98.2 - 108.2	<3.50	<3.05	<9.35	<2.63	51.7	<3.43	<8.43	<2.63	<10.7	<10.7
U4-MW-05D	1/26/2024	N	EM17	UMCf	98.2 - 108.2	0.963 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	4.45 J
U4-MW-05D	2/14/2024	N	EM18	UMCf	98.2 - 108.2	1.09	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	3.87
U4-MW-05D	3/12/2024	N	EM19	UMCf	98.2 - 108.2	<3.50	<3.05	<9.35	<2.63	42.5	<3.43	<8.43	<2.63	<10.7	<10.7
U4-MW-05D	6/18/2024	N	EM20	UMCf	98.2 - 108.2	0.895 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	5.35
U4-MW-05I	4/15/2022	N	BL02	UMCf	76.6 - 86.6	4.75	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-05I	10/13/2022	N	EM02	UMCf	76.6 - 86.6	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7	<10.5	<43.0	<43.0
U4-MW-05I	11/3/2022	N	EM03	UMCf	76.6 - 86.6	7.90	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.570 J
U4-MW-05I	12/8/2022	N	EM04	UMCf	76.6 - 86.6	6.57	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.635 J
U4-MW-05I	1/11/2023	N	EM05	UMCf	76.6 - 86.6	6.99	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.474 J
U4-MW-05I	2/14/2023	N	EM06	UMCf	76.6 - 86.6	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7	<10.5	<43.0	<43.0
U4-MW-05I	3/14/2023	N	EM07	UMCf	76.6 - 86.6	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7	<10.5	<43.0	<43.0
U4-MW-05I	4/21/2023	N	EM08	UMCf	76.6 - 86.6	0.942 J	0.197 J	<0.374	<0.105	<0.101	<0.137 UJ	<0.337	<0.105	<0.430	0.722 J
U4-MW-05I	5/10/2023	N	EM09	UMCf	76.6 - 86.6	<0.140	0.447 J	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	32.9
U4-MW-05I	6/15/2023	N	EM10	UMCf	76.6 - 86.6	<0.140	<0.122 UJ	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	17.1
U4-MW-05I	7/17/2023	N	EM11	UMCf	76.6 - 86.6	1.27	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	10.5
U4-MW-05I	8/14/2023	N	EM12	UMCf	76.6 - 86.6	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9	<5.25	<21.5	<21.5
U4-MW-05I	9/13/2023	N	EM13	UMCf	76.6 - 86.6	0.560 J	0.225 J	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	9.65
U4-MW-05I	10/18/2023	N	EM14	UMCf	76.6 - 86.6	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9	<5.25	<21.5	<21.5
U4-MW-05I	11/15/2023	N	EM15	UMCf	76.6 - 86.6	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9	<5.25	<21.5	<21.5
U4-MW-05I	12/12/2023	N	EM16	UMCf	76.6 - 86.6	0.789 J	<0.122	<0.374	<0.105	18.1	<0.137	<0.337	<0.105	<0.430	8.12
U4-MW-05I	1/26/2024	N	EM17	UMCf	76.6 - 86.6	0.881 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	5.12
U4-MW-05I	2/14/2024	N	EM18	UMCf	76.6 - 86.6	0.724	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	4.40
U4-MW-05I	3/11/2024	N	EM19	UMCf	76.6 - 86.6	0.950 J	0.253 J	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	5.86
U4-MW-05I	6/18/2024	N	EM20	UMCf	76.6 - 86.6	0.734 J	0.260 J	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	4.73 J
U4-MW-06D	4/19/2022	N	BL02	UMCf	97.1 - 107.1	3.82	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.58 J

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
						Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Diisopropyl Ether (DIPE)	Ethyl Tert-Butyl Ether (ETBE)	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	m,p-Xylene (Sum of Isomers)	Methylene Chloride
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-06D	2/15/2023	N	EM06	UMCf	97.1 - 107.1	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9	<5.25	<21.5	<21.5
U4-MW-06D	3/21/2023	N	EM07	UMCf	97.1 - 107.1	2.77	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.567 J
U4-MW-06D	6/16/2023	N	EM10	UMCf	97.1 - 107.1	2.12	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.542 J
U4-MW-06D	9/13/2023	N	EM13	UMCf	97.1 - 107.1	1.32	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	4.45 J
U4-MW-06D	12/13/2023	N	EM16	UMCf	97.1 - 107.1	1.61	<0.122	<0.374	<0.105	10.3	<0.137	<0.337	<0.105	<0.430	3.87 J
U4-MW-06D	3/14/2024	N	EM19	UMCf	97.1 - 107.1	<7.00	<6.10	<18.7	<5.25	32.3 J	<6.85	<16.9	<5.25	<21.5	<21.5
U4-MW-06D	6/12/2024	N	EM20	UMCf	97.1 - 107.1	0.767 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	3.26 J
U4-MW-06I	4/19/2022	N	BL02	UMCf	76.5 - 86.5	0.273 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-06I	3/14/2023	N	EM07	UMCf	76.5 - 86.5	3.44	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.560 J
U4-MW-06I	6/16/2023	N	EM10	UMCf	76.5 - 86.5	2.69	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.28 J
U4-MW-06I	9/12/2023	N	EM13	UMCf	76.5 - 86.5	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9	<5.25	<21.5	<21.5
U4-MW-06I	12/12/2023	N	EM16	UMCf	76.5 - 86.5	2.54	<0.122	<0.374	<0.105	4.31	<0.137	<0.337	<0.105	<0.430	2.87 J
U4-MW-06I	3/14/2024	N	EM19	UMCf	76.5 - 86.5	<14.0	<12.2	<37.4	<10.5	15.8 J	<13.7	<33.7	<10.5	<43.0	<43.0
U4-MW-06I	6/11/2024	N	EM20	UMCf	76.5 - 86.5	1.39	0.169 J	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	3.32 J
U4-MW-07D	4/15/2022	N	BL02	UMCf	96.8 - 106.5	0.410 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-07D	10/12/2022	N	EM02	UMCf	96.8 - 106.5	2.38	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-07D	10/12/2022	FD	EM02	UMCf	96.8 - 106.5	1.83	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-07D	11/3/2022	N	EM03	UMCf	96.8 - 106.5	2.53 J+	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-07D	12/7/2022	N	EM04	UMCf	96.8 - 106.5	2.25	0.240 J	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-07D	1/11/2023	N	EM05	UMCf	96.8 - 106.5	1.21	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-07D	2/14/2023	N	EM06	UMCf	96.8 - 106.5	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-07D	3/16/2023	N	EM07	UMCf	96.8 - 106.5	0.211 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-07D	4/21/2023	N	EM08	UMCf	96.8 - 106.5	0.146 J	0.125 J	<0.374	<0.105	<0.101	<0.137 UJ	<0.337	<0.105	<0.430	1.37 J
U4-MW-07D	5/11/2023	N	EM09	UMCf	96.8 - 106.5	<0.140 UJ	<0.122 UJ	<0.374	<0.105	1.69	<0.137	<0.337	<0.105	<0.430	11.0
U4-MW-07D	6/13/2023	N	EM10	UMCf	96.8 - 106.5	0.295 J	<0.122 UJ	<0.374 UJ	<0.105 UJ	<0.101 UJ	<0.137 UJ	<0.337 UJ	<0.105 UJ	<0.430 UJ	2.86 J
U4-MW-07D	7/17/2023	N	EM11	UMCf	96.8 - 106.5	1.57	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	3.05 J
U4-MW-07D	8/11/2023	N	EM12	UMCf	96.8 - 106.5	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	8.31
U4-MW-07D	9/13/2023	N	EM13	UMCf	96.8 - 106.5	0.754 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	5.26
U4-MW-07D	10/18/2023	N	EM14	UMCf	96.8 - 106.5	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7	<10.5	<43.0	<43.0
U4-MW-07D	11/16/2023	N	EM15	UMCf	96.8 - 106.5	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7	<10.5	<43.0	<43.0
U4-MW-07D	12/12/2023	N	EM16	UMCf	96.8 - 106.5	0.567 J	<0.122	<0.374	<0.105	22.0	<0.137	<0.337	0.120 J	<0.430	4.57 J
U4-MW-07D	1/26/2024	N	EM17	UMCf	96.8 - 106.5	0.176 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	4.71 J
U4-MW-07D	2/13/2024	N	EM18	UMCf	96.8 - 106.5	<3.50	<3.05	<9.35	<2.63	<2.53	<3.43	<8.43	<2.63	<10.7	<10.7
U4-MW-07D	3/11/2024	N	EM19	UMCf	96.8 - 106.5	<3.50	<3.05	<9.35	<2.63	317	<3.43	<8.43	<2.63	<10.7	<10.7
U4-MW-07D	6/12/2024	N	EM20	UMCf	96.8 - 106.5	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	3.58 J
U4-MW-07I	4/15/2022	N	BL02	UMCf	76.8 - 86.8	0.189 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-07I	10/12/2022	N	EM02	UMCf	76.8 - 86.8	3.22	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.478 J
U4-MW-07I	11/3/2022	N	EM03	UMCf	76.8 - 86.8	2.52 J+	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-07I	12/7/2022	N	EM04	UMCf	76.8 - 86.8	2.47	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-07I	1/11/2023	N	EM05	UMCf	76.8 - 86.8	1.11	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-07I	2/15/2023	N	EM06	UMCf	76.8 - 86.8	0.700 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-07I	3/16/2023	N	EM07	UMCf	76.8 - 86.8	<0.700	<0.610	<1.87	<0.525	<0.505	<0.685	<1.69	<0.525	<2.15	<2.15
U4-MW-07I	4/21/2023	N	EM08	UMCf	76.8 - 86.8	0.559 J	<0.122	<0.374	<0.105	<0.101	<0.137 UJ	<0.337	<0.105	<0.430	<0.430

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
						Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Diisopropyl Ether (DIPE)	Ethyl Tert-Butyl Ether (ETBE)	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	m,p-Xylene (Sum of Isomers)	Methylene Chloride
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-07I	5/11/2023	N	EM09	UMCf	76.8 - 86.8	<0.140	<0.122	<0.374	<0.105	7.26	<0.137	<0.337	<0.105	<0.430	2.67 J
U4-MW-07I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<0.700	<0.610	<1.87	<0.525	<0.505	<0.685	<1.69	<0.525	<2.15	8.82 J
U4-MW-07I	7/17/2023	N	EM11	UMCf	76.8 - 86.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	4.27 J
U4-MW-07I	8/11/2023	N	EM12	UMCf	76.8 - 86.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	10.9
U4-MW-07I	9/13/2023	N	EM13	UMCf	76.8 - 86.8	0.511 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	10.5
U4-MW-07I	10/18/2023	N	EM14	UMCf	76.8 - 86.8	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9	<5.25	<21.5	<21.5
U4-MW-07I	11/16/2023	N	EM15	UMCf	76.8 - 86.8	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9	<5.25	<21.5	<21.5
U4-MW-07I	12/11/2023	N	EM16	UMCf	76.8 - 86.8	0.760 J	<0.122	<0.374	<0.105	7.52	<0.137	<0.337	<0.105	<0.430	8.19
U4-MW-07I	1/26/2024	N	EM17	UMCf	76.8 - 86.8	0.290 J	0.270 J	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	7.02
U4-MW-07I	2/13/2024	N	EM18	UMCf	76.8 - 86.8	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9	<5.25	<21.5	<21.5
U4-MW-07I	3/11/2024	N	EM19	UMCf	76.8 - 86.8	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9	<5.25	<21.5	<21.5
U4-MW-07I	6/12/2024	N	EM20	UMCf	76.8 - 86.8	0.191 J	0.346 J	<0.374	<0.105	<0.101	0.181 J	<0.337	<0.105	<0.430	6.87
U4-MW-08D	4/13/2022	N	BL02	UMCf	98.6 - 108.6	0.370 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-08D	12/7/2022	N	EM04	UMCf	98.6 - 108.6	1.82	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.846 J
U4-MW-08D	3/17/2023	N	EM07	UMCf	98.6 - 108.6	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7	<10.5	<43.0	<43.0
U4-MW-08D	6/13/2023	N	EM10	UMCf	98.6 - 108.6	0.778 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	4.91 J
U4-MW-08D	9/13/2023	N	EM13	UMCf	98.6 - 108.6	1.83	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.64 J
U4-MW-08D	12/11/2023	N	EM16	UMCf	98.6 - 108.6	1.27	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	2.12 J
U4-MW-08D	3/12/2024	N	EM19	UMCf	98.6 - 108.6	<28.0	<24.4	<74.8	<21.0	<20.2	<27.4	<67.4	<21.0	<86.0	<86.0
U4-MW-08D	6/14/2024	N	EM20	UMCf	98.6 - 108.6	<28.0	<24.4 UJ	<74.8	<21.0	<20.2	<27.4	<67.4	<21.0	<86.0	<86.0
U4-MW-08DD	4/20/2022	N	BL02	UMCf	119.8 - 129.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-08DD	4/20/2022	FD	BL02	UMCf	119.8 - 129.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-08DD	12/8/2022	N	EM04	UMCf	119.8 - 129.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-08DD	3/15/2023	N	EM07	UMCf	119.8 - 129.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-08DD	6/14/2023	N	EM10	UMCf	119.8 - 129.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-08DD	9/14/2023	N	EM13	UMCf	119.8 - 129.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-08DD	12/14/2023	N	EM16	UMCf	119.8 - 129.8	<0.140	<0.122	<0.374	<0.105	17.5	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-08DD	3/14/2024	N	EM19	UMCf	119.8 - 129.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-08DD	6/12/2024	N	EM20	UMCf	119.8 - 129.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-08I	4/13/2022	N	BL02	UMCf	78.0 - 88.0	1.76	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.14 J
U4-MW-08I	12/7/2022	N	EM04	UMCf	78.0 - 88.0	1.02	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-08I	12/7/2022	FD	EM04	UMCf	78.0 - 88.0	1.05	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.436 J
U4-MW-08I	3/17/2023	N	EM07	UMCf	78.0 - 88.0	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9	<5.25	<21.5	<21.5
U4-MW-08I	6/13/2023	N	EM10	UMCf	78.0 - 88.0	0.497 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.94 J
U4-MW-08I	9/13/2023	N	EM13	UMCf	78.0 - 88.0	1.34	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	5.22
U4-MW-08I	12/11/2023	N	EM16	UMCf	78.0 - 88.0	1.38	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	9.52 J+
U4-MW-08I	3/12/2024	N	EM19	UMCf	78.0 - 88.0	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7	<10.5	<43.0	<43.0
U4-MW-08I	6/14/2024	N	EM20	UMCf	78.0 - 88.0	<14.0	<12.2 UJ	<37.4	<10.5	<10.1	<13.7	<33.7	<10.5	<43.0	<43.0
U4-MW-08S	4/15/2022	N	BL02	UMCf	54.9 - 64.9	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-08S	12/7/2022	N	EM04	UMCf	54.9 - 64.9	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-08S	12/7/2022	FD	EM04	UMCf	54.9 - 64.9	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-08S	3/13/2023	N	EM07	UMCf	54.9 - 64.9	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-08S	3/13/2023	FD	EM07	UMCf	54.9 - 64.9	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430

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
						Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Diisopropyl Ether (DIPE)	Ethyl Tert-Butyl Ether (ETBE)	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	m,p-Xylene (Sum of Isomers)	Methylene Chloride
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-08S	6/13/2023	N	EM10	UMCf	54.9 - 64.9	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	2.53 J
U4-MW-08S	6/13/2023	FD	EM10	UMCf	54.9 - 64.9	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	2.59 J
U4-MW-08S	9/13/2023	N	EM13	UMCf	54.9 - 64.9	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-08S	9/13/2023	FD	EM13	UMCf	54.9 - 64.9	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-08S	12/14/2023	N	EM16	UMCf	54.9 - 64.9	<0.140	<0.122	<0.374	<0.105	37.7	<0.137	<0.337	<0.105	<0.430	3.66 J
U4-MW-08S	12/14/2023	FD	EM16	UMCf	54.9 - 64.9	<0.140	<0.122	<0.374	<0.105	40.3	<0.137	<0.337	<0.105	<0.430	3.81 J
U4-MW-08S	3/14/2024	N	EM19	UMCf	54.9 - 64.9	<0.280 UJ	<0.244 UJ	<0.748 UJ	<0.210 UJ	<0.202 UJ	<0.274 UJ	<0.674 UJ	<0.210 UJ	<0.860 UJ	2.46 J
U4-MW-08S	3/14/2024	FD	EM19	UMCf	54.9 - 64.9	<0.280 UJ	<0.244 UJ	<0.748 UJ	<0.210 UJ	<0.202 UJ	<0.274 UJ	<0.674 UJ	<0.210 UJ	<0.860 UJ	3.53 J
U4-MW-08S	3/25/2024	N	EM19	UMCf	54.9 - 64.9	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137 UJ	<0.337	<0.105	<0.430 UJ	0.481 J
U4-MW-08S	3/25/2024	FD	EM19	UMCf	54.9 - 64.9	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137 UJ	<0.337	<0.105	<0.430 UJ	0.528 J
U4-MW-08S	6/14/2024	N	EM20	UMCf	54.9 - 64.9	<0.140	<0.122 UJ	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-08S	6/14/2024	FD	EM20	UMCf	54.9 - 64.9	<0.140	<0.122 UJ	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-09D	4/14/2022	N	BL02	UMCf	96.9 - 106.9	0.814 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.520 J
U4-MW-09D	12/6/2022	N	EM04	UMCf	96.9 - 106.9	2.99 J	<1.22 UJ	<3.74 UJ	<1.05 UJ	<1.01 UJ	<1.37 UJ	<3.37 UJ	<1.05 UJ	<4.30 UJ	<4.30 UJ
U4-MW-09D	3/16/2023	N	EM07	UMCf	96.9 - 106.9	<1.40	<1.22	<3.74	<1.05	<1.01	<1.37	<3.37	<1.05	<4.30	<4.30
U4-MW-09D	6/14/2023	N	EM10	UMCf	96.9 - 106.9	0.158 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	14.8
U4-MW-09D	9/12/2023	N	EM13	UMCf	96.9 - 106.9	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	2.81 J
U4-MW-09D	12/15/2023	N	EM16	UMCf	96.9 - 106.9	<3.50 UJ	<3.05 UJ	<9.35 UJ	<2.63 UJ	<2.53 UJ	4.83 J	<8.43 UJ	<2.63 UJ	12.4 J	<10.7 UJ
U4-MW-09D	3/13/2024	N	EM19	UMCf	96.9 - 106.9	<0.140	<0.122	<0.374	<0.105	0.373 J	<0.137	<0.337	<0.105	<0.430	6.06 J+
U4-MW-09D	6/13/2024	N	EM20	UMCf	96.9 - 106.9	<0.140	<0.122	<0.374	<0.105	<0.101	0.142 J	<0.337	<0.105	<0.430	5.41 J+
U4-MW-09DD	4/14/2022	N	BL02	UMCf	119.8 - 129.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-09DD	12/6/2022	N	EM04	UMCf	119.8 - 129.8	<0.140 UJ	<0.122 UJ	<0.374 UJ	<0.105 UJ	<0.101 UJ	<0.137 UJ	<0.337 UJ	<0.105 UJ	<0.430 UJ	<0.430 UJ
U4-MW-09DD	3/21/2023	N	EM07	UMCf	119.8 - 129.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-09DD	6/15/2023	N	EM10	UMCf	119.8 - 129.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-09DD	9/13/2023	N	EM13	UMCf	119.8 - 129.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.83 J
U4-MW-09DD	12/13/2023	N	EM16	UMCf	119.8 - 129.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.464 J
U4-MW-09DD	3/14/2024	N	EM19	UMCf	119.8 - 129.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.18 J
U4-MW-09DD	6/13/2024	N	EM20	UMCf	119.8 - 129.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.650 J
U4-MW-09I	4/14/2022	N	BL02	UMCf	76.8 - 86.8	0.509 J	<0.122	<0.374	<0.105	<0.101	0.232 J	<0.337	<0.105	<0.430	<0.430
U4-MW-09I	12/6/2022	N	EM04	UMCf	76.8 - 86.8	2.89 J	<1.22 UJ	<3.74 UJ	<1.05 UJ	<1.01 UJ	<1.37 UJ	<3.37 UJ	<1.05 UJ	<4.30 UJ	<4.30 UJ
U4-MW-09I	3/16/2023	N	EM07	UMCf	76.8 - 86.8	<1.40	<1.22	<3.74	<1.05	<1.01	<1.37	<3.37	<1.05	<4.30	<4.30
U4-MW-09I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	0.270 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	6.76
U4-MW-09I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	3.08 J
U4-MW-09I	12/15/2023	N	EM16	UMCf	76.8 - 86.8	<3.50 UJ	<3.05 UJ	<9.35 UJ	<2.63 UJ	<2.53 UJ	<3.43 UJ	<8.43 UJ	<2.63 UJ	<10.7 UJ	<10.7 UJ
U4-MW-09I	3/13/2024	N	EM19	UMCf	76.8 - 86.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	4.60 J
U4-MW-09I	6/13/2024	N	EM20	UMCf	76.8 - 86.8	0.317 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.27 J
U4-MW-09S	4/14/2022	N	BL02	UMCf	55.3 - 65.3	0.374 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-09S	12/6/2022	N	EM04	UMCf	55.3 - 65.3	0.224 J	<0.122 UJ	<0.374 UJ	<0.105 UJ	<0.101 UJ	<0.137 UJ	<0.337 UJ	<0.105 UJ	<0.430 UJ	<0.430 UJ
U4-MW-09S	3/17/2023	N	EM07	UMCf	55.3 - 65.3	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-09S	6/15/2023	N	EM10	UMCf	55.3 - 65.3	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.06 J
U4-MW-09S	9/13/2023	N	EM13	UMCf	55.3 - 65.3	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	2.16 J
U4-MW-09S	12/12/2023	N	EM16	UMCf	55.3 - 65.3	<0.140	<0.122	<0.374	<0.105	77.0	<0.137	<0.337	<0.105	<0.430	18.5
U4-MW-09S	3/13/2024	N	EM19	UMCf	55.3 - 65.3	<0.140	<0.122	<0.374	<0.105	<0.101	0.241 J	<0.337	<0.105	<0.430	5.94 J+

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
						Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Diisopropyl Ether (DIPE)	Ethyl Tert-Butyl Ether (ETBE)	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	m,p-Xylene (Sum of Isomers)	Methylene Chloride
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-09S	6/13/2024	N	EM20	UMCf	55.3 - 65.3	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.948 J
U4-MW-10D	4/14/2022	N	BL02	UMCf	96.9 - 106.9	0.400 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-10D	12/5/2022	N	EM04	UMCf	96.9 - 106.9	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-10D	3/17/2023	N	EM07	UMCf	96.9 - 106.9	<0.140	<0.122	<0.374	<0.105	1.61	<0.137	<0.337	<0.105	<0.430	1.73 J
U4-MW-10D	6/14/2023	N	EM10	UMCf	96.9 - 106.9	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.683 J
U4-MW-10D	9/13/2023	N	EM13	UMCf	96.9 - 106.9	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.930 J
U4-MW-10D	12/14/2023	N	EM16	UMCf	96.9 - 106.9	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-10D	3/14/2024	N	EM19	UMCf	96.9 - 106.9	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-10D	6/11/2024	N	EM20	UMCf	96.9 - 106.9	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-10I	4/14/2022	N	BL02	UMCf	77.1 - 87.1	0.460 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-10I	12/5/2022	N	EM04	UMCf	77.1 - 87.1	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-10I	3/17/2023	N	EM07	UMCf	77.1 - 87.1	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	4.66 J
U4-MW-10I	6/14/2023	N	EM10	UMCf	77.1 - 87.1	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.757 J
U4-MW-10I	9/13/2023	N	EM13	UMCf	77.1 - 87.1	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.26 J
U4-MW-10I	12/14/2023	N	EM16	UMCf	77.1 - 87.1	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.922 J
U4-MW-10I	3/13/2024	N	EM19	UMCf	77.1 - 87.1	0.195 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.21 J
U4-MW-10I	6/11/2024	N	EM20	UMCf	77.1 - 87.1	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-11D	4/15/2022	N	BL02	UMCf	97.4 - 107.4	0.584 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.565 J
U4-MW-11D	9/26/2022	N	EM01	UMCf	97.4 - 107.4	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9	<5.25	<21.5	<21.5
U4-MW-11D	10/11/2022	N	EM02	UMCf	97.4 - 107.4	<1.40	<1.22	<3.74	<1.05	<1.01	<1.37	<3.37	<1.05	<4.30	<4.30
U4-MW-11D	11/1/2022	N	EM03	UMCf	97.4 - 107.4	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9	<5.25	<21.5	<21.5
U4-MW-11D	12/6/2022	N	EM04	UMCf	97.4 - 107.4	<3.50 UJ	<3.05 UJ	<9.35 UJ	<2.63 UJ	<2.53 UJ	<3.43 UJ	<8.43 UJ	<2.63 UJ	<10.7 UJ	<10.7 UJ
U4-MW-11D	1/12/2023	N	EM05	UMCf	97.4 - 107.4	<28.0	<24.4	<74.8	<21.0	<20.2	<27.4	<67.4	<21.0	<86.0	<86.0
U4-MW-11D	2/14/2023	N	EM06	UMCf	97.4 - 107.4	<28.0	<24.4	<74.8	<21.0	<20.2	<27.4	<67.4	<21.0	<86.0	<86.0
U4-MW-11D	3/16/2023	N	EM07	UMCf	97.4 - 107.4	<28.0	<24.4	<74.8	<21.0	<20.2	<27.4	<67.4	<21.0	<86.0	<86.0
U4-MW-11D	4/18/2023	N	EM08	UMCf	97.4 - 107.4	<0.700	<0.610	<1.87	<0.525	<0.505	<0.685	<1.69	<0.525	<2.15	<2.15
U4-MW-11D	5/17/2023	N	EM09	UMCf	97.4 - 107.4	<2.80 UJ	<2.44 UJ	<7.48 UJ	<2.10 UJ	<2.02 UJ	<2.74 UJ	<6.74 UJ	<2.10 UJ	<8.60 UJ	<8.60 UJ
U4-MW-11D	6/16/2023	N	EM10	UMCf	97.4 - 107.4	0.685 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.39 J
U4-MW-11D	7/14/2023	N	EM11	UMCf	97.4 - 107.4	0.558 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.81 J
U4-MW-11D	8/14/2023	N	EM12	UMCf	97.4 - 107.4	<28.0	<24.4	<74.8	<21.0	<20.2	78.8 J	<67.4	<21.0	<86.0	<86.0
U4-MW-11D	9/13/2023	N	EM13	UMCf	97.4 - 107.4	0.523 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	2.98 J
U4-MW-11D	10/18/2023	N	EM14	UMCf	97.4 - 107.4	<28.0	<24.4	<74.8	<21.0	<20.2	<27.4	<67.4	<21.0	<86.0	<86.0
U4-MW-11D	11/16/2023	N	EM15	UMCf	97.4 - 107.4	<7.00	<6.10	<18.7	<5.25	10.4 J	<6.85	<16.9	<5.25	<21.5	<21.5
U4-MW-11D	12/13/2023	N	EM16	UMCf	97.4 - 107.4	0.372 J	<0.122	<0.374	<0.105	15.7	<0.137	<0.337	<0.105	<0.430	2.67 J
U4-MW-11D	1/25/2024	N	EM17	UMCf	97.4 - 107.4	0.323 J	<0.122	<0.374	<0.105	14.3	<0.137	<0.337	<0.105	<0.430	2.64 J
U4-MW-11D	2/14/2024	N	EM18	UMCf	97.4 - 107.4	0.149 J	<0.122	<0.374	<0.105	11.1	<0.137	<0.337	<0.105	<0.430	2.51
U4-MW-11D	3/12/2024	N	EM19	UMCf	97.4 - 107.4	<14.0	<12.2	<37.4	<10.5	13.2 J	<13.7	<33.7	<10.5	<43.0	<43.0
U4-MW-11D	6/12/2024	N	EM20	UMCf	97.4 - 107.4	0.273 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	2.05 J
U4-MW-11I	4/14/2022	N	BL02	UMCf	77.0 - 87.0	0.462 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-11I	9/26/2022	N	EM01	UMCf	77.0 - 87.0	<0.140	<0.122	<0.374	<0.105	4.90	<0.137	<0.337	<0.105	<0.430	0.707 J
U4-MW-11I	9/26/2022	FD	EM01	UMCf	77.0 - 87.0	<0.140	<0.122	<0.374	<0.105	5.43	<0.137	<0.337	<0.105	<0.430	0.866 J
U4-MW-11I	10/10/2022	N	EM02	UMCf	77.0 - 87.0	<1.40	<1.22	<3.74	<1.05	<1.01	<1.37	<3.37	<1.05	<4.30	5.54 J
U4-MW-11I	10/10/2022	FD	EM02	UMCf	77.0 - 87.0	<0.140	<0.122	<0.374	<0.105	3.02	<0.137	<0.337	<0.105	<0.430	2.44 J

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
						Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Diisopropyl Ether (DIPE)	Ethyl Tert-Butyl Ether (ETBE)	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	m,p-Xylene (Sum of Isomers)	Methylene Chloride
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-11I	10/31/2022	N	EM03	UMCf	77.0 - 87.0	<0.700	<0.610	<1.87	<0.525	<0.505	<0.685	<1.69	<0.525	<2.15	12.9 J
U4-MW-11I	10/31/2022	FD	EM03	UMCf	77.0 - 87.0	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	14.6
U4-MW-11I	12/6/2022	N	EM04	UMCf	77.0 - 87.0	<0.140 UJ	<0.122 UJ	<0.374 UJ	<0.105 UJ	<0.101 UJ	<0.137 UJ	<0.337 UJ	<0.105 UJ	<0.430 UJ	5.79 J+
U4-MW-11I	12/6/2022	FD	EM04	UMCf	77.0 - 87.0	<0.140 UJ	<0.122 UJ	<0.374 UJ	<0.105 UJ	<0.101 UJ	<0.137 UJ	<0.337 UJ	<0.105 UJ	<0.430 UJ	6.35
U4-MW-11I	1/12/2023	N	EM05	UMCf	77.0 - 87.0	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.544 J
U4-MW-11I	1/12/2023	FD	EM05	UMCf	77.0 - 87.0	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.510 J
U4-MW-11I	2/14/2023	N	EM06	UMCf	77.0 - 87.0	0.217 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.58 J
U4-MW-11I	2/14/2023	FD	EM06	UMCf	77.0 - 87.0	0.214 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.64 J
U4-MW-11I	3/16/2023	N	EM07	UMCf	77.0 - 87.0	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	2.13 J
U4-MW-11I	3/16/2023	FD	EM07	UMCf	77.0 - 87.0	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	2.47 J
U4-MW-11I	4/18/2023	N	EM08	UMCf	77.0 - 87.0	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	8.45
U4-MW-11I	4/18/2023	FD	EM08	UMCf	77.0 - 87.0	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	8.69
U4-MW-11I	5/19/2023	N	EM09	UMCf	77.0 - 87.0	<0.140 UJ	<0.122 UJ	<0.374 UJ	<0.105 UJ	<0.101 UJ	<0.137 UJ	<0.337 UJ	<0.105 UJ	<0.430 UJ	3.38 J
U4-MW-11I	5/19/2023	FD	EM09	UMCf	77.0 - 87.0	<0.140 UJ	<0.122 UJ	<0.374 UJ	<0.105 UJ	<0.101 UJ	<0.137 UJ	<0.337 UJ	<0.105 UJ	<0.430 UJ	3.38 J
U4-MW-11I	6/15/2023	N	EM10	UMCf	77.0 - 87.0	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.14 J
U4-MW-11I	6/15/2023	FD	EM10	UMCf	77.0 - 87.0	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.32 J
U4-MW-11I	7/13/2023	N	EM11	UMCf	77.0 - 87.0	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.555 J
U4-MW-11I	7/13/2023	FD	EM11	UMCf	77.0 - 87.0	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-11I	8/14/2023	N	EM12	UMCf	77.0 - 87.0	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	2.78 J
U4-MW-11I	8/14/2023	FD	EM12	UMCf	77.0 - 87.0	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	2.57 J
U4-MW-11I	9/13/2023	N	EM13	UMCf	77.0 - 87.0	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	3.48 J
U4-MW-11I	9/13/2023	FD	EM13	UMCf	77.0 - 87.0	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	3.82 J
U4-MW-11I	10/19/2023	N	EM14	UMCf	77.0 - 87.0	0.345 J	<0.122	<18.7	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	2.71 J
U4-MW-11I	10/19/2023	FD	EM14	UMCf	77.0 - 87.0	0.385 J	<0.122	<18.7	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	2.95 J
U4-MW-11I	11/16/2023	N	EM15	UMCf	77.0 - 87.0	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9	<5.25	<21.5	<21.5
U4-MW-11I	11/16/2023	FD	EM15	UMCf	77.0 - 87.0	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9	<5.25	<21.5	<21.5
U4-MW-11I	12/13/2023	N	EM16	UMCf	77.0 - 87.0	0.144 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	2.21 J
U4-MW-11I	12/13/2023	FD	EM16	UMCf	77.0 - 87.0	0.157 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	2.28 J
U4-MW-11I	1/25/2024	N	EM17	UMCf	77.0 - 87.0	0.206 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.92 J
U4-MW-11I	1/25/2024	FD	EM17	UMCf	77.0 - 87.0	0.153 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.86 J
U4-MW-11I	2/14/2024	N	EM18	UMCf	77.0 - 87.0	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9	<5.25	<21.5	<21.5
U4-MW-11I	2/14/2024	FD	EM18	UMCf	77.0 - 87.0	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9	<5.25	<21.5	<21.5
U4-MW-11I	3/13/2024	N	EM19	UMCf	77.0 - 87.0	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	2.23 J
U4-MW-11I	3/13/2024	FD	EM19	UMCf	77.0 - 87.0	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	2.51 J
U4-MW-11I	6/12/2024	N	EM20	UMCf	77.0 - 87.0	0.180 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.86 J
U4-MW-11I	6/12/2024	FD	EM20	UMCf	77.0 - 87.0	0.174 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	2.15 J
U4-MW-12D	4/15/2022	N	BL02	UMCf	97.1 - 107.1	0.664 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.639 J
U4-MW-12D	9/27/2022	N	EM01	UMCf	97.1 - 107.1	<2.80	<2.44	<7.48	<2.10	<2.02	<2.74	<6.74	<2.10	<8.60	<8.60
U4-MW-12D	10/12/2022	N	EM02	UMCf	97.1 - 107.1	0.454 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-12D	11/2/2022	N	EM03	UMCf	97.1 - 107.1	<1.40	<1.22	<3.74	<1.05	<1.01	<1.37	<3.37	<1.05	<4.30	<4.30
U4-MW-12D	12/7/2022	N	EM04	UMCf	97.1 - 107.1	0.535 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.31 J
U4-MW-12D	1/12/2023	N	EM05	UMCf	97.1 - 107.1	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7	<10.5	<43.0	<43.0
U4-MW-12D	2/15/2023	N	EM06	UMCf	97.1 - 107.1	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7	<10.5	<43.0	<43.0

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

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatiles Organic Compounds by SW8260B	Volatiles Organic Compounds by SW8260B	Volatiles Organic Compounds by SW8260B	Volatiles Organic Compounds by SW8260B	Volatiles Organic Compounds by SW8260B	Volatiles Organic Compounds by SW8260B	Volatiles Organic Compounds by SW8260B	Volatiles Organic Compounds by SW8260B	Volatiles Organic Compounds by SW8260B	Volatiles Organic Compounds by SW8260B
						Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Diisopropyl Ether (DIPE)	Ethyl Tert-Butyl Ether (ETBE)	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	m,p-Xylene (Sum of Isomers)	Methylene Chloride
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-12D	3/14/2023	N	EM07	UMCf	97.1 - 107.1	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9	<5.25	<21.5	<21.5
U4-MW-12D	4/17/2023	N	EM08	UMCf	97.1 - 107.1	<0.700 UJ	<0.610 UJ	<1.87 UJ	<0.525 UJ	<0.505 UJ	<0.685 UJ	<1.69 UJ	<0.525 UJ	<2.15 UJ	<2.15 UJ
U4-MW-12D	5/17/2023	N	EM09	UMCf	97.1 - 107.1	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7	<10.5	<43.0	<43.0
U4-MW-12D	6/16/2023	N	EM10	UMCf	97.1 - 107.1	0.297 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.654 J
U4-MW-12D	7/13/2023	N	EM11	UMCf	97.1 - 107.1	0.176 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.698 J
U4-MW-12D	8/14/2023	N	EM12	UMCf	97.1 - 107.1	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9	<5.25	<21.5	<21.5
U4-MW-12D	9/12/2023	N	EM13	UMCf	97.1 - 107.1	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9	<5.25	<21.5	<21.5
U4-MW-12D	10/17/2023	N	EM14	UMCf	97.1 - 107.1	<0.700	<0.610	<1.87	<0.525	<0.505	<0.685	<1.69	<0.525	<2.15	<2.15
U4-MW-12D	11/15/2023	N	EM15	UMCf	97.1 - 107.1	<0.700	<0.610	<1.87	<0.525	<0.505	<0.685	<1.69	<0.525	<2.15	<2.15
U4-MW-12D	12/12/2023	N	EM16	UMCf	97.1 - 107.1	<0.140	<0.122	<0.374	<0.105	25.3	<0.137	<0.337	<0.105	<0.430	1.96 J
U4-MW-12D	1/24/2024	N	EM17	UMCf	97.1 - 107.1	<0.140	<0.122	<0.374	<0.105	31.1	<0.137	<0.337	<0.105	<0.430	2.77 J
U4-MW-12D	2/13/2024	N	EM18	UMCf	97.1 - 107.1	<2.80	<2.44	<7.48	<2.10	<2.02	<2.74	<6.74	<2.10	<8.60	<8.60
U4-MW-12D	3/12/2024	N	EM19	UMCf	97.1 - 107.1	<2.80	<2.44	<7.48	<2.10	11.4 J	<2.74	<6.74	<2.10	<8.60	<8.60
U4-MW-12D	6/12/2024	N	EM20	UMCf	97.1 - 107.1	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.53 J
U4-MW-12I	4/14/2022	N	BL02	UMCf	76.8 - 86.8	0.610 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-12I	4/14/2022	FD	BL02	UMCf	76.8 - 86.8	0.573 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-12I	9/27/2022	N	EM01	UMCf	76.8 - 86.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-12I	10/12/2022	N	EM02	UMCf	76.8 - 86.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-12I	11/2/2022	N	EM03	UMCf	76.8 - 86.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.52 J
U4-MW-12I	12/7/2022	N	EM04	UMCf	76.8 - 86.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	4.69 J
U4-MW-12I	12/7/2022	FD	EM04	UMCf	76.8 - 86.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	4.62 J
U4-MW-12I	1/13/2023	N	EM05	UMCf	76.8 - 86.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.37 J
U4-MW-12I	2/15/2023	N	EM06	UMCf	76.8 - 86.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-12I	3/13/2023	N	EM07	UMCf	76.8 - 86.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-12I	4/17/2023	N	EM08	UMCf	76.8 - 86.8	<0.140 UJ	<0.122 UJ	<0.374 UJ	<0.105 UJ	<0.101 UJ	<0.137 UJ	<0.337 UJ	<0.105 UJ	<0.430 UJ	<0.430 UJ
U4-MW-12I	5/17/2023	N	EM09	UMCf	76.8 - 86.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.17 J
U4-MW-12I	6/16/2023	N	EM10	UMCf	76.8 - 86.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-12I	7/11/2023	N	EM11	UMCf	76.8 - 86.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.11 J
U4-MW-12I	8/14/2023	N	EM12	UMCf	76.8 - 86.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.55 J
U4-MW-12I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	3.98 J
U4-MW-12I	10/17/2023	N	EM14	UMCf	76.8 - 86.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-12I	11/16/2023	N	EM15	UMCf	76.8 - 86.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	3.92 J
U4-MW-12I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	<0.140	<0.122	<0.374	<0.105	2.57	<0.137	<0.337	<0.105	<0.430	3.23 J
U4-MW-12I	1/24/2024	N	EM17	UMCf	76.8 - 86.8	<0.140	<0.122	<0.374	<0.105	5.68 J-	<0.137	<0.337	<0.105	<0.430	2.10 J
U4-MW-12I	2/13/2024	N	EM18	UMCf	76.8 - 86.8	<2.80	<2.44	<7.48	<2.10	<2.02	<2.74	<6.74	<2.10	<8.60	<8.60
U4-MW-12I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	<2.80	<2.44	<7.48	<2.10	<2.02	<2.74	<6.74	<2.10	<8.60	<8.60
U4-MW-12I	6/13/2024	N	EM20	UMCf	76.8 - 86.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.81 J
U4-MW-13D	4/14/2022	N	BL02	UMCf	98.2 - 108.2	0.639 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-13D	9/28/2022	N	EM01	UMCf	98.2 - 108.2	<1.40	<1.22	<3.74	<1.05	<1.01	<1.37	<3.37	<1.05	<4.30	5.02 J
U4-MW-13D	10/11/2022	N	EM02	UMCf	98.2 - 108.2	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.543 J
U4-MW-13D	11/3/2022	N	EM03	UMCf	98.2 - 108.2	0.551 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.508 J
U4-MW-13D	12/7/2022	N	EM04	UMCf	98.2 - 108.2	1.04	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.439 J
U4-MW-13D	1/12/2023	N	EM05	UMCf	98.2 - 108.2	<2.80	<2.44	<7.48	<2.10	<2.02	<2.74	<6.74	<2.10	<8.60	<8.60

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
						Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Diisopropyl Ether (DIPE)	Ethyl Tert-Butyl Ether (ETBE)	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	m,p-Xylene (Sum of Isomers)	Methylene Chloride
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-13D	2/15/2023	N	EM06	UMCf	98.2 - 108.2	1.12	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-13D	3/17/2023	N	EM07	UMCf	98.2 - 108.2	<2.80	<2.44	<7.48	<2.10	<2.02	<2.74	<6.74	<2.10	<8.60	<8.60
U4-MW-13D	4/18/2023	N	EM08	UMCf	98.2 - 108.2	0.572 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-13D	5/17/2023	N	EM09	UMCf	98.2 - 108.2	<2.80	<2.44	<7.48	<2.10	<2.02	<2.74	<6.74	<2.10	<8.60	<8.60
U4-MW-13D	6/15/2023	N	EM10	UMCf	98.2 - 108.2	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.22 J
U4-MW-13D	7/12/2023	N	EM11	UMCf	98.2 - 108.2	0.304 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	2.99 J
U4-MW-13D	8/11/2023	N	EM12	UMCf	98.2 - 108.2	0.430 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	3.47 J
U4-MW-13D	9/11/2023	N	EM13	UMCf	98.2 - 108.2	<3.50	<3.05	<9.35	<2.63	<2.53	<3.43	<8.43	<2.63	<10.7	<10.7
U4-MW-13D	10/18/2023	N	EM14	UMCf	98.2 - 108.2	<3.50	<3.05	<9.35	<2.63	<2.53	<3.43	<8.43	<2.63	<10.7	<10.7
U4-MW-13D	11/15/2023	N	EM15	UMCf	98.2 - 108.2	<3.50	<3.05	<9.35	<2.63	<2.53	<3.43	<8.43	<2.63	<10.7	<10.7
U4-MW-13D	12/11/2023	N	EM16	UMCf	98.2 - 108.2	0.504 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	3.09 J
U4-MW-13D	1/23/2024	N	EM17	UMCf	98.2 - 108.2	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	2.25 J
U4-MW-13D	2/12/2024	N	EM18	UMCf	98.2 - 108.2	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	2.09 J
U4-MW-13D	3/11/2024	N	EM19	UMCf	98.2 - 108.2	0.302 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	2.68 J
U4-MW-13D	6/13/2024	N	EM20	UMCf	98.2 - 108.2	0.168 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.33 J
U4-MW-13I	4/14/2022	N	BL02	UMCf	77.1 - 87.1	0.618 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-13I	9/28/2022	N	EM01	UMCf	77.1 - 87.1	0.164 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-13I	10/10/2022	N	EM02	UMCf	77.1 - 87.1	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-13I	11/3/2022	N	EM03	UMCf	77.1 - 87.1	0.159 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.573 J
U4-MW-13I	12/6/2022	N	EM04	UMCf	77.1 - 87.1	<0.700 UJ	<0.610 UJ	<1.87 UJ	<0.525 UJ	<0.505 UJ	<0.685 UJ	<1.69 UJ	<0.525 UJ	<2.15 UJ	7.70 J
U4-MW-13I	1/12/2023	N	EM05	UMCf	77.1 - 87.1	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.03 J
U4-MW-13I	2/14/2023	N	EM06	UMCf	77.1 - 87.1	<0.700	<0.610	<1.87	<0.525	<0.505	<0.685	<1.69	<0.525	<2.15	<2.15
U4-MW-13I	3/16/2023	N	EM07	UMCf	77.1 - 87.1	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.861 J
U4-MW-13I	4/19/2023	N	EM08	UMCf	77.1 - 87.1	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.905 J
U4-MW-13I	5/17/2023	N	EM09	UMCf	77.1 - 87.1	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.645 J
U4-MW-13I	6/15/2023	N	EM10	UMCf	77.1 - 87.1	<0.140	<0.122 UJ	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.433 J
U4-MW-13I	7/12/2023	N	EM11	UMCf	77.1 - 87.1	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.610 J
U4-MW-13I	8/11/2023	N	EM12	UMCf	77.1 - 87.1	0.361 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	2.39 J
U4-MW-13I	9/11/2023	N	EM13	UMCf	77.1 - 87.1	<3.50	<3.05	<9.35	<2.63	<2.53	<3.43	<8.43	<2.63	<10.7	<10.7
U4-MW-13I	10/17/2023	N	EM14	UMCf	77.1 - 87.1	0.488 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	3.40 J
U4-MW-13I	11/15/2023	N	EM15	UMCf	77.1 - 87.1	0.433 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	3.07 J
U4-MW-13I	12/11/2023	N	EM16	UMCf	77.1 - 87.1	0.535 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	2.52 J
U4-MW-13I	1/23/2024	N	EM17	UMCf	77.1 - 87.1	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.93 J
U4-MW-13I	2/12/2024	N	EM18	UMCf	77.1 - 87.1	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.82 J
U4-MW-13I	3/11/2024	N	EM19	UMCf	77.1 - 87.1	0.353 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.96 J
U4-MW-13I	6/13/2024	N	EM20	UMCf	77.1 - 87.1	0.239 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.45 J
U4-MW-14D	4/13/2022	N	BL02	UMCf	97.3 - 107.3	0.561 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-14D	12/6/2022	N	EM04	UMCf	97.3 - 107.3	0.751 J	<0.610 UJ	<1.87 UJ	<0.525 UJ	<0.505 UJ	<0.685 UJ	<1.69 UJ	<0.525 UJ	<2.15 UJ	<2.15 UJ
U4-MW-14D	3/16/2023	N	EM07	UMCf	97.3 - 107.3	<0.700	<0.610	<1.87	<0.525	<0.505	<0.685	<1.69	<0.525	<2.15	<2.15
U4-MW-14D	6/15/2023	N	EM10	UMCf	97.3 - 107.3	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.531 J
U4-MW-14D	9/14/2023	N	EM13	UMCf	97.3 - 107.3	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.964 J
U4-MW-14D	12/15/2023	N	EM16	UMCf	97.3 - 107.3	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.20 J
U4-MW-14D	3/13/2024	N	EM19	UMCf	97.3 - 107.3	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.964 J

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
						Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Diisopropyl Ether (DIPE)	Ethyl Tert-Butyl Ether (ETBE)	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	m,p-Xylene (Sum of Isomers)	Methylene 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	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-14I	4/14/2022	N	BL02	UMCf	77.3 - 87.3	0.471 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-14I	12/6/2022	N	EM04	UMCf	77.3 - 87.3	<0.700 UJ	<0.610 UJ	<1.87 UJ	<0.525 UJ	<0.505 UJ	<0.685 UJ	<1.69 UJ	<0.525 UJ	<2.15 UJ	<2.15 UJ
U4-MW-14I	3/16/2023	N	EM07	UMCf	77.3 - 87.3	<0.700	<0.610	<1.87	<0.525	<0.505	<0.685	<1.69	<0.525	<2.15	<2.15
U4-MW-14I	6/15/2023	N	EM10	UMCf	77.3 - 87.3	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-14I	9/14/2023	N	EM13	UMCf	77.3 - 87.3	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.40 J
U4-MW-14I	12/14/2023	N	EM16	UMCf	77.3 - 87.3	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.62 J
U4-MW-14I	3/13/2024	N	EM19	UMCf	77.3 - 87.3	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.26 J
U4-MW-14I	6/14/2024	N	EM20	UMCf	77.3 - 87.3	<0.140	<0.122 UJ	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.970 J
U4-MW-15D	4/13/2022	N	BL02	UMCf	96.0 - 106.0	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-15D	12/5/2022	N	EM04	UMCf	96.0 - 106.0	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-15D	3/20/2023	N	EM07	UMCf	96.0 - 106.0	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-15D	6/14/2023	N	EM10	UMCf	96.0 - 106.0	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-15D	9/13/2023	N	EM13	UMCf	96.0 - 106.0	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-15D	12/12/2023	N	EM16	UMCf	96.0 - 106.0	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-15D	3/12/2024	N	EM19	UMCf	96.0 - 106.0	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-15D	6/14/2024	N	EM20	UMCf	96.0 - 106.0	<0.140	<0.122 UJ	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-15DD	4/13/2022	N	BL02	UMCf	120.3 - 130.3	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-15DD	12/5/2022	N	EM04	UMCf	120.3 - 130.3	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-15DD	3/15/2023	N	EM07	UMCf	120.3 - 130.3	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-15DD	6/13/2023	N	EM10	UMCf	120.3 - 130.3	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-15DD	9/14/2023	N	EM13	UMCf	120.3 - 130.3	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-15DD	12/13/2023	N	EM16	UMCf	120.3 - 130.3	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-15DD	3/12/2024	N	EM19	UMCf	120.3 - 130.3	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-15DD	6/14/2024	N	EM20	UMCf	120.3 - 130.3	<0.140	<0.122 UJ	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-15I	4/12/2022	N	BL02	UMCf	76.8 - 86.8	0.447 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-15I	12/5/2022	N	EM04	UMCf	76.8 - 86.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.81 J
U4-MW-15I	3/17/2023	N	EM07	UMCf	76.8 - 86.8	<2.80	<2.44	<7.48	<2.10	<2.02	<2.74	<6.74	<2.10	<8.60	<8.60
U4-MW-15I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-15I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.08 J
U4-MW-15I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.10 J
U4-MW-15I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9	<5.25	<21.5	<21.5
U4-MW-15I	6/17/2024	N	EM20	UMCf	76.8 - 86.8	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9	<5.25	<21.5	<21.5
U4-MW-15S	4/13/2022	N	BL02	UMCf	54.8 - 64.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-15S	12/5/2022	N	EM04	UMCf	54.8 - 64.8	<3.50	<3.05	<9.35	<2.63	<2.53	<3.43	<8.43	<2.63	<10.7	<10.7
U4-MW-15S	3/13/2023	N	EM07	UMCf	54.8 - 64.8	<0.140	<0.122	<0.374	<0.105	<0.101	0.321 J	<0.337	<0.105	<0.430	<0.430
U4-MW-15S	6/13/2023	N	EM10	UMCf	54.8 - 64.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-15S	9/14/2023	N	EM13	UMCf	54.8 - 64.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-15S	12/11/2023	N	EM16	UMCf	54.8 - 64.8	<0.280	<0.244	<0.748	<0.210	<0.202	<0.274	<0.674	<0.210	<0.860	<0.860
U4-MW-15S	3/12/2024	N	EM19	UMCf	54.8 - 64.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-15S	3/26/2024	N	EM19	UMCf	54.8 - 64.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-15S	6/14/2024	N	EM20	UMCf	54.8 - 64.8	<0.140	<0.122 UJ	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-16D	4/11/2022	N	BL02	UMCf	96.8 - 106.8	0.533 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430

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 Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	Volatiles Organic Compounds by SW8260B	Volatiles Organic Compounds by SW8260B	Volatiles Organic Compounds by SW8260B	Volatiles Organic Compounds by SW8260B	Volatiles Organic Compounds by SW8260B	Volatiles Organic Compounds by SW8260B	Volatiles Organic Compounds by SW8260B	Volatiles Organic Compounds by SW8260B	Volatiles Organic Compounds by SW8260B	Volatiles Organic Compounds by SW8260B
						Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Diisopropyl Ether (DIPE)	Ethyl Tert-Butyl Ether (ETBE)	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	m,p-Xylene (Sum of Isomers)	Methylene Chloride
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-16D	12/5/2022	N	EM04	UMCf	96.8 - 106.8	0.216 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	1.30 J
U4-MW-16D	3/14/2023	N	EM07	UMCf	96.8 - 106.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.576 J
U4-MW-16D	6/13/2023	N	EM10	UMCf	96.8 - 106.8	0.315 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.627 J
U4-MW-16D	9/15/2023	N	EM13	UMCf	96.8 - 106.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-16D	12/14/2023	N	EM16	UMCf	96.8 - 106.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-16D	3/14/2024	N	EM19	UMCf	96.8 - 106.8	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9	<5.25	<21.5	<21.5
U4-MW-16D	6/17/2024	N	EM20	UMCf	96.8 - 106.8	<7.00	<6.10	<18.7	<5.25	<5.05	<6.85	<16.9	<5.25	<21.5	<21.5
U4-MW-16DD	4/12/2022	N	BL02	UMCf	120.8 - 130.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-16DD	12/5/2022	N	EM04	UMCf	120.8 - 130.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-16DD	3/15/2023	N	EM07	UMCf	120.8 - 130.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-16DD	6/13/2023	N	EM10	UMCf	120.8 - 130.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-16DD	9/14/2023	N	EM13	UMCf	120.8 - 130.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-16DD	12/13/2023	N	EM16	UMCf	120.8 - 130.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-16DD	3/14/2024	N	EM19	UMCf	120.8 - 130.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-16DD	6/17/2024	N	EM20	UMCf	120.8 - 130.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-16I	4/11/2022	N	BL02	UMCf	77.0 - 87.0	0.256 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-16I	12/5/2022	N	EM04	UMCf	77.0 - 87.0	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	5.10
U4-MW-16I	12/5/2022	FD	EM04	UMCf	77.0 - 87.0	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	5.03
U4-MW-16I	3/13/2023	N	EM07	UMCf	77.0 - 87.0	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.963 J
U4-MW-16I	3/13/2023	FD	EM07	UMCf	77.0 - 87.0	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.963 J
U4-MW-16I	6/12/2023	N	EM10	UMCf	77.0 - 87.0	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-16I	6/12/2023	FD	EM10	UMCf	77.0 - 87.0	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-16I	9/11/2023	N	EM13	UMCf	77.0 - 87.0	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.813 J
U4-MW-16I	9/11/2023	FD	EM13	UMCf	77.0 - 87.0	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.932 J
U4-MW-16I	12/11/2023	N	EM16	UMCf	77.0 - 87.0	0.384 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.873 J
U4-MW-16I	12/11/2023	FD	EM16	UMCf	77.0 - 87.0	0.352 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.919 J
U4-MW-16I	3/11/2024	N	EM19	UMCf	77.0 - 87.0	0.289 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.718 J
U4-MW-16I	3/11/2024	FD	EM19	UMCf	77.0 - 87.0	0.324 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.655 J
U4-MW-16I	6/18/2024	N	EM20	UMCf	77.0 - 87.0	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.716 J
U4-MW-16I	6/18/2024	FD	EM20	UMCf	77.0 - 87.0	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.846 J
U4-MW-16S	4/12/2022	N	BL02	UMCf	54.8 - 64.8	0.363 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-16S	4/12/2022	FD	BL02	UMCf	54.8 - 64.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-16S	12/6/2022	N	EM04	UMCf	54.8 - 64.8	<0.140 UJ	<0.122 UJ	<0.374 UJ	<0.105 UJ	<0.101 UJ	<0.137 UJ	<0.337 UJ	<0.105 UJ	<0.430 UJ	0.573 J
U4-MW-16S	3/15/2023	N	EM07	UMCf	54.8 - 64.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-16S	6/13/2023	N	EM10	UMCf	54.8 - 64.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-16S	9/11/2023	N	EM13	UMCf	54.8 - 64.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-16S	12/11/2023	N	EM16	UMCf	54.8 - 64.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-16S	3/11/2024	N	EM19	UMCf	54.8 - 64.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-MW-16S	6/17/2024	N	EM20	UMCf	54.8 - 64.8	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-SLMW	11/10/2022	N	EM03		-	1.52 J	<0.610	<1.87	<0.525	<0.505	<0.685	<1.69	<0.525	<2.15	<2.15
U4-T3	10/13/2022	N	EM02		-	2.05	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.687 J
U4-T3	11/3/2022	N	EM03		-	3.01 J+	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.879 J
U4-T3	12/6/2022	N	EM04		-	<2.80 UJ	<2.44 UJ	<7.48 UJ	<2.10 UJ	<2.02 UJ	<2.74 UJ	<6.74 UJ	<2.10 UJ	<8.60 UJ	<8.60 UJ

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
						Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Diisopropyl Ether (DIPE)	Ethyl Tert-Butyl Ether (ETBE)	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	m,p-Xylene (Sum of Isomers)	Methylene Chloride
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-T3	1/9/2023	N	EM05		-	2.19	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	0.864 J
U4-T3	2/13/2023	N	EM06		-	<14.0	<12.2	<37.4	<10.5	<10.1	<13.7	<33.7	<10.5	<43.0	<43.0
U4-T3	3/13/2023	N	EM07		-	<3.50	<3.05	<9.35	<2.63	<2.53	<3.43	<8.43	<2.63	<10.7	<10.7
U4-T3	4/19/2023	N	EM08		-	0.810 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	<0.430
U4-T3	5/18/2023	N	EM09		-	0.668 J	<0.122	<0.374	<0.105	0.962 J	<0.137	<0.337	<0.105	<0.430	1.96 J
U4-T3	6/12/2023	N	EM10		-	0.682 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	3.51 J
U4-T3	7/11/2023	N	EM11		-	<0.140	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	2.84 J
U4-T3	8/10/2023	N	EM12		-	0.598 J	<0.122	<0.374	<0.105	<0.101	<0.137	<0.337	<0.105	<0.430	2.09 J
U4-T3	9/11/2023	N	EM13		-	<0.140	<0.122	<0.374	<0.105	13.0	<0.137	<0.337	<0.105	<0.430	2.71 J
U4-T3	10/16/2023	N	EM14		-	<3.50	<3.05	<9.35	<2.63	3.08 J	<3.43	<8.43	<2.63	<10.7	<10.7

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 sample quantitation limit.
- 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.

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
						Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p-Cymene (p-Isopropyltoluene)	sec-Butylbenzene	Styrene	tert-Amyl Methyl Ether	tert-Butyl Alcohol	tert-Butyl Methyl Ether (MTBE)
						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	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
M-251-100	10/13/2022	N	EM02	UMCf	92.5 - 102.5	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	12.5 J+	<0.101
M-251-100	11/2/2022	N	EM03	UMCf	92.5 - 102.5	<10.0	<1.57	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95	<40.6	<1.01
M-251-100	12/8/2022	N	EM04	UMCf	92.5 - 102.5	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
M-251-100	1/11/2023	N	EM05	UMCf	92.5 - 102.5	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
M-251-100	2/13/2023	N	EM06	UMCf	92.5 - 102.5	<1.00	<0.157 UJ	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
M-251-100	3/17/2023	N	EM07	UMCf	92.5 - 102.5	<50.0 UJ	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75	<203	<5.05
M-251-100	4/21/2023	N	EM08	UMCf	92.5 - 102.5	<1.00	<0.157	<0.0993	<0.174 UJ	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
M-251-100	5/9/2023	N	EM09	UMCf	92.5 - 102.5	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
M-251-100	6/14/2023	N	EM10	UMCf	92.5 - 102.5	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75	<203	<5.05
M-251-100	7/14/2023	N	EM11	UMCf	92.5 - 102.5	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	7.40	<0.101
M-251-100	8/10/2023	N	EM12	UMCf	92.5 - 102.5	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
M-251-100	9/14/2023	N	EM13	UMCf	92.5 - 102.5	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
M-251-100	10/19/2023	N	EM14	UMCf	92.5 - 102.5	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<5.90	<0.195	<4.06	<0.101
M-251-100	11/16/2023	N	EM15	UMCf	92.5 - 102.5	<50.0 UJ	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75	<203	<5.05
M-251-100	12/12/2023	N	EM16	UMCf	92.5 - 102.5	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
M-251-100	1/25/2024	N	EM17	UMCf	92.5 - 102.5	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
M-251-100	2/13/2024	N	EM18	UMCf	92.5 - 102.5	<50.0 UJ	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75	<203	<5.05
M-251-100	3/11/2024	N	EM19	UMCf	92.5 - 102.5	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75	<203	<5.05
M-251-100	6/17/2024	N	EM20	UMCf	92.5 - 102.5	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75	<203	<5.05
M-251-60	4/18/2022	N	BL02	UMCf	52.3 - 62.3	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
M-251-60	3/15/2023	N	EM07	UMCf	52.3 - 62.3	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
M-251-60	6/14/2023	N	EM10	UMCf	52.3 - 62.3	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
M-251-60	9/14/2023	N	EM13	UMCf	52.3 - 62.3	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
M-251-60	12/11/2023	N	EM16	UMCf	52.3 - 62.3	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
M-251-60	3/12/2024	N	EM19	UMCf	52.3 - 62.3	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
M-251-60	6/19/2024	N	EM20	UMCf	52.3 - 62.3	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
M-252	4/21/2022	N	BL02	UMCf	132.3 - 142.3	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
M-252	3/15/2023	N	EM07	UMCf	132.3 - 142.3	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
M-252	9/19/2023	N	EM13	UMCf	132.3 - 142.3	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
M-252	12/18/2023	N	EM16	UMCf	132.3 - 142.3	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
M-252	3/12/2024	N	EM19	UMCf	132.3 - 142.3	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
M-252	6/19/2024	N	EM20	UMCf	132.3 - 142.3	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
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	<5.00	<0.785 UJ	<0.497	<0.870	<0.600	<0.625	<0.590 UJ	<0.975	<20.3 UJ	<0.505
U4-E-01D	3/14/2023	N	EM07	UMCf	94.7 - 109.7	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-E-01D	6/20/2024	N	EM20	UMCf	94.7 - 109.7	<10.0 UJ	<1.57	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95	<40.6	<1.01
U4-E-01I	4/19/2022	N	BL02	UMCf	74.6 - 89.6	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	6.58	<0.101
U4-E-01I	4/19/2022	FD	BL02	UMCf	74.6 - 89.6	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	5.05	<0.101
U4-E-01I	3/14/2023	N	EM07	UMCf	74.6 - 89.6	<20.0	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101

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
						Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p-Cymene (p-Isopropyltoluene)	sec-Butylbenzene	Styrene	tert-Amyl Methyl Ether	tert-Butyl Alcohol	tert-Butyl Methyl Ether (MTBE)
						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	<1.00 UJ	<0.157	<0.0993	<0.174 UJ	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-E-01I	5/10/2023	N	EM09	UMCf	74.6 - 89.6	<1.00	<0.157	<0.0993	<0.174 UJ	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-E-01I	6/12/2023	N	EM10	UMCf	74.6 - 89.6	<25.0	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-E-01I	7/11/2023	N	EM11	UMCf	74.6 - 89.6	<5.00	<0.785	<0.497	<0.870	<0.600	<0.625	<0.590	<0.975	<20.3	<0.505
U4-E-01I	8/10/2023	N	EM12	UMCf	74.6 - 89.6	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-E-01I	9/11/2023	N	EM13	UMCf	74.6 - 89.6	<5.00	<0.785	<0.497	<0.870	<0.600	<0.625	<0.590	<0.975	<20.3	<0.505
U4-E-01I	10/16/2023	N	EM14	UMCf	74.6 - 89.6	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-E-01I	12/13/2023	N	EM16	UMCf	74.6 - 89.6	<10.0	<1.57	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95	<40.6	<1.01
U4-E-01I	1/24/2024	N	EM17	UMCf	74.6 - 89.6	<20.0	<3.14	<1.99	<3.48	<2.40	<2.50	<2.36	<3.90	<81.2	<2.02
U4-E-01I	2/14/2024	N	EM18	UMCf	74.6 - 89.6	<10.0	<1.57	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95	<40.6	<1.01
U4-E-01I	3/12/2024	N	EM19	UMCf	74.6 - 89.6	<10.0	<1.57	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95	<40.6	<1.01
U4-E-01I	6/20/2024	N	EM20	UMCf	74.6 - 89.6	<10.0	<1.57	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95	<40.6	<1.01
U4-E-02D	4/20/2022	N	BL02	UMCf	94.4 - 109.4	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-E-02D	3/14/2023	N	EM07	UMCf	94.4 - 109.4	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-E-02D	6/19/2024	N	EM20	UMCf	94.4 - 109.4	<10.0	<1.57	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95	<40.6	<1.01
U4-E-02I	4/18/2022	N	BL02	UMCf	74.4 - 89.4	<1.00 UJ	<0.157 UJ	<0.0993 UJ	<0.174 UJ	<0.120	<0.125 UJ	<0.118 R	<0.195	<4.06	<0.101
U4-E-02I	3/14/2023	N	EM07	UMCf	74.4 - 89.4	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-E-02I	4/20/2023	N	EM08	UMCf	74.4 - 89.4	<1.00 UJ	<0.157	<0.0993	<0.174 UJ	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-E-02I	5/11/2023	N	EM09	UMCf	74.4 - 89.4	<1.00	<0.157	<0.0993	<0.174 UJ	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-E-02I	6/12/2023	N	EM10	UMCf	74.4 - 89.4	<10.0	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-E-02I	7/11/2023	N	EM11	UMCf	74.4 - 89.4	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-E-02I	8/10/2023	N	EM12	UMCf	74.4 - 89.4	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-E-02I	9/11/2023	N	EM13	UMCf	74.4 - 89.4	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-E-02I	10/16/2023	N	EM14	UMCf	74.4 - 89.4	<10.0 UJ	<1.57 UJ	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95	<40.6	<1.01
U4-E-02I	12/14/2023	N	EM16	UMCf	74.4 - 89.4	<10.0	<1.57	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95	<40.6	<1.01
U4-E-02I	1/22/2024	N	EM17	UMCf	74.4 - 89.4	1.03 J	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	0.302 J	<4.06	<0.101
U4-E-02I	2/13/2024	N	EM18	UMCf	74.4 - 89.4	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-E-02I	3/13/2024	N	EM19	UMCf	74.4 - 89.4	<25.0	<3.93	<2.48	<4.35	<3.00	<3.13	<2.95	<4.88	<102	<2.53
U4-E-02I	6/19/2024	N	EM20	UMCf	74.4 - 89.4	<100	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5	<406	<10.1
U4-E-03D	4/19/2022	N	BL02	UMCf	95.1 - 110.1	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	6.74	<0.101
U4-E-03D	10/13/2022	N	EM02	UMCf	95.1 - 110.1	<200 UJ	<31.4	<19.9	<34.8	<24.0	<25.0	<23.6	<39.0	<812	<20.2
U4-E-03D	11/3/2022	N	EM03	UMCf	95.1 - 110.1	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-E-03D	12/6/2022	N	EM04	UMCf	95.1 - 110.1	<20.0 UJ	<3.14 UJ	<1.99 UJ	<3.48 UJ	<2.40 UJ	<2.50 UJ	<2.36 UJ	<3.90 UJ	<81.2 UJ	<2.02 UJ
U4-E-03D	1/9/2023	N	EM05	UMCf	95.1 - 110.1	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-E-03D	2/13/2023	N	EM06	UMCf	95.1 - 110.1	<100	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5	<406	<10.1
U4-E-03D	3/13/2023	N	EM07	UMCf	95.1 - 110.1	<100	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5	<406	<10.1
U4-E-03D	3/14/2023	N	EM07	UMCf	95.1 - 110.1	<200	<31.4	<19.9	<34.8	<24.0	<25.0	<23.6	<39.0	<812	<20.2
U4-E-03D	4/19/2023	N	EM08	UMCf	95.1 - 110.1	<5.00	<0.785	<0.497	<0.870	<0.600	<0.625	<0.590	<0.975	<20.3	<0.505
U4-E-03D	5/11/2023	N	EM09	UMCf	95.1 - 110.1	<1.00	<0.157	<0.0993	<0.174 UJ	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-E-03D	6/12/2023	N	EM10	UMCf	95.1 - 110.1	<100	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	4.43 J	<0.101
U4-E-03D	7/11/2023	N	EM11	UMCf	95.1 - 110.1	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-E-03D	8/10/2023	N	EM12	UMCf	95.1 - 110.1	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-E-03D	9/11/2023	N	EM13	UMCf	95.1 - 110.1	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101

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
						Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p-Cymene (p-Isopropyltoluene)	sec-Butylbenzene	Styrene	tert-Amyl Methyl Ether	tert-Butyl Alcohol	tert-Butyl Methyl Ether (MTBE)
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-E-03D	10/16/2023	N	EM14	UMCf	95.1 - 110.1	<200 UJ	<31.4 UJ	<19.9	<34.8	<24.0	<25.0	<23.6	<39.0	<812	<20.2
U4-E-03D	6/10/2024	N	EM20	UMCf	95.1 - 110.1	<20.0	<3.14	<1.99	<3.48	<2.40	<2.50	<2.36	<3.90	<81.2	<2.02
U4-E-03D	6/10/2024	FD	EM20	UMCf	95.1 - 110.1	<20.0	<3.14	<1.99	<3.48	<2.40	<2.50	<2.36	<3.90	<81.2	<2.02
U4-E-04D	4/19/2022	N	BL02	UMCf	95.0 - 110.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	5.71	<0.101
U4-E-04D	3/14/2023	N	EM07	UMCf	95.0 - 110.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-E-04D	6/20/2024	N	EM20	UMCf	95.0 - 110.0	<10.0	<1.57	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95	<40.6	<1.01
U4-E-04I	4/18/2022	N	BL02	UMCf	75.0 - 90.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	4.31 J	<0.101
U4-E-04I	3/14/2023	N	EM07	UMCf	75.0 - 90.0	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75	<203	<5.05
U4-E-04I	6/20/2024	N	EM20	UMCf	75.0 - 90.0	<10.0	<1.57	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95	<40.6	<1.01
U4-E-05D	4/19/2022	N	BL02	UMCf	95.0 - 110.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-E-05D	3/16/2023	N	EM07	UMCf	95.0 - 110.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-E-05D	6/10/2024	N	EM20	UMCf	95.0 - 110.0	<20.0	<3.14	<1.99	<3.48	<2.40	<2.50	<2.36	<3.90	<81.2	<2.02
U4-E-05I	4/19/2022	N	BL02	UMCf	75.0 - 90.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-E-05I	3/15/2023	N	EM07	UMCf	75.0 - 90.0	<1.00 UJ	<0.157 UJ	<0.0993 UJ	<0.174 UJ	<0.120 UJ	<0.125 UJ	<0.118 UJ	<0.195 UJ	<4.06 UJ	<0.101 UJ
U4-E-05I	6/19/2024	N	EM20	UMCf	75.0 - 90.0	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75	<203	<5.05
U4-E-06D	4/11/2022	N	BL02	UMCf	95.1 - 110.1	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118 R	<0.195	<4.06	<0.101
U4-E-06D	6/20/2024	N	EM20	UMCf	95.1 - 110.1	<10.0	<1.57	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95	<40.6	<1.01
U4-E-06I	4/11/2022	N	BL02	UMCf	73.2 - 88.2	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-E-06I	4/11/2022	FD	BL02	UMCf	73.2 - 88.2	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-E-06I	10/12/2022	N	EM02	UMCf	73.2 - 88.2	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-E-06I	11/3/2022	N	EM03	UMCf	73.2 - 88.2	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-E-06I	12/6/2022	N	EM04	UMCf	73.2 - 88.2	<10.0 UJ	<1.57 UJ	<0.993 UJ	<1.74 UJ	<1.20 UJ	<1.25 UJ	<1.18 UJ	<1.95 UJ	<40.6 UJ	<1.01 UJ
U4-E-06I	1/9/2023	N	EM05	UMCf	73.2 - 88.2	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-E-06I	2/13/2023	N	EM06	UMCf	73.2 - 88.2	<100	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5	<406	<10.1
U4-E-06I	3/13/2023	N	EM07	UMCf	73.2 - 88.2	<20.0	<3.14	<1.99	<3.48	<2.40	<2.50	<2.36	<3.90	<81.2	<2.02
U4-E-06I	4/17/2023	N	EM08	UMCf	73.2 - 88.2	<20.0	<3.14	<1.99	<3.48	<2.40	<2.50	<2.36	<3.90	<81.2	<2.02
U4-E-06I	5/15/2023	N	EM09	UMCf	73.2 - 88.2	<25.0	<3.93	<2.48	<4.35	<3.00	<3.13	<2.95	<4.88	<102	<2.53
U4-E-06I	6/12/2023	N	EM10	UMCf	73.2 - 88.2	<100	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	15.6 J+	<0.101
U4-E-06I	7/11/2023	N	EM11	UMCf	73.2 - 88.2	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-E-06I	8/11/2023	N	EM12	UMCf	73.2 - 88.2	<5.00	<0.785	<0.497	<0.870	<0.600	<0.625	<0.590	<0.975	<20.3	<0.505
U4-E-06I	9/11/2023	N	EM13	UMCf	73.2 - 88.2	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-E-06I	10/16/2023	N	EM14	UMCf	73.2 - 88.2	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75	1,440	<5.05
U4-E-06I	12/13/2023	N	EM16	UMCf	73.2 - 88.2	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-E-06I	1/22/2024	N	EM17	UMCf	73.2 - 88.2	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-E-06I	2/13/2024	N	EM18	UMCf	73.2 - 88.2	<50.0 UJ	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75	<203	<5.05
U4-E-06I	3/11/2024	N	EM19	UMCf	73.2 - 88.2	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75	<203	<5.05
U4-E-06I	6/11/2024	N	EM20	UMCf	73.2 - 88.2	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-E-07D	4/12/2022	N	BL02	UMCf	94.6 - 109.6	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	4.41 J	<0.101
U4-E-07D	6/20/2024	N	EM20	UMCf	94.6 - 109.6	<10.0	<1.57	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95	<40.6	<1.01
U4-E-07I	4/12/2022	N	BL02	UMCf	74.7 - 89.7	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	13.0	<0.101
U4-E-07I	10/11/2022	N	EM02	UMCf	74.7 - 89.7	<10.0	<1.57	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95	<40.6	<1.01
U4-E-07I	11/3/2022	N	EM03	UMCf	74.7 - 89.7	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-E-07I	12/6/2022	N	EM04	UMCf	74.7 - 89.7	<25.0 UJ	<3.93 UJ	<2.48 UJ	<4.35 UJ	<3.00 UJ	<3.13 UJ	<2.95 UJ	<4.88 UJ	<102 UJ	<2.53 UJ

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
						Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p-Cymene (p-Isopropyltoluene)	sec-Butylbenzene	Styrene	tert-Amyl Methyl Ether	tert-Butyl Alcohol	tert-Butyl Methyl Ether (MTBE)
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-E-07I	1/9/2023	N	EM05	UMCf	74.7 - 89.7	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-E-07I	2/13/2023	N	EM06	UMCf	74.7 - 89.7	<100	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5	<406	<10.1
U4-E-07I	3/13/2023	N	EM07	UMCf	74.7 - 89.7	<100	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5	<406	<10.1
U4-E-07I	4/19/2023	N	EM08	UMCf	74.7 - 89.7	<5.00	<0.785	<0.497	<0.870	<0.600	<0.625	<0.590	<0.975	<20.3	<0.505
U4-E-07I	5/15/2023	N	EM09	UMCf	74.7 - 89.7	<100	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5	<406	<10.1
U4-E-07I	6/12/2023	N	EM10	UMCf	74.7 - 89.7	<100	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	26.7 J+	<0.101
U4-E-07I	7/11/2023	N	EM11	UMCf	74.7 - 89.7	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-E-07I	8/11/2023	N	EM12	UMCf	74.7 - 89.7	<5.00	<0.785	<0.497	<0.870	<0.600	<0.625	<0.590	<0.975	<20.3	<0.505
U4-E-07I	9/11/2023	N	EM13	UMCf	74.7 - 89.7	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-E-07I	10/16/2023	N	EM14	UMCf	74.7 - 89.7	<100 UJ	<15.7 UJ	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5	<406	<10.1
U4-E-07I	12/13/2023	N	EM16	UMCf	74.7 - 89.7	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-E-07I	1/23/2024	N	EM17	UMCf	74.7 - 89.7	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-E-07I	2/13/2024	N	EM18	UMCf	74.7 - 89.7	<200 UJ	<31.4	<19.9	<34.8	<24.0	<25.0	<23.6	<39.0	<812	<20.2
U4-E-07I	3/11/2024	N	EM19	UMCf	74.7 - 89.7	<200	<31.4	<19.9	<34.8	<24.0	<25.0	<23.6	<39.0	<812	<20.2
U4-E-07I	6/11/2024	N	EM20	UMCf	74.7 - 89.7	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-E-08D	4/12/2022	N	BL02	UMCf	94.6 - 109.6	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	5.12	<0.101
U4-E-08D	10/11/2022	N	EM02	UMCf	94.6 - 109.6	<10.0	<1.57	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95	<40.6	<1.01
U4-E-08D	11/3/2022	N	EM03	UMCf	94.6 - 109.6	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-E-08D	12/6/2022	N	EM04	UMCf	94.6 - 109.6	<25.0 UJ	<3.93 UJ	<2.48 UJ	<4.35 UJ	<3.00 UJ	<3.13 UJ	<2.95 UJ	<4.88 UJ	<102 UJ	<2.53 UJ
U4-E-08D	1/9/2023	N	EM05	UMCf	94.6 - 109.6	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-E-08D	2/13/2023	N	EM06	UMCf	94.6 - 109.6	<100	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5	<406	<10.1
U4-E-08D	3/13/2023	N	EM07	UMCf	94.6 - 109.6	<100	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5	<406	<10.1
U4-E-08D	4/19/2023	N	EM08	UMCf	94.6 - 109.6	<5.00	<0.785	<0.497	<0.870	<0.600	<0.625	<0.590	<0.975	<20.3	<0.505
U4-E-08D	5/17/2023	N	EM09	UMCf	94.6 - 109.6	<100	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5	<406	<10.1
U4-E-08D	6/12/2023	N	EM10	UMCf	94.6 - 109.6	<100	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	58.3 J+	<0.101
U4-E-08D	7/11/2023	N	EM11	UMCf	94.6 - 109.6	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-E-09D	4/15/2022	N	BL02	UMCf	94.5 - 109.5	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-E-09D	6/10/2024	N	EM20	UMCf	94.5 - 109.5	<20.0	<3.14	<1.99	<3.48	<2.40	<2.50	<2.36	<3.90	<81.2	<2.02
U4-E-09I	4/14/2022	N	BL02	UMCf	74.9 - 89.9	<1.00	<0.157	<0.0993	0.220 J	<0.120	<0.125	<0.118	<0.195	12.7	<0.101
U4-E-09I	6/10/2024	N	EM20	UMCf	74.9 - 89.9	<20.0	<3.14	<1.99	<3.48	<2.40	<2.50	<2.36	<3.90	<81.2	<2.02
U4-E-09I	6/10/2024	FD	EM20	UMCf	74.9 - 89.9	<20.0	<3.14	<1.99	<3.48	<2.40	<2.50	<2.36	<3.90	<81.2	<2.02
U4-E-10D	4/13/2022	N	BL02	UMCf	94.5 - 109.5	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-E-10D	6/19/2024	N	EM20	UMCf	94.5 - 109.5	<10.0	<1.57	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95	<40.6	<1.01
U4-E-10I	4/13/2022	N	BL02	UMCf	74.2 - 89.2	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-E-10I	6/11/2024	N	EM20	UMCf	74.2 - 89.2	<100	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5	<406	<10.1
U4-MW-01D	4/19/2022	N	BL02	UMCf	96.7 - 106.7	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	7.15	<0.101
U4-MW-01D	2/16/2023	N	EM06	UMCf	96.7 - 106.7	<10.0	<1.57	<0.993 UJ	<1.74	<1.20	<1.25	<1.18	<1.95	<40.6	<1.01
U4-MW-01D	3/20/2023	N	EM07	UMCf	96.7 - 106.7	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-01D	6/13/2023	N	EM10	UMCf	96.7 - 106.7	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-01D	9/14/2023	N	EM13	UMCf	96.7 - 106.7	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-01D	12/14/2023	N	EM16	UMCf	96.7 - 106.7	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-01D	3/13/2024	N	EM19	UMCf	96.7 - 106.7	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-01D	6/18/2024	N	EM20	UMCf	96.7 - 106.7	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101

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
						Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p-Cymene (p-Isopropyltoluene)	sec-Butylbenzene	Styrene	tert-Amyl Methyl Ether	tert-Butyl Alcohol	tert-Butyl Methyl Ether (MTBE)
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-01DD	4/19/2022	N	BL02	UMCf	119.9 - 129.9	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-01DD	4/19/2022	FD	BL02	UMCf	119.9 - 129.9	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-01DD	3/15/2023	N	EM07	UMCf	119.9 - 129.9	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-01DD	6/13/2023	N	EM10	UMCf	119.9 - 129.9	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-01DD	9/14/2023	N	EM13	UMCf	119.9 - 129.9	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-01DD	12/15/2023	N	EM16	UMCf	119.9 - 129.9	<5.00	<0.785	<0.497	<0.870	<0.600	<0.625	<0.590	<0.975	<20.3	<0.505
U4-MW-01DD	3/12/2024	N	EM19	UMCf	119.9 - 129.9	<5.00	<0.785	<0.497	<0.870	<0.600	<0.625	<0.590	<0.975	<20.3	<0.505
U4-MW-01DD	6/18/2024	N	EM20	UMCf	119.9 - 129.9	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-01I	4/19/2022	N	BL02	UMCf	76.7 - 86.7	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-01I	3/20/2023	N	EM07	UMCf	76.7 - 86.7	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-01I	6/12/2023	N	EM10	UMCf	76.7 - 86.7	<25.0	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	38.4 J+	<0.101
U4-MW-01I	9/14/2023	N	EM13	UMCf	76.7 - 86.7	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-01I	12/15/2023	N	EM16	UMCf	76.7 - 86.7	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75	<203	<5.05
U4-MW-01I	3/13/2024	N	EM19	UMCf	76.7 - 86.7	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-01I	6/18/2024	N	EM20	UMCf	76.7 - 86.7	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-01S	4/18/2022	N	BL02	UMCf	54.7 - 64.7	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-01S	3/15/2023	N	EM07	UMCf	54.7 - 64.7	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-01S	6/13/2023	N	EM10	UMCf	54.7 - 64.7	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-01S	9/15/2023	N	EM13	UMCf	54.7 - 64.7	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118 R	<0.195	<4.06	<0.101
U4-MW-01S	12/13/2023	N	EM16	UMCf	54.7 - 64.7	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118 R	<0.195	<4.06	<0.101
U4-MW-01S	3/13/2024	N	EM19	UMCf	54.7 - 64.7	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118 R	<0.195	<4.06	<0.101
U4-MW-01S	6/18/2024	N	EM20	UMCf	54.7 - 64.7	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-02D	4/14/2022	N	BL02	UMCf	95.0 - 110.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	5.42	<0.101
U4-MW-02D	10/11/2022	N	EM02	UMCf	95.0 - 110.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-02D	11/1/2022	N	EM03	UMCf	95.0 - 110.0	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75	<203	<5.05
U4-MW-02D	12/7/2022	N	EM04	UMCf	95.0 - 110.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	14.9	<0.101
U4-MW-02D	1/10/2023	N	EM05	UMCf	95.0 - 110.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	5.93	<0.101
U4-MW-02D	2/13/2023	N	EM06	UMCf	95.0 - 110.0	<1.00	<0.157 UJ	<9.93	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-02D	3/17/2023	N	EM07	UMCf	95.0 - 110.0	<100 UJ	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5	<406	<10.1
U4-MW-02D	4/19/2023	N	EM08	UMCf	95.0 - 110.0	<5.00	<0.785	<0.497	<0.870	<0.600	<0.625	<0.590	<0.975	<20.3	<0.505
U4-MW-02D	5/9/2023	N	EM09	UMCf	95.0 - 110.0	<5.00	<0.785	<0.497	<0.870	<0.600	<0.625	<0.590	<0.975	<20.3	<0.505
U4-MW-02D	6/13/2023	N	EM10	UMCf	95.0 - 110.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-02D	7/18/2023	N	EM11	UMCf	95.0 - 110.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-02D	8/14/2023	N	EM12	UMCf	95.0 - 110.0	<250	<39.3	<24.8	<43.5 UJ	<30.0	<31.3	<29.5	<48.8	<1,020	<25.3
U4-MW-02D	9/11/2023	N	EM13	UMCf	95.0 - 110.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-02D	10/19/2023	N	EM14	UMCf	95.0 - 110.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<11.8	<0.195	<4.06	<0.101
U4-MW-02D	11/15/2023	N	EM15	UMCf	95.0 - 110.0	<100 UJ	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5	<406	<10.1
U4-MW-02D	12/14/2023	N	EM16	UMCf	95.0 - 110.0	<100	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5	<406	<10.1
U4-MW-02D	1/25/2024	N	EM17	UMCf	95.0 - 110.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-02D	2/12/2024	N	EM18	UMCf	95.0 - 110.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195	<4.06	<0.101
U4-MW-02D	3/13/2024	N	EM19	UMCf	95.0 - 110.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-02D	6/17/2024	N	EM20	UMCf	95.0 - 110.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-02I	4/14/2022	N	BL02	UMCf	75.0 - 90.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101

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
						Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p-Cymene (p-Isopropyltoluene)	sec-Butylbenzene	Styrene	tert-Amyl Methyl Ether	tert-Butyl Alcohol	tert-Butyl Methyl Ether (MTBE)
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-02I	10/11/2022	N	EM02	UMCf	75.0 - 90.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-02I	11/2/2022	N	EM03	UMCf	75.0 - 90.0	<10.0	<1.57	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95	<40.6	<1.01
U4-MW-02I	11/2/2022	FD	EM03	UMCf	75.0 - 90.0	<10.0	<1.57	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95	<40.6	<1.01
U4-MW-02I	12/8/2022	N	EM04	UMCf	75.0 - 90.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-02I	12/8/2022	FD	EM04	UMCf	75.0 - 90.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-02I	1/13/2023	N	EM05	UMCf	75.0 - 90.0	<10.0	<1.57	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95	<40.6	<1.01
U4-MW-02I	1/13/2023	FD	EM05	UMCf	75.0 - 90.0	<10.0	<1.57	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95	<40.6	<1.01
U4-MW-02I	2/15/2023	N	EM06	UMCf	75.0 - 90.0	<10.0	<1.57	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95	<40.6	<1.01
U4-MW-02I	2/15/2023	FD	EM06	UMCf	75.0 - 90.0	<10.0	<1.57	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95	<40.6	<1.01
U4-MW-02I	3/17/2023	N	EM07	UMCf	75.0 - 90.0	<200 UJ	<31.4	<19.9	<34.8	<24.0	<25.0	<23.6	<39.0	<812	<20.2
U4-MW-02I	3/17/2023	FD	EM07	UMCf	75.0 - 90.0	<200 UJ	<31.4	<19.9	<34.8	<24.0	<25.0	<23.6	<39.0	<812	<20.2
U4-MW-02I	4/20/2023	N	EM08	UMCf	75.0 - 90.0	<1.00 UJ	<0.157	<0.0993	<0.174 UJ	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-02I	4/20/2023	FD	EM08	UMCf	75.0 - 90.0	<1.00 UJ	<0.157	<0.0993	<0.174 UJ	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-02I	5/9/2023	N	EM09	UMCf	75.0 - 90.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-02I	5/9/2023	FD	EM09	UMCf	75.0 - 90.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-02I	6/12/2023	N	EM10	UMCf	75.0 - 90.0	<10.0	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-02I	6/12/2023	FD	EM10	UMCf	75.0 - 90.0	<10.0	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-02I	7/18/2023	N	EM11	UMCf	75.0 - 90.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-02I	7/18/2023	FD	EM11	UMCf	75.0 - 90.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-02I	8/11/2023	N	EM12	UMCf	75.0 - 90.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-02I	8/11/2023	FD	EM12	UMCf	75.0 - 90.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-02I	9/11/2023	N	EM13	UMCf	75.0 - 90.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-02I	9/11/2023	FD	EM13	UMCf	75.0 - 90.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-02I	10/19/2023	N	EM14	UMCf	75.0 - 90.0	<1.00 UJ	<0.157 UJ	<0.0993 UJ	<0.174 UJ	<0.120 UJ	<0.125 UJ	<5.90 UJ	<0.195 UJ	<4.06 UJ	<0.101 UJ
U4-MW-02I	10/19/2023	FD	EM14	UMCf	75.0 - 90.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<5.90	<0.195	<4.06	<0.101
U4-MW-02I	11/15/2023	N	EM15	UMCf	75.0 - 90.0	<50.0 UJ	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75	<203	<5.05
U4-MW-02I	11/15/2023	FD	EM15	UMCf	75.0 - 90.0	<50.0 UJ	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75	<203	<5.05
U4-MW-02I	12/14/2023	N	EM16	UMCf	75.0 - 90.0	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75	<203	<5.05
U4-MW-02I	12/14/2023	FD	EM16	UMCf	75.0 - 90.0	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75	<203	<5.05
U4-MW-02I	1/25/2024	N	EM17	UMCf	75.0 - 90.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-02I	1/25/2024	FD	EM17	UMCf	75.0 - 90.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-02I	2/12/2024	N	EM18	UMCf	75.0 - 90.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195	<4.06	<0.101
U4-MW-02I	2/12/2024	FD	EM18	UMCf	75.0 - 90.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195	<4.06	<0.101
U4-MW-02I	3/13/2024	N	EM19	UMCf	75.0 - 90.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-02I	3/13/2024	FD	EM19	UMCf	75.0 - 90.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-02I	6/17/2024	N	EM20	UMCf	75.0 - 90.0	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75	<203	<5.05
U4-MW-02I	6/17/2024	FD	EM20	UMCf	75.0 - 90.0	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75	<203	<5.05
U4-MW-03D	4/20/2022	N	BL02	UMCf	96.6 - 106.6	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	5.74 J	<0.101
U4-MW-03D	2/16/2023	N	EM06	UMCf	96.6 - 106.6	<5.00	<0.785	<0.497 UJ	<0.870	<0.600	<0.625	<0.590	<0.975	<20.3	<0.505
U4-MW-03D	3/16/2023	N	EM07	UMCf	96.6 - 106.6	<20.0	<3.14	<1.99	<3.48	<2.40	<2.50	<2.36	<3.90	<81.2	<2.02
U4-MW-03D	3/16/2023	FD	EM07	UMCf	96.6 - 106.6	<5.00	<0.785	<0.497	<0.870	<0.600	<0.625	<0.590	<0.975	<20.3	<0.505
U4-MW-03D	6/15/2023	N	EM10	UMCf	96.6 - 106.6	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-03D	9/14/2023	N	EM13	UMCf	96.6 - 106.6	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101

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
						Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p-Cymene (p-Isopropyltoluene)	sec-Butylbenzene	Styrene	tert-Amyl Methyl Ether	tert-Butyl Alcohol	tert-Butyl Methyl Ether (MTBE)
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-03D	12/13/2023	N	EM16	UMCf	96.6 - 106.6	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-03D	3/15/2024	N	EM19	UMCf	96.6 - 106.6	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-03D	6/17/2024	N	EM20	UMCf	96.6 - 106.6	<50.0	<7.85	9.38 J	<8.70	<6.00	<6.25	<5.90	<9.75	<203	<5.05
U4-MW-03DD	4/20/2022	N	BL02	UMCf	119.7 - 129.7	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-03DD	3/15/2023	N	EM07	UMCf	119.7 - 129.7	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-03DD	6/15/2023	N	EM10	UMCf	119.7 - 129.7	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-03DD	9/14/2023	N	EM13	UMCf	119.7 - 129.7	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-03DD	12/14/2023	N	EM16	UMCf	119.7 - 129.7	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-03DD	3/14/2024	N	EM19	UMCf	119.7 - 129.7	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-03DD	6/17/2024	N	EM20	UMCf	119.7 - 129.7	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-03I	4/19/2022	N	BL02	UMCf	76.6 - 86.6	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	4.28 J	<0.101
U4-MW-03I	3/15/2023	N	EM07	UMCf	76.6 - 86.6	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-03I	6/14/2023	N	EM10	UMCf	76.6 - 86.6	<20.0	<3.14	<1.99	<3.48	<2.40	<2.50	<2.36	<3.90	<81.2	<2.02
U4-MW-03I	6/14/2023	FD	EM10	UMCf	76.6 - 86.6	<25.0	<3.93	<2.48	<4.35	<3.00	<3.13	<2.95	<4.88	<102	<2.53
U4-MW-03I	9/11/2023	N	EM13	UMCf	76.6 - 86.6	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-03I	9/11/2023	FD	EM13	UMCf	76.6 - 86.6	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-03I	12/13/2023	N	EM16	UMCf	76.6 - 86.6	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-03I	12/13/2023	FD	EM16	UMCf	76.6 - 86.6	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-03I	3/14/2024	N	EM19	UMCf	76.6 - 86.6	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75	<203	<5.05
U4-MW-03I	3/14/2024	FD	EM19	UMCf	76.6 - 86.6	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75	<203	<5.05
U4-MW-03I	6/19/2024	N	EM20	UMCf	76.6 - 86.6	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75	<203	<5.05
U4-MW-03I	6/19/2024	FD	EM20	UMCf	76.6 - 86.6	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75	<203	<5.05
U4-MW-03S	4/18/2022	N	BL02	UMCf	54.5 - 64.5	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-03S	4/18/2022	FD	BL02	UMCf	54.5 - 64.5	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-03S	3/15/2023	N	EM07	UMCf	54.5 - 64.5	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-03S	6/15/2023	N	EM10	UMCf	54.5 - 64.5	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-03S	9/14/2023	N	EM13	UMCf	54.5 - 64.5	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-03S	12/13/2023	N	EM16	UMCf	54.5 - 64.5	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-03S	3/14/2024	N	EM19	UMCf	54.5 - 64.5	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-03S	6/14/2024	N	EM20	UMCf	54.5 - 64.5	<1.00	<0.157 UJ	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195	<4.06	<0.101
U4-MW-04D	4/19/2022	N	BL02	UMCf	97.0 - 107.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	5.59	<0.101
U4-MW-04D	2/16/2023	N	EM06	UMCf	97.0 - 107.0	<50.0	<7.85	<4.97 UJ	<8.70	<6.00	<6.25	<5.90	<9.75	<203	<5.05
U4-MW-04D	3/21/2023	N	EM07	UMCf	97.0 - 107.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-04D	6/14/2023	N	EM10	UMCf	97.0 - 107.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-04D	9/15/2023	N	EM13	UMCf	97.0 - 107.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-04D	12/12/2023	N	EM16	UMCf	97.0 - 107.0	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-04D	3/12/2024	N	EM19	UMCf	97.0 - 107.0	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75	<203	<5.05
U4-MW-04D	6/19/2024	N	EM20	UMCf	97.0 - 107.0	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75	<203	<5.05
U4-MW-04I	4/19/2022	N	BL02	UMCf	76.8 - 86.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	10.8	<0.101
U4-MW-04I	3/20/2023	N	EM07	UMCf	76.8 - 86.8	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-04I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<5.00	<0.785	<0.497	<0.870	<0.600	<0.625	<0.590	<0.975	<20.3	<0.505
U4-MW-04I	9/14/2023	N	EM13	UMCf	76.8 - 86.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-04I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101

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
						Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p-Cymene (p-Isopropyltoluene)	sec-Butylbenzene	Styrene	tert-Amyl Methyl Ether	tert-Butyl Alcohol	tert-Butyl Methyl Ether (MTBE)
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-04I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	<200	<31.4	<19.9	<34.8	<24.0	<25.0	<23.6	<39.0	<812	<20.2
U4-MW-04I	6/18/2024	N	EM20	UMCf	76.8 - 86.8	<5.00	<0.785	<0.497	<0.870	<0.600	<0.625	<0.590	<0.975	<20.3	<0.505
U4-MW-05D	4/15/2022	N	BL02	UMCf	98.2 - 108.2	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-05D	10/13/2022	N	EM02	UMCf	98.2 - 108.2	<100 UJ	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5	<406	<10.1
U4-MW-05D	11/3/2022	N	EM03	UMCf	98.2 - 108.2	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-05D	12/7/2022	N	EM04	UMCf	98.2 - 108.2	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	6.34	<0.101
U4-MW-05D	1/11/2023	N	EM05	UMCf	98.2 - 108.2	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-05D	2/14/2023	N	EM06	UMCf	98.2 - 108.2	<100	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5	<406	<10.1
U4-MW-05D	3/16/2023	N	EM07	UMCf	98.2 - 108.2	<100	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5	<406	<10.1
U4-MW-05D	4/20/2023	N	EM08	UMCf	98.2 - 108.2	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-05D	5/10/2023	N	EM09	UMCf	98.2 - 108.2	<1.00	<0.157	<0.0993	<0.174 UJ	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-05D	6/15/2023	N	EM10	UMCf	98.2 - 108.2	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-05D	7/18/2023	N	EM11	UMCf	98.2 - 108.2	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-05D	8/14/2023	N	EM12	UMCf	98.2 - 108.2	<25.0	<3.93	<2.48	<4.35 UJ	<3.00	<3.13	<2.95	<4.88	<102	<2.53
U4-MW-05D	9/12/2023	N	EM13	UMCf	98.2 - 108.2	<25.0	<3.93	<2.48	<4.35	<3.00	<3.13	<2.95	<4.88	<102	<2.53
U4-MW-05D	10/18/2023	N	EM14	UMCf	98.2 - 108.2	<25.0	<3.93	<2.48	<4.35	<3.00	<3.13	<2.95	<4.88	<102	<2.53
U4-MW-05D	11/16/2023	N	EM15	UMCf	98.2 - 108.2	<25.0 UJ	<3.93	<2.48	<4.35	<3.00	<3.13	<2.95	<4.88	<102	<2.53
U4-MW-05D	12/14/2023	N	EM16	UMCf	98.2 - 108.2	<25.0	<3.93	<2.48	<4.35	<3.00	<3.13	<2.95	<4.88	<102	<2.53
U4-MW-05D	1/26/2024	N	EM17	UMCf	98.2 - 108.2	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-05D	2/14/2024	N	EM18	UMCf	98.2 - 108.2	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-05D	3/12/2024	N	EM19	UMCf	98.2 - 108.2	<25.0	<3.93	<2.48	<4.35	<3.00	<3.13	<2.95	<4.88	<102	<2.53
U4-MW-05D	6/18/2024	N	EM20	UMCf	98.2 - 108.2	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-05I	4/15/2022	N	BL02	UMCf	76.6 - 86.6	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-05I	10/13/2022	N	EM02	UMCf	76.6 - 86.6	<100 UJ	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5	<406	<10.1
U4-MW-05I	11/3/2022	N	EM03	UMCf	76.6 - 86.6	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-05I	12/8/2022	N	EM04	UMCf	76.6 - 86.6	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-05I	1/11/2023	N	EM05	UMCf	76.6 - 86.6	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-05I	2/14/2023	N	EM06	UMCf	76.6 - 86.6	<100	<15.7	<9.93 UJ	<17.4	<12.0	<12.5	<11.8	<19.5	<406	<10.1
U4-MW-05I	3/14/2023	N	EM07	UMCf	76.6 - 86.6	<100	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5	<406	<10.1
U4-MW-05I	4/21/2023	N	EM08	UMCf	76.6 - 86.6	<1.00	<0.157	<0.0993	<0.174 UJ	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-05I	5/10/2023	N	EM09	UMCf	76.6 - 86.6	<1.00	<0.157	<0.0993	<0.174 UJ	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-05I	6/15/2023	N	EM10	UMCf	76.6 - 86.6	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-05I	7/17/2023	N	EM11	UMCf	76.6 - 86.6	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-05I	8/14/2023	N	EM12	UMCf	76.6 - 86.6	<50.0	<7.85	<4.97	<8.70 UJ	<6.00	<6.25	<5.90	<9.75	<203	<5.05
U4-MW-05I	9/13/2023	N	EM13	UMCf	76.6 - 86.6	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195	<4.06	<0.101
U4-MW-05I	10/18/2023	N	EM14	UMCf	76.6 - 86.6	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75	<203	<5.05
U4-MW-05I	11/15/2023	N	EM15	UMCf	76.6 - 86.6	<50.0 UJ	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75	<203	<5.05
U4-MW-05I	12/12/2023	N	EM16	UMCf	76.6 - 86.6	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-05I	1/26/2024	N	EM17	UMCf	76.6 - 86.6	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-05I	2/14/2024	N	EM18	UMCf	76.6 - 86.6	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-05I	3/11/2024	N	EM19	UMCf	76.6 - 86.6	<1.00	<0.157 UJ	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-05I	6/18/2024	N	EM20	UMCf	76.6 - 86.6	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-06D	4/19/2022	N	BL02	UMCf	97.1 - 107.1	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101

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
						Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p-Cymene (p-Isopropyltoluene)	sec-Butylbenzene	Styrene	tert-Amyl Methyl Ether	tert-Butyl Alcohol	tert-Butyl Methyl Ether (MTBE)
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-06D	2/15/2023	N	EM06	UMCf	97.1 - 107.1	<50.0 UJ	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75 UJ	<203	<5.05
U4-MW-06D	3/21/2023	N	EM07	UMCf	97.1 - 107.1	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-06D	6/16/2023	N	EM10	UMCf	97.1 - 107.1	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-06D	9/13/2023	N	EM13	UMCf	97.1 - 107.1	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195	<4.06	<0.101
U4-MW-06D	12/13/2023	N	EM16	UMCf	97.1 - 107.1	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-06D	3/14/2024	N	EM19	UMCf	97.1 - 107.1	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75	<203	<5.05
U4-MW-06D	6/12/2024	N	EM20	UMCf	97.1 - 107.1	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-06I	4/19/2022	N	BL02	UMCf	76.5 - 86.5	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-06I	3/14/2023	N	EM07	UMCf	76.5 - 86.5	<50.0	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	5.95 J+	<0.101
U4-MW-06I	6/16/2023	N	EM10	UMCf	76.5 - 86.5	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-06I	9/12/2023	N	EM13	UMCf	76.5 - 86.5	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75	<203	<5.05
U4-MW-06I	12/12/2023	N	EM16	UMCf	76.5 - 86.5	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-06I	3/14/2024	N	EM19	UMCf	76.5 - 86.5	<100	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5	<406	<10.1
U4-MW-06I	6/11/2024	N	EM20	UMCf	76.5 - 86.5	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-07D	4/15/2022	N	BL02	UMCf	96.8 - 106.5	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	5.04 J	<0.101
U4-MW-07D	10/12/2022	N	EM02	UMCf	96.8 - 106.5	<1.00	<0.157	<0.0993	0.181 J	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-07D	10/12/2022	FD	EM02	UMCf	96.8 - 106.5	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-07D	11/3/2022	N	EM03	UMCf	96.8 - 106.5	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-07D	12/7/2022	N	EM04	UMCf	96.8 - 106.5	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-07D	1/11/2023	N	EM05	UMCf	96.8 - 106.5	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-07D	2/14/2023	N	EM06	UMCf	96.8 - 106.5	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-07D	3/16/2023	N	EM07	UMCf	96.8 - 106.5	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-07D	4/21/2023	N	EM08	UMCf	96.8 - 106.5	<1.00	<0.157	<0.0993	<0.174 UJ	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-07D	5/11/2023	N	EM09	UMCf	96.8 - 106.5	<1.00	<0.157	<0.0993	<0.174 UJ	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-07D	6/13/2023	N	EM10	UMCf	96.8 - 106.5	<1.00 UJ	<0.157 UJ	<0.0993 UJ	<0.174 UJ	<0.120 UJ	<0.125 UJ	<0.118 UJ	<0.195 UJ	<4.06 UJ	<0.101 UJ
U4-MW-07D	7/17/2023	N	EM11	UMCf	96.8 - 106.5	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-07D	8/11/2023	N	EM12	UMCf	96.8 - 106.5	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-07D	9/13/2023	N	EM13	UMCf	96.8 - 106.5	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195	<4.06	<0.101
U4-MW-07D	10/18/2023	N	EM14	UMCf	96.8 - 106.5	<100	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5	<406	<10.1
U4-MW-07D	11/16/2023	N	EM15	UMCf	96.8 - 106.5	<100 UJ	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5	<406	<10.1
U4-MW-07D	12/12/2023	N	EM16	UMCf	96.8 - 106.5	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-07D	1/26/2024	N	EM17	UMCf	96.8 - 106.5	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-07D	2/13/2024	N	EM18	UMCf	96.8 - 106.5	<25.0 UJ	<3.93	<2.48	<4.35	<3.00	<3.13	<2.95	<4.88	<102	<2.53
U4-MW-07D	3/11/2024	N	EM19	UMCf	96.8 - 106.5	<25.0	<3.93 UJ	<2.48	<4.35	<3.00	<3.13	<2.95	<4.88	<102	<2.53
U4-MW-07D	6/12/2024	N	EM20	UMCf	96.8 - 106.5	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-07I	4/15/2022	N	BL02	UMCf	76.8 - 86.8	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-07I	10/12/2022	N	EM02	UMCf	76.8 - 86.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-07I	11/3/2022	N	EM03	UMCf	76.8 - 86.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-07I	12/7/2022	N	EM04	UMCf	76.8 - 86.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-07I	1/11/2023	N	EM05	UMCf	76.8 - 86.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-07I	2/15/2023	N	EM06	UMCf	76.8 - 86.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-07I	3/16/2023	N	EM07	UMCf	76.8 - 86.8	<5.00	<0.785	<0.497	<0.870	<0.600	<0.625	<0.590	<0.975	<20.3	<0.505
U4-MW-07I	4/21/2023	N	EM08	UMCf	76.8 - 86.8	<1.00	<0.157	<0.0993	<0.174 UJ	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101

Table 2
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 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
						Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p-Cymene (p-Isopropyltoluene)	sec-Butylbenzene	Styrene	tert-Amyl Methyl Ether	tert-Butyl Alcohol	tert-Butyl Methyl Ether (MTBE)
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-07I	5/11/2023	N	EM09	UMCf	76.8 - 86.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-07I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<5.00	<0.785	<0.497	<0.870	<0.600	<0.625	<0.590	<0.975	<20.3	<0.505
U4-MW-07I	7/17/2023	N	EM11	UMCf	76.8 - 86.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-07I	8/11/2023	N	EM12	UMCf	76.8 - 86.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-07I	9/13/2023	N	EM13	UMCf	76.8 - 86.8	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195	<4.06	<0.101
U4-MW-07I	10/18/2023	N	EM14	UMCf	76.8 - 86.8	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75	<203	<5.05
U4-MW-07I	11/16/2023	N	EM15	UMCf	76.8 - 86.8	<50.0 UJ	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75	<203	<5.05
U4-MW-07I	12/11/2023	N	EM16	UMCf	76.8 - 86.8	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-07I	1/26/2024	N	EM17	UMCf	76.8 - 86.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-07I	2/13/2024	N	EM18	UMCf	76.8 - 86.8	<50.0 UJ	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75	<203	<5.05
U4-MW-07I	3/11/2024	N	EM19	UMCf	76.8 - 86.8	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75	<203	<5.05
U4-MW-07I	6/12/2024	N	EM20	UMCf	76.8 - 86.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-08D	4/13/2022	N	BL02	UMCf	98.6 - 108.6	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	8.05	<0.101
U4-MW-08D	12/7/2022	N	EM04	UMCf	98.6 - 108.6	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-08D	3/17/2023	N	EM07	UMCf	98.6 - 108.6	<100 UJ	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5	<406	<10.1
U4-MW-08D	6/13/2023	N	EM10	UMCf	98.6 - 108.6	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-08D	9/13/2023	N	EM13	UMCf	98.6 - 108.6	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195	<4.06	<0.101
U4-MW-08D	12/11/2023	N	EM16	UMCf	98.6 - 108.6	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-08D	3/12/2024	N	EM19	UMCf	98.6 - 108.6	<200	<31.4	<19.9	<34.8	<24.0	<25.0	<23.6	<39.0	<812	<20.2
U4-MW-08D	6/14/2024	N	EM20	UMCf	98.6 - 108.6	<200	<31.4 UJ	<19.9	<34.8	<24.0	<25.0	<23.6 UJ	<39.0	<812	<20.2
U4-MW-08DD	4/20/2022	N	BL02	UMCf	119.8 - 129.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-08DD	4/20/2022	FD	BL02	UMCf	119.8 - 129.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-08DD	12/8/2022	N	EM04	UMCf	119.8 - 129.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-08DD	3/15/2023	N	EM07	UMCf	119.8 - 129.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-08DD	6/14/2023	N	EM10	UMCf	119.8 - 129.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-08DD	9/14/2023	N	EM13	UMCf	119.8 - 129.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-08DD	12/14/2023	N	EM16	UMCf	119.8 - 129.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-08DD	3/14/2024	N	EM19	UMCf	119.8 - 129.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-08DD	6/12/2024	N	EM20	UMCf	119.8 - 129.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-08I	4/13/2022	N	BL02	UMCf	78.0 - 88.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	6.37	<0.101
U4-MW-08I	12/7/2022	N	EM04	UMCf	78.0 - 88.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	5.48	<0.101
U4-MW-08I	12/7/2022	FD	EM04	UMCf	78.0 - 88.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-08I	3/17/2023	N	EM07	UMCf	78.0 - 88.0	<50.0 UJ	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75	<203	<5.05
U4-MW-08I	6/13/2023	N	EM10	UMCf	78.0 - 88.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-08I	9/13/2023	N	EM13	UMCf	78.0 - 88.0	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195	<4.06 UJ	<0.101
U4-MW-08I	12/11/2023	N	EM16	UMCf	78.0 - 88.0	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-08I	3/12/2024	N	EM19	UMCf	78.0 - 88.0	<100	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5	<406	<10.1
U4-MW-08I	6/14/2024	N	EM20	UMCf	78.0 - 88.0	<100	<15.7 UJ	<9.93	<17.4	<12.0	<12.5	<11.8 UJ	<19.5	<406	<10.1
U4-MW-08S	4/15/2022	N	BL02	UMCf	54.9 - 64.9	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-08S	12/7/2022	N	EM04	UMCf	54.9 - 64.9	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-08S	12/7/2022	FD	EM04	UMCf	54.9 - 64.9	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-08S	3/13/2023	N	EM07	UMCf	54.9 - 64.9	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-08S	3/13/2023	FD	EM07	UMCf	54.9 - 64.9	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101

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
						Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p-Cymene (p-Isopropyltoluene)	sec-Butylbenzene	Styrene	tert-Amyl Methyl Ether	tert-Butyl Alcohol	tert-Butyl Methyl Ether (MTBE)
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-08S	6/13/2023	N	EM10	UMCf	54.9 - 64.9	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-08S	6/13/2023	FD	EM10	UMCf	54.9 - 64.9	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-08S	9/13/2023	N	EM13	UMCf	54.9 - 64.9	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195	<4.06	<0.101
U4-MW-08S	9/13/2023	FD	EM13	UMCf	54.9 - 64.9	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195	<4.06	<0.101
U4-MW-08S	12/14/2023	N	EM16	UMCf	54.9 - 64.9	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-08S	12/14/2023	FD	EM16	UMCf	54.9 - 64.9	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-08S	3/14/2024	N	EM19	UMCf	54.9 - 64.9	<2.00 UJ	<0.314 UJ	<0.199 UJ	<0.348 UJ	<0.240 UJ	<0.250 UJ	<0.236 UJ	<0.390 UJ	<8.12 UJ	<0.202 UJ
U4-MW-08S	3/14/2024	FD	EM19	UMCf	54.9 - 64.9	<2.00 UJ	<0.314 UJ	<0.199 UJ	<0.348 UJ	<0.240 UJ	<0.250 UJ	<0.236 UJ	<0.390 UJ	<8.12 UJ	<0.202 UJ
U4-MW-08S	3/25/2024	N	EM19	UMCf	54.9 - 64.9	<1.00 UJ	0.909 J	0.400 J	<0.174 UJ	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-08S	3/25/2024	FD	EM19	UMCf	54.9 - 64.9	1.20 J	<0.157	0.103 J	<0.174 UJ	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-08S	6/14/2024	N	EM20	UMCf	54.9 - 64.9	<1.00	<0.157 UJ	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195	<4.06	<0.101
U4-MW-08S	6/14/2024	FD	EM20	UMCf	54.9 - 64.9	<1.00	<0.157 UJ	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195	<4.06	<0.101
U4-MW-09D	4/14/2022	N	BL02	UMCf	96.9 - 106.9	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-09D	12/6/2022	N	EM04	UMCf	96.9 - 106.9	<10.0 UJ	<1.57 UJ	<0.993 UJ	<1.74 UJ	<1.20 UJ	<1.25 UJ	<1.18 UJ	<1.95 UJ	<40.6 UJ	<1.01 UJ
U4-MW-09D	3/16/2023	N	EM07	UMCf	96.9 - 106.9	<10.0	<1.57	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95	<40.6	<1.01
U4-MW-09D	6/14/2023	N	EM10	UMCf	96.9 - 106.9	<1.00	<0.157	<0.993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-09D	9/12/2023	N	EM13	UMCf	96.9 - 106.9	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-09D	12/15/2023	N	EM16	UMCf	96.9 - 106.9	<25.0 UJ	<3.93 UJ	5.03 J	<4.35 UJ	<3.00 UJ	<3.13 UJ	<2.95 UJ	<4.88 UJ	<102 UJ	<2.53 UJ
U4-MW-09D	3/13/2024	N	EM19	UMCf	96.9 - 106.9	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-09D	6/13/2024	N	EM20	UMCf	96.9 - 106.9	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-09DD	4/14/2022	N	BL02	UMCf	119.8 - 129.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-09DD	12/6/2022	N	EM04	UMCf	119.8 - 129.8	<1.00 UJ	<0.157 UJ	<0.0993 UJ	<0.174 UJ	<0.120 UJ	<0.125 UJ	<0.118 UJ	<0.195 UJ	<4.06 UJ	<0.101 UJ
U4-MW-09DD	3/21/2023	N	EM07	UMCf	119.8 - 129.8	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-09DD	6/15/2023	N	EM10	UMCf	119.8 - 129.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-09DD	9/13/2023	N	EM13	UMCf	119.8 - 129.8	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195	<4.06	<0.101
U4-MW-09DD	12/13/2023	N	EM16	UMCf	119.8 - 129.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-09DD	3/14/2024	N	EM19	UMCf	119.8 - 129.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-09DD	6/13/2024	N	EM20	UMCf	119.8 - 129.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-09I	4/14/2022	N	BL02	UMCf	76.8 - 86.8	<1.00	<0.157	<0.0993	0.326 J	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-09I	12/6/2022	N	EM04	UMCf	76.8 - 86.8	<10.0 UJ	<1.57 UJ	<0.993 UJ	<1.74 UJ	<1.20 UJ	<1.25 UJ	<1.18 UJ	<1.95 UJ	<40.6 UJ	<1.01 UJ
U4-MW-09I	3/16/2023	N	EM07	UMCf	76.8 - 86.8	<10.0	<1.57	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95	<40.6	<1.01
U4-MW-09I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<10.0	<0.157	<0.993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-09I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-09I	12/15/2023	N	EM16	UMCf	76.8 - 86.8	<25.0 UJ	<3.93 UJ	<2.48 UJ	<4.35 UJ	<3.00 UJ	<3.13 UJ	<2.95 UJ	<4.88 UJ	<102 UJ	<2.53 UJ
U4-MW-09I	3/13/2024	N	EM19	UMCf	76.8 - 86.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-09I	6/13/2024	N	EM20	UMCf	76.8 - 86.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-09S	4/14/2022	N	BL02	UMCf	55.3 - 65.3	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-09S	12/6/2022	N	EM04	UMCf	55.3 - 65.3	<1.00 UJ	<0.157 UJ	<0.0993 UJ	<0.174 UJ	<0.120 UJ	<0.125 UJ	<0.118 UJ	<0.195 UJ	<4.06 UJ	<0.101 UJ
U4-MW-09S	3/17/2023	N	EM07	UMCf	55.3 - 65.3	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-09S	6/15/2023	N	EM10	UMCf	55.3 - 65.3	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-09S	9/13/2023	N	EM13	UMCf	55.3 - 65.3	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195	<4.06	<0.101
U4-MW-09S	12/12/2023	N	EM16	UMCf	55.3 - 65.3	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-09S	3/13/2024	N	EM19	UMCf	55.3 - 65.3	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101

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
						Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p-Cymene (p-Isopropyltoluene)	sec-Butylbenzene	Styrene	tert-Amyl Methyl Ether	tert-Butyl Alcohol	tert-Butyl Methyl Ether (MTBE)
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-09S	6/13/2024	N	EM20	UMCf	55.3 - 65.3	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-10D	4/14/2022	N	BL02	UMCf	96.9 - 106.9	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-10D	12/5/2022	N	EM04	UMCf	96.9 - 106.9	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-10D	3/17/2023	N	EM07	UMCf	96.9 - 106.9	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-10D	6/14/2023	N	EM10	UMCf	96.9 - 106.9	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-10D	9/13/2023	N	EM13	UMCf	96.9 - 106.9	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195	<4.06	<0.101
U4-MW-10D	12/14/2023	N	EM16	UMCf	96.9 - 106.9	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-10D	3/14/2024	N	EM19	UMCf	96.9 - 106.9	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-10D	6/11/2024	N	EM20	UMCf	96.9 - 106.9	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-10I	4/14/2022	N	BL02	UMCf	77.1 - 87.1	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-10I	12/5/2022	N	EM04	UMCf	77.1 - 87.1	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-10I	3/17/2023	N	EM07	UMCf	77.1 - 87.1	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-10I	6/14/2023	N	EM10	UMCf	77.1 - 87.1	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-10I	9/13/2023	N	EM13	UMCf	77.1 - 87.1	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195	<4.06	<0.101
U4-MW-10I	12/14/2023	N	EM16	UMCf	77.1 - 87.1	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-10I	3/13/2024	N	EM19	UMCf	77.1 - 87.1	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-10I	6/11/2024	N	EM20	UMCf	77.1 - 87.1	<10.0	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-11D	4/15/2022	N	BL02	UMCf	97.4 - 107.4	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<406	<0.101
U4-MW-11D	9/26/2022	N	EM01	UMCf	97.4 - 107.4	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75	<203	<5.05
U4-MW-11D	10/11/2022	N	EM02	UMCf	97.4 - 107.4	<10.0	<1.57	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95	<40.6	<1.01
U4-MW-11D	11/1/2022	N	EM03	UMCf	97.4 - 107.4	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75	<203	<5.05
U4-MW-11D	12/6/2022	N	EM04	UMCf	97.4 - 107.4	<25.0 UJ	<3.93 UJ	<2.48 UJ	<4.35 UJ	<3.00 UJ	<3.13 UJ	<2.95 UJ	<4.88 UJ	<102 UJ	<2.53 UJ
U4-MW-11D	1/12/2023	N	EM05	UMCf	97.4 - 107.4	<200	<31.4	<19.9	<34.8	<24.0	<25.0	<23.6	<39.0	<812	<20.2
U4-MW-11D	2/14/2023	N	EM06	UMCf	97.4 - 107.4	<200	<31.4	<19.9 UJ	<34.8	<24.0	<25.0	<23.6	<39.0	<812	<20.2
U4-MW-11D	3/16/2023	N	EM07	UMCf	97.4 - 107.4	<200	<31.4	<19.9	<34.8	<24.0	<25.0	<23.6	<39.0	<812	<20.2
U4-MW-11D	4/18/2023	N	EM08	UMCf	97.4 - 107.4	<5.00	<0.785	<0.497	<0.870	<0.600	<0.625	<0.590	<0.975	<20.3	<0.505
U4-MW-11D	5/17/2023	N	EM09	UMCf	97.4 - 107.4	<20.0 UJ	<3.14 UJ	<1.99 UJ	<3.48 UJ	<2.40 UJ	<2.50 UJ	<2.36 UJ	<3.90 UJ	<81.2 UJ	<2.02 UJ
U4-MW-11D	6/16/2023	N	EM10	UMCf	97.4 - 107.4	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-11D	7/14/2023	N	EM11	UMCf	97.4 - 107.4	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	5.22	<0.101
U4-MW-11D	8/14/2023	N	EM12	UMCf	97.4 - 107.4	<200 UJ	<31.4	<19.9	<34.8	<24.0	<25.0	<23.6	<39.0	<812	<20.2
U4-MW-11D	9/13/2023	N	EM13	UMCf	97.4 - 107.4	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195	<4.06	<0.101
U4-MW-11D	10/18/2023	N	EM14	UMCf	97.4 - 107.4	<200	<31.4	<19.9	<34.8	<24.0	<25.0	<23.6	<39.0	<812	<20.2
U4-MW-11D	11/16/2023	N	EM15	UMCf	97.4 - 107.4	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75	<203	<5.05
U4-MW-11D	12/13/2023	N	EM16	UMCf	97.4 - 107.4	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-11D	1/25/2024	N	EM17	UMCf	97.4 - 107.4	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-11D	2/14/2024	N	EM18	UMCf	97.4 - 107.4	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-11D	3/12/2024	N	EM19	UMCf	97.4 - 107.4	<100	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5	<406	<10.1
U4-MW-11D	6/12/2024	N	EM20	UMCf	97.4 - 107.4	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-11I	4/14/2022	N	BL02	UMCf	77.0 - 87.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118 R	<0.195	<4.06	<0.101
U4-MW-11I	9/26/2022	N	EM01	UMCf	77.0 - 87.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-11I	9/26/2022	FD	EM01	UMCf	77.0 - 87.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-11I	10/10/2022	N	EM02	UMCf	77.0 - 87.0	<10.0	<1.57	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95	<40.6	<1.01
U4-MW-11I	10/10/2022	FD	EM02	UMCf	77.0 - 87.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101

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
						Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p-Cymene (p-Isopropyltoluene)	sec-Butylbenzene	Styrene	tert-Amyl Methyl Ether	tert-Butyl Alcohol	tert-Butyl Methyl Ether (MTBE)
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-11I	10/31/2022	N	EM03	UMCf	77.0 - 87.0	<5.00	<0.785	<0.497	<0.870	<0.600	<0.625	<0.590	<0.975	<20.3	<0.505
U4-MW-11I	10/31/2022	FD	EM03	UMCf	77.0 - 87.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-11I	12/6/2022	N	EM04	UMCf	77.0 - 87.0	<1.00 UJ	<0.157 UJ	<0.0993 UJ	<0.174 UJ	<0.120 UJ	<0.125 UJ	<0.118 UJ	<0.195 UJ	<4.06 UJ	<0.101 UJ
U4-MW-11I	12/6/2022	FD	EM04	UMCf	77.0 - 87.0	<1.00 UJ	<0.157 UJ	<0.0993 UJ	<0.174 UJ	<0.120 UJ	<0.125 UJ	<0.118 UJ	<0.195 UJ	<4.06 UJ	<0.101 UJ
U4-MW-11I	1/12/2023	N	EM05	UMCf	77.0 - 87.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-11I	1/12/2023	FD	EM05	UMCf	77.0 - 87.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-11I	2/14/2023	N	EM06	UMCf	77.0 - 87.0	<1.00	<0.157	<0.0993 UJ	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-11I	2/14/2023	FD	EM06	UMCf	77.0 - 87.0	<1.00	<0.157	<0.0993 UJ	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-11I	3/16/2023	N	EM07	UMCf	77.0 - 87.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-11I	3/16/2023	FD	EM07	UMCf	77.0 - 87.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-11I	4/18/2023	N	EM08	UMCf	77.0 - 87.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-11I	4/18/2023	FD	EM08	UMCf	77.0 - 87.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-11I	5/19/2023	N	EM09	UMCf	77.0 - 87.0	<1.00 UJ	<0.157 UJ	<0.0993 UJ	<0.174 UJ	<0.120 UJ	<0.125 UJ	<0.118 UJ	<0.195 UJ	<4.06 UJ	<0.101 UJ
U4-MW-11I	5/19/2023	FD	EM09	UMCf	77.0 - 87.0	<1.00 UJ	<0.157 UJ	<0.0993 UJ	<0.174 UJ	<0.120 UJ	<0.125 UJ	<0.118 UJ	<0.195 UJ	<4.06 UJ	<0.101 UJ
U4-MW-11I	6/15/2023	N	EM10	UMCf	77.0 - 87.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-11I	6/15/2023	FD	EM10	UMCf	77.0 - 87.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-11I	7/13/2023	N	EM11	UMCf	77.0 - 87.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-11I	7/13/2023	FD	EM11	UMCf	77.0 - 87.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-11I	8/14/2023	N	EM12	UMCf	77.0 - 87.0	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-11I	8/14/2023	FD	EM12	UMCf	77.0 - 87.0	<1.00	<0.157	<0.0993	<0.174 UJ	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-11I	9/13/2023	N	EM13	UMCf	77.0 - 87.0	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195	<4.06	<0.101
U4-MW-11I	9/13/2023	FD	EM13	UMCf	77.0 - 87.0	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195	<4.06	<0.101
U4-MW-11I	10/19/2023	N	EM14	UMCf	77.0 - 87.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<5.90	<0.195	<4.06	<0.101
U4-MW-11I	10/19/2023	FD	EM14	UMCf	77.0 - 87.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<5.90	<0.195	<4.06	<0.101
U4-MW-11I	11/16/2023	N	EM15	UMCf	77.0 - 87.0	<50.0 UJ	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75	<203	<5.05
U4-MW-11I	11/16/2023	FD	EM15	UMCf	77.0 - 87.0	<50.0 UJ	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75	<203	<5.05
U4-MW-11I	12/13/2023	N	EM16	UMCf	77.0 - 87.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-11I	12/13/2023	FD	EM16	UMCf	77.0 - 87.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-11I	1/25/2024	N	EM17	UMCf	77.0 - 87.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-11I	1/25/2024	FD	EM17	UMCf	77.0 - 87.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-11I	2/14/2024	N	EM18	UMCf	77.0 - 87.0	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75	<203	<5.05
U4-MW-11I	2/14/2024	FD	EM18	UMCf	77.0 - 87.0	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75	<203	<5.05
U4-MW-11I	3/13/2024	N	EM19	UMCf	77.0 - 87.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-11I	3/13/2024	FD	EM19	UMCf	77.0 - 87.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-11I	6/12/2024	N	EM20	UMCf	77.0 - 87.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-11I	6/12/2024	FD	EM20	UMCf	77.0 - 87.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-12D	4/15/2022	N	BL02	UMCf	97.1 - 107.1	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-12D	9/27/2022	N	EM01	UMCf	97.1 - 107.1	<20.0	<3.14	<1.99	<3.48	<2.40	<2.50	<2.36	<3.90	<81.2	<2.02
U4-MW-12D	10/12/2022	N	EM02	UMCf	97.1 - 107.1	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-12D	11/2/2022	N	EM03	UMCf	97.1 - 107.1	<10.0	<1.57	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95	<40.6	<1.01
U4-MW-12D	12/7/2022	N	EM04	UMCf	97.1 - 107.1	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-12D	1/12/2023	N	EM05	UMCf	97.1 - 107.1	<100	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5	<406	<10.1
U4-MW-12D	2/15/2023	N	EM06	UMCf	97.1 - 107.1	<100 UJ	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5 UJ	<406	<10.1

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
						Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p-Cymene (p-Isopropyltoluene)	sec-Butylbenzene	Styrene	tert-Amyl Methyl Ether	tert-Butyl Alcohol	tert-Butyl Methyl Ether (MTBE)
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-12D	3/14/2023	N	EM07	UMCf	97.1 - 107.1	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75	<203	<5.05
U4-MW-12D	4/17/2023	N	EM08	UMCf	97.1 - 107.1	<5.00 UJ	<0.785 UJ	<0.497 UJ	<0.870 UJ	<0.600 UJ	<0.625 UJ	<0.590 UJ	<0.975 UJ	<20.3 UJ	<0.505 UJ
U4-MW-12D	5/17/2023	N	EM09	UMCf	97.1 - 107.1	<100	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5	<406	<10.1
U4-MW-12D	6/16/2023	N	EM10	UMCf	97.1 - 107.1	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-12D	7/13/2023	N	EM11	UMCf	97.1 - 107.1	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-12D	8/14/2023	N	EM12	UMCf	97.1 - 107.1	<50.0	<7.85	<4.97	<8.70 UJ	<6.00	<6.25	<5.90	<9.75	<203	<5.05
U4-MW-12D	9/12/2023	N	EM13	UMCf	97.1 - 107.1	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75	<203	<5.05
U4-MW-12D	10/17/2023	N	EM14	UMCf	97.1 - 107.1	<5.00	<0.785	<0.497	<0.870	<0.600	<0.625	<0.590	<0.975	<20.3	<0.505
U4-MW-12D	11/15/2023	N	EM15	UMCf	97.1 - 107.1	<5.00 UJ	<0.785	<0.497	<0.870	<0.600	<0.625	<0.590	<0.975	<20.3	<0.505
U4-MW-12D	12/12/2023	N	EM16	UMCf	97.1 - 107.1	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-12D	1/24/2024	N	EM17	UMCf	97.1 - 107.1	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-12D	2/13/2024	N	EM18	UMCf	97.1 - 107.1	<20.0 UJ	<3.14	<1.99	<3.48	<2.40	<2.50	<2.36	<3.90	<81.2	<2.02
U4-MW-12D	3/12/2024	N	EM19	UMCf	97.1 - 107.1	<20.0	<3.14	<1.99	<3.48	<2.40	<2.50	<2.36	<3.90	<81.2	<2.02
U4-MW-12D	6/12/2024	N	EM20	UMCf	97.1 - 107.1	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-12I	4/14/2022	N	BL02	UMCf	76.8 - 86.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	5.31	<0.101
U4-MW-12I	4/14/2022	FD	BL02	UMCf	76.8 - 86.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-12I	9/27/2022	N	EM01	UMCf	76.8 - 86.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195	<4.06	<0.101
U4-MW-12I	10/12/2022	N	EM02	UMCf	76.8 - 86.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-12I	11/2/2022	N	EM03	UMCf	76.8 - 86.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-12I	12/7/2022	N	EM04	UMCf	76.8 - 86.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-12I	12/7/2022	FD	EM04	UMCf	76.8 - 86.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-12I	1/13/2023	N	EM05	UMCf	76.8 - 86.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-12I	2/15/2023	N	EM06	UMCf	76.8 - 86.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-12I	3/13/2023	N	EM07	UMCf	76.8 - 86.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-12I	4/17/2023	N	EM08	UMCf	76.8 - 86.8	<1.00 UJ	<0.157 UJ	<0.0993 UJ	<0.174 UJ	<0.120 UJ	<0.125 UJ	<0.118 UJ	<0.195 UJ	<4.06 UJ	<0.101 UJ
U4-MW-12I	5/17/2023	N	EM09	UMCf	76.8 - 86.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-12I	6/16/2023	N	EM10	UMCf	76.8 - 86.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-12I	7/11/2023	N	EM11	UMCf	76.8 - 86.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-12I	8/14/2023	N	EM12	UMCf	76.8 - 86.8	<1.00	<0.157	<0.0993	<0.174 UJ	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-12I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-12I	10/17/2023	N	EM14	UMCf	76.8 - 86.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-12I	11/16/2023	N	EM15	UMCf	76.8 - 86.8	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-12I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-12I	1/24/2024	N	EM17	UMCf	76.8 - 86.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-12I	2/13/2024	N	EM18	UMCf	76.8 - 86.8	<20.0 UJ	<3.14	<1.99	<3.48	<2.40	<2.50	<2.36	<3.90	<81.2	<2.02
U4-MW-12I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	<20.0	<3.14	<1.99	<3.48	<2.40	<2.50	<2.36	<3.90	<81.2	<2.02
U4-MW-12I	6/13/2024	N	EM20	UMCf	76.8 - 86.8	4.15 J-	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118 R	<0.195	<4.06	<0.101
U4-MW-13D	4/14/2022	N	BL02	UMCf	98.2 - 108.2	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	7.16	<0.101
U4-MW-13D	9/28/2022	N	EM01	UMCf	98.2 - 108.2	<10.0	<1.57	<0.993	<1.74	<1.20	<1.25	<1.18	<1.95	<40.6	<1.01
U4-MW-13D	10/11/2022	N	EM02	UMCf	98.2 - 108.2	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-13D	11/3/2022	N	EM03	UMCf	98.2 - 108.2	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-13D	12/7/2022	N	EM04	UMCf	98.2 - 108.2	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-13D	1/12/2023	N	EM05	UMCf	98.2 - 108.2	<20.0	<3.14	<1.99	<3.48	<2.40	<2.50	<2.36	<3.90	<81.2	<2.02

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
						Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p-Cymene (p-Isopropyltoluene)	sec-Butylbenzene	Styrene	tert-Amyl Methyl Ether	tert-Butyl Alcohol	tert-Butyl Methyl Ether (MTBE)
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-13D	2/15/2023	N	EM06	UMCf	98.2 - 108.2	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195 UJ	<4.06	<0.101
U4-MW-13D	3/17/2023	N	EM07	UMCf	98.2 - 108.2	<20.0 UJ	<3.14	<1.99	<3.48	<2.40	<2.50	<2.36	<3.90	<81.2	<2.02
U4-MW-13D	4/18/2023	N	EM08	UMCf	98.2 - 108.2	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-13D	5/17/2023	N	EM09	UMCf	98.2 - 108.2	<20.0	<3.14	<1.99	<3.48	<2.40	<2.50	<2.36	<3.90	<81.2	<2.02
U4-MW-13D	6/15/2023	N	EM10	UMCf	98.2 - 108.2	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-13D	7/12/2023	N	EM11	UMCf	98.2 - 108.2	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-13D	8/11/2023	N	EM12	UMCf	98.2 - 108.2	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-13D	9/11/2023	N	EM13	UMCf	98.2 - 108.2	<25.0	<3.93	<2.48	<4.35	<3.00	<3.13	<2.95	<4.88	<102	<2.53
U4-MW-13D	10/18/2023	N	EM14	UMCf	98.2 - 108.2	<25.0	<3.93	<2.48	<4.35	<3.00	<3.13	<2.95	<4.88	<102	<2.53
U4-MW-13D	11/15/2023	N	EM15	UMCf	98.2 - 108.2	<25.0 UJ	<3.93	<2.48	<4.35	<3.00	<3.13	<2.95	<4.88	<102	<2.53
U4-MW-13D	12/11/2023	N	EM16	UMCf	98.2 - 108.2	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-13D	1/23/2024	N	EM17	UMCf	98.2 - 108.2	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-13D	2/12/2024	N	EM18	UMCf	98.2 - 108.2	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195	<4.06	<0.101
U4-MW-13D	3/11/2024	N	EM19	UMCf	98.2 - 108.2	<20.0	<0.157	0.202 J	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-13D	6/13/2024	N	EM20	UMCf	98.2 - 108.2	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-13I	4/14/2022	N	BL02	UMCf	77.1 - 87.1	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	4.13 J	<0.101
U4-MW-13I	9/28/2022	N	EM01	UMCf	77.1 - 87.1	2.01 J	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-13I	10/10/2022	N	EM02	UMCf	77.1 - 87.1	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-13I	11/3/2022	N	EM03	UMCf	77.1 - 87.1	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-13I	12/6/2022	N	EM04	UMCf	77.1 - 87.1	<5.00 UJ	<0.785 UJ	<0.497 UJ	<0.870 UJ	<0.600 UJ	<0.625 UJ	<0.590 UJ	<0.975 UJ	<20.3 UJ	<0.505 UJ
U4-MW-13I	1/12/2023	N	EM05	UMCf	77.1 - 87.1	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-13I	2/14/2023	N	EM06	UMCf	77.1 - 87.1	<5.00	<0.785	<0.497 UJ	<0.870	<0.600	<0.625	<0.590	<0.975	<20.3	<0.505
U4-MW-13I	3/16/2023	N	EM07	UMCf	77.1 - 87.1	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-13I	4/19/2023	N	EM08	UMCf	77.1 - 87.1	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-13I	5/17/2023	N	EM09	UMCf	77.1 - 87.1	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-13I	6/15/2023	N	EM10	UMCf	77.1 - 87.1	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-13I	7/12/2023	N	EM11	UMCf	77.1 - 87.1	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-13I	8/11/2023	N	EM12	UMCf	77.1 - 87.1	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-13I	9/11/2023	N	EM13	UMCf	77.1 - 87.1	<25.0	<3.93	<2.48	<4.35	<3.00	<3.13	<2.95	<4.88	<102	<2.53
U4-MW-13I	10/17/2023	N	EM14	UMCf	77.1 - 87.1	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-13I	11/15/2023	N	EM15	UMCf	77.1 - 87.1	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-13I	12/11/2023	N	EM16	UMCf	77.1 - 87.1	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-13I	1/23/2024	N	EM17	UMCf	77.1 - 87.1	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-13I	2/12/2024	N	EM18	UMCf	77.1 - 87.1	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195	<4.06	<0.101
U4-MW-13I	3/11/2024	N	EM19	UMCf	77.1 - 87.1	<25.0	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-13I	6/13/2024	N	EM20	UMCf	77.1 - 87.1	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-14D	4/13/2022	N	BL02	UMCf	97.3 - 107.3	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-14D	12/6/2022	N	EM04	UMCf	97.3 - 107.3	<5.00 UJ	<0.785 UJ	<0.497 UJ	<0.870 UJ	<0.600 UJ	<0.625 UJ	<0.590 UJ	<0.975 UJ	<20.3 UJ	<0.505 UJ
U4-MW-14D	3/16/2023	N	EM07	UMCf	97.3 - 107.3	<5.00	<0.785	<0.497	<0.870	<0.600	<0.625	<0.590	<0.975	<20.3	<0.505
U4-MW-14D	6/15/2023	N	EM10	UMCf	97.3 - 107.3	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-14D	9/14/2023	N	EM13	UMCf	97.3 - 107.3	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-14D	12/15/2023	N	EM16	UMCf	97.3 - 107.3	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-14D	3/13/2024	N	EM19	UMCf	97.3 - 107.3	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101

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
						Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p-Cymene (p-Isopropyltoluene)	sec-Butylbenzene	Styrene	tert-Amyl Methyl Ether	tert-Butyl Alcohol	tert-Butyl Methyl Ether (MTBE)
						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	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-14I	4/14/2022	N	BL02	UMCf	77.3 - 87.3	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	6.75	<0.101
U4-MW-14I	12/6/2022	N	EM04	UMCf	77.3 - 87.3	<5.00 UJ	<0.785 UJ	<0.497 UJ	<0.870 UJ	<0.600 UJ	<0.625 UJ	<0.590 UJ	<0.975 UJ	<20.3 UJ	<0.505 UJ
U4-MW-14I	3/16/2023	N	EM07	UMCf	77.3 - 87.3	<5.00	<0.785	<0.497	<0.870	<0.600	<0.625	<0.590	<0.975	<20.3	<0.505
U4-MW-14I	6/15/2023	N	EM10	UMCf	77.3 - 87.3	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-14I	9/14/2023	N	EM13	UMCf	77.3 - 87.3	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-14I	12/14/2023	N	EM16	UMCf	77.3 - 87.3	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-14I	3/13/2024	N	EM19	UMCf	77.3 - 87.3	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-14I	6/14/2024	N	EM20	UMCf	77.3 - 87.3	<1.00	<0.157 UJ	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195	<4.06	<0.101
U4-MW-15D	4/13/2022	N	BL02	UMCf	96.0 - 106.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-15D	12/5/2022	N	EM04	UMCf	96.0 - 106.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-15D	3/20/2023	N	EM07	UMCf	96.0 - 106.0	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-15D	6/14/2023	N	EM10	UMCf	96.0 - 106.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-15D	9/13/2023	N	EM13	UMCf	96.0 - 106.0	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195	<4.06	<0.101
U4-MW-15D	12/12/2023	N	EM16	UMCf	96.0 - 106.0	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-15D	3/12/2024	N	EM19	UMCf	96.0 - 106.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-15D	6/14/2024	N	EM20	UMCf	96.0 - 106.0	<1.00	<0.157 UJ	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195	<4.06	<0.101
U4-MW-15DD	4/13/2022	N	BL02	UMCf	120.3 - 130.3	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	4.48 J	<0.101
U4-MW-15DD	12/5/2022	N	EM04	UMCf	120.3 - 130.3	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-15DD	3/15/2023	N	EM07	UMCf	120.3 - 130.3	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-15DD	6/13/2023	N	EM10	UMCf	120.3 - 130.3	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-15DD	9/14/2023	N	EM13	UMCf	120.3 - 130.3	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-15DD	12/13/2023	N	EM16	UMCf	120.3 - 130.3	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-15DD	3/12/2024	N	EM19	UMCf	120.3 - 130.3	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-15DD	6/14/2024	N	EM20	UMCf	120.3 - 130.3	<1.00	<0.157 UJ	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195	<4.06	<0.101
U4-MW-15I	4/12/2022	N	BL02	UMCf	76.8 - 86.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-15I	12/5/2022	N	EM04	UMCf	76.8 - 86.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-15I	3/17/2023	N	EM07	UMCf	76.8 - 86.8	<20.0 UJ	<3.14	<1.99	<3.48	<2.40	<2.50	<2.36	<3.90	<81.2	<2.02
U4-MW-15I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-15I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-15I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-15I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75	<203	<5.05
U4-MW-15I	6/17/2024	N	EM20	UMCf	76.8 - 86.8	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75	<203	<5.05
U4-MW-15S	4/13/2022	N	BL02	UMCf	54.8 - 64.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-15S	12/5/2022	N	EM04	UMCf	54.8 - 64.8	<25.0	<3.93	<2.48	<4.35	<3.00	<3.13	<2.95	<4.88	<102	<2.53
U4-MW-15S	3/13/2023	N	EM07	UMCf	54.8 - 64.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-15S	6/13/2023	N	EM10	UMCf	54.8 - 64.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-15S	9/14/2023	N	EM13	UMCf	54.8 - 64.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-15S	12/11/2023	N	EM16	UMCf	54.8 - 64.8	<2.00 UJ	<0.314	<0.199	<0.348	<0.240	<0.250	<0.236	<0.390	<8.12	<0.202
U4-MW-15S	3/12/2024	N	EM19	UMCf	54.8 - 64.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-15S	3/26/2024	N	EM19	UMCf	54.8 - 64.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-15S	6/14/2024	N	EM20	UMCf	54.8 - 64.8	<1.00	<0.157 UJ	<0.0993	<0.174	<0.120	<0.125	<0.118 UJ	<0.195	<4.06	<0.101
U4-MW-16D	4/11/2022	N	BL02	UMCf	96.8 - 106.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101

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
						Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p-Cymene (p-Isopropyltoluene)	sec-Butylbenzene	Styrene	tert-Amyl Methyl Ether	tert-Butyl Alcohol	tert-Butyl Methyl Ether (MTBE)
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-16D	12/5/2022	N	EM04	UMCf	96.8 - 106.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-16D	3/14/2023	N	EM07	UMCf	96.8 - 106.8	<20.0	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-16D	6/13/2023	N	EM10	UMCf	96.8 - 106.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-16D	9/15/2023	N	EM13	UMCf	96.8 - 106.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-16D	12/14/2023	N	EM16	UMCf	96.8 - 106.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-16D	3/14/2024	N	EM19	UMCf	96.8 - 106.8	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75	<203	<5.05
U4-MW-16D	6/17/2024	N	EM20	UMCf	96.8 - 106.8	<50.0	<7.85	<4.97	<8.70	<6.00	<6.25	<5.90	<9.75	<203	<5.05
U4-MW-16DD	4/12/2022	N	BL02	UMCf	120.8 - 130.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-16DD	12/5/2022	N	EM04	UMCf	120.8 - 130.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-16DD	3/15/2023	N	EM07	UMCf	120.8 - 130.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-16DD	6/13/2023	N	EM10	UMCf	120.8 - 130.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-16DD	9/14/2023	N	EM13	UMCf	120.8 - 130.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-16DD	12/13/2023	N	EM16	UMCf	120.8 - 130.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-16DD	3/14/2024	N	EM19	UMCf	120.8 - 130.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-16DD	6/17/2024	N	EM20	UMCf	120.8 - 130.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-16I	4/11/2022	N	BL02	UMCf	77.0 - 87.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-16I	12/5/2022	N	EM04	UMCf	77.0 - 87.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-16I	12/5/2022	FD	EM04	UMCf	77.0 - 87.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-16I	3/13/2023	N	EM07	UMCf	77.0 - 87.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-16I	3/13/2023	FD	EM07	UMCf	77.0 - 87.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-16I	6/12/2023	N	EM10	UMCf	77.0 - 87.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	6.66 J+	<0.101
U4-MW-16I	6/12/2023	FD	EM10	UMCf	77.0 - 87.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	4.56 J	<0.101
U4-MW-16I	9/11/2023	N	EM13	UMCf	77.0 - 87.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-16I	9/11/2023	FD	EM13	UMCf	77.0 - 87.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-16I	12/11/2023	N	EM16	UMCf	77.0 - 87.0	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-16I	12/11/2023	FD	EM16	UMCf	77.0 - 87.0	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-16I	3/11/2024	N	EM19	UMCf	77.0 - 87.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-16I	3/11/2024	FD	EM19	UMCf	77.0 - 87.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-16I	6/18/2024	N	EM20	UMCf	77.0 - 87.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-16I	6/18/2024	FD	EM20	UMCf	77.0 - 87.0	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-16S	4/12/2022	N	BL02	UMCf	54.8 - 64.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-16S	4/12/2022	FD	BL02	UMCf	54.8 - 64.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-16S	12/6/2022	N	EM04	UMCf	54.8 - 64.8	<1.00 UJ	<0.157 UJ	<0.0993 UJ	<0.174 UJ	<0.120 UJ	<0.125 UJ	<0.118 UJ	<0.195 UJ	<4.06 UJ	<0.101 UJ
U4-MW-16S	3/15/2023	N	EM07	UMCf	54.8 - 64.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-16S	6/13/2023	N	EM10	UMCf	54.8 - 64.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-16S	9/11/2023	N	EM13	UMCf	54.8 - 64.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-16S	12/11/2023	N	EM16	UMCf	54.8 - 64.8	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-16S	3/11/2024	N	EM19	UMCf	54.8 - 64.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-MW-16S	6/17/2024	N	EM20	UMCf	54.8 - 64.8	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-SLMW	11/10/2022	N	EM03		-	<5.00	<0.785	<0.497	<0.870	<0.600	<0.625	<0.590	<0.975	<20.3	<0.505
U4-T3	10/13/2022	N	EM02		-	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	35.0 J+	<0.101
U4-T3	11/3/2022	N	EM03		-	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-T3	12/6/2022	N	EM04		-	<20.0 UJ	<3.14 UJ	<1.99 UJ	<3.48 UJ	<2.40 UJ	<2.50 UJ	<2.36 UJ	<3.90 UJ	<81.2 UJ	<2.02 UJ

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
						Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p-Cymene (p-Isopropyltoluene)	sec-Butylbenzene	Styrene	tert-Amyl Methyl Ether	tert-Butyl Alcohol	tert-Butyl Methyl Ether (MTBE)
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-T3	1/9/2023	N	EM05		-	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-T3	2/13/2023	N	EM06		-	<100	<15.7	<9.93	<17.4	<12.0	<12.5	<11.8	<19.5	<406	<10.1
U4-T3	3/13/2023	N	EM07		-	<25.0	<3.93	<2.48	<4.35	<3.00	<3.13	<2.95	<4.88	<102	<2.53
U4-T3	4/19/2023	N	EM08		-	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-T3	5/18/2023	N	EM09		-	<1.00 UJ	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-T3	6/12/2023	N	EM10		-	<50.0	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	7.68 J+	<0.101
U4-T3	7/11/2023	N	EM11		-	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-T3	8/10/2023	N	EM12		-	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-T3	9/11/2023	N	EM13		-	<1.00	<0.157	<0.0993	<0.174	<0.120	<0.125	<0.118	<0.195	<4.06	<0.101
U4-T3	10/16/2023	N	EM14		-	<25.0	<3.93	<2.48	<4.35	<3.00	<3.13	<2.95	<4.88	<102	<2.53

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 sample quantitation limit.
- 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.

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 Fatty Acids by AM20GAX/AM23G
						tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride	Xylenes, Total	3-Methylbutanoic Acid
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/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	<0.127	<0.300	<0.278	<0.149	<0.118	0.907 J	<0.160	<0.234	<0.174	----
M-251-100	10/13/2022	N	EM02	UMCf	92.5 - 102.5	<0.127	<0.300	<0.278	<0.149	<0.118	0.557 J	<0.160	<0.234	<0.174	----
M-251-100	11/2/2022	N	EM03	UMCf	92.5 - 102.5	<1.27	<3.00	<2.78	<1.49	<1.18	<1.90	<1.60	<2.34	<1.74	----
M-251-100	12/8/2022	N	EM04	UMCf	92.5 - 102.5	<0.127	<0.300	<0.278	<0.149	<0.118	0.528 J	<0.160	<0.234	<0.174	----
M-251-100	1/11/2023	N	EM05	UMCf	92.5 - 102.5	<0.127	<0.300	<0.278	<0.149	<0.118	0.462 J	<0.160	<0.234	<0.174	----
M-251-100	2/13/2023	N	EM06	UMCf	92.5 - 102.5	<0.127	<0.300	<0.278	<0.149	<0.118	0.241 J	<0.160	<0.234	<0.174	----
M-251-100	3/17/2023	N	EM07	UMCf	92.5 - 102.5	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7	<8.70	<6.1 UJ
M-251-100	4/21/2023	N	EM08	UMCf	92.5 - 102.5	<0.127	<0.300	<0.278	<0.149	<0.118	0.351 J	<0.160	<0.234	<0.174	----
M-251-100	5/9/2023	N	EM09	UMCf	92.5 - 102.5	<0.127	<0.300	<0.278	<0.149	<0.118	0.356 J	<0.160	<0.234	<0.174	----
M-251-100	6/14/2023	N	EM10	UMCf	92.5 - 102.5	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7	<8.70	----
M-251-100	7/14/2023	N	EM11	UMCf	92.5 - 102.5	<0.127	<0.300	<0.278	<0.149	<0.118	0.526 J	<0.160 UJ	<0.234	<0.174	----
M-251-100	8/10/2023	N	EM12	UMCf	92.5 - 102.5	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
M-251-100	9/14/2023	N	EM13	UMCf	92.5 - 102.5	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	<30.4
M-251-100	10/19/2023	N	EM14	UMCf	92.5 - 102.5	<0.127	<0.300	<0.278	<0.149	<0.118	0.382 J	<0.160	<0.234	<0.174	----
M-251-100	11/16/2023	N	EM15	UMCf	92.5 - 102.5	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7	<8.70	----
M-251-100	12/12/2023	N	EM16	UMCf	92.5 - 102.5	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	<0.061
M-251-100	1/25/2024	N	EM17	UMCf	92.5 - 102.5	<0.127	<0.300	<0.278	<0.149	<0.118	0.385 J	<0.160	<0.234	<0.174	----
M-251-100	2/13/2024	N	EM18	UMCf	92.5 - 102.5	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7	<8.70	----
M-251-100	3/11/2024	N	EM19	UMCf	92.5 - 102.5	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7	<8.70	<0.12
M-251-100	6/17/2024	N	EM20	UMCf	92.5 - 102.5	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7	<8.70	6.8 J
M-251-60	4/18/2022	N	BL02	UMCf	52.3 - 62.3	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
M-251-60	3/15/2023	N	EM07	UMCf	52.3 - 62.3	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
M-251-60	6/14/2023	N	EM10	UMCf	52.3 - 62.3	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
M-251-60	9/14/2023	N	EM13	UMCf	52.3 - 62.3	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
M-251-60	12/11/2023	N	EM16	UMCf	52.3 - 62.3	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
M-251-60	3/12/2024	N	EM19	UMCf	52.3 - 62.3	<0.127	<0.300	0.538 J	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
M-251-60	6/19/2024	N	EM20	UMCf	52.3 - 62.3	<0.127	<0.300	1.25	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
M-252	4/21/2022	N	BL02	UMCf	132.3 - 142.3	<0.127	<0.300	0.292 J	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
M-252	3/15/2023	N	EM07	UMCf	132.3 - 142.3	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
M-252	9/19/2023	N	EM13	UMCf	132.3 - 142.3	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
M-252	12/18/2023	N	EM16	UMCf	132.3 - 142.3	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
M-252	3/12/2024	N	EM19	UMCf	132.3 - 142.3	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
M-252	6/19/2024	N	EM20	UMCf	132.3 - 142.3	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<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	<0.635	<1.50	<1.39	<0.745	<0.590	<0.950	<0.800	<1.17	<0.870	----
U4-E-01D	3/14/2023	N	EM07	UMCf	94.7 - 109.7	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-E-01D	6/20/2024	N	EM20	UMCf	94.7 - 109.7	<1.27	<3.00	62.2	<1.49	<1.18	<1.90	<1.60	<2.34	<1.74	----
U4-E-01I	4/19/2022	N	BL02	UMCf	74.6 - 89.6	<0.127	<0.300	0.471 J	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-E-01I	4/19/2022	FD	BL02	UMCf	74.6 - 89.6	<0.127	<0.300	0.330 J	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-E-01I	3/14/2023	N	EM07	UMCf	74.6 - 89.6	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<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 Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Fatty Acids by AM20GAX/AM23G
						tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride	Xylenes, Total	3-Methylbutanoic Acid
						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	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-E-01I	5/10/2023	N	EM09	UMCf	74.6 - 89.6	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-E-01I	6/12/2023	N	EM10	UMCf	74.6 - 89.6	<0.127	<0.300	<0.278	<0.149	<0.118	0.307 J	<0.160	<0.234	<0.174	----
U4-E-01I	7/11/2023	N	EM11	UMCf	74.6 - 89.6	<0.635	10.1	<1.39	<0.745	<0.590	<0.950	<0.800	<1.17	<0.870	----
U4-E-01I	8/10/2023	N	EM12	UMCf	74.6 - 89.6	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-E-01I	9/11/2023	N	EM13	UMCf	74.6 - 89.6	<0.635	<1.50	<1.39	<0.745	<0.590	<0.950	<0.800	<1.17	<0.870	----
U4-E-01I	10/16/2023	N	EM14	UMCf	74.6 - 89.6	<0.127	<0.300	0.910 J	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-E-01I	12/13/2023	N	EM16	UMCf	74.6 - 89.6	<1.27	<3.00	<2.78	<1.49	<1.18	<1.90	<1.60	<2.34	<1.74	----
U4-E-01I	1/24/2024	N	EM17	UMCf	74.6 - 89.6	<2.54	<6.00	<5.56	<2.98	<2.36	<3.80	<3.20	<4.68	<3.48	----
U4-E-01I	2/14/2024	N	EM18	UMCf	74.6 - 89.6	<1.27	<3.00	<2.78	<1.49	<1.18	<1.90	<1.60	<2.34	<1.74	----
U4-E-01I	3/12/2024	N	EM19	UMCf	74.6 - 89.6	<1.27	<3.00	<2.78	<1.49	<1.18	<1.90	<1.60	<2.34	<1.74	----
U4-E-01I	6/20/2024	N	EM20	UMCf	74.6 - 89.6	<1.27	<3.00	4.19 J	<1.49	<1.18	<1.90	<1.60	<2.34	<1.74	----
U4-E-02D	4/20/2022	N	BL02	UMCf	94.4 - 109.4	<0.127	<0.300	0.644 J	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-E-02D	3/14/2023	N	EM07	UMCf	94.4 - 109.4	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-E-02D	6/19/2024	N	EM20	UMCf	94.4 - 109.4	<1.27	<3.00	<2.78	<1.49	<1.18	<1.90	<1.60	<2.34	<1.74	----
U4-E-02I	4/18/2022	N	BL02	UMCf	74.4 - 89.4	<0.127	<0.300	<0.278	<0.149	<0.118	0.260 J	<0.160	<0.234	<0.174	----
U4-E-02I	3/14/2023	N	EM07	UMCf	74.4 - 89.4	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-E-02I	4/20/2023	N	EM08	UMCf	74.4 - 89.4	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-E-02I	5/11/2023	N	EM09	UMCf	74.4 - 89.4	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-E-02I	6/12/2023	N	EM10	UMCf	74.4 - 89.4	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-E-02I	7/11/2023	N	EM11	UMCf	74.4 - 89.4	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-E-02I	8/10/2023	N	EM12	UMCf	74.4 - 89.4	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-E-02I	9/11/2023	N	EM13	UMCf	74.4 - 89.4	<0.127	<0.300	2.67	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-E-02I	10/16/2023	N	EM14	UMCf	74.4 - 89.4	<1.27	<3.00	6.65 J	<1.49	<1.18	<1.90	<1.60	<2.34	<1.74	----
U4-E-02I	12/14/2023	N	EM16	UMCf	74.4 - 89.4	<1.27	4.11 J	<2.78	<1.49	<1.18	<1.90	<1.60	<2.34	<1.74	----
U4-E-02I	1/22/2024	N	EM17	UMCf	74.4 - 89.4	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-E-02I	2/13/2024	N	EM18	UMCf	74.4 - 89.4	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-E-02I	3/13/2024	N	EM19	UMCf	74.4 - 89.4	<3.18	<7.50	<6.95	<3.73	<2.95	<4.75	<4.00	<5.85	<4.35	----
U4-E-02I	6/19/2024	N	EM20	UMCf	74.4 - 89.4	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4	<17.4	----
U4-E-03D	4/19/2022	N	BL02	UMCf	95.1 - 110.1	<0.127	<0.300	0.333 J	<0.149	<0.118	0.609 J	<0.160	<0.234	<0.174	----
U4-E-03D	10/13/2022	N	EM02	UMCf	95.1 - 110.1	<25.4	<60.0	<55.6	<29.8	<23.6	<38.0	<32.0	<46.8	<34.8	----
U4-E-03D	11/3/2022	N	EM03	UMCf	95.1 - 110.1	<0.127	0.494 J	<0.278	<0.149	<0.118	0.753 J	<0.160	<0.234	<0.174	----
U4-E-03D	12/6/2022	N	EM04	UMCf	95.1 - 110.1	<2.54 UJ	<6.00 UJ	<5.56 UJ	<2.98 UJ	<2.36 UJ	<3.80 UJ	<3.20 UJ	<4.68 UJ	<3.48 UJ	----
U4-E-03D	1/9/2023	N	EM05	UMCf	95.1 - 110.1	<0.127	0.342 J	<0.278	<0.149	<0.118	0.602 J	<0.160	<0.234	<0.174	----
U4-E-03D	2/13/2023	N	EM06	UMCf	95.1 - 110.1	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4	<17.4	----
U4-E-03D	3/13/2023	N	EM07	UMCf	95.1 - 110.1	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4	<17.4	----
U4-E-03D	3/14/2023	N	EM07	UMCf	95.1 - 110.1	<25.4	<60.0	<55.6	<29.8	<23.6	<38.0	<32.0	<46.8	<34.8	----
U4-E-03D	4/19/2023	N	EM08	UMCf	95.1 - 110.1	<0.635	<1.50	<1.39	<0.745	<0.590	<0.950	<0.800	<1.17	<0.870	----
U4-E-03D	5/11/2023	N	EM09	UMCf	95.1 - 110.1	<0.127	<0.300	<0.278	<0.149	<0.118	0.384 J	<0.160	<0.234	<0.174	----
U4-E-03D	6/12/2023	N	EM10	UMCf	95.1 - 110.1	<0.127	0.379 J	<0.278	<0.149	<0.118	0.638 J	<0.160	<0.234	<0.174	----
U4-E-03D	7/11/2023	N	EM11	UMCf	95.1 - 110.1	<0.127	<0.300	<0.278	<0.149	<0.118	0.607 J	<0.160	<0.234	<0.174	----
U4-E-03D	8/10/2023	N	EM12	UMCf	95.1 - 110.1	<0.127	<0.300	<0.278	<0.149	<0.118	0.252 J	<0.160	<0.234	<0.174	----
U4-E-03D	9/11/2023	N	EM13	UMCf	95.1 - 110.1	<0.127	0.471 J	2.08	<0.149	<0.118	0.623 J	<0.160	<0.234	<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 Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Fatty Acids by AM20GAX/AM23G
						tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride	Xylenes, Total	3-Methylbutanoic Acid
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-E-03D	10/16/2023	N	EM14	UMCf	95.1 - 110.1	<25.4	<60.0	<55.6	<29.8	<23.6	<38.0	<32.0	<46.8	<34.8	----
U4-E-03D	6/10/2024	N	EM20	UMCf	95.1 - 110.1	<2.54	<6.00	14.0 J	<2.98	<2.36	<3.80	<3.20	<4.68	<3.48	----
U4-E-03D	6/10/2024	FD	EM20	UMCf	95.1 - 110.1	<2.54	<6.00	13.8 J	<2.98	<2.36	<3.80	<3.20	<4.68	<3.48	----
U4-E-04D	4/19/2022	N	BL02	UMCf	95.0 - 110.0	<0.127	<0.300	0.341 J	<0.149	<0.118	0.460 J	<0.160	<0.234	<0.174	----
U4-E-04D	3/14/2023	N	EM07	UMCf	95.0 - 110.0	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-E-04D	6/20/2024	N	EM20	UMCf	95.0 - 110.0	<1.27	<3.00	60.9	<1.49	<1.18	<1.90	<1.60	<2.34	<1.74	----
U4-E-04I	4/18/2022	N	BL02	UMCf	75.0 - 90.0	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-E-04I	3/14/2023	N	EM07	UMCf	75.0 - 90.0	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7	<8.70	----
U4-E-04I	6/20/2024	N	EM20	UMCf	75.0 - 90.0	<1.27	<3.00	70.6	<1.49	<1.18	<1.90	<1.60	<2.34	<1.74	----
U4-E-05D	4/19/2022	N	BL02	UMCf	95.0 - 110.0	<0.127	<0.300	0.513 J	<0.149	<0.118	0.429 J	<0.160	<0.234	<0.174	----
U4-E-05D	3/16/2023	N	EM07	UMCf	95.0 - 110.0	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-E-05D	6/10/2024	N	EM20	UMCf	95.0 - 110.0	<2.54	<6.00	76.7	<2.98	<2.36	<3.80	<3.20	<4.68	<3.48	----
U4-E-05I	4/19/2022	N	BL02	UMCf	75.0 - 90.0	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-E-05I	3/15/2023	N	EM07	UMCf	75.0 - 90.0	<0.127 UJ	<0.300 UJ	<0.278 UJ	<0.149 UJ	<0.118 UJ	<0.190 UJ	<0.160 UJ	<0.234 UJ	<0.174 UJ	----
U4-E-05I	6/19/2024	N	EM20	UMCf	75.0 - 90.0	<6.35	<15.0	803	<7.45	<5.90	<9.50	<8.00	<11.7	<8.70	----
U4-E-06D	4/11/2022	N	BL02	UMCf	95.1 - 110.1	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-E-06D	6/20/2024	N	EM20	UMCf	95.1 - 110.1	<1.27	<3.00	197	<1.49	<1.18	<1.90	<1.60	<2.34	<1.74	----
U4-E-06I	4/11/2022	N	BL02	UMCf	73.2 - 88.2	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-E-06I	4/11/2022	FD	BL02	UMCf	73.2 - 88.2	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-E-06I	10/12/2022	N	EM02	UMCf	73.2 - 88.2	<0.127	0.450 J	<0.278	<0.149	<0.118	0.514 J	<0.160	<0.234	<0.174	----
U4-E-06I	11/3/2022	N	EM03	UMCf	73.2 - 88.2	<0.127	0.389 J	<0.278	<0.149	<0.118	0.394 J	<0.160	<0.234	<0.174	----
U4-E-06I	12/6/2022	N	EM04	UMCf	73.2 - 88.2	<1.27 UJ	<3.00 UJ	<2.78 UJ	<1.49 UJ	<1.18 UJ	<1.90 UJ	<1.60 UJ	<2.34 UJ	<1.74 UJ	----
U4-E-06I	1/9/2023	N	EM05	UMCf	73.2 - 88.2	<0.127	0.300 J	<0.278	<0.149	<0.118	0.429 J	<0.160	<0.234	<0.174	----
U4-E-06I	2/13/2023	N	EM06	UMCf	73.2 - 88.2	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4	<17.4	----
U4-E-06I	3/13/2023	N	EM07	UMCf	73.2 - 88.2	<2.54	<6.00	<5.56	<2.98	<2.36	<3.80	<3.20	<4.68	<3.48	----
U4-E-06I	4/17/2023	N	EM08	UMCf	73.2 - 88.2	<2.54	<6.00	<5.56	<2.98	<2.36	<3.80	<3.20	<4.68	<3.48	----
U4-E-06I	5/15/2023	N	EM09	UMCf	73.2 - 88.2	<3.18	<7.50	<6.95	<3.73	<2.95	<4.75	<4.00	<5.85	<4.35	----
U4-E-06I	6/12/2023	N	EM10	UMCf	73.2 - 88.2	<0.127	<0.300	<0.278	<0.149	<0.118	0.629 J	<0.160	<0.234	<0.174	----
U4-E-06I	7/11/2023	N	EM11	UMCf	73.2 - 88.2	<0.127	<0.300	<0.278	<0.149	<0.118	0.512 J	<0.160	<0.234	<0.174	----
U4-E-06I	8/11/2023	N	EM12	UMCf	73.2 - 88.2	<0.635	<1.50	<1.39	<0.745	<0.590	<0.950	<0.800	<1.17	<0.870	----
U4-E-06I	9/11/2023	N	EM13	UMCf	73.2 - 88.2	<0.127	<0.300	0.863 J	<0.149	<0.118	0.263 J	<0.160	<0.234	<0.174	----
U4-E-06I	10/16/2023	N	EM14	UMCf	73.2 - 88.2	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7	<8.70	----
U4-E-06I	12/13/2023	N	EM16	UMCf	73.2 - 88.2	<0.127	<0.300	10.4	<0.149	<0.118	0.193 J	<0.160	<0.234	<0.174	----
U4-E-06I	1/22/2024	N	EM17	UMCf	73.2 - 88.2	<0.127	<0.300	25.6	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-E-06I	2/13/2024	N	EM18	UMCf	73.2 - 88.2	<6.35	<15.0	19.8 J	<7.45	<5.90	<9.50	<8.00	<11.7	<8.70	----
U4-E-06I	3/11/2024	N	EM19	UMCf	73.2 - 88.2	<6.35	<15.0	14.5 J	<7.45	<5.90	<9.50	<8.00	<11.7	<8.70	----
U4-E-06I	6/11/2024	N	EM20	UMCf	73.2 - 88.2	<0.127	<0.300	9.64	<0.149	<0.118	0.266 J	<0.160	<0.234	<0.174	----
U4-E-07D	4/12/2022	N	BL02	UMCf	94.6 - 109.6	<0.127	<0.300	3.53	<0.149	<0.118	0.745 J	<0.160	<0.234	<0.174	----
U4-E-07D	6/20/2024	N	EM20	UMCf	94.6 - 109.6	<1.27	<3.00	8.37 J	<1.49	<1.18	<1.90	<1.60	<2.34	<1.74	----
U4-E-07I	4/12/2022	N	BL02	UMCf	74.7 - 89.7	<0.127	<0.300	<0.278	<0.149	<0.118	0.259 J	<0.160	<0.234	<0.174	----
U4-E-07I	10/11/2022	N	EM02	UMCf	74.7 - 89.7	<1.27	<3.00	<2.78	<1.49	<1.18	<1.90	<1.60	<2.34	<1.74	----
U4-E-07I	11/3/2022	N	EM03	UMCf	74.7 - 89.7	<0.127	0.397 J	<0.278	<0.149	<0.118	0.652 J	<0.160	<0.234	<0.174	----
U4-E-07I	12/6/2022	N	EM04	UMCf	74.7 - 89.7	<3.18 UJ	<7.50 UJ	<6.95 UJ	<3.73 UJ	<2.95 UJ	<4.75 UJ	<4.00 UJ	<5.85 UJ	<4.35 UJ	----

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 Fatty Acids by AM20GAX/AM23G
						tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride	Xylenes, Total	3-Methylbutanoic Acid
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-E-07I	1/9/2023	N	EM05	UMCf	74.7 - 89.7	<0.127	0.370 J	<0.278	<0.149	<0.118	0.819 J	<0.160	<0.234	<0.174	----
U4-E-07I	2/13/2023	N	EM06	UMCf	74.7 - 89.7	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4	<17.4	----
U4-E-07I	3/13/2023	N	EM07	UMCf	74.7 - 89.7	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4	<17.4	----
U4-E-07I	4/19/2023	N	EM08	UMCf	74.7 - 89.7	<0.635	<1.50	<1.39	<0.745	<0.590	<0.950	<0.800	<1.17	<0.870	----
U4-E-07I	5/15/2023	N	EM09	UMCf	74.7 - 89.7	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4	<17.4	----
U4-E-07I	6/12/2023	N	EM10	UMCf	74.7 - 89.7	<0.127	0.394 J	<0.278	<0.149	<0.118	0.666 J	<0.160	<0.234	<0.174	----
U4-E-07I	7/11/2023	N	EM11	UMCf	74.7 - 89.7	<0.127	0.307 J	<0.278	<0.149	<0.118	0.512 J	<0.160	<0.234	<0.174	----
U4-E-07I	8/11/2023	N	EM12	UMCf	74.7 - 89.7	<0.635	<1.50	<1.39	<0.745	<0.590	<0.950	<0.800	<1.17	<0.870	----
U4-E-07I	9/11/2023	N	EM13	UMCf	74.7 - 89.7	<0.127	0.479 J	<0.278	<0.149	<0.118	0.614 J	<0.160	<0.234	<0.174	----
U4-E-07I	10/16/2023	N	EM14	UMCf	74.7 - 89.7	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4	<17.4	----
U4-E-07I	12/13/2023	N	EM16	UMCf	74.7 - 89.7	<0.127	0.448 J	<0.278	<0.149	<0.118	0.837 J	<0.160	<0.234	<0.174	----
U4-E-07I	1/23/2024	N	EM17	UMCf	74.7 - 89.7	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-E-07I	2/13/2024	N	EM18	UMCf	74.7 - 89.7	<25.4	<60.0	<55.6	<29.8	<23.6	<38.0	<32.0	<46.8	<34.8	----
U4-E-07I	3/11/2024	N	EM19	UMCf	74.7 - 89.7	<25.4	<60.0	<55.6	<29.8	<23.6	<38.0	<32.0	<46.8	<34.8	----
U4-E-07I	6/11/2024	N	EM20	UMCf	74.7 - 89.7	<0.127	0.370 J	<0.278	<0.149	<0.118	0.784 J	<0.160	<0.234	<0.174	----
U4-E-08D	4/12/2022	N	BL02	UMCf	94.6 - 109.6	<0.127	<0.300	1.49	<0.149	<0.118	0.807 J	<0.160	<0.234	<0.174	----
U4-E-08D	10/11/2022	N	EM02	UMCf	94.6 - 109.6	<1.27	<3.00	<2.78	<1.49	<1.18	<1.90	<1.60	<2.34	<1.74	----
U4-E-08D	11/3/2022	N	EM03	UMCf	94.6 - 109.6	<0.127	0.399 J	<0.278	<0.149	<0.118	1.13	<0.160	<0.234	<0.174	----
U4-E-08D	12/6/2022	N	EM04	UMCf	94.6 - 109.6	<3.18 UJ	<7.50 UJ	<6.95 UJ	<3.73 UJ	<2.95 UJ	<4.75 UJ	<4.00 UJ	<5.85 UJ	<4.35 UJ	----
U4-E-08D	1/9/2023	N	EM05	UMCf	94.6 - 109.6	<0.127	<0.300	<0.278	<0.149	<0.118	0.706 J	<0.160	<0.234	<0.174	----
U4-E-08D	2/13/2023	N	EM06	UMCf	94.6 - 109.6	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4	<17.4	----
U4-E-08D	3/13/2023	N	EM07	UMCf	94.6 - 109.6	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4	<17.4	----
U4-E-08D	4/19/2023	N	EM08	UMCf	94.6 - 109.6	<0.635	<1.50	<1.39	<0.745	<0.590	<0.950	<0.800	<1.17	<0.870	----
U4-E-08D	5/17/2023	N	EM09	UMCf	94.6 - 109.6	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4	<17.4	----
U4-E-08D	6/12/2023	N	EM10	UMCf	94.6 - 109.6	<0.127	<0.300	<0.278	<0.149	<0.118	0.522 J	<0.160	<0.234	<0.174	----
U4-E-08D	7/11/2023	N	EM11	UMCf	94.6 - 109.6	<0.127	<0.300	<0.278	<0.149	<0.118	0.575 J	<0.160	<0.234	<0.174	----
U4-E-09D	4/15/2022	N	BL02	UMCf	94.5 - 109.5	<0.127	<0.300	0.672 J	<0.149	<0.118	0.211 J	<0.160	<0.234	<0.174	----
U4-E-09D	6/10/2024	N	EM20	UMCf	94.5 - 109.5	<2.54	<6.00	<5.56	<2.98	<2.36	<3.80	<3.20	<4.68	<3.48	----
U4-E-09I	4/14/2022	N	BL02	UMCf	74.9 - 89.9	<0.127	<0.300	0.454 J	<0.149	<0.118	0.223 J	<0.160	<0.234	0.220 J	----
U4-E-09I	6/10/2024	N	EM20	UMCf	74.9 - 89.9	<2.54	<6.00	<5.56	<2.98	<2.36	<3.80	<3.20	<4.68	<3.48	----
U4-E-09I	6/10/2024	FD	EM20	UMCf	74.9 - 89.9	<2.54	<6.00	<5.56	<2.98	<2.36	<3.80	<3.20	<4.68	<3.48	----
U4-E-10D	4/13/2022	N	BL02	UMCf	94.5 - 109.5	<0.127	<0.300	<0.278	<0.149	<0.118	0.235 J	<0.160	<0.234	<0.174	----
U4-E-10D	6/19/2024	N	EM20	UMCf	94.5 - 109.5	<1.27	<3.00	<2.78	<1.49	<1.18	<1.90	<1.60	<2.34	<1.74	----
U4-E-10I	4/13/2022	N	BL02	UMCf	74.2 - 89.2	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-E-10I	6/11/2024	N	EM20	UMCf	74.2 - 89.2	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4	<17.4	----
U4-MW-01D	4/19/2022	N	BL02	UMCf	96.7 - 106.7	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-01D	2/16/2023	N	EM06	UMCf	96.7 - 106.7	<1.27	<3.00	<2.78	<1.49	<1.18	<1.90	<1.60	<2.34	<1.74	----
U4-MW-01D	3/20/2023	N	EM07	UMCf	96.7 - 106.7	<0.127	<0.300	<0.278	<0.149	<0.118	0.204 J	<0.160	<0.234	<0.174	----
U4-MW-01D	6/13/2023	N	EM10	UMCf	96.7 - 106.7	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-01D	9/14/2023	N	EM13	UMCf	96.7 - 106.7	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-01D	12/14/2023	N	EM16	UMCf	96.7 - 106.7	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-01D	3/13/2024	N	EM19	UMCf	96.7 - 106.7	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-01D	6/18/2024	N	EM20	UMCf	96.7 - 106.7	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----

Table 2
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 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 Fatty Acids by AM20GAX/AM23G
						tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride	Xylenes, Total	3-Methylbutanoic Acid
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-01DD	4/19/2022	N	BL02	UMCf	119.9 - 129.9	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-01DD	4/19/2022	FD	BL02	UMCf	119.9 - 129.9	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-01DD	3/15/2023	N	EM07	UMCf	119.9 - 129.9	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-01DD	6/13/2023	N	EM10	UMCf	119.9 - 129.9	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-01DD	9/14/2023	N	EM13	UMCf	119.9 - 129.9	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-01DD	12/15/2023	N	EM16	UMCf	119.9 - 129.9	<0.635	<1.50	<1.39	<0.745	<0.590	<0.950	<0.800	<1.17	<0.870	----
U4-MW-01DD	3/12/2024	N	EM19	UMCf	119.9 - 129.9	<0.635	<1.50	<1.39	<0.745	<0.590	<0.950	<0.800	<1.17	<0.870	----
U4-MW-01DD	6/18/2024	N	EM20	UMCf	119.9 - 129.9	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-01I	4/19/2022	N	BL02	UMCf	76.7 - 86.7	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-01I	3/20/2023	N	EM07	UMCf	76.7 - 86.7	<0.127	<0.300	<0.278	<0.149	<0.118	0.192 J	<0.160	<0.234	<0.174	----
U4-MW-01I	6/12/2023	N	EM10	UMCf	76.7 - 86.7	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-01I	9/14/2023	N	EM13	UMCf	76.7 - 86.7	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-01I	12/15/2023	N	EM16	UMCf	76.7 - 86.7	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7	<8.70	----
U4-MW-01I	3/13/2024	N	EM19	UMCf	76.7 - 86.7	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-01I	6/18/2024	N	EM20	UMCf	76.7 - 86.7	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-01S	4/18/2022	N	BL02	UMCf	54.7 - 64.7	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-01S	3/15/2023	N	EM07	UMCf	54.7 - 64.7	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-01S	6/13/2023	N	EM10	UMCf	54.7 - 64.7	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-01S	9/15/2023	N	EM13	UMCf	54.7 - 64.7	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-01S	12/13/2023	N	EM16	UMCf	54.7 - 64.7	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-01S	3/13/2024	N	EM19	UMCf	54.7 - 64.7	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-01S	6/18/2024	N	EM20	UMCf	54.7 - 64.7	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-02D	4/14/2022	N	BL02	UMCf	95.0 - 110.0	<0.127	<0.300	<0.278	<0.149	<0.118	0.883 J	<0.160	<0.234	<0.174	----
U4-MW-02D	10/11/2022	N	EM02	UMCf	95.0 - 110.0	<0.127	0.459 J	<0.278	<0.149	<0.118	1.23	<0.160	<0.234	<0.174	----
U4-MW-02D	11/1/2022	N	EM03	UMCf	95.0 - 110.0	<6.35	<15.0	<13.9	<7.45	<5.90	<95.0	<8.00	<11.7	<8.70	----
U4-MW-02D	12/7/2022	N	EM04	UMCf	95.0 - 110.0	<0.127	<0.300	<0.278	<0.149	<0.118	1.28	<0.160	<0.234	<0.174	----
U4-MW-02D	1/10/2023	N	EM05	UMCf	95.0 - 110.0	<0.127	<0.300	<0.278	<0.149	<0.118	1.07	<0.160	<0.234	<0.174	----
U4-MW-02D	2/13/2023	N	EM06	UMCf	95.0 - 110.0	<0.127	0.320 J	<0.278	<0.149	<0.118	1.30	<0.160	<0.234	<0.174	----
U4-MW-02D	3/17/2023	N	EM07	UMCf	95.0 - 110.0	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4	<17.4	<12 UJ
U4-MW-02D	4/19/2023	N	EM08	UMCf	95.0 - 110.0	<0.635	<1.50	<1.39	<0.745	<0.590	<0.950	<0.800	<1.17	<0.870	----
U4-MW-02D	5/9/2023	N	EM09	UMCf	95.0 - 110.0	<0.635	<1.50	<1.39	<0.745	<0.590	1.21 J	<0.800	<1.17	<0.870	----
U4-MW-02D	6/13/2023	N	EM10	UMCf	95.0 - 110.0	<0.127	<0.300	<0.278	<0.149	<0.118	0.767 J	<0.160	<0.234	<0.174	<12
U4-MW-02D	7/18/2023	N	EM11	UMCf	95.0 - 110.0	<0.127	<0.300	<0.278	<0.149	<0.118	1.02 J	<0.160	<0.234	<0.174	----
U4-MW-02D	8/14/2023	N	EM12	UMCf	95.0 - 110.0	<31.8	<75.0	<69.5	<37.3	<29.5	<47.5	<40.0	<58.5	<43.5	----
U4-MW-02D	9/11/2023	N	EM13	UMCf	95.0 - 110.0	<0.127	<0.300	<0.278	<0.149	<0.118	0.609 J	<0.160	<0.234	<0.174	<12.2
U4-MW-02D	10/19/2023	N	EM14	UMCf	95.0 - 110.0	<0.127	<0.300	<0.278	<0.149	<0.118	1.06	<0.160	<0.234	<0.174	----
U4-MW-02D	11/15/2023	N	EM15	UMCf	95.0 - 110.0	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4	<17.4	----
U4-MW-02D	12/14/2023	N	EM16	UMCf	95.0 - 110.0	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4	<17.4	<0.061
U4-MW-02D	1/25/2024	N	EM17	UMCf	95.0 - 110.0	<0.127	<0.300	<0.278	<0.149	<0.118	0.684 J	<0.160	<0.234	<0.174	----
U4-MW-02D	2/12/2024	N	EM18	UMCf	95.0 - 110.0	<0.127	<0.300	<0.278	<0.149	<0.118	0.705 J	<0.160	<0.234	<0.174	----
U4-MW-02D	3/13/2024	N	EM19	UMCf	95.0 - 110.0	<0.127	<0.300	<0.278	<0.149	<0.118	0.845 J	<0.160	<0.234	<0.174	<0.12
U4-MW-02D	6/17/2024	N	EM20	UMCf	95.0 - 110.0	<0.127	<0.300	0.293 J	<0.149	<0.118	0.778 J	<0.160	<0.234	<0.174	<0.12
U4-MW-02I	4/14/2022	N	BL02	UMCf	75.0 - 90.0	<0.127	<0.300	<0.278	<0.149	<0.118	0.222 J	<0.160	<0.234	<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 Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Fatty Acids by AM20GAX/AM23G
						tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride	Xylenes, Total	3-Methylbutanoic Acid
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-02I	10/11/2022	N	EM02	UMCf	75.0 - 90.0	<0.127	0.429 J	<0.278	<0.149	<0.118	0.414 J	<0.160	<0.234	<0.174	----
U4-MW-02I	11/2/2022	N	EM03	UMCf	75.0 - 90.0	<1.27	<3.00	<2.78	<1.49	<1.18	<1.90	<1.60	<2.34	<1.74	----
U4-MW-02I	11/2/2022	FD	EM03	UMCf	75.0 - 90.0	<1.27	<3.00	<2.78	<1.49	<1.18	<1.90	<1.60	<2.34	<1.74	----
U4-MW-02I	12/8/2022	N	EM04	UMCf	75.0 - 90.0	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-02I	12/8/2022	FD	EM04	UMCf	75.0 - 90.0	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-02I	1/13/2023	N	EM05	UMCf	75.0 - 90.0	<1.27	<3.00	<2.78	<1.49	<1.18	<1.90	<1.60	<2.34	<1.74	----
U4-MW-02I	1/13/2023	FD	EM05	UMCf	75.0 - 90.0	<1.27	<3.00	<2.78	<1.49	<1.18	<1.90	<1.60	<2.34	<1.74	----
U4-MW-02I	2/15/2023	N	EM06	UMCf	75.0 - 90.0	<1.27	<3.00	<2.78	<1.49	<1.18	<1.90	<1.60	<2.34	<1.74	----
U4-MW-02I	2/15/2023	FD	EM06	UMCf	75.0 - 90.0	<1.27	<3.00	<2.78	<1.49	<1.18	<1.90	<1.60	<2.34	<1.74	----
U4-MW-02I	3/17/2023	N	EM07	UMCf	75.0 - 90.0	<25.4	<60.0	<55.6	<29.8	<23.6	<38.0	<32.0	<46.8	<34.8	<12 UJ
U4-MW-02I	3/17/2023	FD	EM07	UMCf	75.0 - 90.0	<25.4	<60.0	<55.6	<29.8	<23.6	<38.0	<32.0	<46.8	<34.8	<12 UJ
U4-MW-02I	4/20/2023	N	EM08	UMCf	75.0 - 90.0	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-02I	4/20/2023	FD	EM08	UMCf	75.0 - 90.0	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-02I	5/9/2023	N	EM09	UMCf	75.0 - 90.0	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-02I	5/9/2023	FD	EM09	UMCf	75.0 - 90.0	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-02I	6/12/2023	N	EM10	UMCf	75.0 - 90.0	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	<1.2
U4-MW-02I	6/12/2023	FD	EM10	UMCf	75.0 - 90.0	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	<1.2
U4-MW-02I	7/18/2023	N	EM11	UMCf	75.0 - 90.0	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-02I	7/18/2023	FD	EM11	UMCf	75.0 - 90.0	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-02I	8/11/2023	N	EM12	UMCf	75.0 - 90.0	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-02I	8/11/2023	FD	EM12	UMCf	75.0 - 90.0	<0.127	<0.300	<0.278	<0.149	<0.118	0.247 J	<0.160	<0.234	<0.174	----
U4-MW-02I	9/11/2023	N	EM13	UMCf	75.0 - 90.0	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	<3.0
U4-MW-02I	9/11/2023	FD	EM13	UMCf	75.0 - 90.0	<0.127	<0.300	<0.278	<0.149	<0.118	0.223 J	<0.160	<0.234	<0.174	<60.9
U4-MW-02I	10/19/2023	N	EM14	UMCf	75.0 - 90.0	<0.127 UJ	<0.300 UJ	<0.278 UJ	<0.149 UJ	<0.118 UJ	0.432 J	<0.160 UJ	<0.234 UJ	<0.174 UJ	----
U4-MW-02I	10/19/2023	FD	EM14	UMCf	75.0 - 90.0	<0.127	<0.300	<0.278	<0.149	<0.118	0.587 J	<0.160	<0.234	<0.174	----
U4-MW-02I	11/15/2023	N	EM15	UMCf	75.0 - 90.0	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7	<8.70	----
U4-MW-02I	11/15/2023	FD	EM15	UMCf	75.0 - 90.0	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7	<8.70	----
U4-MW-02I	12/14/2023	N	EM16	UMCf	75.0 - 90.0	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7	<8.70	<0.061
U4-MW-02I	12/14/2023	FD	EM16	UMCf	75.0 - 90.0	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7	<8.70	<0.061
U4-MW-02I	1/25/2024	N	EM17	UMCf	75.0 - 90.0	<0.127	0.904 J	16.2	<0.149	<0.118	0.768 J	<0.160	<0.234	<0.174	----
U4-MW-02I	1/25/2024	FD	EM17	UMCf	75.0 - 90.0	<0.127	0.739 J	16.5	<0.149	<0.118	0.841 J	<0.160	<0.234	<0.174	----
U4-MW-02I	2/12/2024	N	EM18	UMCf	75.0 - 90.0	<0.127	0.421 J	13.9	<0.149	<0.118	0.665 J	<0.160	<0.234	<0.174	----
U4-MW-02I	2/12/2024	FD	EM18	UMCf	75.0 - 90.0	<0.127	0.437 J	13.3	<0.149	<0.118	0.711 J	<0.160	<0.234	<0.174	----
U4-MW-02I	3/13/2024	N	EM19	UMCf	75.0 - 90.0	<0.127	0.469 J	13.2	<0.149	<0.118	0.514 J	<0.160	<0.234	<0.174	<0.12
U4-MW-02I	3/13/2024	FD	EM19	UMCf	75.0 - 90.0	<0.127	0.715 J	18.2	<0.149	<0.118	0.713 J	<0.160	<0.234	<0.174	<0.12
U4-MW-02I	6/17/2024	N	EM20	UMCf	75.0 - 90.0	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7	<8.70	<0.12
U4-MW-02I	6/17/2024	FD	EM20	UMCf	75.0 - 90.0	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7	<8.70	<0.12
U4-MW-03D	4/20/2022	N	BL02	UMCf	96.6 - 106.6	<0.127	<0.300	<0.278	<0.149	<0.118	0.208 J	<0.160	<0.234	<0.174	----
U4-MW-03D	2/16/2023	N	EM06	UMCf	96.6 - 106.6	<0.635	<1.50	<13.9	<0.745	<0.590	<0.950	<0.800	<1.17	<0.870	----
U4-MW-03D	3/16/2023	N	EM07	UMCf	96.6 - 106.6	<2.54	<6.00	<5.56	<2.98	<2.36	<3.80	<3.20	<4.68	<3.48	----
U4-MW-03D	3/16/2023	FD	EM07	UMCf	96.6 - 106.6	<0.635	<1.50	<1.39	<0.745	<0.590	<0.950	<0.800	<1.17	<0.870	----
U4-MW-03D	6/15/2023	N	EM10	UMCf	96.6 - 106.6	<0.127	<0.300	<0.278	<0.149	<0.118 UJ	<0.190	<0.160	<0.234	<0.174	----
U4-MW-03D	9/14/2023	N	EM13	UMCf	96.6 - 106.6	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<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 Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Fatty Acids by AM20GAX/AM23G
						tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride	Xylenes, Total	3-Methylbutanoic Acid
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-03D	12/13/2023	N	EM16	UMCf	96.6 - 106.6	<0.127	<0.300	<0.278	<0.149	<0.118	0.204 J	<0.160	<0.234	<0.174	----
U4-MW-03D	3/15/2024	N	EM19	UMCf	96.6 - 106.6	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-03D	6/17/2024	N	EM20	UMCf	96.6 - 106.6	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7	<8.70	----
U4-MW-03DD	4/20/2022	N	BL02	UMCf	119.7 - 129.7	<0.127	<0.300	0.285 J	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-03DD	3/15/2023	N	EM07	UMCf	119.7 - 129.7	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-03DD	6/15/2023	N	EM10	UMCf	119.7 - 129.7	<0.127	<0.300	<0.278	<0.149	<0.118 UJ	<0.190	<0.160	<0.234	<0.174	----
U4-MW-03DD	9/14/2023	N	EM13	UMCf	119.7 - 129.7	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-03DD	12/14/2023	N	EM16	UMCf	119.7 - 129.7	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-03DD	3/14/2024	N	EM19	UMCf	119.7 - 129.7	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-03DD	6/17/2024	N	EM20	UMCf	119.7 - 129.7	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-03I	4/19/2022	N	BL02	UMCf	76.6 - 86.6	<0.127	<0.300	0.798 J	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-03I	3/15/2023	N	EM07	UMCf	76.6 - 86.6	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-03I	6/14/2023	N	EM10	UMCf	76.6 - 86.6	<2.54	<6.00	<5.56	<2.98	<2.36	<3.80	<3.20	<4.68	<3.48	----
U4-MW-03I	6/14/2023	FD	EM10	UMCf	76.6 - 86.6	<3.18	<7.50	<6.95	<3.73	<2.95	<4.75	<4.00	<5.85	<4.35	----
U4-MW-03I	9/11/2023	N	EM13	UMCf	76.6 - 86.6	<0.127	<0.300	<0.278	<0.149	<0.118	0.190 J	<0.160	<0.234	<0.174	----
U4-MW-03I	9/11/2023	FD	EM13	UMCf	76.6 - 86.6	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-03I	12/13/2023	N	EM16	UMCf	76.6 - 86.6	<0.127	<0.300	<0.278	<0.149	<0.118	0.246 J	<0.160	<0.234	<0.174	----
U4-MW-03I	12/13/2023	FD	EM16	UMCf	76.6 - 86.6	<0.127	<0.300	<0.278	<0.149	<0.118	0.225 J	<0.160	<0.234	<0.174	----
U4-MW-03I	3/14/2024	N	EM19	UMCf	76.6 - 86.6	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7	<8.70	----
U4-MW-03I	3/14/2024	FD	EM19	UMCf	76.6 - 86.6	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7	<8.70	----
U4-MW-03I	6/19/2024	N	EM20	UMCf	76.6 - 86.6	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7	<8.70	----
U4-MW-03I	6/19/2024	FD	EM20	UMCf	76.6 - 86.6	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7	<8.70	----
U4-MW-03S	4/18/2022	N	BL02	UMCf	54.5 - 64.5	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-03S	4/18/2022	FD	BL02	UMCf	54.5 - 64.5	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-03S	3/15/2023	N	EM07	UMCf	54.5 - 64.5	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-03S	6/15/2023	N	EM10	UMCf	54.5 - 64.5	<0.127	<0.300	<0.278	<0.149	<0.118 UJ	<0.190	<0.160	<0.234	<0.174	----
U4-MW-03S	9/14/2023	N	EM13	UMCf	54.5 - 64.5	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-03S	12/13/2023	N	EM16	UMCf	54.5 - 64.5	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-03S	3/14/2024	N	EM19	UMCf	54.5 - 64.5	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-03S	6/14/2024	N	EM20	UMCf	54.5 - 64.5	<0.127	<0.300	<0.278	<0.149	<0.118 UJ	<0.190	<0.160	<0.234	<0.174	----
U4-MW-04D	4/19/2022	N	BL02	UMCf	97.0 - 107.0	<0.127	<0.300	<0.278	<0.149	<0.118	0.805 J	<0.160	<0.234	<0.174	----
U4-MW-04D	2/16/2023	N	EM06	UMCf	97.0 - 107.0	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7	<8.70	----
U4-MW-04D	3/21/2023	N	EM07	UMCf	97.0 - 107.0	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-04D	6/14/2023	N	EM10	UMCf	97.0 - 107.0	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-04D	9/15/2023	N	EM13	UMCf	97.0 - 107.0	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-04D	12/12/2023	N	EM16	UMCf	97.0 - 107.0	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-04D	3/12/2024	N	EM19	UMCf	97.0 - 107.0	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7	<8.70	----
U4-MW-04D	6/19/2024	N	EM20	UMCf	97.0 - 107.0	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7	<8.70	----
U4-MW-04I	4/19/2022	N	BL02	UMCf	76.8 - 86.8	<0.127	<0.300	0.375 J	<0.149	<0.118	0.225 J	<0.160	<0.234	<0.174	----
U4-MW-04I	3/20/2023	N	EM07	UMCf	76.8 - 86.8	<0.127	<0.300	<0.278	<0.149	<0.118	0.315 J	<0.160	<0.234	<0.174	----
U4-MW-04I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<0.635	<1.50	<1.39	<0.745	<0.590	<0.950	<0.800	<1.17	<0.870	----
U4-MW-04I	9/14/2023	N	EM13	UMCf	76.8 - 86.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-04I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	<0.127	<0.300	<0.278	<0.149	<0.118	0.646 J	<0.160	<0.234	<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 Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Fatty Acids by AM20GAX/AM23G
						tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride	Xylenes, Total	3-Methylbutanoic Acid
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-04I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	<25.4	<60.0	<55.6	<29.8	<23.6	<38.0	<32.0	<46.8	<34.8	----
U4-MW-04I	6/18/2024	N	EM20	UMCf	76.8 - 86.8	<0.635	<1.50	<1.39	<0.745	<0.590	<0.950	<0.800	<1.17	<0.870	----
U4-MW-05D	4/15/2022	N	BL02	UMCf	98.2 - 108.2	<0.127	<0.300	<0.278	<0.149	<0.118	0.920 J	<0.160	<0.234	<0.174	----
U4-MW-05D	10/13/2022	N	EM02	UMCf	98.2 - 108.2	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4	<17.4	----
U4-MW-05D	11/3/2022	N	EM03	UMCf	98.2 - 108.2	<0.127	<0.300	<0.278	<0.149	<0.118	0.421 J	<0.160	<0.234	<0.174	----
U4-MW-05D	12/7/2022	N	EM04	UMCf	98.2 - 108.2	<0.127	<0.300	<0.278	<0.149	<0.118	0.543 J	<0.160	0.238 J	<0.174	----
U4-MW-05D	1/11/2023	N	EM05	UMCf	98.2 - 108.2	<0.127	<0.300	<0.278	<0.149	<0.118	0.492 J	<0.160	<0.234	<0.174	----
U4-MW-05D	2/14/2023	N	EM06	UMCf	98.2 - 108.2	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4	<17.4	----
U4-MW-05D	3/16/2023	N	EM07	UMCf	98.2 - 108.2	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4	<17.4	<6.1
U4-MW-05D	4/20/2023	N	EM08	UMCf	98.2 - 108.2	<0.127	<0.300	<0.278	<0.149	<0.118	0.241 J	<0.160	<0.234	<0.174	----
U4-MW-05D	5/10/2023	N	EM09	UMCf	98.2 - 108.2	<0.127	<0.300	<0.278	<0.149	<0.118	0.216 J	<0.160	<0.234	<0.174	----
U4-MW-05D	6/15/2023	N	EM10	UMCf	98.2 - 108.2	<0.127	<0.300	<0.278	<0.149	<0.118 UJ	<0.190	<0.160	<0.234	<0.174	<3.0
U4-MW-05D	7/18/2023	N	EM11	UMCf	98.2 - 108.2	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-05D	8/14/2023	N	EM12	UMCf	98.2 - 108.2	<3.18	<7.50	<6.95	<3.73	<2.95	<4.75	<4.00	<5.85	<4.35	----
U4-MW-05D	9/12/2023	N	EM13	UMCf	98.2 - 108.2	<3.18	<7.50	<6.95	<3.73	<2.95	<4.75	<4.00	<5.85	<4.35	<3.0
U4-MW-05D	10/18/2023	N	EM14	UMCf	98.2 - 108.2	<3.18	<7.50	<6.95	<3.73	<2.95	<4.75	<4.00	<5.85	<4.35	----
U4-MW-05D	11/16/2023	N	EM15	UMCf	98.2 - 108.2	<3.18	<7.50	<6.95	<3.73	<2.95	<4.75	<4.00	<5.85	<4.35	----
U4-MW-05D	12/14/2023	N	EM16	UMCf	98.2 - 108.2	<3.18	<7.50	<6.95	<3.73	<2.95	<4.75	<4.00	<5.85	<4.35	<0.061
U4-MW-05D	1/26/2024	N	EM17	UMCf	98.2 - 108.2	<0.127	<0.300	1.12 J+	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-05D	2/14/2024	N	EM18	UMCf	98.2 - 108.2	<0.127	<0.300	1.17 J+	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-05D	3/12/2024	N	EM19	UMCf	98.2 - 108.2	<3.18	<7.50	<6.95	<3.73	<2.95	<4.75	<4.00	<5.85	<4.35	<0.12
U4-MW-05D	6/18/2024	N	EM20	UMCf	98.2 - 108.2	<0.127	<0.300	0.467 J	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	<0.12
U4-MW-05I	4/15/2022	N	BL02	UMCf	76.6 - 86.6	<0.127	<0.300	<0.278	<0.149	<0.118	0.500 J	<0.160	<0.234	<0.174	----
U4-MW-05I	10/13/2022	N	EM02	UMCf	76.6 - 86.6	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4	<17.4	----
U4-MW-05I	11/3/2022	N	EM03	UMCf	76.6 - 86.6	<0.127	0.354 J	<0.278	<0.149	<0.118	0.797 J	<0.160	<0.234	<0.174	----
U4-MW-05I	12/8/2022	N	EM04	UMCf	76.6 - 86.6	<0.127	<0.300	<0.278	<0.149	<0.118	0.693 J	<0.160	<0.234	<0.174	----
U4-MW-05I	1/11/2023	N	EM05	UMCf	76.6 - 86.6	<0.127	0.331 J	<0.278	<0.149	<0.118	0.592 J	<0.160	<0.234	<0.174	----
U4-MW-05I	2/14/2023	N	EM06	UMCf	76.6 - 86.6	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4	<17.4	----
U4-MW-05I	3/14/2023	N	EM07	UMCf	76.6 - 86.6	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4	<17.4	<3.0
U4-MW-05I	4/21/2023	N	EM08	UMCf	76.6 - 86.6	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-05I	5/10/2023	N	EM09	UMCf	76.6 - 86.6	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-05I	6/15/2023	N	EM10	UMCf	76.6 - 86.6	<0.127	<0.300	<0.278	<0.149	<0.118 UJ	<0.190	<0.160	<0.234	<0.174	<6.1
U4-MW-05I	7/17/2023	N	EM11	UMCf	76.6 - 86.6	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-05I	8/14/2023	N	EM12	UMCf	76.6 - 86.6	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7	<8.70	----
U4-MW-05I	9/13/2023	N	EM13	UMCf	76.6 - 86.6	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	<30.4
U4-MW-05I	10/18/2023	N	EM14	UMCf	76.6 - 86.6	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7	<8.70	----
U4-MW-05I	11/15/2023	N	EM15	UMCf	76.6 - 86.6	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7	<8.70	----
U4-MW-05I	12/12/2023	N	EM16	UMCf	76.6 - 86.6	<0.127	<0.300	0.612 J	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	<0.061
U4-MW-05I	1/26/2024	N	EM17	UMCf	76.6 - 86.6	<0.127	<0.300	1.08 J+	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-05I	2/14/2024	N	EM18	UMCf	76.6 - 86.6	<0.127	<0.300	0.566 J	<0.149	<0.118	0.193	<0.160	<0.234	<0.174	----
U4-MW-05I	3/11/2024	N	EM19	UMCf	76.6 - 86.6	<0.127	<0.300	0.820 J	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	<0.12
U4-MW-05I	6/18/2024	N	EM20	UMCf	76.6 - 86.6	<0.127	<0.300	1.23	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	<0.12
U4-MW-06D	4/19/2022	N	BL02	UMCf	97.1 - 107.1	<0.127	<0.300	<0.278	<0.149	<0.118	0.524 J	<0.160	<0.234	<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 Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Fatty Acids by AM20GAX/AM23G
						tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride	Xylenes, Total	3-Methylbutanoic Acid
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-06D	2/15/2023	N	EM06	UMCf	97.1 - 107.1	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7	<8.70	----
U4-MW-06D	3/21/2023	N	EM07	UMCf	97.1 - 107.1	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-06D	6/16/2023	N	EM10	UMCf	97.1 - 107.1	<0.127	<0.300	<0.278	<0.149	<0.118	<9.50	<0.160	<0.234	<0.174	----
U4-MW-06D	9/13/2023	N	EM13	UMCf	97.1 - 107.1	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-06D	12/13/2023	N	EM16	UMCf	97.1 - 107.1	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-06D	3/14/2024	N	EM19	UMCf	97.1 - 107.1	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7	<8.70	----
U4-MW-06D	6/12/2024	N	EM20	UMCf	97.1 - 107.1	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-06I	4/19/2022	N	BL02	UMCf	76.5 - 86.5	<0.127	<0.300	0.332 J	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-06I	3/14/2023	N	EM07	UMCf	76.5 - 86.5	<0.127	<0.300	<0.278	<0.149	<0.118	0.369 J	<0.160	<0.234	<0.174	----
U4-MW-06I	6/16/2023	N	EM10	UMCf	76.5 - 86.5	<0.127	<0.300	<0.278	<0.149	<0.118	<9.50	<0.160	<0.234	<0.174	----
U4-MW-06I	9/12/2023	N	EM13	UMCf	76.5 - 86.5	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7	<8.70	----
U4-MW-06I	12/12/2023	N	EM16	UMCf	76.5 - 86.5	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-06I	3/14/2024	N	EM19	UMCf	76.5 - 86.5	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4	<17.4	----
U4-MW-06I	6/11/2024	N	EM20	UMCf	76.5 - 86.5	<0.127	<0.300	<0.278	<0.149	<0.118	0.403 J	<0.160	<0.234	<0.174	----
U4-MW-07D	4/15/2022	N	BL02	UMCf	96.8 - 106.5	<0.127	<0.300	<0.278	<0.149	<0.118	0.191 J	<0.160	<0.234	<0.174	----
U4-MW-07D	10/12/2022	N	EM02	UMCf	96.8 - 106.5	<0.127	<0.300	0.557 J	<0.149	<0.118	<0.190	<0.160	<0.234	0.181 J	----
U4-MW-07D	10/12/2022	FD	EM02	UMCf	96.8 - 106.5	<0.127	<0.300	0.576 J	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-07D	11/3/2022	N	EM03	UMCf	96.8 - 106.5	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-07D	12/7/2022	N	EM04	UMCf	96.8 - 106.5	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-07D	1/11/2023	N	EM05	UMCf	96.8 - 106.5	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-07D	2/14/2023	N	EM06	UMCf	96.8 - 106.5	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-07D	3/16/2023	N	EM07	UMCf	96.8 - 106.5	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	<0.61
U4-MW-07D	4/21/2023	N	EM08	UMCf	96.8 - 106.5	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-07D	5/11/2023	N	EM09	UMCf	96.8 - 106.5	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-07D	6/13/2023	N	EM10	UMCf	96.8 - 106.5	<0.127 UJ	<0.300 UJ	<0.278 UJ	<0.149 UJ	<0.118 UJ	<0.190 UJ	<0.160 UJ	<0.234 UJ	<0.174 UJ	<12
U4-MW-07D	7/17/2023	N	EM11	UMCf	96.8 - 106.5	<0.127	<0.300	<0.278	<0.149	<0.118	0.288 J	<0.160	<0.234	<0.174	----
U4-MW-07D	8/11/2023	N	EM12	UMCf	96.8 - 106.5	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-07D	9/13/2023	N	EM13	UMCf	96.8 - 106.5	<0.127	<0.300	4.23	<0.149	<0.118	0.220 J	<0.160	<0.234	<0.174	<30.4
U4-MW-07D	10/18/2023	N	EM14	UMCf	96.8 - 106.5	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4	<17.4	----
U4-MW-07D	11/16/2023	N	EM15	UMCf	96.8 - 106.5	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4	<17.4	----
U4-MW-07D	12/12/2023	N	EM16	UMCf	96.8 - 106.5	<0.127	<0.300	12.0	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	<0.061
U4-MW-07D	1/26/2024	N	EM17	UMCf	96.8 - 106.5	<0.127	<0.300	1.66 J+	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-07D	2/13/2024	N	EM18	UMCf	96.8 - 106.5	<3.18	<7.50	<6.95	<3.73	<2.95	<4.75	<4.00	<5.85	<4.35	----
U4-MW-07D	3/11/2024	N	EM19	UMCf	96.8 - 106.5	<3.18	<7.50	<6.95	<3.73	<2.95	<4.75	<4.00	<5.85	<4.35	<0.12
U4-MW-07D	6/12/2024	N	EM20	UMCf	96.8 - 106.5	<0.127	<0.300	0.886 J	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	<0.12 UJ
U4-MW-07I	4/15/2022	N	BL02	UMCf	76.8 - 86.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-07I	10/12/2022	N	EM02	UMCf	76.8 - 86.8	<0.127	<0.300	0.315 J	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-07I	11/3/2022	N	EM03	UMCf	76.8 - 86.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-07I	12/7/2022	N	EM04	UMCf	76.8 - 86.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-07I	1/11/2023	N	EM05	UMCf	76.8 - 86.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-07I	2/15/2023	N	EM06	UMCf	76.8 - 86.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-07I	3/16/2023	N	EM07	UMCf	76.8 - 86.8	<0.635	<1.50	<1.39	<0.745	<0.590	<0.950	<0.800	<1.17	<0.870	<0.61
U4-MW-07I	4/21/2023	N	EM08	UMCf	76.8 - 86.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<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 Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Fatty Acids by AM20GAX/AM23G
						tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride	Xylenes, Total	3-Methylbutanoic Acid
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-07I	5/11/2023	N	EM09	UMCf	76.8 - 86.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-07I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<0.635	<1.50	<1.39	<0.745	<0.590	<0.950	<0.800	<1.17	<0.870	<3.0
U4-MW-07I	7/17/2023	N	EM11	UMCf	76.8 - 86.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-07I	8/11/2023	N	EM12	UMCf	76.8 - 86.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-07I	9/13/2023	N	EM13	UMCf	76.8 - 86.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	<30.4
U4-MW-07I	10/18/2023	N	EM14	UMCf	76.8 - 86.8	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7	<8.70	----
U4-MW-07I	11/16/2023	N	EM15	UMCf	76.8 - 86.8	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7	<8.70	----
U4-MW-07I	12/11/2023	N	EM16	UMCf	76.8 - 86.8	<0.127	<0.300	8.41	<0.149	<0.118	0.205 J	<0.160	<0.234	<0.174	<0.061
U4-MW-07I	1/26/2024	N	EM17	UMCf	76.8 - 86.8	<0.127	<0.300	1.30 J+	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-07I	2/13/2024	N	EM18	UMCf	76.8 - 86.8	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7	<8.70	----
U4-MW-07I	3/11/2024	N	EM19	UMCf	76.8 - 86.8	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7	<8.70	<0.12
U4-MW-07I	6/12/2024	N	EM20	UMCf	76.8 - 86.8	<0.127	<0.300	0.570 J	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	<0.12 UJ
U4-MW-08D	4/13/2022	N	BL02	UMCf	98.6 - 108.6	<0.127	2.63	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-08D	12/7/2022	N	EM04	UMCf	98.6 - 108.6	<0.127	<0.300	<0.278	<0.149	<0.118	0.670 J	<0.160	<0.234	<0.174	----
U4-MW-08D	3/17/2023	N	EM07	UMCf	98.6 - 108.6	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4	<17.4	----
U4-MW-08D	6/13/2023	N	EM10	UMCf	98.6 - 108.6	<0.127	<0.300	<0.278	<0.149	<0.118	0.584 J	<0.160	<0.234	<0.174	----
U4-MW-08D	9/13/2023	N	EM13	UMCf	98.6 - 108.6	<0.127	<0.300	<0.278	<0.149	<0.118	1.09	<0.160	<0.234	<0.174	----
U4-MW-08D	12/11/2023	N	EM16	UMCf	98.6 - 108.6	<0.127	<0.300	2.35 J+	<0.149	<0.118	0.565 J	<0.160	<0.234	<0.174	----
U4-MW-08D	3/12/2024	N	EM19	UMCf	98.6 - 108.6	<25.4	<60.0	<55.6	<29.8	<23.6	<38.0	<32.0	<46.8	<34.8	----
U4-MW-08D	6/14/2024	N	EM20	UMCf	98.6 - 108.6	<25.4	<60.0	<55.6	<29.8	<23.6 UJ	<38.0	<32.0	<46.8	<34.8	----
U4-MW-08DD	4/20/2022	N	BL02	UMCf	119.8 - 129.8	<0.127	<0.300	0.486 J	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-08DD	4/20/2022	FD	BL02	UMCf	119.8 - 129.8	<0.127	<0.300	0.531 J	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-08DD	12/8/2022	N	EM04	UMCf	119.8 - 129.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-08DD	3/15/2023	N	EM07	UMCf	119.8 - 129.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-08DD	6/14/2023	N	EM10	UMCf	119.8 - 129.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-08DD	9/14/2023	N	EM13	UMCf	119.8 - 129.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-08DD	12/14/2023	N	EM16	UMCf	119.8 - 129.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-08DD	3/14/2024	N	EM19	UMCf	119.8 - 129.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-08DD	6/12/2024	N	EM20	UMCf	119.8 - 129.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-08I	4/13/2022	N	BL02	UMCf	78.0 - 88.0	<0.127	<0.300	<0.278	<0.149	<0.118	0.904 J	<0.160	0.413 J	<0.174	----
U4-MW-08I	12/7/2022	N	EM04	UMCf	78.0 - 88.0	<0.127	<0.300	<0.278	<0.149	<0.118	0.466 J	<0.160	<0.234	<0.174	----
U4-MW-08I	12/7/2022	FD	EM04	UMCf	78.0 - 88.0	<0.127	<0.300	<0.278	<0.149	<0.118	0.489 J	<0.160	<0.234	<0.174	----
U4-MW-08I	3/17/2023	N	EM07	UMCf	78.0 - 88.0	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7	<8.70	----
U4-MW-08I	6/13/2023	N	EM10	UMCf	78.0 - 88.0	<0.127	<0.300	<0.278	<0.149	<0.118	0.329 J	<0.160	<0.234	<0.174	----
U4-MW-08I	9/13/2023	N	EM13	UMCf	78.0 - 88.0	<0.127	0.405 J	<0.278	<0.149	<0.118	0.649 J	<0.160	<0.234	<0.174	----
U4-MW-08I	12/11/2023	N	EM16	UMCf	78.0 - 88.0	<0.127	0.362 J	0.421 J	<0.149	<0.118	0.699 J	<0.160	<0.234	<0.174	----
U4-MW-08I	3/12/2024	N	EM19	UMCf	78.0 - 88.0	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4	<17.4	----
U4-MW-08I	6/14/2024	N	EM20	UMCf	78.0 - 88.0	<12.7	<30.0	<27.8	<14.9	<11.8 UJ	<19.0	<16.0	<23.4	<17.4	----
U4-MW-08S	4/15/2022	N	BL02	UMCf	54.9 - 64.9	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-08S	12/7/2022	N	EM04	UMCf	54.9 - 64.9	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-08S	12/7/2022	FD	EM04	UMCf	54.9 - 64.9	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-08S	3/13/2023	N	EM07	UMCf	54.9 - 64.9	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-08S	3/13/2023	FD	EM07	UMCf	54.9 - 64.9	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<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 Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Fatty Acids by AM20GAX/AM23G
						tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride	Xylenes, Total	3-Methylbutanoic Acid
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-08S	6/13/2023	N	EM10	UMCf	54.9 - 64.9	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-08S	6/13/2023	FD	EM10	UMCf	54.9 - 64.9	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-08S	9/13/2023	N	EM13	UMCf	54.9 - 64.9	<0.127	<0.300	1.64 J+	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-08S	9/13/2023	FD	EM13	UMCf	54.9 - 64.9	<0.127	<0.300	1.60 J+	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-08S	12/14/2023	N	EM16	UMCf	54.9 - 64.9	<0.127	<0.300	1.22 J+	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-08S	12/14/2023	FD	EM16	UMCf	54.9 - 64.9	<0.127	<0.300	1.24 J+	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-08S	3/14/2024	N	EM19	UMCf	54.9 - 64.9	<0.254 UJ	<0.600 UJ	1.50 J	<0.298 UJ	<0.236 UJ	<0.380 UJ	<0.320 UJ	<0.468 UJ	<0.348 UJ	----
U4-MW-08S	3/14/2024	FD	EM19	UMCf	54.9 - 64.9	<0.254 UJ	<0.600 UJ	1.80 J	<0.298 UJ	<0.236 UJ	<0.380 UJ	<0.320 UJ	<0.468 UJ	<0.348 UJ	----
U4-MW-08S	3/25/2024	N	EM19	UMCf	54.9 - 64.9	<0.127	<0.300	0.504 J	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174 UJ	----
U4-MW-08S	3/25/2024	FD	EM19	UMCf	54.9 - 64.9	<0.127	<0.300	0.868 J	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174 UJ	----
U4-MW-08S	6/14/2024	N	EM20	UMCf	54.9 - 64.9	<0.127	<0.300	1.24	<0.149	<0.118 UJ	<0.190	<0.160	<0.234	<0.174	----
U4-MW-08S	6/14/2024	FD	EM20	UMCf	54.9 - 64.9	<0.127	<0.300	1.26	<0.149	<0.118 UJ	<0.190	<0.160	<0.234	<0.174	----
U4-MW-09D	4/14/2022	N	BL02	UMCf	96.9 - 106.9	<0.127	<0.300	<0.278	<0.149	<0.118	0.195 J	<0.160	<0.234	<0.174	----
U4-MW-09D	12/6/2022	N	EM04	UMCf	96.9 - 106.9	<1.27 UJ	<3.00 UJ	<2.78 UJ	<1.49 UJ	<1.18 UJ	<1.90 UJ	<1.60 UJ	<2.34 UJ	<1.74 UJ	----
U4-MW-09D	3/16/2023	N	EM07	UMCf	96.9 - 106.9	<1.27	<3.00	<2.78	<1.49	<1.18	<1.90	<1.60	<2.34	<1.74	----
U4-MW-09D	6/14/2023	N	EM10	UMCf	96.9 - 106.9	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-09D	9/12/2023	N	EM13	UMCf	96.9 - 106.9	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-09D	12/15/2023	N	EM16	UMCf	96.9 - 106.9	<3.18 UJ	<7.50 UJ	<6.95 UJ	<3.73 UJ	<2.95 UJ	<4.75 UJ	<4.00 UJ	<5.85 UJ	12.4 J	----
U4-MW-09D	3/13/2024	N	EM19	UMCf	96.9 - 106.9	<0.127	<0.300	2.81	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-09D	6/13/2024	N	EM20	UMCf	96.9 - 106.9	<0.127	<0.300	6.01	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-09DD	4/14/2022	N	BL02	UMCf	119.8 - 129.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-09DD	12/6/2022	N	EM04	UMCf	119.8 - 129.8	<0.127 UJ	<0.300 UJ	<0.278 UJ	<0.149 UJ	<0.118 UJ	<0.190 UJ	<0.160 UJ	<0.234 UJ	<0.174 UJ	----
U4-MW-09DD	3/21/2023	N	EM07	UMCf	119.8 - 129.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-09DD	6/15/2023	N	EM10	UMCf	119.8 - 129.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-09DD	9/13/2023	N	EM13	UMCf	119.8 - 129.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-09DD	12/13/2023	N	EM16	UMCf	119.8 - 129.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-09DD	3/14/2024	N	EM19	UMCf	119.8 - 129.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-09DD	6/13/2024	N	EM20	UMCf	119.8 - 129.8	<0.127	<0.300	0.381 J	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-09I	4/14/2022	N	BL02	UMCf	76.8 - 86.8	<0.127	<0.300	3.30	<0.149	<0.118	<0.190	<0.160	<0.234	0.326 J	----
U4-MW-09I	12/6/2022	N	EM04	UMCf	76.8 - 86.8	<1.27 UJ	<3.00 UJ	<2.78 UJ	<1.49 UJ	<1.18 UJ	<1.90 UJ	<1.60 UJ	<2.34 UJ	<1.74 UJ	----
U4-MW-09I	3/16/2023	N	EM07	UMCf	76.8 - 86.8	<1.27	<3.00	<2.78	<1.49	<1.18	<1.90	<1.60	<2.34	<1.74	----
U4-MW-09I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-09I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-09I	12/15/2023	N	EM16	UMCf	76.8 - 86.8	<3.18 UJ	<7.50 UJ	<6.95 UJ	<3.73 UJ	<2.95 UJ	<4.75 UJ	<4.00 UJ	<5.85 UJ	<4.35 UJ	----
U4-MW-09I	3/13/2024	N	EM19	UMCf	76.8 - 86.8	<0.127	<0.300	3.17	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-09I	6/13/2024	N	EM20	UMCf	76.8 - 86.8	<0.127	<0.300	1.49	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-09S	4/14/2022	N	BL02	UMCf	55.3 - 65.3	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-09S	12/6/2022	N	EM04	UMCf	55.3 - 65.3	<0.127 UJ	<0.300 UJ	<0.278 UJ	<0.149 UJ	<0.118 UJ	<0.190 UJ	<0.160 UJ	<0.234 UJ	<0.174 UJ	----
U4-MW-09S	3/17/2023	N	EM07	UMCf	55.3 - 65.3	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-09S	6/15/2023	N	EM10	UMCf	55.3 - 65.3	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-09S	9/13/2023	N	EM13	UMCf	55.3 - 65.3	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-09S	12/12/2023	N	EM16	UMCf	55.3 - 65.3	<0.127	<0.300	1.37	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-09S	3/13/2024	N	EM19	UMCf	55.3 - 65.3	<0.127	<0.300	1.26	<0.149	<0.118	<0.190	<0.160	<0.234	<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 Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Fatty Acids by AM20GAX/AM23G
						tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride	Xylenes, Total	3-Methylbutanoic Acid
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-09S	6/13/2024	N	EM20	UMCf	55.3 - 65.3	<0.127	<0.300	1.89	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-10D	4/14/2022	N	BL02	UMCf	96.9 - 106.9	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-10D	12/5/2022	N	EM04	UMCf	96.9 - 106.9	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-10D	3/17/2023	N	EM07	UMCf	96.9 - 106.9	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-10D	6/14/2023	N	EM10	UMCf	96.9 - 106.9	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-10D	9/13/2023	N	EM13	UMCf	96.9 - 106.9	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-10D	12/14/2023	N	EM16	UMCf	96.9 - 106.9	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-10D	3/14/2024	N	EM19	UMCf	96.9 - 106.9	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-10D	6/11/2024	N	EM20	UMCf	96.9 - 106.9	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-10I	4/14/2022	N	BL02	UMCf	77.1 - 87.1	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-10I	12/5/2022	N	EM04	UMCf	77.1 - 87.1	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-10I	3/17/2023	N	EM07	UMCf	77.1 - 87.1	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-10I	6/14/2023	N	EM10	UMCf	77.1 - 87.1	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-10I	9/13/2023	N	EM13	UMCf	77.1 - 87.1	<0.127	<0.300	6.13	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-10I	12/14/2023	N	EM16	UMCf	77.1 - 87.1	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-10I	3/13/2024	N	EM19	UMCf	77.1 - 87.1	<0.127	<0.300	<0.278	<0.149	<0.118	0.308 J	<0.160	<0.234	<0.174	----
U4-MW-10I	6/11/2024	N	EM20	UMCf	77.1 - 87.1	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-11D	4/15/2022	N	BL02	UMCf	97.4 - 107.4	<0.127	<0.300	<0.278	<0.149	<0.118	0.873 J	<0.160	<0.234	<0.174	<6.1
U4-MW-11D	9/26/2022	N	EM01	UMCf	97.4 - 107.4	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7	<8.70	----
U4-MW-11D	10/11/2022	N	EM02	UMCf	97.4 - 107.4	<1.27	<3.00	<2.78	<1.49	<1.18	<1.90	<1.60	<2.34	<1.74	----
U4-MW-11D	11/1/2022	N	EM03	UMCf	97.4 - 107.4	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7	<8.70	----
U4-MW-11D	12/6/2022	N	EM04	UMCf	97.4 - 107.4	<3.18 UJ	<7.50 UJ	<6.95 UJ	<3.73 UJ	<2.95 UJ	<4.75 UJ	<4.00 UJ	<5.85 UJ	<4.35 UJ	<3.0
U4-MW-11D	1/12/2023	N	EM05	UMCf	97.4 - 107.4	<25.4	<60.0	<55.6	<29.8	<23.6	<38.0	<32.0	<46.8	<34.8	----
U4-MW-11D	2/14/2023	N	EM06	UMCf	97.4 - 107.4	<25.4	<60.0	<55.6	<29.8	<23.6	<38.0	<32.0	<46.8	<34.8	----
U4-MW-11D	3/16/2023	N	EM07	UMCf	97.4 - 107.4	<25.4	<60.0	<55.6	<29.8	<23.6	<38.0	<32.0	<46.8	<34.8	<12
U4-MW-11D	4/18/2023	N	EM08	UMCf	97.4 - 107.4	<0.635	<1.50	<1.39	<0.745	<0.590	<0.950	<0.800	<1.17	<0.870	----
U4-MW-11D	5/17/2023	N	EM09	UMCf	97.4 - 107.4	<2.54 UJ	<6.00 UJ	<5.56 UJ	<2.98 UJ	<2.36 UJ	<3.80 UJ	<3.20 UJ	<4.68 UJ	<3.48 UJ	----
U4-MW-11D	6/16/2023	N	EM10	UMCf	97.4 - 107.4	<0.127	<0.300	<0.278	<0.149	<0.118	<9.50	<0.160	<0.234	<0.174	<12
U4-MW-11D	7/14/2023	N	EM11	UMCf	97.4 - 107.4	<0.127	<0.300	<0.278	<0.149	<0.118	0.875 J	<0.160 UJ	<0.234	<0.174	----
U4-MW-11D	8/14/2023	N	EM12	UMCf	97.4 - 107.4	<25.4	<60.0	<55.6	<29.8	<23.6	<38.0	<32.0	<46.8	<34.8	----
U4-MW-11D	9/13/2023	N	EM13	UMCf	97.4 - 107.4	<0.127	<0.300	<0.278	<0.149	<0.118	0.637 J	<0.160	<0.234	<0.174	<30.4
U4-MW-11D	10/18/2023	N	EM14	UMCf	97.4 - 107.4	<25.4	<60.0	<55.6	<29.8	<23.6	<38.0	<32.0	<46.8	<34.8	----
U4-MW-11D	11/16/2023	N	EM15	UMCf	97.4 - 107.4	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7	<8.70	----
U4-MW-11D	12/13/2023	N	EM16	UMCf	97.4 - 107.4	<0.127	<0.300	<0.278	<0.149	<0.118	0.474 J	<0.160	<0.234	<0.174	<0.061
U4-MW-11D	1/25/2024	N	EM17	UMCf	97.4 - 107.4	<0.127	<0.300	<0.278	<0.149	<0.118	0.325 J	<0.160	<0.234	<0.174	----
U4-MW-11D	2/14/2024	N	EM18	UMCf	97.4 - 107.4	<0.127	<0.300	<0.278	<0.149	<0.118	0.286	<0.160	<0.234	<0.174	----
U4-MW-11D	3/12/2024	N	EM19	UMCf	97.4 - 107.4	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4	<17.4	<0.12
U4-MW-11D	6/12/2024	N	EM20	UMCf	97.4 - 107.4	<0.127	<0.300	<0.278	<0.149	<0.118	0.202 J	<0.160	<0.234	<0.174	<0.12 UJ
U4-MW-11I	4/14/2022	N	BL02	UMCf	77.0 - 87.0	<0.127	<0.300	<0.278	<0.149	<0.118	0.194 J	<0.160	<0.234	<0.174	<1.2
U4-MW-11I	9/26/2022	N	EM01	UMCf	77.0 - 87.0	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-11I	9/26/2022	FD	EM01	UMCf	77.0 - 87.0	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-11I	10/10/2022	N	EM02	UMCf	77.0 - 87.0	<1.27	95.7 J	3.30 J	<1.49	<1.18	<1.90	<1.60	<2.34	<1.74	----
U4-MW-11I	10/10/2022	FD	EM02	UMCf	77.0 - 87.0	<0.127	1.82 J	<0.278	<0.149	<0.118	0.631 J	<0.160	<0.234	<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 Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Fatty Acids by AM20GAX/AM23G
						tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride	Xylenes, Total	3-Methylbutanoic Acid
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-11I	10/31/2022	N	EM03	UMCf	77.0 - 87.0	<0.635	<1.50	<1.39	<0.745	<0.590	<0.950	<0.800	<1.17	<0.870	----
U4-MW-11I	10/31/2022	FD	EM03	UMCf	77.0 - 87.0	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-11I	12/6/2022	N	EM04	UMCf	77.0 - 87.0	<0.127 UJ	<0.300 UJ	<0.278 UJ	<0.149 UJ	<0.118 UJ	<0.190 UJ	<0.160 UJ	<0.234 UJ	<0.174 UJ	<6.1 UJ
U4-MW-11I	12/6/2022	FD	EM04	UMCf	77.0 - 87.0	<0.127 UJ	<0.300 UJ	<0.278 UJ	<0.149 UJ	<0.118 UJ	<0.190 UJ	<0.160 UJ	<0.234 UJ	<0.174 UJ	<6.1 UJ
U4-MW-11I	1/12/2023	N	EM05	UMCf	77.0 - 87.0	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-11I	1/12/2023	FD	EM05	UMCf	77.0 - 87.0	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-11I	2/14/2023	N	EM06	UMCf	77.0 - 87.0	<0.127	<0.300	<0.278	<0.149	<0.118	0.472 J	<0.160	<0.234	<0.174	----
U4-MW-11I	2/14/2023	FD	EM06	UMCf	77.0 - 87.0	<0.127	<0.300	<0.278	<0.149	<0.118	0.478 J	<0.160	<0.234	<0.174	----
U4-MW-11I	3/16/2023	N	EM07	UMCf	77.0 - 87.0	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	<3.0
U4-MW-11I	3/16/2023	FD	EM07	UMCf	77.0 - 87.0	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	<3.0
U4-MW-11I	4/18/2023	N	EM08	UMCf	77.0 - 87.0	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-11I	4/18/2023	FD	EM08	UMCf	77.0 - 87.0	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-11I	5/19/2023	N	EM09	UMCf	77.0 - 87.0	<0.127 UJ	<0.300 UJ	<0.278 UJ	<0.149 UJ	<0.118 UJ	<0.190 UJ	<0.160 UJ	<0.234 UJ	<0.174 UJ	----
U4-MW-11I	5/19/2023	FD	EM09	UMCf	77.0 - 87.0	<0.127 UJ	<0.300 UJ	<0.278 UJ	<0.149 UJ	<0.118 UJ	<0.190 UJ	<0.160 UJ	<0.234 UJ	<0.174 UJ	----
U4-MW-11I	6/15/2023	N	EM10	UMCf	77.0 - 87.0	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	1.3 J
U4-MW-11I	6/15/2023	FD	EM10	UMCf	77.0 - 87.0	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	0.96 J
U4-MW-11I	7/13/2023	N	EM11	UMCf	77.0 - 87.0	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-11I	7/13/2023	FD	EM11	UMCf	77.0 - 87.0	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-11I	8/14/2023	N	EM12	UMCf	77.0 - 87.0	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-11I	8/14/2023	FD	EM12	UMCf	77.0 - 87.0	<0.127	<0.300	<0.278	<0.149	<0.118	0.275 J	<0.160	<0.234	<0.174	----
U4-MW-11I	9/13/2023	N	EM13	UMCf	77.0 - 87.0	<0.127	<0.300	<0.278	<0.149	<0.118	0.306 J	<0.160	<0.234	<0.174	<30.4
U4-MW-11I	9/13/2023	FD	EM13	UMCf	77.0 - 87.0	<0.127	<0.300	<0.278	<0.149	<0.118	0.362 J	<0.160	<0.234	<0.174	<30.4
U4-MW-11I	10/19/2023	N	EM14	UMCf	77.0 - 87.0	<0.127	<0.300	<0.278	<0.149	<0.118	0.618 J	<0.160	<0.234	<0.174	----
U4-MW-11I	10/19/2023	FD	EM14	UMCf	77.0 - 87.0	<0.127	<0.300	<0.278	<0.149	<0.118	0.680 J	<0.160	<0.234	<0.174	----
U4-MW-11I	11/16/2023	N	EM15	UMCf	77.0 - 87.0	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7	<8.70	----
U4-MW-11I	11/16/2023	FD	EM15	UMCf	77.0 - 87.0	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7	<8.70	----
U4-MW-11I	12/13/2023	N	EM16	UMCf	77.0 - 87.0	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	<0.061
U4-MW-11I	12/13/2023	FD	EM16	UMCf	77.0 - 87.0	<0.127	<0.300	<0.278	<0.149	<0.118	0.248 J	<0.160	<0.234	<0.174	<0.061
U4-MW-11I	1/25/2024	N	EM17	UMCf	77.0 - 87.0	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-11I	1/25/2024	FD	EM17	UMCf	77.0 - 87.0	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-11I	2/14/2024	N	EM18	UMCf	77.0 - 87.0	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7	<8.70	----
U4-MW-11I	2/14/2024	FD	EM18	UMCf	77.0 - 87.0	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7	<8.70	----
U4-MW-11I	3/13/2024	N	EM19	UMCf	77.0 - 87.0	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	<0.12
U4-MW-11I	3/13/2024	FD	EM19	UMCf	77.0 - 87.0	<0.127	<0.300	<0.278	<0.149	<0.118	0.194 J	<0.160	<0.234	<0.174	<0.12
U4-MW-11I	6/12/2024	N	EM20	UMCf	77.0 - 87.0	<0.127	<0.300	<0.278	<0.149	<0.118	0.235 J	<0.160	<0.234	<0.174	<0.12 UJ
U4-MW-11I	6/12/2024	FD	EM20	UMCf	77.0 - 87.0	<0.127	<0.300	<0.278	<0.149	<0.118	0.423 J	<0.160	<0.234	<0.174	<0.12 UJ
U4-MW-12D	4/15/2022	N	BL02	UMCf	97.1 - 107.1	<0.127	<0.300	<0.278	<0.149	<0.118	0.752 J	<0.160	<0.234	<0.174	<6.1
U4-MW-12D	9/27/2022	N	EM01	UMCf	97.1 - 107.1	<2.54	<6.00	<5.56	<2.98	<2.36	<3.80	<3.20	<4.68	<3.48	----
U4-MW-12D	10/12/2022	N	EM02	UMCf	97.1 - 107.1	<0.127	<0.300	<0.278	<0.149	<0.118	0.684 J	<0.160	<0.234	<0.174	----
U4-MW-12D	11/2/2022	N	EM03	UMCf	97.1 - 107.1	<1.27	<3.00	<2.78	<1.49	<1.18	<1.90	<1.60	<2.34	<1.74	----
U4-MW-12D	12/7/2022	N	EM04	UMCf	97.1 - 107.1	<0.127	<0.300	<0.278	<0.149	<0.118	0.741 J	<0.160	<0.234	<0.174	<6.1 R
U4-MW-12D	1/12/2023	N	EM05	UMCf	97.1 - 107.1	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4	<17.4	----
U4-MW-12D	2/15/2023	N	EM06	UMCf	97.1 - 107.1	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4	<17.4	----

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 Fatty Acids by AM20GAX/AM23G
						tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride	Xylenes, Total	3-Methylbutanoic Acid
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-12D	3/14/2023	N	EM07	UMCf	97.1 - 107.1	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7	<8.70	<6.1
U4-MW-12D	4/17/2023	N	EM08	UMCf	97.1 - 107.1	<0.635 UJ	<1.50 UJ	<1.39 UJ	<0.745 UJ	<0.590 UJ	<0.950 UJ	<0.800 UJ	<1.17 UJ	<0.870 UJ	----
U4-MW-12D	5/17/2023	N	EM09	UMCf	97.1 - 107.1	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4	<17.4	----
U4-MW-12D	6/16/2023	N	EM10	UMCf	97.1 - 107.1	<0.127	<0.300	<0.278	<0.149	<0.118	<9.50	<0.160	<0.234	<0.174	<12
U4-MW-12D	7/13/2023	N	EM11	UMCf	97.1 - 107.1	<0.127	<0.300	<0.278	<0.149	<0.118	0.192 J	<0.160	<0.234	<0.174	----
U4-MW-12D	8/14/2023	N	EM12	UMCf	97.1 - 107.1	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7	<8.70	----
U4-MW-12D	9/12/2023	N	EM13	UMCf	97.1 - 107.1	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7	<8.70	<3.0
U4-MW-12D	10/17/2023	N	EM14	UMCf	97.1 - 107.1	<0.635	<1.50	<1.39	<0.745	<0.590	<0.950	<0.800	<1.17	<0.870	----
U4-MW-12D	11/15/2023	N	EM15	UMCf	97.1 - 107.1	<0.635	<1.50	<1.39	<0.745	<0.590	<0.950	<0.800	<1.17	<0.870	----
U4-MW-12D	12/12/2023	N	EM16	UMCf	97.1 - 107.1	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	<0.061
U4-MW-12D	1/24/2024	N	EM17	UMCf	97.1 - 107.1	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-12D	2/13/2024	N	EM18	UMCf	97.1 - 107.1	<2.54	<6.00	<5.56	<2.98	<2.36	<3.80	<3.20	<4.68	<3.48	----
U4-MW-12D	3/12/2024	N	EM19	UMCf	97.1 - 107.1	<2.54	<6.00	<5.56	<2.98	<2.36	<3.80	<3.20	<4.68	<3.48	<0.12
U4-MW-12D	6/12/2024	N	EM20	UMCf	97.1 - 107.1	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	<0.12 UJ
U4-MW-12I	4/14/2022	N	BL02	UMCf	76.8 - 86.8	<0.127	<0.300	<0.278	<0.149	<0.118	0.363 J	<0.160	<0.234	<0.174	<6.1
U4-MW-12I	4/14/2022	FD	BL02	UMCf	76.8 - 86.8	<0.127	<0.300	<0.278	<0.149	<0.118	0.314 J	<0.160	<0.234	<0.174	<6.1
U4-MW-12I	9/27/2022	N	EM01	UMCf	76.8 - 86.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-12I	10/12/2022	N	EM02	UMCf	76.8 - 86.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-12I	11/2/2022	N	EM03	UMCf	76.8 - 86.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-12I	12/7/2022	N	EM04	UMCf	76.8 - 86.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	<1.2 R
U4-MW-12I	12/7/2022	FD	EM04	UMCf	76.8 - 86.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-12I	1/13/2023	N	EM05	UMCf	76.8 - 86.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-12I	2/15/2023	N	EM06	UMCf	76.8 - 86.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-12I	3/13/2023	N	EM07	UMCf	76.8 - 86.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	<6.1
U4-MW-12I	4/17/2023	N	EM08	UMCf	76.8 - 86.8	<0.127 UJ	<0.300 UJ	<0.278 UJ	<0.149 UJ	<0.118 UJ	<0.190 UJ	<0.160 UJ	<0.234 UJ	<0.174 UJ	----
U4-MW-12I	5/17/2023	N	EM09	UMCf	76.8 - 86.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-12I	6/16/2023	N	EM10	UMCf	76.8 - 86.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	<3.0
U4-MW-12I	7/11/2023	N	EM11	UMCf	76.8 - 86.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-12I	8/14/2023	N	EM12	UMCf	76.8 - 86.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-12I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	<1.2
U4-MW-12I	10/17/2023	N	EM14	UMCf	76.8 - 86.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-12I	11/16/2023	N	EM15	UMCf	76.8 - 86.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-12I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	<0.061
U4-MW-12I	1/24/2024	N	EM17	UMCf	76.8 - 86.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-12I	2/13/2024	N	EM18	UMCf	76.8 - 86.8	<2.54	<6.00	<5.56	<2.98	<2.36	<3.80	<3.20	<4.68	<3.48	----
U4-MW-12I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	<2.54	<6.00	<5.56	<2.98	<2.36	<3.80	<3.20	<4.68	<3.48	<0.12 UJ
U4-MW-12I	6/13/2024	N	EM20	UMCf	76.8 - 86.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	<0.12
U4-MW-13D	4/14/2022	N	BL02	UMCf	98.2 - 108.2	<0.127	<0.300	<0.278	<0.149	<0.118	0.456 J	<0.160	<0.234	<0.174	<12
U4-MW-13D	9/28/2022	N	EM01	UMCf	98.2 - 108.2	<1.27	<3.00	<2.78	<1.49	<1.18	<1.90	<1.60	<2.34	<1.74	----
U4-MW-13D	10/11/2022	N	EM02	UMCf	98.2 - 108.2	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-13D	11/3/2022	N	EM03	UMCf	98.2 - 108.2	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-13D	12/7/2022	N	EM04	UMCf	98.2 - 108.2	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	<3.0 R
U4-MW-13D	1/12/2023	N	EM05	UMCf	98.2 - 108.2	<2.54	<6.00	<5.56	<2.98	<2.36	<3.80	<3.20	<4.68	<3.48	----

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 Fatty Acids by AM20GAX/AM23G
						tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride	Xylenes, Total	3-Methylbutanoic Acid
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-13D	2/15/2023	N	EM06	UMCf	98.2 - 108.2	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-13D	3/17/2023	N	EM07	UMCf	98.2 - 108.2	<2.54	<6.00	<5.56	<2.98	<2.36	<3.80	<3.20	<4.68	<3.48	<1.2 UJ
U4-MW-13D	4/18/2023	N	EM08	UMCf	98.2 - 108.2	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-13D	5/17/2023	N	EM09	UMCf	98.2 - 108.2	<2.54	<6.00	<5.56	<2.98	<2.36	<3.80	<3.20	<4.68	<3.48	----
U4-MW-13D	6/15/2023	N	EM10	UMCf	98.2 - 108.2	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	<1.2
U4-MW-13D	7/12/2023	N	EM11	UMCf	98.2 - 108.2	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-13D	8/11/2023	N	EM12	UMCf	98.2 - 108.2	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-13D	9/11/2023	N	EM13	UMCf	98.2 - 108.2	<3.18	<7.50	<6.95	<3.73	<2.95	<4.75	<4.00	<5.85	<4.35	<3.0
U4-MW-13D	10/18/2023	N	EM14	UMCf	98.2 - 108.2	<3.18	<7.50	<6.95	<3.73	<2.95	<4.75	<4.00	<5.85	<4.35	----
U4-MW-13D	11/15/2023	N	EM15	UMCf	98.2 - 108.2	<3.18	<7.50	<6.95	<3.73	<2.95	<4.75	<4.00	<5.85	<4.35	----
U4-MW-13D	12/11/2023	N	EM16	UMCf	98.2 - 108.2	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	<0.061
U4-MW-13D	1/23/2024	N	EM17	UMCf	98.2 - 108.2	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-13D	2/12/2024	N	EM18	UMCf	98.2 - 108.2	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-13D	3/11/2024	N	EM19	UMCf	98.2 - 108.2	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	<0.12
U4-MW-13D	6/13/2024	N	EM20	UMCf	98.2 - 108.2	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	<0.12
U4-MW-13I	4/14/2022	N	BL02	UMCf	77.1 - 87.1	<0.127	<0.300	<0.278	<0.149	<0.118	0.291 J	<0.160	<0.234	<0.174	<3.0
U4-MW-13I	9/28/2022	N	EM01	UMCf	77.1 - 87.1	<0.127	<0.300	0.395 J	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-13I	10/10/2022	N	EM02	UMCf	77.1 - 87.1	<0.127	5.02	0.914 J	<0.149	<0.118	1.49	<0.160	<0.234	<0.174	----
U4-MW-13I	11/3/2022	N	EM03	UMCf	77.1 - 87.1	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-13I	12/6/2022	N	EM04	UMCf	77.1 - 87.1	<0.635 UJ	<1.50 UJ	<1.39 UJ	<0.745 UJ	<0.590 UJ	<0.950 UJ	<0.800 UJ	<1.17 UJ	<0.870 UJ	<1.2
U4-MW-13I	1/12/2023	N	EM05	UMCf	77.1 - 87.1	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-13I	2/14/2023	N	EM06	UMCf	77.1 - 87.1	<0.635	<1.50	<1.39	<0.745	<0.590	<0.950	<0.800	<1.17	<0.870	----
U4-MW-13I	3/16/2023	N	EM07	UMCf	77.1 - 87.1	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	<0.61
U4-MW-13I	4/19/2023	N	EM08	UMCf	77.1 - 87.1	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-13I	5/17/2023	N	EM09	UMCf	77.1 - 87.1	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-13I	6/15/2023	N	EM10	UMCf	77.1 - 87.1	<0.127	<0.300	<0.278	<0.149	<0.118 UJ	<0.190	<0.160	<0.234	<0.174	<0.61
U4-MW-13I	7/12/2023	N	EM11	UMCf	77.1 - 87.1	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-13I	8/11/2023	N	EM12	UMCf	77.1 - 87.1	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-13I	9/11/2023	N	EM13	UMCf	77.1 - 87.1	<3.18	<7.50	<6.95	<3.73	<2.95	<4.75	<4.00	<5.85	<4.35	<30.4
U4-MW-13I	10/17/2023	N	EM14	UMCf	77.1 - 87.1	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-13I	11/15/2023	N	EM15	UMCf	77.1 - 87.1	<0.127	<0.300	<0.278	<0.149	<0.118	0.200 J	<0.160	<0.234	<0.174	----
U4-MW-13I	12/11/2023	N	EM16	UMCf	77.1 - 87.1	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	<0.061
U4-MW-13I	1/23/2024	N	EM17	UMCf	77.1 - 87.1	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-13I	2/12/2024	N	EM18	UMCf	77.1 - 87.1	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-13I	3/11/2024	N	EM19	UMCf	77.1 - 87.1	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	<0.12
U4-MW-13I	6/13/2024	N	EM20	UMCf	77.1 - 87.1	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	<0.12
U4-MW-14D	4/13/2022	N	BL02	UMCf	97.3 - 107.3	<0.127	<0.300	<0.278	<0.149	<0.118	0.295 J	<0.160	<0.234	<0.174	----
U4-MW-14D	12/6/2022	N	EM04	UMCf	97.3 - 107.3	<0.635 UJ	<1.50 UJ	<1.39 UJ	<0.745 UJ	<0.590 UJ	<0.950 UJ	<0.800 UJ	<1.17 UJ	<0.870 UJ	----
U4-MW-14D	3/16/2023	N	EM07	UMCf	97.3 - 107.3	<0.635	<1.50	<1.39	<0.745	<0.590	<0.950	<0.800	<1.17	<0.870	----
U4-MW-14D	6/15/2023	N	EM10	UMCf	97.3 - 107.3	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-14D	9/14/2023	N	EM13	UMCf	97.3 - 107.3	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-14D	12/15/2023	N	EM16	UMCf	97.3 - 107.3	<0.127	<0.300	0.400 J	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-14D	3/13/2024	N	EM19	UMCf	97.3 - 107.3	<0.127	<0.300	0.540 J	<0.149	<0.118	<0.190	<0.160	<0.234	<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 Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Fatty Acids by AM20GAX/AM23G
						tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride	Xylenes, Total	3-Methylbutanoic Acid
						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	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-14I	4/14/2022	N	BL02	UMCf	77.3 - 87.3	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-14I	12/6/2022	N	EM04	UMCf	77.3 - 87.3	<0.635 UJ	<1.50 UJ	<1.39 UJ	<0.745 UJ	<0.590 UJ	<0.950 UJ	<0.800 UJ	<1.17 UJ	<0.870 UJ	----
U4-MW-14I	3/16/2023	N	EM07	UMCf	77.3 - 87.3	<0.635	<1.50	<1.39	<0.745	<0.590	<0.950	<0.800	<1.17	<0.870	----
U4-MW-14I	6/15/2023	N	EM10	UMCf	77.3 - 87.3	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-14I	9/14/2023	N	EM13	UMCf	77.3 - 87.3	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-14I	12/14/2023	N	EM16	UMCf	77.3 - 87.3	<0.127	<0.300	0.903 J	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-14I	3/13/2024	N	EM19	UMCf	77.3 - 87.3	<0.127	<0.300	0.750 J	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-14I	6/14/2024	N	EM20	UMCf	77.3 - 87.3	<0.127	<0.300	<0.278	<0.149	<0.118 UJ	<0.190	<0.160	<0.234	<0.174	----
U4-MW-15D	4/13/2022	N	BL02	UMCf	96.0 - 106.0	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-15D	12/5/2022	N	EM04	UMCf	96.0 - 106.0	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-15D	3/20/2023	N	EM07	UMCf	96.0 - 106.0	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-15D	6/14/2023	N	EM10	UMCf	96.0 - 106.0	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-15D	9/13/2023	N	EM13	UMCf	96.0 - 106.0	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-15D	12/12/2023	N	EM16	UMCf	96.0 - 106.0	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-15D	3/12/2024	N	EM19	UMCf	96.0 - 106.0	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-15D	6/14/2024	N	EM20	UMCf	96.0 - 106.0	<0.127	<0.300	<0.278	<0.149	<0.118 UJ	<0.190	<0.160	<0.234	<0.174	----
U4-MW-15DD	4/13/2022	N	BL02	UMCf	120.3 - 130.3	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-15DD	12/5/2022	N	EM04	UMCf	120.3 - 130.3	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-15DD	3/15/2023	N	EM07	UMCf	120.3 - 130.3	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-15DD	6/13/2023	N	EM10	UMCf	120.3 - 130.3	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-15DD	9/14/2023	N	EM13	UMCf	120.3 - 130.3	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-15DD	12/13/2023	N	EM16	UMCf	120.3 - 130.3	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-15DD	3/12/2024	N	EM19	UMCf	120.3 - 130.3	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-15DD	6/14/2024	N	EM20	UMCf	120.3 - 130.3	<0.127	<0.300	<0.278	<0.149	<0.118 UJ	<0.190	<0.160	<0.234	<0.174	----
U4-MW-15I	4/12/2022	N	BL02	UMCf	76.8 - 86.8	<0.127	<0.300	<0.278	<0.149	<0.118	0.215 J	<0.160	<0.234	<0.174	----
U4-MW-15I	12/5/2022	N	EM04	UMCf	76.8 - 86.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-15I	3/17/2023	N	EM07	UMCf	76.8 - 86.8	<2.54	<6.00	<5.56	<2.98	<2.36	<3.80	<3.20	<4.68	<3.48	----
U4-MW-15I	6/14/2023	N	EM10	UMCf	76.8 - 86.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-15I	9/12/2023	N	EM13	UMCf	76.8 - 86.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-15I	12/12/2023	N	EM16	UMCf	76.8 - 86.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-15I	3/12/2024	N	EM19	UMCf	76.8 - 86.8	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7	<8.70	----
U4-MW-15I	6/17/2024	N	EM20	UMCf	76.8 - 86.8	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7	<8.70	----
U4-MW-15S	4/13/2022	N	BL02	UMCf	54.8 - 64.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-15S	12/5/2022	N	EM04	UMCf	54.8 - 64.8	<3.18	<7.50	<6.95	<3.73	<2.95	<4.75	<4.00	<5.85	<4.35	----
U4-MW-15S	3/13/2023	N	EM07	UMCf	54.8 - 64.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-15S	6/13/2023	N	EM10	UMCf	54.8 - 64.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-15S	9/14/2023	N	EM13	UMCf	54.8 - 64.8	<0.127	<0.300	61.9	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-15S	12/11/2023	N	EM16	UMCf	54.8 - 64.8	<0.254	<0.600	13.7	<0.298	<0.236	<0.380	<0.320	<0.468	<0.348	----
U4-MW-15S	3/12/2024	N	EM19	UMCf	54.8 - 64.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-15S	3/26/2024	N	EM19	UMCf	54.8 - 64.8	<0.127	<0.300	2.54	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-15S	6/14/2024	N	EM20	UMCf	54.8 - 64.8	<0.127	<0.300	<0.278	<0.149	<0.118 UJ	<0.190	<0.160	<0.234	<0.174	----
U4-MW-16D	4/11/2022	N	BL02	UMCf	96.8 - 106.8	<0.127	<0.300	<0.278	<0.149	<0.118	0.534 J	<0.160	<0.234	<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 Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Organic Compounds by SW8260B	Volatile Fatty Acids by AM20GAX/AM23G
						tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride	Xylenes, Total	3-Methylbutanoic Acid
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U4-MW-16D	12/5/2022	N	EM04	UMCf	96.8 - 106.8	<0.127	<0.300	<0.278	<0.149	<0.118	0.260 J	<0.160	<0.234	<0.174	----
U4-MW-16D	3/14/2023	N	EM07	UMCf	96.8 - 106.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-16D	6/13/2023	N	EM10	UMCf	96.8 - 106.8	<0.127	<0.300	<0.278	<0.149	<0.118	0.418 J	<0.160	<0.234	<0.174	----
U4-MW-16D	9/15/2023	N	EM13	UMCf	96.8 - 106.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-16D	12/14/2023	N	EM16	UMCf	96.8 - 106.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-16D	3/14/2024	N	EM19	UMCf	96.8 - 106.8	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7	<8.70	----
U4-MW-16D	6/17/2024	N	EM20	UMCf	96.8 - 106.8	<6.35	<15.0	<13.9	<7.45	<5.90	<9.50	<8.00	<11.7	<8.70	----
U4-MW-16DD	4/12/2022	N	BL02	UMCf	120.8 - 130.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-16DD	12/5/2022	N	EM04	UMCf	120.8 - 130.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-16DD	3/15/2023	N	EM07	UMCf	120.8 - 130.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-16DD	6/13/2023	N	EM10	UMCf	120.8 - 130.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-16DD	9/14/2023	N	EM13	UMCf	120.8 - 130.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-16DD	12/13/2023	N	EM16	UMCf	120.8 - 130.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-16DD	3/14/2024	N	EM19	UMCf	120.8 - 130.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-16DD	6/17/2024	N	EM20	UMCf	120.8 - 130.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-16I	4/11/2022	N	BL02	UMCf	77.0 - 87.0	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-16I	12/5/2022	N	EM04	UMCf	77.0 - 87.0	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-16I	12/5/2022	FD	EM04	UMCf	77.0 - 87.0	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-16I	3/13/2023	N	EM07	UMCf	77.0 - 87.0	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-16I	3/13/2023	FD	EM07	UMCf	77.0 - 87.0	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-16I	6/12/2023	N	EM10	UMCf	77.0 - 87.0	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-16I	6/12/2023	FD	EM10	UMCf	77.0 - 87.0	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-16I	9/11/2023	N	EM13	UMCf	77.0 - 87.0	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-16I	9/11/2023	FD	EM13	UMCf	77.0 - 87.0	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-16I	12/11/2023	N	EM16	UMCf	77.0 - 87.0	<0.127	<0.300	<0.278	<0.149	<0.118	0.456 J	<0.160	<0.234	<0.174	----
U4-MW-16I	12/11/2023	FD	EM16	UMCf	77.0 - 87.0	<0.127	<0.300	<0.278	<0.149	<0.118	0.446 J	<0.160	<0.234	<0.174	----
U4-MW-16I	3/11/2024	N	EM19	UMCf	77.0 - 87.0	<0.127	<0.300	<0.278	<0.149	<0.118	0.367 J	<0.160	<0.234	<0.174	----
U4-MW-16I	3/11/2024	FD	EM19	UMCf	77.0 - 87.0	<0.127	<0.300	<0.278	<0.149	<0.118	0.276 J	<0.160	<0.234	<0.174	----
U4-MW-16I	6/18/2024	N	EM20	UMCf	77.0 - 87.0	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-16I	6/18/2024	FD	EM20	UMCf	77.0 - 87.0	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-16S	4/12/2022	N	BL02	UMCf	54.8 - 64.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-16S	4/12/2022	FD	BL02	UMCf	54.8 - 64.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-16S	12/6/2022	N	EM04	UMCf	54.8 - 64.8	<0.127 UJ	<0.300 UJ	<0.278 UJ	<0.149 UJ	<0.118 UJ	<0.190 UJ	<0.160 UJ	<0.234 UJ	<0.174 UJ	----
U4-MW-16S	3/15/2023	N	EM07	UMCf	54.8 - 64.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-16S	6/13/2023	N	EM10	UMCf	54.8 - 64.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-16S	9/11/2023	N	EM13	UMCf	54.8 - 64.8	<0.127	<0.300	0.417 J	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-16S	12/11/2023	N	EM16	UMCf	54.8 - 64.8	<0.127	<0.300	10.2	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-16S	3/11/2024	N	EM19	UMCf	54.8 - 64.8	<0.127	<0.300	7.85	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-MW-16S	6/17/2024	N	EM20	UMCf	54.8 - 64.8	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-SLMW	11/10/2022	N	EM03		-	<0.635	<1.50	<1.39	<0.745	<0.590	<0.950	<0.800	<1.17	<0.870	----
U4-T3	10/13/2022	N	EM02		-	<0.127	<0.300	<0.278	<0.149	<0.118	0.525 J	<0.160	<0.234	<0.174	----
U4-T3	11/3/2022	N	EM03		-	<0.127	0.440 J	<0.278	<0.149	<0.118	0.746 J	<0.160	<0.234	<0.174	----
U4-T3	12/6/2022	N	EM04		-	<2.54 UJ	<6.00 UJ	<5.56 UJ	<2.98 UJ	<2.36 UJ	<3.80 UJ	<3.20 UJ	<4.68 UJ	<3.48 UJ	----

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 Fatty Acids by AM20GAX/AM23G
						tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride	Xylenes, Total	3-Methylbutanoic Acid
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L
U4-T3	1/9/2023	N	EM05		-	<0.127	0.353 J	<0.278	<0.149	<0.118	0.584 J	<0.160	<0.234	<0.174	----
U4-T3	2/13/2023	N	EM06		-	<12.7	<30.0	<27.8	<14.9	<11.8	<19.0	<16.0	<23.4	<17.4	----
U4-T3	3/13/2023	N	EM07		-	<3.18	<7.50	<6.95	<3.73	<2.95	<4.75	<4.00	<5.85	<4.35	----
U4-T3	4/19/2023	N	EM08		-	<0.127	<0.300	<0.278	<0.149	<0.118	0.210 J	<0.160	<0.234	<0.174	----
U4-T3	5/18/2023	N	EM09		-	<0.127	<0.300	<0.278	<0.149	<0.118	0.339 J	<0.160	<0.234	<0.174	----
U4-T3	6/12/2023	N	EM10		-	<0.127	<0.300	<0.278	<0.149	<0.118	0.289 J	<0.160	<0.234	<0.174	----
U4-T3	7/11/2023	N	EM11		-	<0.127	<0.300	<0.278	<0.149	<0.118	0.385 J	<0.160	<0.234	<0.174	----
U4-T3	8/10/2023	N	EM12		-	<0.127	<0.300	<0.278	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-T3	9/11/2023	N	EM13		-	<0.127	<0.300	1.83	<0.149	<0.118	<0.190	<0.160	<0.234	<0.174	----
U4-T3	10/16/2023	N	EM14		-	<3.18	<7.50	<6.95	<3.73	<2.95	<4.75	<4.00	<5.85	<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 sample quantitation limit.

-- 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.

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

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	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
						Acetic Acid	Butyric Acid	Formic Acid	Hexanoic Acid	i-Hexanoic Acid	Lactic Acid	Pentanoic Acid	Propionic Acid	Pyruvic Acid
						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	----	----	----	----	----	----	----	----	----
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	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	----	----	----	----	----	----	----	----	----
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	<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	----	----	----	----	----	----	----	----	----
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	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	----	----	----	----	----	----	----	----	----
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	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	735	448	65.3	14.1	<0.11	2,990	29.6	432	17.8
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-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-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-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	----	----	----	----	----	----	----	----	----

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

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	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
						Acetic Acid	Butyric Acid	Formic Acid	Hexanoic Acid	i-Hexanoic Acid	Lactic Acid	Pentanoic Acid	Propionic Acid	Pyruvic Acid
						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	----	----	----	----	----	----	----	----	----
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-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-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-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	----	----	----	----	----	----	----	----	----

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

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	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
						Acetic Acid	Butyric Acid	Formic Acid	Hexanoic Acid	i-Hexanoic Acid	Lactic Acid	Pentanoic Acid	Propionic Acid	Pyruvic Acid
						mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
U4-E-03D	10/16/2023	N	EM14	UMCf	95.1 - 110.1	----	----	----	----	----	----	----	----	----
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-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-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-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-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-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-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-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-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	----	----	----	----	----	----	----	----	----

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

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	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
						Acetic Acid	Butyric Acid	Formic Acid	Hexanoic Acid	i-Hexanoic Acid	Lactic Acid	Pentanoic Acid	Propionic Acid	Pyruvic Acid
						mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
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-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-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-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-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-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	----	----	----	----	----	----	----	----	----
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	----	----	----	----	----	----	----	----	----

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

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	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
						Acetic Acid	Butyric Acid	Formic Acid	Hexanoic Acid	i-Hexanoic Acid	Lactic Acid	Pentanoic Acid	Propionic Acid	Pyruvic Acid
						mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
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-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-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-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	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	----	----	----	----	----	----	----	----	----
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	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	----	----	----	----	----	----	----	----	----
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	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	----	----	----	----	----	----	----	----	----
U4-MW-02D	11/15/2023	N	EM15	UMCf	95.0 - 110.0	----	----	----	----	----	----	----	----	----
U4-MW-02D	12/14/2023	N	EM16	UMCf	95.0 - 110.0	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	----	----	----	----	----	----	----	----	----
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	<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	<0.12	<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	----	----	----	----	----	----	----	----	----

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

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	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
						Acetic Acid	Butyric Acid	Formic Acid	Hexanoic Acid	i-Hexanoic Acid	Lactic Acid	Pentanoic Acid	Propionic Acid	Pyruvic Acid
						mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
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	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	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	----	----	----	----	----	----	----	----	----
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	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	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	----	----	----	----	----	----	----	----	----
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	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	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	----	----	----	----	----	----	----	----	----
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	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	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	----	----	----	----	----	----	----	----	----
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	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	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	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	162	107	<0.11	<0.24	<0.11	28.6	<0.17	46.5	7.2 J
U4-MW-03D	4/20/2022	N	BL02	UMCf	96.6 - 106.6	----	----	----	----	----	----	----	----	----
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	----	----	----	----	----	----	----	----	----

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

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	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
						Acetic Acid	Butyric Acid	Formic Acid	Hexanoic Acid	i-Hexanoic Acid	Lactic Acid	Pentanoic Acid	Propionic Acid	Pyruvic Acid
						mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
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-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-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-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-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	----	----	----	----	----	----	----	----	----
U4-MW-04D	6/19/2024	N	EM20	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	----	----	----	----	----	----	----	----	----

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

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	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
						Acetic Acid	Butyric Acid	Formic Acid	Hexanoic Acid	i-Hexanoic Acid	Lactic Acid	Pentanoic Acid	Propionic Acid	Pyruvic Acid
						mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
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-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	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	----	----	----	----	----	----	----	----	----
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	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	----	----	----	----	----	----	----	----	----
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	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	----	----	----	----	----	----	----	----	----
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	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	----	----	----	----	----	----	----	----	----
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	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	61.9	60.9	<0.11	<0.24	<0.11	45.0	9.4 J	53.4	<0.12
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	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	----	----	----	----	----	----	----	----	----
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	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	----	----	----	----	----	----	----	----	----
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	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	----	----	----	----	----	----	----	----	----
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	264	87.8	<0.055	<0.058	<0.056	154 J+	<0.056	61.0	35.3
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	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	30.4	46.0	<0.11	<0.24	<0.11	71.2	<0.17	41.0	<0.12
U4-MW-06D	4/19/2022	N	BL02	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----

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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 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
						Acetic Acid	Butyric Acid	Formic Acid	Hexanoic Acid	i-Hexanoic Acid	Lactic Acid	Pentanoic Acid	Propionic Acid	Pyruvic Acid
						mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
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-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-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	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	----	----	----	----	----	----	----	----	----
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	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	----	----	----	----	----	----	----	----	----
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	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	----	----	----	----	----	----	----	----	----
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	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	----	----	----	----	----	----	----	----	----
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	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	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-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	----	----	----	----	----	----	----	----	----
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	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	----	----	----	----	----	----	----	----	----

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

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	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
						Acetic Acid	Butyric Acid	Formic Acid	Hexanoic Acid	i-Hexanoic Acid	Lactic Acid	Pentanoic Acid	Propionic Acid	Pyruvic Acid
						mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
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	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	----	----	----	----	----	----	----	----	----
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	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	----	----	----	----	----	----	----	----	----
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	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	----	----	----	----	----	----	----	----	----
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	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	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-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-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-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-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	----	----	----	----	----	----	----	----	----

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

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	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
						Acetic Acid	Butyric Acid	Formic Acid	Hexanoic Acid	i-Hexanoic Acid	Lactic Acid	Pentanoic Acid	Propionic Acid	Pyruvic Acid
						mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
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-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-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-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-09S	4/14/2022	N	BL02	UMCf	55.3 - 65.3	----	----	----	----	----	----	----	----	----
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	----	----	----	----	----	----	----	----	----

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

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	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
						Acetic Acid	Butyric Acid	Formic Acid	Hexanoic Acid	i-Hexanoic Acid	Lactic Acid	Pentanoic Acid	Propionic Acid	Pyruvic Acid
						mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
U4-MW-09S	6/13/2024	N	EM20	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-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-11D	4/15/2022	N	BL02	UMCf	97.4 - 107.4	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	----	----	----	----	----	----	----	----	----
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	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	----	----	----	----	----	----	----	----	----
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	<25	<12	670 J+	<12	<11	<11	<11	<11	<12
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	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	----	----	----	----	----	----	----	----	----
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	<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	----	----	----	----	----	----	----	----	----
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	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	----	----	----	----	----	----	----	----	----
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	<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	<0.12 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
U4-MW-11I	4/14/2022	N	BL02	UMCf	77.0 - 87.0	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	----	----	----	----	----	----	----	----	----
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	----	----	----	----	----	----	----	----	----

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

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	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
						Acetic Acid	Butyric Acid	Formic Acid	Hexanoic Acid	i-Hexanoic Acid	Lactic Acid	Pentanoic Acid	Propionic Acid	Pyruvic Acid
						mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
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	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	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	----	----	----	----	----	----	----	----	----
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	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	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	----	----	----	----	----	----	----	----	----
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	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	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	----	----	----	----	----	----	----	----	----
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	<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	<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	----	----	----	----	----	----	----	----	----
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	<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	<0.12	<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	----	----	----	----	----	----	----	----	----
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	<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	<0.12	<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	<0.12 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	<0.12 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-12D	4/15/2022	N	BL02	UMCf	97.1 - 107.1	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	----	----	----	----	----	----	----	----	----
U4-MW-12D	10/12/2022	N	EM02	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----
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	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	----	----	----	----	----	----	----	----	----
U4-MW-12D	2/15/2023	N	EM06	UMCf	97.1 - 107.1	----	----	----	----	----	----	----	----	----

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

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	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
						Acetic Acid	Butyric Acid	Formic Acid	Hexanoic Acid	i-Hexanoic Acid	Lactic Acid	Pentanoic Acid	Propionic Acid	Pyruvic Acid
						mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
U4-MW-12D	3/14/2023	N	EM07	UMCf	97.1 - 107.1	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	----	----	----	----	----	----	----	----	----
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	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	----	----	----	----	----	----	----	----	----
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	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	----	----	----	----	----	----	----	----	----
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	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	----	----	----	----	----	----	----	----	----
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	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	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-12I	4/14/2022	N	BL02	UMCf	76.8 - 86.8	<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	<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	----	----	----	----	----	----	----	----	----
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	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	----	----	----	----	----	----	----	----	----
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	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	----	----	----	----	----	----	----	----	----
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	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	----	----	----	----	----	----	----	----	----
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	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	----	----	----	----	----	----	----	----	----
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	<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	----	----	----	----	----	----	----	----	----
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	<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	<0.12	<0.058	<0.11	<0.24	<0.11	40.5 J	<0.17	<0.053	<0.12
U4-MW-13D	4/14/2022	N	BL02	UMCf	98.2 - 108.2	27 J	<12	490	<12	<11	<11	<11	<11	<12
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	----	----	----	----	----	----	----	----	----
U4-MW-13D	12/7/2022	N	EM04	UMCf	98.2 - 108.2	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	----	----	----	----	----	----	----	----	----

Table 2
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 Unit 4 Source Area Bioremediation Treatability Study

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	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
						Acetic Acid	Butyric Acid	Formic Acid	Hexanoic Acid	i-Hexanoic Acid	Lactic Acid	Pentanoic Acid	Propionic Acid	Pyruvic Acid
						mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
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	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	----	----	----	----	----	----	----	----	----
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	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	----	----	----	----	----	----	----	----	----
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	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	----	----	----	----	----	----	----	----	----
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	<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	----	----	----	----	----	----	----	----	----
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	<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	<0.12	<0.058	<0.11	<0.24	<0.11	14.1 J	<0.17	<0.053	<0.12
U4-MW-13I	4/14/2022	N	BL02	UMCf	77.1 - 87.1	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	----	----	----	----	----	----	----	----	----
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	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	----	----	----	----	----	----	----	----	----
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	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	----	----	----	----	----	----	----	----	----
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	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	----	----	----	----	----	----	----	----	----
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	<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	----	----	----	----	----	----	----	----	----
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	<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	----	----	----	----	----	----	----	----	----
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	<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	<0.12	<0.058	<0.11	<0.24	<0.11	31.9 J	<0.17	<0.053	<0.12
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	----	----	----	----	----	----	----	----	----

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

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	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
						Acetic Acid	Butyric Acid	Formic Acid	Hexanoic Acid	i-Hexanoic Acid	Lactic Acid	Pentanoic Acid	Propionic Acid	Pyruvic Acid
						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	----	----	----	----	----	----	----	----	----
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-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-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-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-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	----	----	----	----	----	----	----	----	----
U4-MW-16D	4/11/2022	N	BL02	UMCf	96.8 - 106.8	----	----	----	----	----	----	----	----	----

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

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	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
						Acetic Acid	Butyric Acid	Formic Acid	Hexanoic Acid	i-Hexanoic Acid	Lactic Acid	Pentanoic Acid	Propionic Acid	Pyruvic Acid
						mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
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-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-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-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-SLMW	11/10/2022	N	EM03		-	----	----	----	----	----	----	----	----	----
U4-T3	10/13/2022	N	EM02		-	----	----	----	----	----	----	----	----	----
U4-T3	11/3/2022	N	EM03		-	----	----	----	----	----	----	----	----	----
U4-T3	12/6/2022	N	EM04		-	----	----	----	----	----	----	----	----	----

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

Well	Sample Date	QC Type	Event	Screened Lithology	Screened Interval	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
						Acetic Acid	Butyric Acid	Formic Acid	Hexanoic Acid	i-Hexanoic Acid	Lactic Acid	Pentanoic Acid	Propionic Acid	Pyruvic Acid
						mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
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 sample quantitation limit.
- 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.