Date: January 15, 2021

Via Email

Mr. Brian Farrier
U.S. EPA Region IV
Superfund Remedial Section C
61 Forsyth Street, S.W.
Atlanta, GA 30103-8960
farrier.brian@epa.gov

Subject: **Annual Report for 2020;** and
Monthly Progress Report for the Period **December 1, 2020 – December 31, 2020**
Armstrong World Industries Superfund Site Operable Unit 2, Macon, GA
Administrative Settlement Agreement and Order on Consent for RI/FS
Docket Number: CERCLA-04-2018-3759

Dear Mr. Farrier:

This Annual Report and Monthly Progress Report is submitted on behalf of the Respondents[1] in satisfaction of the annual progress reporting requirements under Task 8.2 of the USEPA Region 4 Statement of Work (SOW) for a Remedial Investigation, Feasibility Study and Baseline Risk Assessment, and the monthly progress reporting requirements under paragraph 50 of the USEPA Region 4 Administrative Settlement Agreement and Order on Consent (AOC) for Remedial Investigation/Feasibility Study, U.S. EPA Region 4, Docket No. CERCLA-04-2018-3759: Armstrong World Industries (AWI) Superfund Site, Operable Unit 2 (OU2), Macon, Macon-Bibb County, Georgia.

RI/FS Field Work (Phase I)

A Remedial Investigation / Feasibility Study Work Plan (RI/FS Work Plan) and associated documents were approved by the USEPA in September 2019. The RI/FS Work Plan specified plans for sampling various media: soil, sediment, surface water, groundwater and fish. During pre-mobilization site visits it was determined that the actual locations of ditches running through the lowland area were different than what were depicted on historical figures used in the Work

[1] Those parties listed in Appendix C of the of the Administrative Settlement Agreement and Order on Consent for Remedial Investigation/Feasibility Study, U.S. EPA Region 4, Docket No. CERCLA-04-2018-3759.

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Plan. Accordingly, a technical memorandum ("Revised Decision Units and Sample Locations") was submitted in November 2019 proposing revised sampling locations. The memorandum was approved by the USEPA on December 16, 2019.

The field work associated with the approved plans was conducted in three phases. Phase 1 consisted of the work outlined in the RI/FS Work Plan (with the aforementioned adjustments of sampling locations). Phases 2 and 3 were follow-on work based on the results of earlier phases. A summary of the Phase 1 field work by medium is discussed below. Tables 1 through 7 (all tables are in Attachment 1) include the analytical results for all media (except fish) by constituent group. A summary of the fish tissue results is shown in Table 8.

Groundwater sampling was conducted in December 2019. Twenty-one wells at OU2 were sampled and analyzed for the constituents specified in the RI/FS Work Plan. The locations of the monitoring wells are provided in Figure 1. All figures are included in Attachment 2.

Soil sampling and sediment sampling were conducted using incremental sampling methodology (ISM). ISM is a structured composite sampling and processing protocol, which consists of collecting multiple small aliquots across a region. These aliquots are composited into one sample that is representative of the entire area. The region for which a decision will be made based on the ISM sampling is defined as a Decision Unit (DU). A DU may be comprised of one or more Sampling Units (SUs) for which ISM samples are collected. Should a DU consist of a single SU, the DU and the SU are one in the same. The sampling design consisted of collecting three replicate samples for each SU. Each replicate consisted of 30 aliquots. Thus, a total of 90 aliquots were collected in each SU providing representative coverage across the SU.

A total of 21 soil DUs were sampled as part of Phase 1. The 20 DUs located at OU2 were sampled in January 2020. The other DU (DU-18) was designated as the soil background location off-site. Access was not granted for the location proposed in the RI/FS Work Plan. An alternate background location was approved by the USEPA in March 2020 and the location was sampled in April 2020. The locations of the soil DUs are shown on Figure 2.

Sediment was collected in ditches at OU2, in Rocky Creek at OU2, and in Rocky Creek upstream and downstream, of OU2. Sediment sampling of 15 units[2] was conducted in February and March 2020. The sediment DUs are shown on Figure 3.

Surface water sampling consisted of collecting ten discrete grab samples of surface water at designated locations. Surface water was collected in the ditches at OU2, in Rocky Creek at OU2, and in Rocky Creek upstream and downstream of OU2. The surface water samples were collected in March 2020 and their locations are shown on Figure 4.

The landfills were investigated on multiple occasions to determine if there were any ongoing seeps emanating from the landfills. Only one consistent seep was observed. It was sampled in March 2020 and the location is shown on Figure 4.

[2] There were 12 sediment DUs, but DU-7 consisted of 4 SUs, called DU-7A, DU-7B, DU-7C, and DU-7D

Fish collection began in December 2019, but was suspended due to colder weather resulting in low catch success. Fish collection resumed in April and continued through June 2020. A technical memorandum ("Fish Compositing Strategy for Evaluating Risk to Human Health") outlining a strategy for fish compositing was submitted on June 15, 2020 and was approved by the USEPA on August 31, 2020 at which time the fish samples were sent to the testing laboratory. The zones where fish collection occurred are shown on Figure 5.

RI/FS Field Work – Addendum 1 (Phase II)

After evaluating the results of the Phase I field work, it was determined that additional soil sampling and groundwater monitoring wells were warranted. RI/FS Work Plan Addendum #1 was submitted on July 21, 2020 and revised on August 7, 2020 in response to comments from the USEPA. The USPEA approved the revised addendum in a letter dated August 31, 2020. The field work was conducted in September 2020 and involved additional soil ISM sampling and groundwater monitoring well installation and sampling.

Four new soil ISM DUs were designed and sampled (as shown on Figure 2). Three of the DUs were along Rocky Creek to investigate the nature and extent of constituents downgradient of the previous DUs: two south and one east of the previously sampled DUs. The location of the other DU was north of previously sampled DU-7 to further evaluate possible transport mechanisms.

Three shallow groundwater monitoring wells were installed east of the landfills to provide additional information on the nature and extent of constituents in groundwater. The locations of the monitoring wells are shown on Figure 1.

RI/FS Field Work – Addendum 2 (Phase III)

The results from the soil sampling conducted in Phase 2 were evaluated. It was determined that the sampling along Rocky Creek was sufficient for characterizing the downgradient condition; however, the new DU near DU-7 did not provide an explanation for the elevated condition observed in DU-7. In response, an RI/FS Work Plan Addendum #2 was developed outlining additional soil sampling within DU-7. The addendum was submitted on December 2, 2020 and approved by the USEPA on December 3, 2020. The field work was executed in mid-December 2020 and included discrete surface soil sampling across the entire unit with more focused sample collection in low lying areas where accumulation may occur. The laboratory results are pending.

Ecological Risk Evaluation and Field Work (Ecological)

Initial review of the data collected from Phase I indicated that conducting a full baseline ecological risk assessment (BERA) would be necessary for the site. The BERA process consists of eight sequential steps. USEPA agreed in a July 2020 virtual meeting to embark on a streamlined and collaborative process to address elements of the BERA process in a timely and efficient manner. Accordingly, numerous e-mails, phone calls and virtual meetings were held to move the process along and to enable conducting the field work related to the ecological risk assessment before winter.

On August 7, 2020, Technical Memorandum #3 ("Revised Screening Level Ecological Risk Assessment (SLERA) and Refined Screening (Step 3a)") was submitted to the USEPA. This document incorporated the newly collected data and resulted in a list of constituents of potential ecological concern (COPECs).

An ecological risk Problem Formulation (Step 3b) was sent to USEPA on August 20, 2020. After further dialogue with USEPA, a revised Problem Formulation was submitted on September 23, 2020. A technical memorandum "Abbreviated Conceptual Work Plan and Sampling Plan for the Baseline Ecological Risk Assessment" (Step 4 – Study Design) was also submitted to USEPA on September 23, 2020. The Study Design outlined proposed field work to be conducted to support the ERA. These items were discussed further with the USEPA in a virtual meeting on September 24, 2020. In an e-mail sent by USEPA on September 25, 2020, the USEPA agreed that the field work outlined in the Study Design should proceed.

The field work described in the Study Design was conducted in September through November, 2020. Elements of the field work included terrestrial food/prey item collection, aquatic food/prey item collection, soil and sediment sampling, benthic macroinvertebrate community assessment, surface water sampling, and pore water sampling. Analytical results from the field work except the prey tissue analysis were received in December, 2020. The results, primarily by medium (surface water, pore water, sediment, soil/sediment characteristics, and benthic survey) are provided in Tables 9 through 13. The locations where these samples were collected are shown in Figure 6.

A summary of the prey items collected and a proposed strategy for compositing and analysis were sent to the USEPA on November 30. 2020 and discussed with the USEPA during the virtual meeting on December 3, 2020. After further dialogue, USEPA, in an e-mail sent on December 4, 2020, indicated general agreement with the compositing strategy. Accordingly, the prey items were sent to the laboratory for analysis. The laboratory is currently analyzing the samples.

Meetings

Several meetings were held with the USEPA throughout the year. On May 27, 2020 a meeting was held with Brian Farrier (USEPA) to informally discuss the fish collection strategy, which resulted in submission of the technical memorandum concerning fish collection referenced previously.

A virtual meeting was held with USEPA personnel on July 8, 2020 to discuss preliminary results, the proposed fish collection strategy, and additional proposed soil and groundwater sampling. The Work Plan Addendum #1 was submitted in response to these discussions.

On August 24, 2020, a virtual meeting was held with USEPA personnel to discuss the ecological risk assessment process. Specifically, the assessment endpoints, ecological problem formulation and Study Design, and COPECs were discussed.

A virtual meeting was held with USEPA and Georgia EPD personnel on December 3, 2020 to discuss the status of the project. Specifically, the following topics were discussed: results of the sampling conducted as part of the Work Plan Addendum #1, proposed additional sampling in soil DU-7 (Work Plan Addendum #2), ecological prey item collection strategy, and project schedule.

Problems Encountered in 2020

- An access agreement for the property where the soil background sampling was initially anticipated was denied. An alternate location was found and sampled.
- The soil, sediment, surface water and fish sampling efforts were complicated by weather (i.e., rainfall) with many of the areas being inundated with water, making sampling more difficult, time consuming, and hazardous.
- A sewer line that runs through OU-2 spilled sewage. The Macon Water Authority was notified and promptly responded providing appropriate repairs to the pipeline.
- The sampling effort was further complicated by the coronavirus pandemic. Work continued through the pandemic and staff follow a formalized COVID-19 policy for all aspects of work, including social distancing as part of the protocol for field work.

Activities Conducted December 1, 2020 through December 31, 2020

- A virtual meeting was held with USEPA and Georgia EPD personnel on December 3.
- Work Plan Addendum #2 for additional soil sampling was submitted on December 2 and the field work was conducted in mid-December, 2020.
- The prey tissue samples were to the laboratory for analysis.

Activities Planned for January and February 2021

- Receive and evaluate laboratory results from the sampling outlined in Work Plan Addendum #2.
- Receive and evaluate prey tissue laboratory results.

Results of Sampling Received in December 2020

- Validata, LLC performed a Stage 3 Manual Validation of the analytical results received thus far for the ecological field work (i.e., surface water, pore water, sediment, and soil results). No results were rejected. The data were successfully loaded into EPA Region 4's EQuIS database.
- The results of the benthic community survey are included as Attachment 3.

Should you have any questions or comments regarding this progress report or any other aspect of this project, please do not hesitate to contact me.

Sincerely,

Joseph Nicolette
Project Coordinator
Environmental Planning Specialists, Inc., an affiliate of Montrose Environmental Group

Attachments

Attachment 1: Tables
Attachment 2: Figures
Attachment 3: Benthic Community Survey Results

cc:

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ATTACHMENT 1
TABLES

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Table 1. RI Phase I/II: Polychlorinated Biphenyls (PCBs) Aroclors

Location	Date	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268
Groundwater (µg/L)										
MW-01	12/17/2019	<0.028 J	<0.4 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J
MW-02	12/18/2019	<0.028 J	<0.4 J	0.63 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J
MW-02B	12/19/2019	<0.028	<0.4	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
MW-03	12/19/2019	<0.028 J	<0.4 J	<0.028 J	0.055 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J
MW-04	12/18/2019	<0.028 J	<0.4 J	0.078 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J
MW-04B	12/18/2019	<0.028 J	<0.4 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J
MW-05	12/19/2019	<0.028 J	<0.4 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J
MW-07	12/20/2019	<0.028	<0.4	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
MW-08	12/20/2019	<0.028 J	<0.4 J	1.1 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J
MW-09	12/18/2019	<0.028 J	<0.4 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J
MW-10	12/18/2019	<0.028 J	<0.4 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J
MW-12	12/17/2019	<0.028	<0.4	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
MW-13	12/17/2019	<0.028 J	<0.4 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J
MW-14	12/17/2019	<0.028 J	<0.4 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J
MW-15	12/18/2019	<0.028 J	<0.4 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J
MW-16	12/19/2019	<0.028 J	<0.4 J	<0.028 J	0.17 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J
MW-17	12/20/2019	<0.028 J	<0.4 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J
MW-18L	12/19/2019	<0.028 J	<0.4 J	<0.028 J	0.04 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J
MW-20	12/18/2019	<0.028 J	<0.4 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J
MW-21	12/18/2019	<0.028 J	<0.4 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J
MW-79	12/16/2019	<0.028 J	<0.4 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J	<0.028 J
Surface Water (µg/L)										
SW-1	3/31/2020	<0.028J	<0.028	<0.028	0.038 J	<0.028	0.05	<0.028	<0.028	<0.028
SW-2	3/31/2020	<0.028	<0.028	<0.028	0.057 J	<0.028	0.063 J	<0.028	<0.028	<0.028
SW-3	3/31/2020	<0.028J	<0.028J	<0.028J	<0.028J	<0.028J	<0.028J	<0.028J	<0.028J	<0.028J
SW-4	4/1/2020	<0.04J	<0.028J	<0.028J	<0.028J	<0.039J	<0.2J	<0.028J	<0.028J	<0.046J
SW-5	3/30/2020	<0.031J	<0.028J	<0.053J	<0.058J	<0.038J	<0.062J	<0.028J	<0.028J	<0.028J
SW-6	3/30/2020	<0.028J	<0.028J	<0.028J	<0.028J	<0.028J	<0.028J	<0.028J	<0.028J	<0.028J
SW-7	3/30/2020	<0.028J	<0.028J	<0.028J	<0.028J	<0.028J	<0.028J	<0.028J	<0.028J	<0.028J
SW-8	3/30/2020	<0.028J	<0.028J	<0.028J	<0.028J	<0.028J	<0.028J	<0.028J	<0.028J	<0.028J
SW-9	3/30/2020	<0.028J	<0.028J	<0.047J	<0.028J	<0.028J	<0.028J	<0.028J	<0.028J	<0.028J
SW-10	3/30/2020	<0.028J	<0.028J	<0.028J	<0.028J	<0.028J	<0.028J	<0.028J	<0.028J	<0.028J
Seep (µg/L)										
Seep-1	3/25/2020	<0.028J	<0.028J	<0.028J	0.086 J	<0.028J	0.13 J	<0.028J	<0.028J	<0.028J

Table 1. RI Phase I/II: Polychlorinated Biphenyls (PCBs) Aroclors

Location	Date	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268
Soil ISM Decision Units (mg/kg)										
DU-1-SO-1	1/27/2020	<0.03	<0.03	<0.03	<0.03	0.59	0.58	0.093	<0.03	<0.03
DU-1-SO-2	1/27/2020	<0.031	<0.031	<0.031	<0.031	1	0.99	0.14	<0.031	<0.031
DU-1-SO-3	1/27/2020	<0.03	<0.03	<0.03	<0.03	0.79	0.83	0.13	<0.03	<0.03
DU-2-SO-1	1/16/2020	<0.015	<0.015	<0.015	<0.015	0.053	0.18	0.19	<0.015	<0.015
DU-2-SO-2	1/16/2020	<0.015	<0.015	<0.015	<0.015	0.027	0.11	0.82	<0.015	<0.015
DU-2-SO-3	1/16/2020	<0.016	<0.016	<0.016	0.027	<0.016	0.13	0.17	<0.016	<0.016
DU-3-SO-1	1/27/2020	<0.03	<0.03	<0.03	<0.03	1.9	1.7	0.17	<0.03	<0.03
DU-3-SO-2	1/27/2020	<0.31	<0.31	<0.31	<0.31	15	14	1.4	<0.31	<0.31
DU-3-SO-3	1/27/2020	<0.32	<0.32	<0.32	<0.32	14	14	1.4	<0.32	<0.32
DU-4-SO-1	1/9/2020	<0.15	<0.15	<0.15	<0.15	4.5	4.9	0.88	<0.15	<0.15
DU-4-SO-2	1/9/2020	<0.15	<0.15	<0.15	<0.15	4.6	4.9	0.81	<0.15	<0.15
DU-4-SO-3	1/9/2020	<0.15	<0.15	<0.15	<0.15	3.2	4.1	0.72	<0.15	<0.15
DU-5-SO-1	1/30/2020	<0.29	<0.29	<0.29	<0.29	17	16	1.7	<0.29	<0.29
DU-5-SO-2	1/30/2020	<0.3	<0.3	<0.3	<0.3	19	18	1.9	<0.3	<0.3
DU-5-SO-3	1/30/2020	<0.3	<0.3	<0.3	<0.3	19	19	2	<0.3	<0.3
DU-6-SO-1	1/29/2020	<0.15	<0.15	<0.15	<0.15	7.5	6.6	0.81	<0.15	<0.15
DU-6-SO-2	1/29/2020	<0.15	<0.15	<0.15	<0.15	3.4	3.2	0.42	<0.15	<0.15
DU-6-SO-3	1/29/2020	<0.15	<0.15	<0.15	<0.15	3.7	4	0.45	<0.15	<0.15
DU-7-SO-1	1/7/2020	<0.29	<0.29	<0.29	<0.29	26	29	3.2	<0.29	<0.29
DU-7-SO-2	1/7/2020	<0.6	<0.6	<0.6	<0.6	47	43	4.8	<0.6	<0.6
DU-7-SO-3	1/7/2020	<0.58	<0.58	<0.58	<0.58	31	26	2.6	<0.58	<0.58
DU-8-SO-1	1/8/2020	<0.029	<0.029	<0.029	<0.029	1	1.4	0.21	<0.029	<0.029
DU-8-SO-2	1/8/2020	<0.029	<0.029	<0.029	<0.029	1.5	1.7	0.27	<0.029	<0.029
DU-8-SO-3	1/8/2020	<0.029	<0.029	<0.029	<0.029	2.1	1.9 J	0.23	<0.029	<0.029
DU-9-SO-1	1/9/2020	<0.15	<0.15	<0.15	<0.15	8.7	8.3	0.92	<0.15	<0.15
DU-9-SO-2	1/9/2020	<0.15	<0.15	<0.15	<0.15	7.5	7.5	0.9	<0.15	<0.15
DU-9-SO-3	1/9/2020	<0.15	<0.15	<0.15	<0.15	7.3	7	0.9	<0.15	<0.15
DU-10-SO-1	1/8/2020	<0.029	<0.029	<0.029	<0.029	0.5	0.5	0.076	<0.029	<0.029
DU-10-SO-2	1/8/2020	<0.029	<0.029	<0.029	<0.029	0.46	0.56	0.1	<0.029	<0.029
DU-10-SO-3	1/8/2020	<0.03	<0.03	<0.03	<0.03	0.43	0.56	0.10	<0.03	<0.03
DU-11-SO-1	1/30/2020	<0.3	<0.3	<0.3	<0.3	7.5	6.6	0.84	<0.3	<0.3
DU-11-SO-2	1/30/2020	<0.3	<0.3	<0.3	<0.3	4.9	5.2	0.65	<0.3	<0.3
DU-11-SO-3	1/30/2020	<0.29	<0.29	<0.29	<0.29	3.1	3.1	0.51	<0.29	<0.29
DU-12-SO-1	1/28/2020	<0.16	<0.16	<0.16	<0.16	5.8	6.9	1.1	<0.16	<0.16
DU-12-SO-2	1/28/2020	<0.15	<0.15	<0.15	<0.15	6.1	6.7	0.88	<0.15	<0.15
DU-12-SO-3	1/28/2020	<0.15	<0.15	<0.15	<0.15	4.9	6.2	0.84	<0.15	<0.15

Table 1. RI Phase I/II: Polychlorinated Biphenyls (PCBs) Aroclors

Location	Date	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268
DU-13-SO-1	1/29/2020	<0.16	<0.16	<0.16	<0.16	6.1	6.1	0.87	<0.16	<0.16
DU-13-SO-2	1/29/2020	<0.15	<0.15	<0.15	<0.15	4.6	5.2	0.8	<0.15	<0.15
DU-13-SO-3	1/29/2020	<0.15	<0.15	<0.15	<0.15	6.9	7	0.97	<0.15	<0.15
DU-14-SO-1	1/17/2020	<0.016	<0.016	<0.016	<0.016	1.1	1.4	0.23 J	<0.016	<0.016
DU-14-SO-2	1/17/2020	<0.015	<0.015	<0.015	<0.015	1.1	1.3	0.21	<0.015	<0.015
DU-14-SO-3	1/17/2020	<0.015	<0.015	<0.015	<0.015	0.94	1.3	0.22	<0.015	<0.015
DU-15-SO-1	1/28/2020	<0.16	<0.16	<0.16	<0.16	3.2	4.1	0.64	<0.16	<0.16
DU-15-SO-2	1/28/2020	<0.15	<0.15	<0.15	<0.15	3.1	3.9	0.6	<0.15	<0.15
DU-15-SO-3	1/28/2020	<0.15	<0.15	<0.15	<0.15	4	5	0.82	<0.15	<0.15
DU-16-SO-1	1/10/2020	<0.016 J	<0.016	<0.016	<0.016	0.75	1.2	0.39 J	<0.016	<0.016
DU-16-SO-2	1/10/2020	<0.016 J	<0.016	<0.016	<0.016	0.83	1.3	0.38	<0.016	<0.016
DU-16-SO-3	1/10/2020	<0.017	<0.017 J	<0.017	<0.017	0.97	1.7	0.42	<0.017	<0.017
DU-17-SO-1	1/9/2020	<0.0029	<0.0029	<0.0029	<0.0029	<0.0029	<0.0029	<0.0029	<0.0029	<0.0029
DU-17-SO-2	1/9/2020	<0.0029	<0.0029	<0.0029	<0.0029	<0.0029	<0.0029	<0.0029	<0.0029	<0.0029
DU-17-SO-3	1/9/2020	<0.0029	<0.0029	<0.0029	<0.0029	<0.0029	<0.0029	<0.0029	<0.0029	<0.0029
DU-18-SO-1	4/17/2020	<0.003 J	<0.003	<0.003	<0.003	<0.003	<0.0047	<0.0046	<0.004	<0.0035
DU-18-SO-2	4/17/2020	<0.0029	<0.0029	<0.0029	<0.0029	<0.0029	<0.0094	<0.0075	<0.0056	<0.0029
DU-18-SO-3	4/17/2020	<0.0029	<0.0029	<0.0029	<0.0029	<0.0029	<0.0054	<0.0056	<0.0048	<0.0029
ARMREM-SO-1	1/16/2020	<0.033	<0.033	<0.033	<0.033	4.4	4.1	0.44	<0.033	<0.033
ARMREM-SO-2	1/16/2020	<0.032	<0.032	<0.032	<0.032	4.6	5.4	0.9	<0.032	<0.032
ARMREM-SO-3	1/16/2020	<0.029	<0.029	<0.029	<0.029	1.9	2.9	0.43	<0.029	<0.029
EXPLDEMO-SO-1	1/10/2020	<0.015 J	<0.015	<0.015	<0.015	0.36	0.6	0.17	<0.015	<0.015
EXPLDEMO-SO-2	1/10/2020	<0.059 J	<0.059	<0.059	0.14	<0.059	0.66	<0.16	<0.16	<0.12
EXPLDEMO-SO-3	1/10/2020	<0.073 J	<0.073	<0.073	0.26 J	<0.073	0.82	0.21	<0.073	<0.073
FMNOL-SO-1	1/15/2020	<0.015	<0.015	<0.015	<0.015	0.12	0.15	0.084 J	<0.015	<0.015
FMNOL-SO-2	1/15/2020	<0.015	<0.015	<0.015	<0.015	0.057	0.15	0.11	<0.015	<0.015
FMNOL-SO-3	1/15/2020	<0.03	<0.03	<0.03	<0.03	<0.03	0.13	0.1	<0.03	<0.03
DU-19-SO-1	9/15/2020	<0.033	<0.033	<0.033	<0.033	0.87	1.3	0.11	<0.033	<0.033
DU-19-SO-2	9/15/2020	<0.034	<0.034	<0.034	<0.034	0.75	1	0.085	<0.034	<0.034
DU-19-SO-3	9/15/2020	<0.031	<0.031	<0.031	<0.031	2.7	2.4	0.18	<0.031	<0.031
DU-20-SO-1	9/15/2020	<0.031	<0.031	<0.031	<0.031	4.1	5.8	0.54	<0.031	<0.031
DU-20-SO-2	9/15/2020	<0.18	<0.18	<0.18	<0.18	7.6	8	0.81	<0.18	<0.18
DU-20-SO-3	9/15/2020	<0.038	<0.038	<0.038	<0.038	3.9	5.3	0.53	<0.038	<0.038
DU-21-SO-1	9/16/2020	<0.042	<0.042	<0.042	<0.042	2.6	2.9 J	0.62	<0.042	<0.042
DU-21-SO-2	9/16/2020	<0.041	<0.041	<0.041	<0.041	2.2	3	0.48	<0.041	<0.041
DU-21-SO-3	9/16/2020	<0.037	<0.037	<0.037	<0.037	2.8	3.70	0.53	<0.037	<0.037
DU-22-SO-1	9/16/2020	<0.0029	<0.0029	<0.0029	0.012	<0.0029	0.077	0.052	<0.0029	<0.0029
DU-22-SO-2	9/16/2020	<0.0029	<0.0029	<0.0029	0.017	<0.0029	0.12	0.14	<0.0029	<0.0029
DU-22-SO-3	9/16/2020	<0.0029	<0.0029	<0.0029	9.0E-03 J	<0.0029	0.071	0.027	<0.0029	<0.0029

Table 1. RI Phase I/II: Polychlorinated Biphenyls (PCBs) Aroclors

Location	Date	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268
Sediment ISM Decision Units (mg/kg)										
DU-1-SD-1	2/7/2020	<0.029	<0.029	<0.029	<0.029	1.4	0.67 J	0.1	<0.029	<0.029
DU-1-SD-2	2/7/2020	<0.029	<0.029	<0.029	<0.029	0.48	0.3	0.05	<0.029	<0.029
DU-1-SD-3	2/7/2020	<0.029	<0.029	<0.029	<0.029	0.48	0.28	0.085	<0.029	<0.029
DU-2-SD-1	2/6/2020	<0.0029	<0.0029	<0.0029	<0.0029	0.0062	0.01 J	0.0067	<0.0029	<0.0029
DU-2-SD-2	2/6/2020	<0.0029	<0.0029	<0.0029	<0.0029	0.0094	0.012 J	0.0068	<0.0029	<0.0029
DU-2-SD-3	2/6/2020	<0.0029	<0.0029	<0.0029	<0.0029	0.011	0.019	0.0067	<0.0029	<0.0029
DU-3-SD-1	2/5/2020	<0.029	<0.029	<0.029	<0.029	1.3	0.9	0.12	<0.029	<0.029
DU-3-SD-2	2/5/2020	<0.029	<0.029	<0.029	<0.029	1.6	1.4	0.19	<0.029	<0.029
DU-3-SD-3	2/5/2020	<0.029	<0.029	<0.029	<0.029	2.6	1.9	0.3	<0.029	<0.029
DU-4-SD-1	2/4/2020	<0.029	<0.029	<0.029	<0.029	3.4	1.7	0.21	<0.029	<0.029
DU-4-SD-2	2/4/2020	<0.029	<0.029	<0.029	<0.029	2.2	0.94	0.15	<0.029	<0.029
DU-4-SD-3	2/4/2020	<0.029	<0.029	<0.029	<0.029	3	1.4	0.18	<0.029	<0.029
DU-5-SD-1	2/5/2020	<0.031	<0.031	<0.031	<0.031	2.1	1.5	0.3	<0.031	<0.031
DU-5-SD-2	2/5/2020	<0.03	<0.03	<0.03	<0.03	1.6	1.4	0.27	<0.03	<0.03
DU-5-SD-3	2/5/2020	<0.03	<0.03	<0.03	<0.03	1.9	1.7	0.25	<0.03	<0.03
DU-6-SD-1	2/3/2020	<0.03	<0.03	<0.03	<0.03	1.8	1.1	0.15	<0.03	<0.03
DU-6-SD-2	2/3/2020	<0.031	<0.031	<0.031	<0.031	1.2	1.2	0.19	<0.031	<0.031
DU-6-SD-3	2/3/2020	<0.031	<0.031	<0.031	<0.031	1.7	1.3	0.2	<0.031	<0.031
DU-7A-SD-1	3/18/2020	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
DU-7A-SD-2	3/18/2020	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
DU-7A-SD-3	3/18/2020	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
DU-7B-SD-1	2/11/2020	<0.029	<0.029	<0.029	<0.029	3.4	1.2 J	0.15	<0.029	<0.029
DU-7B-SD-2	2/11/2020	<0.029	<0.029	<0.029	<0.029	2.7	0.65 J	0.076	<0.029	<0.029
DU-7B-SD-3	2/11/2020	<0.03	<0.03	<0.03	<0.03	2.9	0.87 J	0.095	<0.03	<0.03
DU-7C-SD-1	4/1/2020	<0.015	<0.015	<0.015	0.64	<0.015	0.67	0.072	<0.015	<0.015
DU-7C-SD-2	4/1/2020	<0.015	<0.015	<0.015	<0.015	1.1	<0.015	0.064	<0.015	<0.015
DU-7C-SD-3	4/1/2020	<0.015	<0.015	<0.015	0.15	<0.015	0.44	0.077	<0.015	<0.015
DU-7D-SD-1	3/17/2020	<0.059	<0.059	<0.059	3.2	<0.059	3.8	0.37	<0.059	<0.059
DU-7D-SD-2	3/17/2020	<0.029	<0.029	<0.029	1.8	<0.029	1.7 J	0.22	<0.029	<0.029
DU-7D-SD-3	3/17/2020	<0.06	<0.06	<0.06	2.3 J	<0.06	2.5	0.25	<0.06	<0.06
DU-8-SD-1	3/16/2020	<0.015	<0.015	<0.015	0.13	<0.015	0.18	0.019	<0.015	<0.015
DU-8-SD-2	3/16/2020	<0.015	<0.015	<0.015	0.24	<0.015	0.33	0.051	<0.015	<0.015
DU-8-SD-3	3/16/2020	<0.015	<0.015	<0.015	0.22	<0.015	0.25	0.026	<0.015	<0.015
DU-9-SD-1	3/19/2020	<0.015	<0.015	<0.015	0.54 J	<0.015	0.4	0.04	<0.015	<0.015
DU-9-SD-2	3/19/2020	<0.015	<0.015	<0.015	0.66 J	<0.015	0.4 J	0.057	<0.015	<0.015
DU-9-SD-3	3/19/2020	<0.015	<0.015	<0.015	0.45 J	<0.015	0.31 J	0.038	<0.015	<0.015

Table 1. RI Phase I/II: Polychlorinated Biphenyls (PCBs) Aroclors

Location	Date	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268
DU-10-SD-1	3/20/2020	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
DU-10-SD-2	3/20/2020	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
DU-10-SD-3	3/20/2020	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
DU-11-SD-1	3/26/2020	<0.0047	<0.0029	<0.0087	<0.004	<0.0037	<0.0063	0.0076	<0.0029	<0.0029
DU-11-SD-2	3/26/2020	<0.0036	<0.0029	<7.3E-03	<0.0042	<0.0039	<0.0055	0.004	<0.0029	<0.0029
DU-11-SD-3	3/26/2020	<0.003	<0.003	<0.003	<0.003	<0.003	<0.0039	0.0033 J	<0.003	<0.003
DU-12-SD-1	3/27/2020	<0.0029 J	<0.0029	<0.0029	<0.0029	0.011 J	<0.019	0.017 J	<0.0029	<0.0029
DU-12-SD-2	3/27/2020	<0.0029	<0.0029	<0.0029	0.0091	<0.0029	<0.014	0.014	<0.0029	<0.0029
DU-12-SD-3	3/27/2020	<0.0052	<0.003	<6.8E-03	<0.0052	<0.0051	<0.011	0.012	<0.003	<0.003

J: Data validation flag indicating result is estimated, but may be used for site evaluation and risk assessment purposes.

Table 2. RI Phase I/II: Polychlorinated Biphenyls (PCBs) Congeners (only detected congeners shown)

Location	Date	1	101	105	110	114	118	119	123	128	138	141	149	153	156	157	158	167	168	169
Groundwater (µg/L)																				
MW-01	12/17/2019	<0.039	<0.0019	<0.0012	<0.0024	<0.00088	<0.0011	<0.0015	<0.0021	<0.0011	<0.0016	<0.0017	<0.0014	<0.0012	<0.0019	<0.0019	<0.0015	<0.0028	<0.0014	<0.0018
MW-02	12/18/2019	0.94	0.0066	0.0015	0.0058	<0.00088	0.0013	<0.0015	<0.0021	<0.0011	<0.0016	<0.0017	<0.0014	<0.0012	<0.0019	<0.0019	<0.0015	<0.0028	<0.0014	<0.0018
MW-02B	12/19/2019	<0.039	<0.0019	<0.0012	<0.0024	<0.00088	<0.0011	<0.0015	<0.0021	<0.0011	<0.0016	<0.0017	<0.0014	<0.0012	<0.0019	<0.0019	<0.0015	<0.0028	<0.0014	<0.0018
MW-03	12/19/2019	<0.039	<0.0019	<0.0012	<0.0024	<0.00088	<0.0011	<0.0015	<0.0021	<0.0011	<0.0016	<0.0017	<0.0014	<0.0012	<0.0019	<0.0019	<0.0015	<0.0028	<0.0014	<0.0018
MW-04	12/18/2019	0.11	<0.0019	<0.0012	<0.0024	<0.00088	<0.0011	<0.0015	<0.0021	<0.0011	<0.0016	<0.0017	<0.0014	<0.0012	<0.0019	<0.0019	<0.0015	<0.0028	<0.0014	<0.0018
MW-04B	12/18/2019	<0.039	<0.0019	<0.0012	<0.0024	<0.00088	<0.0011	<0.0015	<0.0021	<0.0011	<0.0016	<0.0017	<0.0014	<0.0012	<0.0019	<0.0019	<0.0015	<0.0028	<0.0014	<0.0018
MW-05	12/19/2019	<0.039	<0.0019	<0.0012	<0.0024	<0.00088	<0.0011	<0.0015	<0.0021	<0.0011	<0.0016	<0.0017	<0.0014	<0.0012	<0.0019	<0.0019	<0.0015	<0.0028	<0.0014	<0.0018
MW-07	12/20/2019	<0.039	<0.0019	<0.0012	<0.0024	<0.00088	<0.0011	<0.0015	<0.0021	<0.0011	<0.0016	<0.0017	<0.0014	<0.0012	<0.0019	<0.0019	<0.0015	<0.0028	<0.0014	<0.0018
MW-08	12/20/2019	0.16 J	0.003 J	<0.0012	0.0054	<0.00088	0.0032 J	<0.0015	<0.0021	<0.0011	<0.0016	<0.0017	<0.0014	<0.0012	<0.0019	<0.0019	<0.0015	<0.0028	<0.0014	<0.0018
MW-09	12/18/2019	<0.039	<0.0019	<0.0012	<0.0024	<0.00088	<0.0011	<0.0015	<0.0021	<0.0011	<0.0016	<0.0017	<0.0014	<0.0012	<0.0019	<0.0019	<0.0015	<0.0028	<0.0014	<0.0018
MW-10	12/18/2019	<0.039	<0.0019	<0.0012	<0.0024	<0.00088	<0.0011	<0.0015	<0.0021	<0.0011	<0.0016	<0.0017	<0.0014	<0.0012	<0.0019	<0.0019	<0.0015	<0.0028	<0.0014	<0.0018
MW-12	12/17/2019	<0.039	<0.0019	<0.0012	<0.0024	<0.00088	<0.0011	<0.0015	<0.0021	<0.0011	<0.0016	<0.0017	<0.0014	<0.0012	<0.0019	<0.0019	<0.0015	<0.0028	<0.0014	<0.0018
MW-13	12/17/2019	<0.039	<0.0019	<0.0012	<0.0024	<0.00088	<0.0011	<0.0015	<0.0021	<0.0011	<0.0016	<0.0017	<0.0014	<0.0012	<0.0019	<0.0019	<0.0015	<0.0028	<0.0014	<0.0018
MW-14	12/17/2019	<0.039	<0.0019	<0.0012	<0.0024	<0.00088	<0.0011	<0.0015	<0.0021	<0.0011	<0.0016	<0.0017	<0.0014	<0.0012	<0.0019	<0.0019	<0.0015	<0.0028	<0.0014	<0.0018
MW-15	12/18/2019	0.1 J	<0.0019	<0.0012	<0.0024	<0.00088	<0.0011	<0.0015	<0.0021	<0.0011	<0.0016	<0.0017	<0.0014	<0.0012	<0.0019	<0.0019	<0.0015	<0.0028	<0.0014	<0.0018
MW-16	12/19/2019	<0.039	0.0067	<0.0012	0.0048	<0.00088	0.0014 J	<0.0015	<0.0021	<0.0011	<0.0016	<0.0017	<0.0014	<0.0012	<0.0019	<0.0019	<0.0015	<0.0028	<0.0014	<0.0018
MW-17	12/20/2019	<0.039	<0.0019	<0.0012	<0.0024	<0.00088	<0.0011	<0.0015	<0.0021	<0.0011	<0.0016	<0.0017	<0.0014	<0.0012	<0.0019	<0.0019	<0.0015	<0.0028	<0.0014	<0.0018
MW-18L	12/19/2019	0.26	<0.0019	<0.0012	<0.0024	<0.00088	<0.0011	<0.0015	<0.0021	<0.0011	<0.0016	<0.0017	<0.0014	<0.0012	<0.0019	<0.0019	<0.0015	<0.0028	<0.0014	<0.0018
MW-20	12/18/2019	<0.039	<0.0019	<0.0012	<0.0024	<0.00088	<0.0011	<0.0015	<0.0021	<0.0011	<0.0016	<0.0017	<0.0014	<0.0012	<0.0019	<0.0019	<0.0015	<0.0028	<0.0014	<0.0018
MW-21	12/18/2019	<0.039	<0.0019	<0.0012	<0.0024	<0.00088	<0.0011	<0.0015	<0.0021	<0.0011	<0.0016	<0.0017	<0.0014	<0.0012	<0.0019	<0.0019	<0.0015	<0.0028	<0.0014	<0.0018
MW-79	12/16/2019	<0.039	<0.0019	<0.0012	<0.0024	<0.00088	<0.0011	<0.0015	<0.0021	<0.0011	<0.0016	<0.0017	<0.0014	<0.0012	<0.0019	<0.0019	<0.0015	<0.0028	<0.0014	<0.0018
Surface Water (µg/L)																				
SW-1	3/31/2020	<0.039	<0.0019	<0.0012	<0.0024	<8.8E-04	<0.0011	<0.0015	<0.0021	<0.0011	<0.0016	<0.0017	<0.0014	<0.0012	<0.0019	<0.0019	<0.0015	<0.0028	<0.0014	<0.0018
SW-2	3/31/2020	<0.039	<0.0019	<0.0012	0.0035	<8.8E-04	0.0018	<0.0015	<0.0021	<0.0011	<0.0016	<0.0017	<0.0014	<0.0012	<0.0019	<0.0019	<0.0015	<0.0028	<0.0014	<0.0018
SW-3	3/31/2020	<0.039	<0.0019	<0.0012	<0.0024	<8.8E-04	<0.0011	<0.0015J	<0.0021	<0.0011	<0.0016	<0.0017	<0.0014	<0.0012	<0.0019	<0.0019	<0.0015	<0.0028	<0.0014	<0.0018
SW-4	4/1/2020	<0.039J	0.0026 J	<0.0012J	<0.0024J	<8.8E-04J	<0.0011J	<0.0015J	<0.0021J	<0.0011J	<0.0016J	<0.0017J	<0.0014J	<0.0012J	<0.0019J	<0.0019J	<0.0015J	<0.0028J	<0.0014J	<0.0018J
SW-5	3/30/2020	<0.039	<0.0019	<0.0012	<0.0024	<8.8E-04	<0.0011	<0.0015	<0.0021	<0.0011	<0.0016	<0.0017	<0.0014	<0.0012	<0.0019	<0.0019	<0.0015	<0.0028	<0.0014	<0.0018
SW-6	3/30/2020	<0.039	<0.0019	<0.0012	<0.0024	<8.8E-04	<0.0011	<0.0015	<0.0021	<0.0011	<0.0016	<0.0017	<0.0014	<0.0012	<0.0019	<0.0019	<0.0015	<0.0028	<0.0014	<0.0018
SW-7	3/30/2020	<0.039	<0.0019	<0.0012	<0.0024	<8.8E-04	<0.0011	<0.0015	<0.0021	<0.0011	<0.0016	<0.0017	<0.0014	<0.0012	<0.0019	<0.0019	<0.0015	<0.0028	<0.0014	<0.0018
SW-8	3/30/2020	<0.039	<0.0019	<0.0012	<0.0024	<8.8E-04	<0.0011	<0.0015	<0.0021	<0.0011	<0.0016	<0.0017	<0.0014	<0.0012	<0.0019	<0.0019	<0.0015	<0.0028	<0.0014	<0.0018
SW-9	3/30/2020	<0.039	<0.0019	<0.0012	<0.0024	<8.8E-04	<0.0011	<0.0015	<0.0021	<0.0011	<0.0016	<0.0017	<0.0014	<0.0012	<0.0019	<0.0019	<0.0015	<0.0028	<0.0014	<0.0018
SW-10	3/30/2020	<0.039	<0.0019	<0.0012	<0.0024	<8.8E-04	<0.0011	<0.0015	<0.0021	<0.0011	<0.0016	<0.0017	<0.0014	<0.0012	<0.0019	<0.0019	<0.0015	<0.0028	<0.0014	<0.0018
Seep (µg/L)																				
Seep-1	3/25/2020	<0.039	0.011	0.0064 J	0.013	<8.8E-04	0.009300001	<0.0015	<0.0025	<0.0011	0.0034 J	<0.0017	<0.0016	<0.0012	<0.0019	<0.0019	<0.0015	<0.0028	<0.0014	<0.0018
Soil ISM Decision Units (mg/kg)																				
DU-1-SO-1	1/27/2020	<0.068	0.082	0.043 J	0.089 J	<0.0039	0.098	<0.0052	<0.0039	0.0034 J	0.029 J	<0.0031	0.017 J	0.025 J	<0.0039	<0.0042	<0.0024	<0.0052	<0.0045	<0.0065 J
DU-1-SO-2	1/27/2020	<0.063	0.13 J	0.074	0.13	<0.0036	0.14	<0.0048	<8.3E-03	0.0052	0.04	<0.0029	0.025	0.032 J	<0.0036	<0.0039	<0.0022	<0.0048	<0.0042	<0.006
DU-1-SO-3	1/27/2020	<0.071	0.11	0.068	0.13 J	<0.0041	0.15	<0.0054	<0.0076	0.0077	0.049	<0.0033	0.029	0.04	<0.0041	<0.0044	<0.0025	<0.0054	<0.0047	<6.8E-03
DU-2-SO-1	1/16/2020	<0.0026 J	0.0088	0.011	0.013	<0.00015	0.018	0.0038	<0.0017	0.0076	0.023	0.0032	0.014	0.024	0.0028 J	0.00069 J	<0.0038	<0.0056	0.0057	<0.00025
DU-2-SO-2	1/16/2020	<0.0028 J	0.0072	0.0041	0.0074	<0.00016	0.007	<0.00022	<0.00086	0.0058	0.02	0.0038	0.016	0.026	0.0014 J	<0.00018	<0.0023	<0.0054	<0.0048	<0.00027
DU-2-SO-3	1/16/2020	<0.0028 J	<8.6E-03	0.0086	0.013	<0.00016	0.016	0.012	<0.0015	0.0073	0.022	0.0026	0.014	0.021	0.0025 J	8.8E-04 J	<0.0036	<0.0072	<0.0044	<0.00044
DU-3-SO-1	1/27/2020	<0.067	2.2	1.4	1.9 J	0.12	1.9	0.096	<0.36	0.19	0.56	0.098	0.52	0.5 J	0.078	0.012 J	0.067 J	<0.17	<0.0045	<0.0064
DU-3-SO-2	1/27/2020	<0.072	2.7	1.5	2.2 J	<0.027	2	9.2E-02 J	<0.38	0.19	0.59	0.1 J	0.56	0.53 J	0.082	0.012 J	0.063 J	<0.19	<0.0048	<6.8E-03
DU-3-SO-3	1/27/2020	<0.066	1.7	1.1	1.8 J	0.068	1.6	7.3E-02 J	<0.29	0.14	0.45	7.3E-02 J	0.42	0.39 J	0.063	<0.0045	0.05 J	<0.15	<0.0044	<0.0063
DU-4-SO-1	1/9/2020	<0.2 J	0.31 J	0.3 J	0.36 J	<0.022 J	0.49 J	<0.015 J	<0.062 J	<0.027 J	0.14 J	0.029 J	0.23 J	0.22 J	<7.9E-03 J	<8.6E-03 J	0.027 J	<0.035 J	<0.0092 J	<0.014 J
DU-4-SO-2	1/9/2020	<0.15	0.5	0.32	0.45 J	<0.0082	0.52	0.021	<0.068	0.048	0.15	0.021 J	0.14 J	0.17	0.012 J	<0.0089	<0.0092	<0.029	<9.5E-03 J	<0.014
DU-4-SO-3	1/9/2020	<0.14	0.4	0.25	0.38 J	<7.9E-03	0.45	0.017	<0.048	0.046	0.14	0.021 J	0.13 J	0.16	8.8E-03 J	<0.0085 J	<0.0048	<0.027	<0.0092 J	<0.014
DU-5-SO-1	1/30/2020	<0.33 J	2.5	1.6	2.7	<0.019	2.5	0.067	<0.44	0.22	0.81	0.097	0.61	0.61 J	0.089	<0.021	8.0E-02 J	<0.18	<0.022 J	<0.031 J
DU-5-SO-2	1/30/2020	<0.32	2.4	1.8	2.8	<0.019	2.5	0.11	<0.47	0.25	0.87	0.11 J	0.61	0.6 j	0.095	<0.023	6.9E-02 J	<0.18	<0.022	<0.031
DU-5-SO-3	1/30/2020	<0.31	2.9	2.1	3.2	<0.018	2.9	0.062 J	<0.55	0.27	0.94	0.12 J	0.71	0.68 J	0.088	<0.044	9.9E-02 J	<0.2	<0.021	<0.03
DU-6-SO-1	1/29/2020	<0.15	0.73	0.54	0.87	<8.6E-03	0.99	0.037	<0.13	0.09	0.3	0.036	0.24	0.24 J	0.015 J	<9.3E-03	0.015 J	<0.061	<0.01	<0.015
DU-6-SO-2	1/29/2020	<0.14	0.76	0.53	0.83	<0.0077	0.93	0.032	<0.13	0.074	0.26	0.032	0.22	0.22 J	<0.011	<8.3E-03	0.014 J	<0.047	<9.0E-03	<0.013
DU-6-SO-3	1/29/2020	<0.15	0.74	0.59	0.9	<0.0085	1	0.038	<0.14	0.086	0.31	0.046	0.25	0.25 J	<0.014	<0.0092	0.019	<0.066	<0.0099	<0.015

Table 2. RI Phase I/II: Polychlorinated Biphenyls (PCBs) Congeners (only detected congeners shown)

Location	Date	1	101	105	110	114	118	119	123	128	138	141	149	153	156	157	158	167	168	169
DU-7-SO-1	1/7/2020	<0.24	3.8 J	2.3 J	3.4 J	0.22 J	3.1 J	<0.12	<0.78	<0.43	1.2 J	0.19 J	1 J	1 J	0.27 J	<0.015	<0.14	0.27 J	<0.016	0.023 J
DU-7-SO-2	1/7/2020	<0.27	8.3	3.9	5.8	<0.13	7.4	<0.25	<1.3	0.61	1.9	0.33 J	1.6	1.5 J	0.78	<0.017	<0.21	<0.5	<0.018	<0.035
DU-7-SO-3	1/7/2020	<0.25	3.9	2.3	3.5	0.26	2.8	<0.019	<0.75	0.4	1.2	0.21	0.97	0.95 J	0.14	<0.016	0.18 J	0.34	<0.017	<0.025
DU-8-SO-1	1/8/2020	<0.013	0.16	0.11	0.17	<0.00073	0.16	<8.1E-03	<0.037	0.021	0.067	0.011	0.049	0.053 J	0.015	<7.9E-04	<0.0074	<0.018	<8.5E-04	<0.0013
DU-8-SO-2	1/8/2020	<0.013	0.2	0.12	0.2	<0.0094	0.16	<0.00096	<0.052	0.031	0.085	0.013 J	0.069	0.078 J	0.011	<0.00078	<0.011	<0.023	<0.00084	<0.0012
DU-8-SO-3	1/8/2020	<0.014	0.16	0.12	0.16	<0.00076	0.13	<6.8E-03	<0.042	0.028	0.073	0.014	0.054	6.5E-02 J	0.015	<0.00082	9.5E-03 J	<0.022	<8.8E-04	<0.0013
DU-9-SO-1	1/9/2020	<0.15	0.82	0.52	0.73 J	<0.0084	0.82	<0.03	<0.097	0.080	0.21	0.029 J	0.21 J	0.24	0.02 J	<9.0E-03	0.026 J	<0.038	<0.0097 J	<0.014
DU-9-SO-2	1/9/2020	<0.15	0.68	0.43	0.59 J	<8.3E-03	0.69	0.027	<0.097	0.065	0.18	0.026 J	0.17 J	0.2	0.017 J	<9.0E-03	<0.0094	<0.036	<0.0097	<0.014
DU-9-SO-3	1/9/2020	<0.15 J	0.75 J	0.49 J	0.64 J	<0.0085 J	0.74 J	0.024 J	<0.11 J	0.067 J	0.19 J	0.029 J	0.18 J	0.23 J	0.015 J	<9.3E-03	0.017 J	<0.039 J	<0.01 J	<0.015 J
DU-10-SO-1	1/8/2020	<0.015	0.06	0.043	0.068	<0.00083	0.048	<0.0011	<0.015	0.01	0.029	0.0035 J	0.021	0.025 J	0.0033	<0.0009	<0.0024	<0.0099	<9.7E-04	<0.0014
DU-10-SO-2	1/8/2020	<0.015	0.064	0.045	0.068	<0.00086	0.06	<0.0028	<0.014	0.011	0.032	0.0047	0.023	0.029 J	0.0041	<0.0027	0.0026 J	<0.0099	<0.001	<0.0015
DU-10-SO-3	1/8/2020	<0.014	0.054	0.035	0.054	<0.0008	0.047	<0.0017	<0.013	0.0087 J	0.026	0.0033	0.018	0.024 J	0.0034	<0.00086	0.0026 J	<8.3E-03	<0.00093	<0.0014
DU-11-SO-1	1/30/2020	<0.46 J	1 J	0.6 J	1.1 J	<0.034 J	1.1 J	<0.035 J	0.14 J	0.067 J	0.36 J	0.061 J	0.24 J	0.23 J	0.035 J	<0.029 J	<0.016 J	9.2E-02 J	<0.031 J	<0.044 J
DU-11-SO-2	1/30/2020	<0.42 J	0.96 J	0.57 J	1 J	<0.043 J	0.97 J	<0.032 J	<0.15 J	0.043 J	0.32 J	0.05 J	0.22 J	0.23 J	<0.024 J	<0.026 J	<0.015 J	<0.074 J	<0.028 J	<0.04 J
DU-11-SO-3	1/30/2020	<0.36 J	0.93 J	0.61 J	0.95 J	<0.039 J	0.92 J	<0.028 J	<0.12 J	0.063 J	0.31 J	0.054 J	0.21 J	0.19 J	0.046 J	<0.023 J	<0.013 J	<0.074 J	<0.024 J	<0.035 J
DU-12-SO-1	1/28/2020	<0.25 J	1.1	0.73	1.2	<0.015	1.2	0.024	<0.15	9.2E-02 J	0.33	0.024 J	0.27	0.27 J	<0.015	<0.016 J	0.018 J	<0.039	<0.017 J	<0.024 J
DU-12-SO-2	1/28/2020	<0.41	1.7	1.2	1.8	<0.024	1.9	0.041	<0.22	0.13	0.52	6.5E-02 J	0.41	0.4 J	<0.024	<0.026	0.018	<7.3E-02	<0.028	<0.039
DU-12-SO-3	1/28/2020	<0.22	0.99	0.66	1	0.016 J	1.1	0.026	<0.14	6.5E-02 J	0.3	0.027 J	0.25	0.24 J	<0.013	<0.014	0.011 J	<0.042	<0.015	<0.021
DU-13-SO-1	1/29/2020	<0.31	1.3	0.82	1.5	<0.018	1.6	0.052 J	<0.22	0.15	0.52	0.05	0.41	0.42 J	<0.021	<0.019	0.019 J	<7.6E-02	<0.021	<0.03
DU-13-SO-2	1/29/2020	<0.28	1.2	0.7	1.3	<0.016	1.4	0.046 J	<0.18	0.13	0.44	0.036 J	0.37	0.38 J	<0.016	<0.018	<0.016	<0.085	<0.019	<0.027
DU-13-SO-3	1/29/2020	<0.29	1.2	0.71	1.4	<0.053	1.4	0.045 J	<0.22	0.12	0.48	0.039 J	0.38	0.39 J	<0.017	<0.018	<0.02	<0.081	<0.02	<0.028
DU-14-SO-1	1/17/2020	<0.033	0.18	0.11	0.2	<0.0082	0.21	0.0077 J	<0.033	0.021	7.6E-02 J	0.0091	0.06 J	0.064 J	0.004 J	<0.002	<0.0041	<0.02	<0.0022	<0.0031 J
DU-14-SO-2	1/17/2020	<0.035	0.2	0.13	0.21	<9.3E-03	0.22	0.0069 J	<0.035	0.024	0.084	0.01	0.066	0.072 J	0.006 J	<0.0022	0.0044 J	<0.023	<0.0024	<0.0034
DU-14-SO-3	1/17/2020	<0.041	0.19	0.14	0.2	<8.3E-03	0.23	<0.014	<0.03	0.026 J	0.087	0.013	0.066	0.068	0.0039 J	<0.0022	<0.0046	<0.022	<0.0024	<0.0034
DU-15-SO-1	1/28/2020	<0.26	1.4	0.89	1.5	<0.015	1.6	0.058	<0.23	0.14	0.5	0.071	0.41	0.42 J	0.025 J	<0.016	0.03 J	<0.12	<0.017	<0.025
DU-15-SO-2	1/28/2020	<0.24	1.2	0.82	1.4	<0.057	1.5	0.052	0.21	0.13	0.46	0.057	0.38	0.37 J	<0.014	<0.015	0.026 J	<0.097	<0.016	<0.023
DU-15-SO-3	1/28/2020	<0.28	1.7	1.1	1.8	<0.016	1.9	0.057	<0.27	0.15	0.57	0.09	0.47	0.48 J	<0.027	<0.018	0.038 J	<0.14	<0.019	<0.027
DU-16-SO-1	1/10/2020	<0.0045 J	0.27 J	0.046 J	0.24 J	<0.00026 J	0.21 J	<0.15 J	<0.014 J	0.021 J	0.14 J	0.019 J	0.049 J	0.13 J	<4.3E-03 J	<0.0037 J	0.012 J	<0.046 J	<0.0003 J	0.0059 J
DU-16-SO-2	1/10/2020	<0.0044 J	<0.27 J	0.054 J	0.23 J	<0.00025 J	0.19 J	<0.16 J	<0.017 J	0.023 J	0.14 J	0.018 J	0.058 J	0.12 J	0.0071 J	<0.0096 J	0.013 J	<0.041 J	<0.0003 J	<0.00042 J
DU-16-SO-3	1/10/2020	<4.9E-03	<0.33	0.055 J	0.28	<0.00028	0.24	0.075 J	<0.017	0.023 J	0.16	0.022	0.059 J	0.15 J	<0.0051	<0.0064	0.015	<0.05	<0.00033	<0.00046
DU-17-SO-1	1/9/2020	<0.0025	<0.0003	<0.00014	<0.00019 J	<0.00014	<0.00011	<0.00019	<0.00014	<0.00011	<0.00021	<0.00011 J	<0.00017 J	<0.00015	<0.00014	<0.00015	<0.000084	<0.00019	<0.00017	<0.00023
DU-17-SO-2	1/9/2020	<0.0024	<0.0003	<0.00014	<0.00019 J	<0.0003	<0.00011	<0.00019	<0.00014	<0.00011	<0.00021	<0.00011 J	<0.00016 J	<0.00015	<0.00014	<0.00015	<0.000083	<0.00019	<0.00016 J	<0.00023
DU-17-SO-3	1/9/2020	<0.0025	<0.0003	<0.00014	<0.00019 J	<0.00014	<0.00011	<0.00019	<0.00014	<0.00011	<0.00021	<0.00012 J	<0.00017 J	<0.00015	<0.00014	<0.00015	<0.000084	<0.0003	<0.00017 J	<0.00023
DU-18-SO-1	4/17/2020	<0.0027 J	<0.00033 J	<0.00015 J	0.00029 J	<0.00015 J	0.00027 J	<0.0011 J	<0.00015 J	<0.00022 J	0.00087 J	<0.00012 J	0.00032 J	0.00064 J	<0.00015 J	<0.00017 J	<0.000092 J	<0.0019 J	<0.00018 J	<0.00025 J
DU-18-SO-2	4/17/2020	<0.0033 J	<0.00063	<0.00019	0.0013	<0.00019	0.00034	<0.0011	<0.00019	<0.00025	0.0014 J	0.00016 J	<0.00069	0.001 J	<0.00019	<0.00078	<0.00065	<0.0044	<0.00022	<0.00088
DU-18-SO-3	4/17/2020	<0.0035 J	<0.00043	<0.0002	<0.00033	<0.0002	0.00039	<0.0019	<0.0002	<0.00029	0.00	<0.00016	0.00061	0.0011 J	<0.0002	<0.00093	<0.00048	<0.0053	<0.00023	<0.00033
ARMREM-SO-1	1/16/2020	<0.029 J	0.7	0.49	0.52	0.027	0.67	0.018 J	<0.063	0.052	0.12	0.024	0.1	0.13	0.015 J	<0.0018	0.014	<0.025	<0.0019	<0.0028
ARMREM-SO-2	1/16/2020	<0.03 J	0.55	0.38	0.39	0.029	0.66	0.017 J	<0.079	0.062	0.13	0.027	0.11	0.16	0.017	<0.0019	0.02	<0.027	<0.002	<0.0029
ARMREM-SO-3	1/16/2020	<0.032 J	0.31	0.26	0.26	<7.3E-03	0.39	0.01 J	<0.056	0.047	0.1	0.017	0.080	0.11	0.011 J	<0.002	0.011	<0.018	<0.0022	<0.0031
EXPLDEMO-SO-1	1/10/2020	<0.0028	0.053	0.041	0.053	0.0053	0.093	<0.0025	<9.8E-03	0.011	0.049	0.0062	0.023	0.035	0.0039	0.0018	<0.0039	<0.013	<0.00019	<0.00027
EXPLDEMO-SO-2	1/10/2020	<0.0027	0.05	0.04	0.056	<0.00076	0.066	<0.0033	0.01	0.017	0.046	0.0053 J	<0.016	0.03 J	0.0058	<0.00083	<0.00047	<0.0062	<0.00089	<0.00026
EXPLDEMO-SO-3	1/10/2020	<0.0026	0.031	0.03	0.028	0.0019 J	0.045	<0.0023	<0.0052	0.0058 J	0.029	0.0033 J	0.014	0.02	0.0025	<0.00016	<0.0015	<0.0052	<0.00017	<0.0014
FMNOL-SO-1	1/15/2020	<0.0022 J	0.015 J	0.013	0.013 J	0.0018	0.015	<0.00049	<0.0019	0.0041	0.013 J	0.0022	0.0088	0.014	0.0012 J	<0.00028	<0.0018	<0.0042	<0.00015	<0.00021
FMNOL-SO-2	1/15/2020	<0.0025 J	0.0096	0.0073	0.012	<0.00014	0.013	<6.6E-04	<0.0013	4.3E-03 J	0.014	0.002	0.01	0.015	0.0013 J	0.00044 J	<0.0021	<0.0042	<0.0017	<0.00023
FMNOL-SO-3	1/15/2020	<0.0026 J	0.01	0.0074	0.011	<0.00015	0.012	<0.0023	<0.0014	0.0037	0.014	0.0021	0.0097	0.016	0.0013	<0.00016	<0.0023	<0.0045	<0.0025	<0.00025
DU-19-SO-1	9/15/2020	<0.023	0.056	0.036	0.064	<0.0013	0.068	0.0028	0.0089	0.0048	0.019	<0.0011	0.011	0.015 J	<0.0026	<0.0014	<0.0019	<0.0028	<0.0015	<0.0022
DU-19-SO-2	9/15/2020	<0.023	0.048	0.031	0.058	<0.0013	0.058	<0.0025	0.0077	0.0052	0.017	<0.0011	<9.5E-03	0.014	0.0021 J	<0.0014	<0.0019	<0.0036	<0.0015	<0.0022
DU-19-SO-3	9/15/2020	<0.022	0.18	0.11	0.17	0.0067	0.18	0.0065	0.022	0.014	0.05	0.0069	<0.03	0.034 J	0.0063	<0.0027	0.0048	<0.012	<0.0015	<0.0036
DU-20-SO-1	9/15/2020	<0.022 J	0.37 J	0.26 J	0.43 J	0.015 J	0.41 J	0.017 J	0.063 J	0.04 J	0.14 J	0.024 J	8.8E-02 J	9.5E-02 J	0.017 J	0.0036 J	0.014 J	<0.044 J	<0.0015 J	0.0072 J
DU-20-SO-2	9/15/2020	<0.026 J	0.74 J	0.3 J	0.52 J	0.02 J	0.54 J	0.02 J	<0.086 J	0.049 J	0.18 J	0.028 J	<0.12 J	0.12 J	0.024 J	<0.0017 J	0.022 J	<0.043 J	<0.0018 J	<0.0025 J
DU-20-SO-3	9/15/2020	<0.027	0.59	0.33	0.53	0.024	0.57	0.02	0.082	0.055	0.19	0.03	0.120	0.12 J	0.026	0.0076	0.024	<0.061	<0.0018	<0.0025
DU-21-SO-1	9/16/2020	<0.03	0.26	0.15	0.3	<0.0017	0.3	0.014 J	0.043 J	0.035	0.13	0.016	0.079	0.09 J	0.017	<0.0019	0.0085 J	<0.038	<0.002	<0.0028
DU-21-SO-2	9/16/2020	<0.028	0.25	0.12	0.28	<0.0016	0.27	0.012	0.039 J	0.03	0.11	<0.013	0.071	8.4E-02 J	0.014	<0.0018	0.0099	<0.035	<0.0019	<0.0027
DU-21-SO-3	9/16/2020	<0.029	0.32	0.15	0.34	<0.0038	0.34	0.013 J	0.05 J	0.039	0.14	0.016	0.09	0.1 J	0.016	<0.0018	0.012 J	<0.049	<0.0019	<0.0028

Table 2. RI Phase I/II: Polychlorinated Biphenyls (PCBs) Congeners (only detected congeners shown)

Location	Date	1	101	105	110	114	118	119	123	128	138	141	149	153	156	157	158	167	168	169
DU-22-SO-1	9/16/2020	<0.021 J	0.0044 J	0.0037	0.0065	<0.0012	0.0051	<0.0016	<0.0012	0.0025	0.0089 J	<0.00096	0.0032	0.007 J	<0.0012	<0.0013	<0.00073 J	<0.0034	<0.0014	<0.002 J
DU-22-SO-2	9/16/2020	<0.021	0.0079	0.0051	0.0088	<0.0012	0.0079	<0.0016	<0.0012	0.0043	0.019	0.0012 J	0.0094	0.016	0.0019 J	<0.0013	0.0017 J	<0.0059	<0.0014	<0.002
DU-22-SO-3	9/16/2020	<0.021	0.0028	0.0029 J	0.0055	<0.0012	0.0037	<0.0016	0.0013	<0.0009	4.30E-03	<0.00096	0.0019	0.0035	<0.0012	<0.0013	<0.00073	<0.0016	<0.0014	<0.002
Sediment ISM Decision Units (mg/kg)																				
DU-1-SD-1	2/7/2020	<0.052	0.12	0.037 J	0.11	<0.003	0.076	<0.004	<0.0094	<0.0022	0.025	0.004	0.02	0.015 J	<0.003	<0.0032	<0.0018	<0.0057	<0.0035 J	<4.9E-03
DU-1-SD-2	2/7/2020	<0.051	0.041	0.014 J	0.04	<0.0029	0.025	<0.0039	0.0044 J	<0.0022	0.014	<0.0023	0.0053	0.0065	<0.0029	<0.0032	<0.0018	<0.0039	<0.0034	<0.0048
DU-1-SD-3	2/7/2020	<0.053	0.045	0.011 J	0.041	<0.003	0.035	<0.004	4.9E-03 J	<0.0023	0.017	<0.0024	0.012	0.011 J	<0.003	<0.0033	<0.0019	<0.004	<0.0035	<0.005
DU-2-SD-1	2/6/2020	<0.024	<0.003	<0.0014	<0.0019	<0.0014	<0.0011	<0.0019	<0.0014	<0.0011	<0.0021	<0.0011	<0.0016	<0.0015	<0.0014	<0.0015	<0.00084	<0.0019	<0.0016	<0.0023
DU-2-SD-2	2/6/2020	<0.021	<0.0026	<0.0012	<0.0016	<0.0012	<0.00095	<0.0016	<0.0012	<0.0009	<0.0018	<0.00096	<0.0014	<0.0013	<0.0048	<0.0013	<0.00073	<0.0016	<0.0014	<0.002
DU-2-SD-3	2/6/2020	<0.025	<0.0031	<0.0015	<0.0019	<0.0015	<0.0012	<0.0019	<0.0015	<0.0011	<0.0022	<0.0012	<0.0017	<0.0016	<0.0015	<0.0016	<0.00087	<0.0019	<0.0017	<0.0024
DU-3-SD-1	2/5/2020	<0.072	0.24	0.15	0.24	<0.0042	0.22	<0.0055	<0.031	0.011 J	0.07	0.014	0.057	0.052 J	0.0096 J	<0.0045	<0.0026	<0.015	<0.0048	<0.0069
DU-3-SD-2	2/5/2020	<0.06	0.2	0.11	0.21	<0.0034	0.17	<0.0046	<0.024	0.01 J	0.058	0.013	0.05	0.041 J	0.0075 J	<0.0037	<0.0021	<0.017	<0.004	0.0059 J
DU-3-SD-3	2/5/2020	<0.063	0.19 J	0.093	0.18	0.0037 J	0.13	<0.0048	<0.02	0.011	0.061	0.007	0.044	0.04 J	0.0066 J	<0.0039	<0.0022	<0.019	<0.0042	<0.006
DU-4-SD-1	2/4/2020	<0.072	0.33	0.16	0.3	4.9E-03 J	0.25	<0.0055	<0.033	0.011 J	0.076	0.012	0.057	0.058 J	0.0090	<0.0045	<0.0025	<0.021	<0.0048	<6.8E-03
DU-4-SD-2	2/4/2020	<0.071	0.2	0.077	0.19	<0.0041	0.13	<0.0054	<0.021	0.0055 J	0.045	0.0075	0.039	0.032 J	0.0052 J	<0.0044	<0.0025	<0.014	<0.0047	<0.0067
DU-4-SD-3	2/4/2020	<0.067	0.2	0.077	0.18	<0.0038	0.14	<0.0051	<0.02	0.0047	0.044	0.0063	0.035	0.031 J	0.0052	<0.0041	<0.0023	<0.014	<0.0045	<0.0063
DU-5-SD-1	2/5/2020	<0.094	0.5	0.14	0.4	<0.0054	0.36	<0.0072	<0.043	0.032	0.12	0.02	0.1	0.11 J	0.013 J	<0.0058	<0.0033	<0.034	<0.0063	<0.0089
DU-5-SD-2	2/5/2020	<9.9E-02	0.49	0.16	0.41	<0.0057	0.34	<0.0076	<0.042	0.029	0.13	0.02	0.1	0.1 J	0.018	<0.0062	0.0035 J	<0.034	<0.0066	<9.5E-03
DU-5-SD-3	2/5/2020	<0.081	0.38	0.13	0.34	<0.0046	0.27	<0.0062	<0.043	0.03	0.11	0.017	0.076	0.076	0.011 J	<0.005	<0.0028	<0.031	<0.0054	<0.0077
DU-6-SD-1	2/3/2020	<0.11	0.33	0.13	0.32	<0.0063	0.27	<0.013	<0.037	0.011 J	0.087 J	<0.016	0.061	0.063 J	0.0093	<6.8E-03	<0.0038 J	<0.025	<7.3E-03 J	<0.011 J
DU-6-SD-2	2/3/2020	<0.11	0.37	0.2	0.38	<0.0062	0.37	<0.0091	<0.048	0.028	0.12	0.022	0.096	8.4E-02 J	0.012 J	<0.0067	<0.0038	<0.027	<0.0072	<0.011
DU-6-SD-3	2/3/2020	<0.12	0.35	0.17	0.38	<0.0064	0.36	<0.022	<0.042	0.028	0.12	0.015	0.089	0.085	0.0074 J	<0.0069	<0.0039	<0.028	<0.0074	<0.011
DU-7A-SD-1	3/18/2020	<0.0029 J	<0.00036 J	<0.00017 J	<0.00022 J	<0.00017 J	<0.00013 J	<0.00022 J	<0.00017 J	<0.00013 J	<0.00025 J	<0.00014 J	<0.00019 J	<0.00018 J	<0.00017 J	<0.00018 J	<0.0001 J	<0.00022 J	<0.00019 J	<0.00028 J
DU-7A-SD-2	3/18/2020	<0.003 J	<0.00037 J	<0.00017 J	<0.00023 J	<0.00017 J	<0.00014 J	<0.00023 J	<0.00017 J	<0.00013 J	<0.00026 J	<0.00014 J	<0.0002 J	<0.00019 J	<0.00017 J	<0.00019 J	<0.00011 J	<0.00023 J	<0.0002 J	<0.00028 J
DU-7A-SD-3	3/18/2020	<0.0028 J	<0.00035 J	<0.00016 J	<0.00022 J	<0.00016 J	<0.00013 J	<0.00022 J	<0.00016 J	<0.00012 J	<0.00024 J	<0.00013 J	<0.00019 J	<0.00018 J	<0.00016 J	<0.00018 J	<9.7E-05 J	<0.00022 J	<0.00019 J	<0.00027 J
DU-7B-SD-1	2/11/2020	0.18	0.15	0.042	0.16	<0.0032	0.13	<0.0042	<0.013	<0.0024	0.023	0.0034	0.022	0.019 J	<0.0032	<0.0035	<0.002	0.0077	<0.0037	<0.0053
DU-7B-SD-2	2/11/2020	0.09	0.14	0.029	0.14	<0.0033	0.12	<0.0044	0.011 J	<0.0025	0.02	0.0034	0.02	0.019 J	<0.0033	<0.0036	<0.002	<0.0046	<0.0039	<0.0055
DU-7B-SD-3	2/11/2020	<0.67	1.8	0.660	1.8	<0.039	1.6	<0.051	0.17 J	<0.029	0.27	0.049	0.25	0.22 J	<0.039	<0.042	<0.024	0.057	<0.045	<0.064
DU-7C-SD-1	4/1/2020	<0.18	0.11	0.028 J	0.13	<0.011	0.096	<0.014	<0.011	<0.0076	0.023 J	<8.1E-03	<0.012	<0.011	<0.011	<0.011	<0.0062	<0.014	<0.012	<0.017
DU-7C-SD-2	4/1/2020	<0.19	0.1	0.030	0.14	<0.011	0.1 J	<0.015	0.014 J	<8.1E-03	<0.033	<0.0087	<0.017	<0.012	<0.011	<0.012	<0.0066	<0.015	<0.013	<0.018
DU-7C-SD-3	4/1/2020	<0.22	0.07	0.040	0.1	<0.013	0.081	<0.017	0.016 J	<9.3E-03	0.032 J	<0.0099	0.021	0.022 J	<0.013	<0.014	<0.0076	<0.017	<0.015	<0.021
DU-7D-SD-1	3/17/2020	7.7E-02 J	0.18 J	7.6E-02 J	0.19 J	<0.0024 J	0.15 J	<0.0032 J	0.028 J	0.011 J	0.039 J	6.8E-03 J	0.033 J	<0.036 J	0.0055 J	<0.0026 J	<0.0015 J	<0.013 J	<0.0028 J	<0.0039 J
DU-7D-SD-2	3/17/2020	<0.21	0.9	0.540	0.84	0.031	0.73	<0.016	<0.12	0.054	0.23	0.034 J	0.16	0.17 J	0.027	<0.013	0.024	<0.057	<0.014	<0.02
DU-7D-SD-3	3/17/2020	<0.21	0.26	0.150	0.29	<0.012	0.24	<0.016	<0.012	0.014 J	0.058	<9.5E-03	0.038 J	<0.039	<0.012	<0.013	<0.0072	<0.016	<0.014	<0.02
DU-8-SD-1	3/16/2020	<0.033	0.017	0.011 J	0.022	<0.0019	0.019	<0.0025	<0.0029	<0.0014	0.005	<0.0015	0.0025 J	<0.0028	<0.0019	<0.0021	<0.0012	<0.0025	<0.0022	<0.0031
DU-8-SD-2	3/16/2020	<0.05	0.066	0.046	0.078	<0.0029	0.066	<0.0038	0.0096 J	0.0066	0.02	0.0055	0.015 J	0.016 J	<0.0029	<0.0031	<0.0018	<0.0074	<0.0033	<0.0048
DU-8-SD-3	3/16/2020	<0.039	0.028	0.015 J	0.038	<0.0023	0.032	<0.003	<0.0023	<0.0017	0.0098	0.0019 J	0.0044 J	<0.0053	<0.0023	<0.0025	<0.0014	<0.003	<0.0026	<0.0037
DU-9-SD-1	3/19/2020	<0.03	0.063	0.022	0.058	<0.0018	0.053	<0.0023	<0.0072	<0.0013	0.013	0.0023 J	0.01 J	0.013 J	<0.0018	<0.0019	<0.0011	<0.0023	<0.002	<0.0029
DU-9-SD-2	3/19/2020	<0.027 J	0.052 J	0.0087 J	0.047 J	<0.0016 J	0.043 J	<0.0021 J	0.0055 J	<0.0035 J	0.011 J	0.0019 J	0.0087 J	0.0097 J	<0.0016 J	<0.0017 J	<9.4E-04 J	<0.0024 J	<0.0018 J	<0.0026 J
DU-9-SD-3	3/19/2020	<0.031	0.06	0.013 J	0.055	<0.0018	0.048	<0.0023	<0.0056	<0.0013	0.0096	<0.0014	9.5E-03 J	<0.0096	<0.0018	<0.0019	<0.0011	<0.0023	<0.0021	<0.0029
DU-10-SD-1	3/20/2020	<0.0022	0.00054	<0.00013	0.00035	<0.00013	0.00025	<0.00017	<0.00013	0.00012 J	0.000	<0.000098	<0.00015	0.0002 J	<0.00013	<0.00014	<0.000075	0.00017 J	<0.00015	<0.00021
DU-10-SD-2	3/20/2020	<0.0027 J	0.0009 J	0.00022 J	0.00053 J	<0.00016 J	0.00051 J	6.8E-04 J	<0.00016 J	<0.00012 J	0.00093 J	<0.00013 J	0.00048 J	0.00048 J	<0.00016 J	<0.00017 J	<0.00036 J	<0.00049 J	<0.00018 J	<0.00026 J
DU-10-SD-3	3/20/2020	<0.0022 J	0.00051 J	<0.00013 J	0.00047 J	<0.00013 J	0.00039 J	<0.00017 J	<0.00013 J	0.00025 J	0.00069 J	<0.0001 J	<0.00031 J	0.00057 J	0.00023 J	<0.00014 J	<0.000077 J	<0.00017 J	<0.00015 J	<0.00021 J
DU-11-SD-1	3/26/2020	<0.0034 J	<0.00042 J	<0.0002 J	0.00054 J	<0.0002 J	0.00031 J	<0.00064 J	<0.0002 J	<0.00015 J	0.0013 J	<0.00016 J	0.00029 J	0.00074 J	<0.0002 J	<0.00021 J	<0.00039 J	<0.00042 J	<0.00023 J	<0.00033 J
DU-11-SD-2	3/26/2020	<0.0033 J	<0.00041 J	<0.00019 J	0.00048 J	<0.00019 J	0.00027 J	<0.00026 J	<0.00019 J	<0.00015 J	9.1E-04 J	<0.00016 J	<0.00022 J	0.00048 J	<0.00019 J	<0.00021 J	0.00034 J	<0.00046 J	<0.00022 J	<0.00032 J
DU-11-SD-3	3/26/2020	<0.0034 J	<0.00041 J	<0.00019 J	0.0004 J	<0.00019 J	0.00026 J	<0.00026 J	<0.00019 J	<0.00015 J	0.00083 J	<0.00016 J	<0.00023 J	0.00039 J	<0.00019 J	<0.00021 J	<0.00025 J	<0.00026 J	<0.00023 J	<0.00032 J
DU-12-SD-1	3/27/2020	<0.0029	<0.0017	<0.00051	0.0016	<0.00017	0.00099	<0.00022	<0.00023	0.00051	0.003	0.00044	0.002	0.0022 J	0.00026	<0.00018	<0.000099	<0.00075	<0.0012	<0.00028
DU-12-SD-2	3/27/2020	<0.0034	<0.0013	<0.00026	0.0012 J	<0.0002	0.0007	<0.00026	<0.0002	0.00046	0.0021	0.00034	0.0016	0.0018 J	<0.0002	<0.00021	<0.00025	<0.00069	<8.5E-04	<0.00032
DU-12-SD-3	3/27/2020	<0.0029 J	<0.00069 J	<0.00017 J	0.0009 J	<0.00017 J	0.00044 J	<0.00022 J	<0.00017 J	0.00038 J	0.0015 J	0.00024 J	0.0011 J	0.0012 J	<0.00017 J	<0.00018 J	0.00041 J	<0.00061 J	<0.00025 J	<0.00028 J

Table 2. RI Phase I/II: Polychlorinated Biphenyls (PCBs) Congeners (only detected congeners shown)

Location	170	174	177	18	180	183	187	189	194	195	203	206	209	28	31	33	37	44	49
Groundwater (µg/L)																			
MW-01	<0.0016	<0.0015	<0.0018	<0.002	<0.0029	<0.0015	<0.0014	<0.0018	<0.0012	<0.0018	<0.0018	<0.0023	<0.0028	<0.0016	<0.00096	<0.0017	<0.0019	<0.0033	<0.0014
MW-02	<0.0016	<0.0015	<0.0018	0.026	<0.0029	<0.0015	<0.0014	<0.0018	<0.0012	<0.0018	<0.0018	<0.0023	<0.0028	0.029	0.018	0.0075 J	0.026	0.023	0.023
MW-02B	<0.0016	<0.0015	<0.0018	<0.002	<0.0029	<0.0015	<0.0014	<0.0018	<0.0012	<0.0018 J	<0.0018	<0.0023	<0.0028	<0.0016	<0.00096	<0.0017	<0.0019	<0.0033	<0.0014
MW-03	<0.0016	<0.0015	<0.0018	0.0053	<0.0029	<0.0015	<0.0014	<0.0018	<0.0012	<0.0018 J	<0.0018	<0.0023	<0.0028	0.0033 J	<0.00096	<0.0017	0.0026 J	0.004	0.0032
MW-04	<0.0016	<0.0015	<0.0018	0.0033	<0.0029	<0.0015	<0.0014	<0.0018	<0.0012	<0.0018	<0.0018	<0.0023	<0.0028	0.0031	0.0012 J	<0.0017	0.0041	<0.0033	0.0035
MW-04B	<0.0016	<0.0015	<0.0018	<0.002	<0.0029	<0.0015	<0.0014	<0.0018	<0.0012	<0.0018	<0.0018	<0.0023	<0.0028	<0.0016	<0.00096	<0.0017	<0.0019	<0.0033	<0.0014
MW-05	<0.0016	<0.0015	<0.0018	0.0038	<0.0029	<0.0015	<0.0014	<0.0018	<0.0012	<0.0018 J	<0.0018	<0.0023	<0.0028	<0.0016	<0.00096	<0.0017	<0.0019	<0.0033	<0.0014
MW-07	<0.0016	<0.0015	<0.0018	<0.002	<0.0029	<0.0015	<0.0014	<0.0018	<0.0012	<0.0018 J	<0.0018	<0.0023	<0.0028	<0.0016	<0.00096	<0.0017	<0.0019	<0.0033	<0.0014
MW-08	<0.0016	<0.0015	<0.0018	0.028	<0.0029	<0.0015	<0.0014	<0.0018	<0.0012	<0.0018 J	<0.0018	<0.0023	<0.0028	0.01	0.026 J	<0.0017	0.024 J	0.023	0.034
MW-09	<0.0016	<0.0015	<0.0018	<0.002	<0.0029	<0.0015	<0.0014	<0.0018	<0.0012	<0.0018	<0.0018	<0.0023	<0.0028	<0.0016	<0.00096	<0.0017	<0.0019	<0.0033	<0.0014
MW-10	<0.0016	<0.0015	<0.0018	<0.002	<0.0029	<0.0015	<0.0014	<0.0018	<0.0012	<0.0018	<0.0018	<0.0023	<0.0028	<0.0016	<0.00096	<0.0017	<0.0019	<0.0033	<0.0014
MW-12	<0.0016	<0.0015	<0.0018	<0.002	<0.0029	<0.0015	<0.0014	<0.0018	<0.0012	<0.0018	<0.0018	<0.0023	<0.0028	<0.0016	<0.00096	<0.0017	<0.0019	<0.0033	<0.0014
MW-13	<0.0016	<0.0015	<0.0018	<0.002	<0.0029	<0.0015	<0.0014	<0.0018	<0.0012	<0.0018	<0.0018	<0.0023	<0.0028	<0.0016	<0.00096	<0.0017	<0.0019	<0.0033	<0.0014
MW-14	<0.0016	<0.0015	<0.0018	<0.002	<0.0029	<0.0015	<0.0014	<0.0018	<0.0012	<0.0018	<0.0018	<0.0023	<0.0028	<0.0016	<0.00096	<0.0017	<0.0019	<0.0033	<0.0014
MW-15	<0.0016	<0.0015	<0.0018	0.0026	<0.0029	<0.0015	<0.0014	<0.0018	<0.0012	<0.0018	<0.0018	<0.0023	<0.0028	<0.0016	<0.00096	<0.0017	0.0022	<0.0033	0.0018
MW-16	<0.0016	<0.0015	<0.0018	0.0044	<0.0029	<0.0015	<0.0014	<0.0018	<0.0012	<0.0018 J	<0.0018	<0.0023	<0.0028	0.015	0.015 J	<0.0017	0.02 J	0.021	0.029
MW-17	<0.0016	<0.0015	<0.0018	<0.002	<0.0029	<0.0015	<0.0014	<0.0018	<0.0012	<0.0018 J	<0.0018	<0.0023	<0.0028	<0.0016	<0.00096	<0.0017	<0.0019	<0.0033	<0.0014
MW-18L	<0.0016	<0.0015	<0.0018	0.0031	<0.0029	<0.0015	<0.0014	<0.0018	<0.0012	<0.0018 J	<0.0018	<0.0023	<0.0028	0.0025	<0.00096	<0.0017	<0.0019	0.0035	0.0041
MW-20	<0.0016	<0.0015	<0.0018	<0.002	<0.0029	<0.0015	<0.0014	<0.0018	<0.0012	<0.0018	<0.0018	<0.0023	<0.0028	<0.0016	<0.00096	<0.0017	<0.0019	<0.0033	<0.0014
MW-21	<0.0016	<0.0015	<0.0018	<0.002	<0.0029	<0.0015	<0.0014	<0.0018	<0.0012	<0.0018	<0.0018	<0.0023	<0.0028	<0.0016	0.0012 J	<0.0017	<0.0019	<0.0033	<0.0014
MW-79	<0.0016	<0.0015	<0.0018	<0.002	<0.0029	<0.0015	<0.0014	<0.0018	<0.0012	<0.0018	<0.0018	<0.0023	<0.0028	<0.0016	<0.00096	<0.0017	<0.0019	<0.0033	<0.0014
Surface Water (µg/L)																			
SW-1	<0.0016	<0.0015	<0.0018	<0.002	<0.0029	<0.0015	<0.0014	<0.0018	<0.0012	<0.0018	<0.0018	<0.0023	<0.0028	0.0033 J	<0.0026	<0.0017	0.0041	<0.0033	0.0029
SW-2	<0.0016	<0.0015	<0.0018	0.0023	<0.0029	<0.0015	<0.0014	<0.0018	<0.0012	<0.0018	<0.0018	<0.0023	<0.0028	0.0063	<0.0038	<0.0017	0.0062	0.004900001	0.0074
SW-3	<0.0016	<0.0015	<0.0018	<0.002	<0.0029	<0.0015	<0.0014	<0.0018	<0.0012	<0.0018	<0.0018	<0.0023	<0.0028	<0.0016	0.0054	<0.0017	<0.0019	<0.0033	<0.0014
SW-4	<0.0016J	<0.0015J	<0.0018J	<0.002J	<0.0029J	<0.0015J	<0.0014J	<0.0018J	<0.0012J	<0.0018J	<0.0018J	<0.0023J	<0.0028J	<0.0016J	<0.00096J	<0.0017J	<0.0019J	<0.0033J	<0.0014J
SW-5	<0.0016	<0.0015	<0.0018	<0.002	<0.0029	<0.0015	<0.0014	<0.0018	<0.0012	<0.0018	<0.0018	<0.0023	<0.0028	0.0018	<0.00096	<0.0017	<0.0019	<0.0033	0.0025
SW-6	<0.0016	<0.0015	<0.0018	<0.002	<0.0029	<0.0015	<0.0014	<0.0018	<0.0012	<0.0018	<0.0018	<0.0023	<0.0028	<0.0016	<0.00096	<0.0036	<0.0019	<0.0033	<0.0014
SW-7	<0.0016	<0.0015	<0.0018	<0.002	<0.0029	<0.0015	<0.0014	<0.0018	<0.0012	<0.0018	<0.0018	<0.0023	<0.0028	<0.0016	<0.00096	<0.0042	<0.0019	<0.0033	<0.0014
SW-8	<0.0016	<0.0015	<0.0018	<0.002	<0.0029	<0.0015	<0.0014	<0.0018	<0.0012	<0.0018	<0.0018	<0.0023	<0.0028	<0.0016	<0.00096	<0.0017	<0.0019	<0.0033	<0.0014
SW-9	<0.0016	<0.0015	<0.0018	<0.002	<0.0029	<0.0015	<0.0014	<0.0018	<0.0012	<0.0018	<0.0018	<0.0023	<0.0028	<0.0016	<0.00096	<0.0017	<0.0019	<0.0033	0.0022
SW-10	<0.0016	<0.0015	<0.0018	<0.002	<0.0029	<0.0015	<0.0014	<0.0018	<0.0012	<0.0018	<0.0018	<0.0023	<0.0028	<0.0016	0.01 J	<0.0017	<0.0019	<0.0033	<0.0014
Seep (µg/L)																			
Seep-1	<0.0016	<0.0015	<0.0018	0.0036	<0.0029	<0.0015	<0.0014	<0.0018	<0.0012	<0.0018	<0.0018	<0.0023	<0.0028	0.014	8.3E-03 J	<0.0035	0.02	0.016	0.024
Soil ISM Decision Units (mg/kg)																			
DU-1-SO-1	<0.0045 J	<0.0036	<0.0052	0.018 J	0.0046 J	<0.0045	<0.0052	<0.0031	<0.0058	<0.0036	<0.0042	<0.0045	<0.0071	0.041	0.042 J	<0.0084 J	0.081 J	0.079	0.12
DU-1-SO-2	<0.0056	<0.0033	<0.0048	0.042	0.0094	<0.0042	<0.0048	<0.0029	<0.0054	<0.0033	<0.0039	<0.0042	<0.0066	0.063	0.095	<0.015 J	0.13 J	0.11	0.18
DU-1-SO-3	<0.02	<0.0037	<0.0054	0.039	0.012	<0.0047	<0.0054	<0.0032	<0.0061	<0.0037	<0.0044	<0.0047	<0.0074	0.055	<0.056	<0.014 J	0.12 J	0.11	0.18
DU-2-SO-1	0.011	0.0072	0.0034	0.00065	0.012	0.0026	0.0057	<0.00012	0.0028	0.0012	0.0018 J	0.00069	<0.00027	0.0014	0.0016 J	0.00068	0.0027 J	0.0017 J	0.0023
DU-2-SO-2	0.013	0.012	0.0053	0.00032	0.018	0.0043	0.0092	0.00039	0.0041	0.0018	<0.0026	0.0008 J	<0.0003	0.00057 J	0.0011 J	<0.00035	0.0018 J	9.4E-04 J	0.0017
DU-2-SO-3	0.011	0.0093	0.0039	<0.00029	0.014	0.0035	0.0069	0.00023 J	0.0029	0.0015	0.0022 J	0.0012	0.0003	<0.0014	<0.0013	0.00094	0.0029 J	0.0019 J	0.0027
DU-3-SO-1	0.17	0.16	0.083	0.57	0.2	0.054	0.15	<0.003	0.048	0.018 J	0.056	0.027 J	<0.007	0.94	1.5	<0.22	2 J	1.6	2.4
DU-3-SO-2	<0.2	0.18	0.099	0.48	0.23	0.063	0.17	<0.0033	0.057	0.034	0.064	0.027 J	<0.0075	0.72	1.1	0.21 J	<1.9 J	2.2	2.9
DU-3-SO-3	<0.16	0.14	0.076	0.28	0.17	0.046	0.12	<0.003	0.042	0.016	0.052	0.019 J	<0.0069	0.48	0.53 J	<0.14 J	<1.1 J	1.2	1.4
DU-4-SO-1	<0.028 J	<0.057 J	0.033 J	0.027 J	0.083 J	0.03 J	0.042 J	<0.0063 J	0.022 J	<7.3E-03 J	<0.014 J	<0.0092 J	<0.015 J	0.18 J	0.17 J	0.04 J	0.27 J	0.2 J	0.4 J
DU-4-SO-2	0.029	0.032 J	0.02 J	0.045	0.056	<9.5E-03	0.035	<0.0065	<0.013	<0.0075	<0.0089 J	<9.5E-03	<0.015	0.17	0.16 J	<0.024	0.31 J	0.3	0.48
DU-4-SO-3	0.027	0.031 J	<0.011 J	0.053	0.053	<0.0092	0.037	<0.0062	<0.012	<0.0072	<0.0085 J	<0.0092	<0.015	0.17	0.16 J	<0.021	0.21 J	0.19	0.38
DU-5-SO-1	0.15	0.17	0.1	0.37	0.27	0.062 J	0.17	<0.015	0.049 J	0.019 J	0.063 J	<0.022	<0.035	1.3	1.2	<0.13 J	1.7 J	1.4	2.1 J
DU-5-SO-2	<0.19	0.16	0.09	0.44	0.29	0.077	0.18	<0.015	0.074	0.023 J	0.048 J	<0.022	<0.034	1.4	1.1	<0.17	2.1 J	1.4 J	1.9 J
DU-5-SO-3	0.24 J	0.22	0.13	0.42	0.3	0.077	0.21	<0.014	0.068	0.028	0.053 J	<0.021	<0.033	1.3	1.2	<0.16	2.3 J	2	2.7 J
DU-6-SO-1	0.067 J	6.5E-02 J	0.041	0.16	0.1	0.016 J	0.068	<6.8E-03	<0.013	<7.9E-03	0.012 J	<0.01	<0.016	0.27	0.35	0.066 J	0.5 J	0.49	0.8
DU-6-SO-2	<0.13	0.051	0.038	0.17	0.092	0.016 J	0.054	<0.0061	<0.012	<0.0071	<8.3E-03	<9.0E-03	<0.015	0.26	0.34	7.6E-02 J	0.54 J	0.55	0.84
DU-6-SO-3	0.058 J	0.069	0.04	0.17	0.11	0.018 J	0.066	<0.0067	0.016 J	<7.8E-03	<0.0092	<0.0099	<0.016	0.25	0.31 J	0.066 J	0.48 J	0.49	0.79

Table 2. RI Phase I/II: Polychlorinated Biphenyls (PCBs) Congeners (only detected congeners shown)

Location	170	174	177	18	180	183	187	189	194	195	203	206	209	28	31	33	37	44	49
DU-7-SO-1	0.25 J	<0.26	0.21 J	<0.22	0.35 J	0.11 J	0.31 J	<0.011	0.089 J	0.032 J	0.11 J	0.044 J	<0.025	1.6 J	1.1 J	<0.11	3.3 J	3.3 J	4.5 J
DU-7-SO-2	0.39	0.41	0.31	0.51 J	0.73 J	0.21	0.52	<0.013	0.14	<0.07	0.35	<0.089	<0.028	3.8	1.4	<0.033	8.6 J	8.3	11
DU-7-SO-3	0.26	0.27 J	0.2	0.51	0.31	0.12	0.3	<0.012	<0.042	<0.026	0.063 J	<0.033	<0.026	1.5	1	<0.16	4.1 J	3.9	4.7
DU-8-SO-1	0.016 J	0.013 J	0.0087 J	0.031	0.018	0.0063	0.015	<0.00058	0.004300001	0.0012 J	0.0051	0.0012 J	<0.0014	0.22	0.073	<0.013	0.12 J	0.11	0.18
DU-8-SO-2	0.024	0.019	0.015	<0.019	0.027 J	8.3E-03 J	0.024	<0.00057	0.0042 J	0.0028	0.0082	<0.0017	<0.0027	0.086	0.049	<0.0077	0.14 J	0.13	0.22
DU-8-SO-3	0.017 J	0.015 J	0.015	<0.012	0.022	0.0069	0.02	<0.0006	0.0036	7.2E-04 J	0.0042	<8.8E-04	<0.0014	0.1	0.053	<0.008	0.12 J	0.089	0.17
DU-9-SO-1	0.04 J	0.044 J	0.028 J	0.14	0.074	<0.0097	0.049	<0.0066	<0.013	<0.0077	<9.0E-03 J	<0.0097	<0.016	0.37	0.42	<0.078	0.61 J	0.62	0.89
DU-9-SO-2	0.046	0.041 J	0.024 J	0.12	0.068	<0.0097	0.042	<0.0066	<0.013	<0.0076	0.015 J	<0.0097	<0.016	0.33	0.32	<0.06	0.49 J	0.49	0.75
DU-9-SO-3	0.048 J	0.045 J	0.027 J	0.15 J	0.071 J	<0.01 J	0.044 J	<6.8E-03 J	<0.013 J	<7.8E-03 J	0.017 J	<0.01 J	<0.016 J	0.38 J	0.41 J	<8.0E-02 J	0.59 J	0.56 J	0.81 J
DU-10-SO-1	0.0091 J	0.0069 J	0.0047	<0.023	0.0079	0.0029	0.0082	<6.6E-04	<0.0013	<0.0013 J	0.0027 J	<9.7E-04 J	<0.0016 J	0.036	0.025 J	0.005 J	0.047 J	0.042	0.066
DU-10-SO-2	8.6E-03 J	7.8E-03 J	0.0047	<0.03	0.0094	0.0028	0.0088	<6.8E-04	0.0019 J	<0.0015 J	0.0036	<0.001	<0.0016	0.029	0.023	0.0034 J	0.044 J	0.038	0.063
DU-10-SO-3	7.8E-03 J	0.0064 J	0.0034	<0.024	0.0064	0.0025	0.0068	<0.00063	0.0016	<0.00073	0.0029 J	<0.00093	<0.0015	0.028	0.019	<0.0018	0.038 J	0.031	0.055
DU-11-SO-1	<0.031 J	0.029 J	0.049 J	0.17 J	0.14 J	0.037 J	0.09 J	<0.021 J	0.041 J	<0.024 J	<0.029 J	<0.031 J	<0.048 J	0.5 J	0.43 J	0.098 J	0.71 J	0.72 J	1.1 J
DU-11-SO-2	<0.028 J	<0.022 J	0.042 J	0.2 J	0.13 J	0.037 J	0.082 J	<0.019 J	<0.036 J	<0.022 J	<0.026 J	<0.028 J	<0.044 J	0.49 J	0.54 J	<0.1 J	0.68 J	0.66 J	1.1 J
DU-11-SO-3	<0.024 J	0.024 J	0.041 J	0.15 J	0.12 J	<0.024 J	0.079 J	<0.017 J	<0.031 J	<0.019 J	<0.023 J	<0.024 J	<0.038 J	0.4 J	0.42 J	<0.082 J	0.62 J	0.67 J	1 J
DU-12-SO-1	<0.12 J	0.048 J	0.044 J	0.29	0.12	<0.017	0.05	<0.012 J	<0.022	<0.014 J	<0.016	<0.017	<0.027	0.48	0.64	0.13 J	0.84 J	0.87	1.2
DU-12-SO-2	<0.2	0.088	0.041 J	0.47	0.19	<0.028	0.08	<0.019	<0.036	<0.022	<0.026	<0.028	<0.043	0.8	0.92	<0.21	1.3 J	1.4	2
DU-12-SO-3	<0.14	0.049	0.043	0.24	0.1	<0.015	0.053	<0.0096	<0.019	<0.012	<0.014	<0.015	<0.023	0.39	0.51	0.1 J	0.72 J	0.74	1.1
DU-13-SO-1	<0.24	0.087 J	0.056	0.25	0.18	0.027 J	0.094	<0.014	<0.027	0.044	0.037 J	<0.021	<0.033	0.35	0.48	<0.093	0.79 J	0.81	1.3
DU-13-SO-2	<0.23	0.094 J	0.064	0.23	0.15	0.023 J	0.081	<0.013	<0.024	<0.041	<0.018	<0.019	<0.03	0.33	0.43	<0.089	0.73 J	0.77	1.2
DU-13-SO-3	<0.24	0.09	0.062	0.23	0.16	<0.02	0.087	<0.014	<0.025	<0.041	<0.02	<0.02	<0.031	0.34	0.43 J	9.2E-02 J	0.77 J	0.76	1.2
DU-14-SO-1	0.017 J	0.02	0.011	0.024 J	0.028	0.0059	0.016	<0.0015 J	0.0038 J	<0.0017	<0.002 J	<0.0022	<0.0034	0.056 J	0.063 J	<0.013	0.12 J	0.11	0.18
DU-14-SO-2	<0.027	0.021	0.013	0.034	0.033	0.0052 J	0.023	<0.0016	0.0047	<0.0019	<0.0033 J	<0.0024	<0.0037	0.069	0.075 J	<0.015	0.13 J	0.13	0.2
DU-14-SO-3	0.059	0.02	0.01	0.03	0.03	0.0090	0.019	<0.0016	<0.0032	<0.0019	<0.004 J	<0.0024	<0.0037	0.061	0.1	<0.013	0.15	0.11	0.17
DU-15-SO-1	<0.25	0.11	0.058	0.3	0.19	0.026 J	0.1	<0.012	<0.022	<0.014	<0.016	<0.017	<0.027	0.58	0.66	<0.14	1.1 J	1	1.6
DU-15-SO-2	<0.21	0.1	0.061	0.2	0.17	<0.021	0.096	<0.011	<0.021	<0.013	<0.017	<0.016	<0.026	0.46	0.51	<9.9E-02	0.84 J	0.82	1.4
DU-15-SO-3	<0.26	0.14	0.080	0.37	0.21	0.042 J	0.12	<0.013	0.036 J	<0.015	0.028 J	0.019	<0.03	0.71	0.77	<0.17	1.3 J	1.3	2
DU-16-SO-1	<0.023 J	0.02 J	0.02 J	<0.00047 J	0.067 J	0.015 J	0.036 J	<0.00021 J	0.0091 J	<0.014 J	<0.0044 J	0.0063 J	<0.00047 J	0.021 J	0.023 J	<0.0058 J	0.087 J	0.051 J	0.17 J
DU-16-SO-2	<0.0003 J	0.023 J	0.018 J	<0.00046 J	0.066 J	0.016 J	0.033 J	<0.0002 J	4.9E-03 J	<0.017 J	<0.019 J	<0.0003 J	<0.00046 J	0.022 J	0.024 J	<0.0061 J	0.081 J	0.056 J	0.063 J
DU-16-SO-3	<0.00033	0.025 J	0.02 J	<0.00051	0.074 J	0.017 J	0.038	<0.00022	0.0066 J	<0.019	<0.022 J	<0.00033	<0.00051	0.025 J	0.027 J	<0.0071	0.11	0.066	0.19
DU-17-SO-1	<0.00017	<0.00013	<0.00019 J	<0.00026	<0.00013	<0.00017	<0.00019	<0.00011	<0.00021	<0.00013	<0.00015 J	<0.00017	<0.00026	<0.00026	<0.00012	<0.0003	<0.0002	<0.0002	<0.00015
DU-17-SO-2	<0.00016	<0.00013	<0.00019 J	<0.00025	<0.00013	<0.00016	<0.00019	<0.00011	<0.00021	<0.00013	<0.00015 J	<0.00016	<0.00025	<0.00025	<0.00012	<0.0003	<0.0002	<0.0002	<0.00015
DU-17-SO-3	<0.00017	<0.00027	<0.00019 J	<0.00026	<0.00013	<0.00017	<0.00019	<0.00011	<0.00021	<0.00013	<0.00015 J	<0.00017	<0.00026	<0.00026	<0.00012	<0.0003	<0.0002	<0.0002	<0.00015
DU-18-SO-1	<0.00018 J	<0.0015 J	<0.0002 J	<0.00028 J	0.00042 J	<0.00018 J	<0.00035 J	<0.00012 J	<0.00023 J	<0.00014 J	<0.00017 J	<0.00018 J	<0.00028 J	<0.00028 J	<0.00013 J	<0.00033 J	<0.00022 J	<0.00022 J	<0.00017 J
DU-18-SO-2	<0.00022	0.0017 J	<0.00025	<0.00035	0.00083	<0.00022	<0.00047	<0.00015	<0.00029	<0.00018	<0.00021	<0.00022	<0.00035	<0.00035	<0.00016	<0.00041	<0.00027	<0.00027	<0.00021
DU-18-SO-3	<0.00023	0.0023 J	<0.00027	<0.00036	0.00072	<0.00023	<0.00052	<0.00016	<0.0003	<0.00018	0.00024	<0.00023	<0.00043	<0.00036	<0.00016	<0.00043	<0.00028	<0.00028	<0.00022
ARMREM-SO-1	0.032	0.032	0.016	0.062 J	0.043	0.011 J	0.029	<0.0013	0.0089	<0.0018	0.009300001	<0.0019	<0.003	0.22	0.16	<0.026	0.57 J	0.65	0.68
ARMREM-SO-2	0.029	0.033 J	0.013 J	0.044	0.043	0.013 J	0.033	<0.0014	0.008	0.0037 J	0.017	0.005 J	<0.0032	0.15	0.14	<0.027	0.52 J	0.46	0.45
ARMREM-SO-3	0.025	0.021 J	8.1E-03 J	0.028	0.033	8.8E-03 J	0.02	<0.0015	0.0056	0.0035 J	0.0067 J	0.0079	<0.0034	0.1	0.14	0.016 J	0.15 J	0.14	0.21
EXPLDEMO-SO-1	<0.00019	0.011 J	0.0087 J	<0.0051	0.02 J	0.0042	0.014	<0.00013	0.004300001	0.0013 J	<0.00086 J	0.0021	<0.00029	0.015	0.013	<0.0024	0.021 J	0.021	0.034
EXPLDEMO-SO-2	<0.00089	<0.0066	<0.0011 J	0.0059	0.017	0.0062 J	<6.8E-03	<0.00061	4.9E-03 J	<0.0007	<0.00083 J	<0.00089	<0.0014	0.02	0.014 J	<0.0031	0.022 J	0.022	0.036
EXPLDEMO-SO-3	0.0075	0.0056 J	0.0045 J	<0.003	0.012	0.0019 J	0.0072	<0.00023	<0.002	0.00073 J	0.0024 J	0.0008 J	<0.00027	0.011	0.0092	<0.0014	0.013 J	0.013	0.02
FMNOL-SO-1	0.0063	0.0053 J	0.0024	0.0025 J	0.0087	0.0017 J	0.0046	<0.000099	0.0018	0.00077	0.0014 J	0.0006	<0.00023	0.0039 J	0.0064	0.0013 J	8.8E-03 J	9.8E-03 J	0.0096 J
FMNOL-SO-2	0.0068	0.0058	0.0021	0.0023	0.0085	0.0017	0.0046	<0.00011	0.0019	0.00085	0.0017 J	0.0004 J	<0.00026	0.0017	0.0024 J	0.00065 J	0.0045 J	0.0038	0.0042
FMNOL-SO-3	0.0066	0.0061	0.0023	0.0017	0.0092	0.002	0.0049	<0.00012	0.0018	0.00052 J	<0.0014	0.00081	0.00086 J	0.0028	0.004	0.0011 J	0.0067 J	0.0068	0.0066
DU-19-SO-1	<0.0023	<0.0026	0.0022	<0.0024	0.0058	<0.0015	0.0046	<0.0011	0.0019	<0.0012	<0.0014	<0.0015	<0.0024	0.02	<0.018	<0.0077	0.045 J	0.042	0.059
DU-19-SO-2	<0.0015	0.0033 J	<0.0018	<0.0024	<0.0012	<0.0015	0.0051	<0.0011	<0.002	<0.0012	<0.0014	<0.0015	<0.0024	0.018	<0.015	<0.0066	0.034 J	0.035	0.047
DU-19-SO-3	0.0054	0.01	0.0052	<0.0023	0.016	<0.0015	0.011	<0.00098	0.0044	<0.0012	<0.003	<0.0028	<0.0023	0.041	0.042 J	0.02 J	0.13 J	0.14	0.15
DU-20-SO-1	<0.031 J	0.04 J	0.02 J	<0.0023 J	0.048 J	0.018 J	0.035 J	<9.7E-04 J	0.011 J	<0.0044 J	0.016 J	<0.0087 J	<0.0023 J	0.11 J	0.12 J	0.049 J	0.34 J	0.26 J	0.35 J
DU-20-SO-2	0.049 J	0.039 J	0.023 J	<0.0028 J	0.064 J	0.17 J	0.042 J	<0.0012 J	0.015 J	<0.0014 J	0.022 J	0.0092 J	<0.0028 J	0.14 J	0.16 J	0.062 J	0.43 J	0.39 J	0.5 J
DU-20-SO-3	0.053	0.043	0.026	<0.0028	0.07	0.021	0.044	<0.0012	0.017	<0.0051	0.025	0.012 J	<0.0028	0.15	0.17	0.063 J	<0.035	0.36	0.48
DU-21-SO-1	0.028 J	0.034	0.02	<0.0031	0.058	0.022 J	0.034	<0.0014	0.012 J	<0.013	0.011 J	0.014	<0.0031	0.068	0.059 J	0.026 J	0.18 J	0.17	0.23
DU-21-SO-2	0.025 J	0.032	0.016	<0.003	0.052	0.018 J	0.027	<0.0013	0.012 J	<0.014	<0.0018	0.0069 J	<0.003	0.068	0.059 J	0.027 J	0.18 J	0.17	0.23
DU-21-SO-3	0.043 J	0.046	0.02	<0.003	0.062	0.024 J	0.036	<0.0013	0.014 J	<0.017	<0.0064	0.01 J	<0.003	0.084	0.075 J	0.031 J	0.24 J	0.23	0.3

Table 2. RI Phase I/II: Polychlorinated Biphenyls (PCBs) Congeners (only detected congeners shown)

Location	170	174	177	18	180	183	187	189	194	195	203	206	209	28	31	33	37	44	49
DU-22-SO-1	0.0025	0.003 J	<0.0016	<0.0022	0.0053	<0.0014 J	0.0033	<0.00095	<0.0018	<0.0011	<0.0013	<0.0014	<0.0022	<0.0022	<0.00098 J	<0.0026	0.0027 J	0.0025	0.0029 J
DU-22-SO-2	0.0067	0.0075	0.0029 J	<0.0022	0.014	0.0017 J	<0.0016	<0.00095	0.0029	0.0012 J	0.0022 J	<0.0014	<0.0022	<0.0022	<0.00098	<0.0026	<0.0025	0.0035	0.0036
DU-22-SO-3	<0.0014	<0.0011	<0.0016	<0.0022	0.0023	<0.0014	0.0016 J	<0.00095	<0.0018	<0.0011	<0.0013	<0.0014	<0.0022	<0.0022	<0.00098	<0.0026	<0.0017	0.0023	0.0022
Sediment ISM Decision Units (mg/kg)																			
DU-1-SD-1	<0.0035 J	<0.0027	<0.004	0.049 J	0.009	<0.0035	0.0051	<0.0024	<0.0044	<0.0027	<0.0032	<0.0035	<0.0054	0.14	0.1	<0.031 J	0.16 J	0.17	0.21
DU-1-SD-2	<0.0034	<0.0027	<0.0039	<0.0053	0.0061	<0.0034	<0.0039	<0.0023	<0.0044	<0.0027	<0.0032	<0.0034	<0.0053	0.03	0.023	<0.0063	0.048	0.035	0.049
DU-1-SD-3	<0.0035	<0.0028	<0.004	0.02	0.011	<0.0035	0.008	<0.0024	<0.0045	<0.0028	<0.0033	<0.0035	<0.0055	0.07	0.044	<0.0065	0.067	0.038	0.06
DU-2-SD-1	<0.0016	<0.0013	<0.0019	<0.0026	<0.0013	<0.0016	<0.0019	<0.0011	<0.0021	<0.0013	<0.0015	<0.0016	<0.0026	<0.0026	<0.0012	<0.003	<0.002	<0.002	<0.0015
DU-2-SD-2	<0.0014	<0.0011	<0.0016	<0.0022	<0.0011	<0.0014	<0.0016	<0.00095	<0.0018	<0.0011	<0.0013	<0.0019	<0.0022	<0.0022	0.0029 J	<0.0026	<0.0017	<0.0017	<0.0013
DU-2-SD-3	<0.0017	<0.0014	<0.0019	<0.0027	<0.0014	<0.0017	<0.0019	<0.0012	<0.0022	<0.0014	<0.0016	<0.0017	<0.0027	<0.0027	<0.0019	<0.0031	<0.0021	<0.0021	<0.0016
DU-3-SD-1	<0.0048	4.3E-03 J	0.0096	0.13	0.032	0.0081	0.017	<0.0033	<0.0062	<0.0038	<0.0045	<0.0048	<0.0076	0.15	0.15	0.054 J	0.27 J	0.29	0.35
DU-3-SD-2	<0.017	8.6E-03 J	0.0073	0.11	0.031	0.0056	0.015	<0.0027	0.0054 J	<0.0056	<0.0037	<0.004	<0.0063	0.15	0.13	0.044 J	0.22 J	0.25	0.31
DU-3-SD-3	<0.0042	0.011	0.0085	0.14	0.028	0.0057 J	0.016	<0.0029	<0.0054	<0.0033	<0.0056	0.0069	<0.0066	0.17	0.18	0.078 J	0.27 J	0.29	0.34
DU-4-SD-1	<0.0094	0.0075 J	0.0085	0.2	0.04	0.0097	0.022	<0.0033	0.0081	<0.0038	0.0064 J	<0.0048	<0.0075	0.27	0.26	0.11 J	0.38 J	0.47	0.48
DU-4-SD-2	<0.0047	<0.0037	0.0072	0.21	0.025	0.0052 J	0.014	<0.0032	<0.0061	<0.0037	<0.0044	<0.0047	<0.0074	0.2	0.23 J	0.078 J	0.26 J	0.28	0.33
DU-4-SD-3	<0.0045	<0.0035	<0.0051	0.13	0.025	<0.0045	0.013	<0.003	<0.0057	<0.0035	<0.0041	<0.0045	<0.007	0.17	0.18	0.068 J	0.25 J	0.29	0.3
DU-5-SD-1	<0.015	0.023	0.016	0.14	0.066	0.014	0.029	<4.3E-03	0.015	0.012 J	7.8E-03 J	<0.0063	<9.8E-03	0.18	0.21	0.06 J	0.43 J	0.47	0.54
DU-5-SD-2	<0.03	0.022	0.017	0.11	0.065	0.013	0.03	<0.0045	0.02	<9.3E-03	<9.8E-03	<0.0066	<0.011	0.15	0.15	<0.05	0.37 J	0.37	0.46
DU-5-SD-3	<0.038	0.019	0.013	0.068	0.048	0.01 J	0.027	<0.0037	0.011	<4.3E-03	<0.005	<0.0054	<0.0085	0.11	0.1	0.045 J	0.28 J	0.3	0.37
DU-6-SD-1	<7.3E-03 J	0.0099	<0.0084	0.21	0.045	0.008 J	0.023 J	<0.005	<0.0094	<0.0058	<6.8E-03	<7.3E-03	<0.012	0.28	0.32	0.11 J	0.42 J	0.39	0.49
DU-6-SD-2	<0.0072	0.012 J	0.016	0.11	0.057	0.012	0.032	<4.9E-03	0.013	<0.0057	<0.0067	<0.0072	<0.012	0.15	0.15	0.044	0.25 J	0.27	0.42
DU-6-SD-3	<0.054	0.012	0.014	0.16	0.055	0.012	0.031	<0.0051	<9.5E-03	<0.0059	<0.0069	<0.0074	<0.012	0.21	0.2	<6.5E-02	0.35 J	0.35	0.5
DU-7A-SD-1	<0.00019 J	<0.00015 J	<0.00022 J	<0.0003 J	<0.00015 J	<0.00019 J	<0.00022 J	<0.00013 J	<0.00025 J	<0.00015 J	<0.00018 J	<0.00019 J	<0.0003 J	<0.0003 J	0.0005 J	<0.00036 J	<0.00024 J	<0.00024 J	<0.00018 J
DU-7A-SD-2	<0.0002 J	<0.00016 J	<0.00023 J	<0.00031 J	<0.00016 J	<0.0002 J	<0.00023 J	<0.00014 J	<0.00026 J	<0.00016 J	<0.00019 J	<0.0002 J	<0.00031 J	<0.00031 J	<0.00014 J	<0.00037 J	<0.00024 J	<0.00024 J	<0.00019 J
DU-7A-SD-3	<0.00019 J	<0.00015 J	<0.00022 J	<0.00029 J	<0.00015 J	<0.00019 J	<0.00022 J	<0.00013 J	<0.00024 J	<0.00015 J	<0.00018 J	<0.00019 J	<0.00029 J	<0.00029 J	<0.00013 J	<0.00035 J	<0.00023 J	<0.00023 J	<0.00018 J
DU-7B-SD-1	<0.0037	<0.0029	<0.0042	0.29	0.015	<0.0037	0.0096	<0.0025	<0.0048	<0.0029	<0.0035	<0.0037	<0.0058	0.28	0.34	0.16	0.25 J	0.26	0.34
DU-7B-SD-2	<0.0039	<0.0031	<0.0044	0.23	0.01	<0.0039	0.0078	<0.0026	<0.005	<0.0031	<0.0036	<0.0039	<0.0061	0.25	0.26	0.11 J	0.21 J	0.19	0.29
DU-7B-SD-3	<0.045	<0.036	<0.051	2.6	0.13	<0.045	0.1	<0.031	<0.058	<0.036	<0.042	<0.045	<0.071	3	3.3	1.5 J	3 J	3.1	3.6
DU-7C-SD-1	<0.012	<9.3E-03	<0.014	0.13 J	<9.3E-03	<0.012	<0.014	<8.1E-03	<0.016	<9.3E-03	<0.011	<0.012	<0.019	0.15	0.14	0.083	0.19 J	0.21	0.23
DU-7C-SD-2	<0.013	<0.0099	<0.015	0.15 J	0.014	<0.013	<0.015	<8.6E-03	<0.017	<0.0099	<0.012	<0.013	<0.02	0.13	0.15 J	0.084	0.17 J	0.18	0.24
DU-7C-SD-3	<0.015	<0.012	<0.017	0.042 J	0.015	<0.015	<0.017	<9.8E-03	<0.019	<0.012	<0.014	<0.015	<0.023	0.046 J	0.042 J	<0.032	0.11 J	0.078	0.12
DU-7D-SD-1	4.3E-03 J	<0.0033 J	<0.0032 J	0.32 J	0.019 J	<0.0066 J	<0.02 J	<0.0019 J	<4.9E-03 J	<0.0036 J	0.0055 J	<0.0042 J	<4.3E-03 J	0.35 J	0.36 J	0.18 J	<0.21 J	0.22 J	0.39 J
DU-7D-SD-2	<0.021	0.022 J	<0.028	0.64	0.080	0.024	0.06	<0.0092	<0.018	<0.011	<0.013	<0.014	<0.022	1	0.98	0.43	0.96 J	1.1	1.2
DU-7D-SD-3	<0.014	<0.011	<0.016	0.49	0.024 J	<0.014	<0.016	<0.0094	<0.018	<0.011	<0.013	<0.014	<0.022	0.44	0.55 J	0.16 J	0.28 J	0.3	0.62
DU-8-SD-1	<0.0022	<0.0018	<0.0025	0.016	0.002 J	<0.0022	<0.0025	<0.0015	<0.0028	<0.0018	<0.0021	<0.0022	<0.0035	0.027	0.023 J	<0.008	0.017 J	0.02	0.04 J
DU-8-SD-2	<0.0033	<0.0026	<0.0038	0.048	0.0096	<0.0033	<0.0038	<0.0023	<4.3E-03	<0.0026	<0.0031	<0.0033	<0.0052	0.07	0.081 J	0.026	0.058 J	0.078	0.11
DU-8-SD-3	<0.0026	<0.0021	<0.003	0.047	0.0039 J	<0.0026	<0.003	<0.0018	<0.0034	<0.0021	<0.0025	<0.0026	<0.0041	0.044	0.052 J	0.016	0.035 J	0.043	0.075
DU-9-SD-1	<0.002	<0.0016	<0.0023	0.1	0.0055 J	<0.002	<0.0023	0.006 J	<0.0026	<0.002	0.0019	<0.002	<0.0032	0.091	0.1 J	0.032 J	0.06 J	0.080	0.14
DU-9-SD-2	<0.0018 J	<0.0015 J	<0.0021 J	0.1 J	0.0057 J	<0.0018 J	0.0047 J	<0.0017 J	<0.0024 J	<0.0015 J	0.0019 J	<0.0018 J	<0.0029 J	9.2E-02 J	0.11 J	0.029 J	<0.06 J	0.062 J	0.13 J
DU-9-SD-3	<0.0021	<0.0016	<0.0023	0.083	0.0069	<0.0021	<0.0023	<0.0014	<0.0026	<0.0031	<0.0019	<0.0021	<0.0032	0.091	0.094 J	0.032	6.9E-02 J	0.082	0.13
DU-10-SD-1	<0.00015	<0.00012	<0.00017	<0.00023	0.00014 J	<0.00015	<0.00017	<9.7E-05	<0.00019	<0.00012	<0.00014	<0.00015	<0.00023	<0.00023	<0.0001	<0.00027	<0.00018	<0.00018	0.00036
DU-10-SD-2	<0.00018 J	<0.00014 J	<0.00021 J	<0.00028 J	<0.00033 J	<0.00018 J	<0.00021 J	<0.00012 J	<0.00023 J	<0.00014 J	<0.00017 J	<0.00018 J	<0.00028 J	<0.00028 J	0.0011 J	<0.00033 J	<0.00022 J	<0.00022 J	<0.00017 J
DU-10-SD-3	<0.00015 J	<0.00012 J	<0.00017 J	<0.00023 J	0.0002 J	<0.00015 J	<0.00017 J	<0.000099 J	<0.00019 J	<0.00012 J	<0.00014 J	7.9E-04 J	0.0025 J	<0.00023 J	0.0014 J	<0.00028 J	<0.00018 J	<0.00018 J	0.00023 J
DU-11-SD-1	<0.00023 J	0.00025 J	<0.00026 J	<0.00036 J	0.00077 J	<0.00023 J	0.00037 J	<0.00016 J	<0.0003 J	<0.00018 J	<0.00021 J	0.00045 J	<0.00036 J	<0.00036 J	<0.00016 J	<0.00042 J	<0.00028 J	<0.00028 J	<0.00021 J
DU-11-SD-2	<0.00022 J	<0.00018 J	<0.00026 J	<0.00035 J	0.00053 J	<0.00022 J	0.00027 J	<0.00015 J	<0.00029 J	<0.00018 J	<0.00021 J	0.0003 J	<0.00035 J	<0.00057 J	<0.00016 J	<0.00065 J	<0.00027 J	<0.00027 J	<0.00021 J
DU-11-SD-3	<0.00023 J	<0.00018 J	<0.00026 J	<0.00035 J	0.0005 J	<0.00023 J	<0.00026 J	<0.00015 J	<0.00029 J	<0.00018 J	<0.00021 J	0.00024 J	<0.00035 J	<0.00035 J	<0.00016 J	<0.00041 J	<0.00027 J	<0.00027 J	<0.00021 J
DU-12-SD-1	0.00063	0.00077 J	0.00049 J	<0.0003	0.0023	0.00039 J	0.0011	<0.00013	0.00046 J	<0.00036	0.00039	0.0003	<0.0003	6.8E-04 J	<0.00064	0.00044 J	0.0007	0.00059	0.00074
DU-12-SD-2	<0.00053	0.00051 J	0.00042	<0.00036	0.002	<0.00023	0.00096	<0.00016	0.00036 J	<0.00018	0.0003 J	0.00036	<0.00036	<0.00036	<0.00033	<0.00042	0.00046 J	0.00033 J	0.00056
DU-12-SD-3	<0.00035 J	0.00045 J	<0.00022 J	<0.0003 J	0.0015 J	0.00026 J	0.00074 J	<0.00013 J	<0.00025 J	<0.00015 J	0.0002 J	<0.00019 J	<0.0003 J	<0.0003 J	<0.00014 J	<0.00036 J	0.00039 J	<0.00023 J	0.00036 J

Table 2. RI Phase I/II: Polychlorinated Biphenyls (PCBs) Congeners (only detected congeners shown)

Location	5	52	56	60	66	70	74	8	87	90	95	97	99
	Groundwater (µg/L)												
MW-01	<0.0018	<0.0014	<0.0027	<0.00096	<0.0042	<0.0015	<0.0016	<0.0016	<0.0013	<0.0013	<0.0012	<0.0023	<0.0018
MW-02	<0.021	0.027	0.0085	<0.0059	0.013	0.014 J	<0.0016	0.047	0.002 J	<0.0089	<0.0085	<0.0023	<0.0018
MW-02B	<0.0078	<0.0014	<0.0027	<0.00096	<0.0042	<0.0015	<0.0016	<0.0016	<0.0013	<0.0013	<0.0012	<0.0023	<0.0018
MW-03	<0.0078	0.005	<0.0027	<0.00096	<0.0042	<0.0015	<0.0016	0.01	<0.0013	<0.0013	<0.0012	<0.0023	<0.0018
MW-04	<0.0018	0.0041	<0.0027	<0.0014	<0.0042	0.0016	<0.0016	0.0092	<0.0013	<0.0013	<0.0027	<0.0023	<0.0018
MW-04B	<0.0018	<0.0014	<0.0027	<0.00096	<0.0042	<0.0015	<0.0016	<0.0018	<0.0013	<0.0013	<0.0012	<0.0023	<0.0018
MW-05	<0.0018	0.0016 J	<0.0027	<0.00096	<0.0042	<0.0015	<0.0016	<0.0016	<0.0013	<0.0013	<0.0012	<0.0023	<0.0018
MW-07	<0.0018	<0.0014	<0.0027	<0.00096	<0.0042	<0.0015	<0.0016	<0.0016	<0.0013	<0.0013	<0.0012	<0.0023	<0.0018
MW-08	<0.0018	0.045	0.004 J	<0.003	0.011	0.009	0.0065	0.12	<0.0013	<0.0013	<0.012	<0.0023	0.0024
MW-09	<0.0018	<0.0014	<0.0027	<0.00096	<0.0042	<0.0015	<0.0016	<0.0016	<0.0013	<0.0013	<0.0012	<0.0023	<0.0018
MW-10	<0.0018	<0.0014	<0.0027	<0.00096	<0.0042	<0.0015	<0.0016	<0.0016	<0.0013	<0.0013	<0.0012	<0.0023	<0.0018
MW-12	<0.0018	<0.0014	<0.0027	<0.00096	<0.0042	<0.0037	<0.0016	<0.0016	<0.0013	<0.0013	<0.0012	<0.0023	<0.0018
MW-13	<0.0018	<0.0014	<0.0027	<0.00096	<0.0042	<0.0015	<0.0016	<0.0016	<0.0013	<0.0013	<0.0012	<0.0023	<0.0018
MW-14	<0.0018	<0.0014	<0.0027	<0.00096	<0.0042	<0.0015	<0.0016	<0.0016	<0.0013	<0.0013	<0.0012	<0.0023	<0.0018
MW-15	<0.0041	0.0027	<0.0027	<0.00096	<0.0042	0.0018	<0.0016	0.0054	<0.0013	<0.0013	<0.0015	<0.0023	<0.0018
MW-16	<0.0056	0.037	<0.0027	<0.0075	<0.012	0.0077	<0.0064	0.007	0.002 J	<0.0013	0.012	<0.0023	<0.0018
MW-17	<0.0018	<0.0014	<0.0027	<0.00096	<0.0042	<0.0015	<0.0016	<0.0016	<0.0013	<0.0013	<0.0012	<0.0023	<0.0018
MW-18L	<0.0018	0.0058	<0.0027	0.0014	<0.0042	0.0033	<0.0016	0.0041	<0.0013	<0.0013	0.0025 J	<0.0023	<0.0018
MW-20	<0.0018	0.0019	<0.0027	<0.00096	<0.0042	<0.0015	<0.0016	<0.0016	<0.0013	<0.0013	<0.0012	<0.0023	<0.0018
MW-21	<0.0018	<0.0014	<0.0027	<0.00096	<0.0042	<0.0015	<0.0016	<0.0016	<0.0013	<0.0013	<0.0012	<0.0023	<0.0018
MW-79	<0.0018	<0.0014	<0.0027	<0.00096	<0.0042	<0.0029	<0.0016	<0.0016	<0.0013	<0.0013	<0.0012	<0.0023	<0.0018
	Surface Water (µg/L)												
SW-1	<0.0018	0.0031 J	<0.0027	<0.00096	<0.0042	0.0025	<0.0016	0.0023	<0.0013	<0.0013	<0.002	<0.0023	<0.0018
SW-2	0.0028	0.0086	<0.0027	0.0024	0.0058	0.0048	0.0034	<0.0038	0.0015	<0.0013	<0.0044	<0.0023	<0.0018
SW-3	<0.0018	<0.0014	<0.0027	<0.00096	<0.0042	<0.0015	<0.0016	<0.0016	<0.0013	<0.0013	<0.0012	<0.0023	<0.0018
SW-4	<0.0018J	0.0015 J	<0.0053J	4.3E-03 J	<0.0042J	0.0023 J	<0.0016J	<0.0016J	<0.0013J	<0.0023J	<0.0016J	<0.0023J	<0.0018J
SW-5	<0.0018	0.0023 J	<0.0027	<0.00096	<0.0042	0.002	<0.0016	<0.0016	<0.0013	<0.0013	0.0022	<0.0023	<0.0018
SW-6	<0.0018	<0.0014	<0.0027	<0.00096	<0.0042	<0.0015	<0.0016	<0.0016	<0.0013	<0.0013	<0.0012	<0.0023	<0.0018
SW-7	<0.0018	<0.0014	<0.0027	<0.00096	<0.0042	<0.0015	<0.0016	<0.0016	<0.0013	<0.0013	<0.0012	<0.0023	<0.0018
SW-8	<0.0018	<0.0014	<0.0027	<0.00096	<0.0042	<0.0015	<0.0016	<0.0016	<0.0013	<0.0013	<0.0012	<0.0023	<0.0018
SW-9	<0.0018	<0.0014	<0.0027	<0.00096	<0.0042	0.0018	<0.0016	<0.0016	<0.0013	<0.0013	0.0017 J	<0.0023	<0.0018
SW-10	<0.0018	<0.0014	<0.0027	<0.00096	<0.0042	<0.0015	<0.0016	<0.0016	<0.0013	<0.0013	<0.0012	<0.0023	<0.0018
	Seep (µg/L)												
Seep-1	0.0036	0.027	0.014 J	<0.013	0.022	0.016	0.0082 J	<0.0051	0.006	<0.0015	<0.022	0.0039	0.0067
	Soil ISM Decision Units (mg/kg)												
DU-1-SO-1	<0.003	0.13	0.067	<0.068	0.14	0.13	0.039 J	<9.3E-03	0.027 J	<0.086	<0.12	0.023 J	0.05
DU-1-SO-2	<0.0028	0.19	0.11	<0.14	0.24	0.22	7.3E-02 J	<0.0087	0.044	<0.14	<0.19	0.037 J	0.071
DU-1-SO-3	<0.0031	0.19	0.1	<0.11	0.22	0.21	0.06 J	<9.8E-03	0.043	<0.13	<0.18	0.039 J	0.073
DU-2-SO-1	<0.00012	0.0031	0.0029	0.0038 J	<0.0041	0.0048	0.0017 J	<0.00035	<0.0029	<9.3E-03	<0.0069	0.0014 J	0.0037
DU-2-SO-2	0.00076	0.0022	0.002	<0.0033	<0.00026	0.002 J	<0.0015 J	<0.00039	<0.0016	<8.1E-03	<0.0067	0.00096 J	0.0027
DU-2-SO-3	0.00065 J	0.0029	<0.0031	0.017	0.0044 J	0.0044 J	0.0014 J	<0.00038	<0.0026	<0.0096	<0.0054	0.0015 J	0.0041
DU-3-SO-1	<0.14	2.8	1.9	<2.1 J	3.5 J	3.5	<0.0057 J	0.18	0.99	<0.029 J	<3.6 J	0.67 J	1.2
DU-3-SO-2	<9.5E-02	3.3	2.3	<2.6 J	4.5	3.7	<0.0061 J	0.12	1	<0.031 J	<4.1 J	0.71 J	1.2
DU-3-SO-3	<7.6E-02	2	1.3	<1.3	3.4	2.4	0.87 J	0.093	0.72	<0.028 J	<3.5 J	0.48 J	0.86
DU-4-SO-1	<0.083 J	0.48 J	0.25 J	<0.33 J	0.55 J	0.4 J	0.22 J	9.1E-02 J	0.15 J	<0.012 J	<0.54 J	0.097 J	0.24 J
DU-4-SO-2	<0.049	0.52	0.32	<0.5	0.65 J	0.46	0.26 J	0.055	0.19	<0.013	<0.72	0.14 J	0.26 J
DU-4-SO-3	<0.045	0.4	0.24	<0.38	0.54 J	0.4	0.21 J	0.047	0.16	<0.033	<0.59	0.1 J	0.23 J
DU-5-SO-1	<0.13	2.6	2.4	<2.2	4.3	3.6	1.5 J	0.15 J	1.2	<0.028 J	<4.1	0.85	1.3
DU-5-SO-2	<0.014	2.3 J	2.6	<2.6	4.2	3.4	1.5 J	0.13 J	1.3	<0.028	<8.5	0.97	1.3
DU-5-SO-3	<0.014	3.4	3.3	<2.9	5.1	4.3	2 J	0.11 J	1.6	<0.027	<11	<0.014	1.5
DU-6-SO-1	<0.063	0.77	0.57	<0.64	1.4	1.2	0.37 J	0.067	0.36	<0.054	<1.1	0.25	0.51
DU-6-SO-2	<0.033	0.84	0.62	<0.67	1.4	1.3	0.39 J	0.038	0.37	<0.052	<1.2	0.26	0.48
DU-6-SO-3	<0.058	0.78	0.58	<0.63	1.4	1.2	0.36 J	0.068	0.38	<0.064	<1.1	0.25	0.52

Table 2. RI Phase I/II: Polychlorinated Biphenyls (PCBs) Congeners (only detected congeners shown)

Location	5	52	56	60	66	70	74	8	87	90	95	97	99
DU-7-SO-1	<0.11	5.1 J	3.2 J	<3.8	3.6 J	4.6 J	<2.1	0.13 J	1.7 J	<0.02	<6.1	1.4 J	2.1 J
DU-7-SO-2	<0.41	12	5.7	<7.9	13	8.1	4.3 J	0.28 J	2.9	<0.12	<15	2.2	3.3
DU-7-SO-3	<0.1	5.4	3.7	<4.2	5.3	4.4	2.1 J	<0.034	1.8	<0.021	<6.4	1.4	2.1
DU-8-SO-1	<0.038	0.16	0.15	<0.17	0.23	0.19	0.11 J	0.03 J	0.072	<0.0011	<0.37	0.053	0.096
DU-8-SO-2	<0.017	0.22	0.16	<0.21	0.26	0.23	<0.12	0.016 J	0.089	<0.0011	<0.37	0.071	0.12
DU-8-SO-3	<0.016	0.16	0.13	<0.18	0.21	0.2	0.1 J	0.012 J	7.7E-02 J	<0.0012	<0.33	0.056	0.068 J
DU-9-SO-1	<0.017	1	0.62	<0.8	1.1 J	1	0.47 J	0.081	0.34	<0.052	<1.4	0.25	0.42 J
DU-9-SO-2	<0.096	0.85	0.48	<0.67	0.93 J	0.83	0.38 J	0.11	0.28	<0.044	<1.1	0.22 J	0.35 J
DU-9-SO-3	<0.09 J	0.93 J	0.55 J	<0.74 J	0.99 J	0.88 J	0.44 J	0.1 J	0.3 J	<0.043 J	<1.2 J	0.22 J	0.38 J
DU-10-SO-1	<0.0085	0.064	0.053	<0.056	0.052	0.072	0.032 J	0.0075	0.029	<0.066	<0.12	0.019	0.036
DU-10-SO-2	<4.3E-03	0.06	0.048	<0.063	0.069	0.078	0.036 J	0.0052	0.027 J	<0.067	<9.9E-02	0.018	0.04
DU-10-SO-3	<0.0085	0.053	0.042	<0.052	0.051	0.063	0.029 J	0.011	0.022 J	<0.0012	<0.083	0.015	0.034
DU-11-SO-1	<7.6E-02 J	1.2 J	0.93 J	<0.91 J	1.7 J	1.5 J	0.57 J	0.1 J	0.44 J	1 J	<1.5 J	0.34 J	0.63 J
DU-11-SO-2	<7.6E-02 J	1.2 J	0.8 J	<0.79 J	1.5 J	1.2 J	0.53 J	0.1 J	0.39 J	<0.87 J	<1.5 J	0.3 J	0.55 J
DU-11-SO-3	<0.093 J	1.1 J	0.86 J	<0.85 J	1.5 J	1.3 J	0.54 J	0.12 J	0.41 J	<0.91 J	<1.4 J	0.3 J	0.54 J
DU-12-SO-1	<9.2E-02 J	1.3	1	<1.1	2	1.9	0.61 J	9.9E-02 J	0.51	<1.2	<1.8	0.38	0.64
DU-12-SO-2	<0.14	2.1	1.5	<1.6	3	2.7	0.85 J	0.18	0.77	<1.7	<2.6	0.57	0.98
DU-12-SO-3	<0.063	1.1	0.89	<0.9	1.8	1.6	0.52 J	0.072	0.46	<0.97	<1.5	0.33	0.58
DU-13-SO-1	<7.6E-02	1.3	0.91	<1.1	2	1.7	0.54 J	0.06 J	0.62	<8.8E-02	<1.8	0.45	0.87
DU-13-SO-2	<0.059	1.2	0.84	<0.92	1.9	1.6	0.49 J	0.06	0.56	<0.082	<1.6	0.38	0.77
DU-13-SO-3	<0.06	1.2	0.85	<0.94	2	1.6	0.49 J	0.062	0.56	<0.1	<1.7	0.42	0.81
DU-14-SO-1	<8.8E-03	0.18	0.13	<0.15	0.27	0.24	7.7E-02 J	0.011	0.082 J	<0.015 J	<0.25	0.059 J	0.11
DU-14-SO-2	<0.014	0.2	0.14	<0.17	0.3	0.26	0.086 J	0.015	0.089	<0.016	<0.27	0.062	0.12
DU-14-SO-3	<0.016	0.18	0.13	<0.19	0.28	0.25	0.088	0.019	0.084	<0.015	<0.27	0.053	0.12
DU-15-SO-1	<0.11	1.6	1.1	<1.3	2.4	2.2	0.66 J	0.1	0.63	<9.5E-02	<2	0.46	0.84
DU-15-SO-2	<7.3E-02	1.4	0.98	1	2.2	2	0.58 J	0.089	0.57	<0.089	<1.8	0.44	0.78
DU-15-SO-3	<0.11	2	1.4	<1.5	3	2.7	0.78 J	0.13	0.79	<0.13	<2.5	0.59	1.1
DU-16-SO-1	<0.008 J	0.19 J	0.056 J	<0.23 J	<0.00041 J	0.19 J	0.042 J	0.0097 J	0.044 J	<0.002 J	<2.8 J	0.026 J	0.15 J
DU-16-SO-2	<0.0072 J	0.17 J	0.057 J	<0.25 J	<0.22 J	0.18 J	0.043 J	0.0087 J	0.052 J	<0.0019 J	<0.27 J	0.028 J	0.14 J
DU-16-SO-3	<7.3E-03	0.23	0.069	0.27	<0.28	0.22	0.051 J	0.0085	0.12	<0.0021	<0.34	0.033 J	0.17
DU-17-SO-1	<0.00011	<0.00023	<0.00014	<0.00015	<0.00022	<0.00017	<0.00021	<0.00034	<0.00013	<0.00021	<0.00018	<0.00011 J	<0.00033 J
DU-17-SO-2	<0.00011	<0.00023	<0.00014	<0.00015	<0.00022	0.0002	<0.00021	<0.00033	<0.00013	<0.00021	<0.00017	<0.00011 J	<0.00032 J
DU-17-SO-3	<0.00011	<0.00023	<0.0002	0.00025	<0.00022	0.00027 J	<0.00021	<0.00034	<0.00013	<0.00021	<0.00018	<0.00011 J	<0.00033 J
DU-18-SO-1	<0.00012 J	<0.00025 J	<0.00015 J	<0.00078 J	<0.00024 J	<0.00018 J	<0.00023 J	<0.00037 J	<0.00014 J	<0.00036 J	<0.00019 J	<0.00012 J	<0.00035 J
DU-18-SO-2	<0.00015	<0.00032	<0.00019	0.0019	<0.0003	<0.00022	<0.00029	<0.00046	<0.00028	<0.00029	0.00027 J	<0.00015	<0.00044
DU-18-SO-3	0.00035 J	0.00037	<0.0002	<0.0015	<0.00031	<0.00023	<0.0003	<0.00048	<0.00018	<0.0003	<0.00025	<0.00016	<0.00046
ARMREM-SO-1	<0.031	0.79	0.58	<0.75	0.86	0.36	0.45 J	<0.036	0.23	0.78	<1.2	0.17 J	0.25
ARMREM-SO-2	<0.021	0.76	0.43	<0.46	0.91	0.44	0.31 J	0.019	0.2	<0.48	<0.96	0.14 J	0.23
ARMREM-SO-3	<0.012	0.26	0.18 J	<0.31	0.43	0.38	0.21 J	<0.014	0.13	<0.019	<0.57	0.079	0.16
EXPLDEMO-SO-1	<0.0067	0.041	0.025	<0.038	0.099	0.045	0.018 J	0.008	0.02 J	<0.0012	<8.4E-02	0.011 J	0.029
EXPLDEMO-SO-2	<0.011	0.038	0.031	<0.046	0.075	0.052	0.02 J	0.013	0.023 J	<0.0012	<0.064	0.016 J	0.036
EXPLDEMO-SO-3	<0.0048	0.023	0.015	<0.024	0.041	0.028	0.012 J	0.0058	0.011 J	<0.0011	<0.049	0.0077 J	0.019
FMNOL-SO-1	0.00059	0.014 J	0.0089 J	0.014	0.015 J	0.016	0.0072 J	<6.6E-04	<0.0054	<0.016 J	<0.019	0.0038 J	0.0059 J
FMNOL-SO-2	0.00023 J	0.0052	0.005 J	<9.0E-03	0.007	0.0075	0.0033 J	<0.00034	<0.0033	<0.01	<8.1E-03	0.0022	0.005
FMNOL-SO-3	<0.00012	0.0089	0.006	<7.3E-03	0.0081	0.0091	0.0042 J	<0.00035	<0.0036	<0.013	<0.013	0.0024 J	0.0044
DU-19-SO-1	0.0022	0.073	0.049	<0.05	0.094	0.091	0.033 J	<0.0031	0.026	<0.0019	<0.075	0.018	0.035
DU-19-SO-2	0.002 J	0.059	0.04	<0.041	0.074	0.077	0.026 J	<0.0032	0.024	<0.002	<0.061	0.015	0.03
DU-19-SO-3	<0.00095	0.2	0.17	<0.16	0.23	0.24	0.1 J	<0.003	0.083	<0.0019	<0.22	<0.0063	0.094
DU-20-SO-1	<9.4E-04 J	0.41 J	0.39 J	<0.32 J	0.73 J	0.74 J	0.2 J	<0.014 J	0.18 J	<0.0019 J	<0.43 J	0.14 J	0.24 J
DU-20-SO-2	<0.0012 J	0.76 J	0.52 J	<0.42 J	0.9 J	0.91 J	0.25 J	<0.0036 J	0.24 J	<0.0023 J	<0.71 J	0.2 J	0.3 J
DU-20-SO-3	<0.0012	0.74	0.5	<0.42	0.84	0.86	0.26 J	<0.0036	0.25	<0.43	<0.57	0.2	0.3
DU-21-SO-1	0.012	0.27	0.2	<0.2	0.320	0.29	0.094 J	0.011 J	0.12	<0.0026	<0.27	<8.3E-03	0.19
DU-21-SO-2	<0.0013	0.27	0.2	<0.2	0.31	0.29	0.096 J	0.011 J	0.12	<0.0024	<0.27	0.094	0.17
DU-21-SO-3	<0.0013	0.36	0.25	<0.25	0.4	0.37	0.12 J	0.01 J	0.14	<0.0025	<0.33	0.12	0.21

Table 2. RI Phase I/II: Polychlorinated Biphenyls (PCBs) Congeners (only detected congeners shown)

Location	5	52	56	60	66	70	74	8	87	90	95	97	99
DU-22-SO-1	<9.2E-04 J	0.0037	<0.0022	<0.002	0.0044	0.0036	<0.0018	<0.0029	0.0025 J	<0.005	0.0064 J	0.0015	0.0031
DU-22-SO-2	<9.2E-04	0.0054	0.0037	<0.0023	0.0062	0.0054	0.0028 J	<0.0029	0.0038 J	<0.007	<0.0077	0.0015	0.0046
DU-22-SO-3	<9.2E-04	<0.002	<0.0012	<0.0013	0.0035	0.0026	<0.0018	<0.0029	0.0024 J	<0.0033	0.0032 J	<0.00093	<0.0028
	Sediment ISM Decision Units (mg/kg)												
DU-1-SD-1	<0.044	0.23	0.11	<0.12	0.18	0.15	0.068 J	0.059 J	0.038 J	<0.13	<0.2	0.037 J	0.055 J
DU-1-SD-2	<7.8E-03	0.052	0.037	<0.035	0.055 J	0.036	0.018 J	0.01	0.014	<0.042	<0.052	0.011	0.021
DU-1-SD-3	<0.013	0.064	0.043	<0.046	0.062 J	0.043	0.033 J	0.016	0.013	<0.044	<7.3E-02	0.012	0.027
DU-2-SD-1	<0.0011	<0.0023	<0.0014	<0.0015	<0.0022	<0.0016	<0.0021	<0.0034	<0.0013	<0.0021	<0.0018	<0.0011	<0.0032
DU-2-SD-2	<0.0014	<0.002	<0.0033	<0.0013	<0.0019	<0.0052	<0.0018	<0.0029	<0.0011	<0.0018	<0.002	<0.00093	<0.0028
DU-2-SD-3	<0.0011	<0.0024	<0.0015	<0.0016	<0.0023	<0.0017	<0.0022	<0.0035	<0.0014	<0.0022	<0.0018	<0.0011	<0.0034
DU-3-SD-1	<0.0066	0.43	0.22 J	<0.22	0.38 J	0.36	0.13 J	0.051	0.1	<0.27	<0.38	0.085	0.13
DU-3-SD-2	<7.9E-03	0.39	0.18 J	<0.18	0.34 J	0.31	0.094	0.058	0.088	<0.2	<0.3	0.075	0.1
DU-3-SD-3	<0.045	0.4	0.18 J	<0.19	<0.0057	0.28	9.9E-02 J	0.06	0.074	<0.2	<0.0045	0.067	0.08
DU-4-SD-1	<0.055	0.66	0.29	<0.29	<0.0065	0.48	0.18 J	0.05	0.14	<0.0062	<0.0051	0.11	0.15
DU-4-SD-2	<0.005	0.41	0.16	<0.17	<0.33	0.27	0.11 J	0.068	0.075	<0.2	<0.0051	0.063	0.09
DU-4-SD-3	<0.044	0.4	0.17 J	<0.18	<0.33	0.29	0.1 J	0.059	0.076	<0.2	<0.0048	0.063	0.09
DU-5-SD-1	<0.027	0.68	0.33	<0.071	<0.0085	0.54	0.19 J	<0.015	0.15	<0.51	<0.0067	0.16	0.24
DU-5-SD-2	<0.0044	0.59	0.29 J	<0.083	<9.0E-03	0.47	0.17 J	<0.014	0.16	<0.43	<0.0071	0.15	0.24
DU-5-SD-3	<0.0036	0.47	0.24 J	<0.059	<7.3E-03	0.38	<0.13	<0.012	0.14	<0.39	<0.0058	0.13	0.18
DU-6-SD-1	<0.04 J	0.54	0.34	<0.31	<0.0099 J	0.48	0.19 J	0.054	0.13	<0.33	<7.8E-03	0.1	0.16
DU-6-SD-2	<0.019	0.44	0.31	<0.32	<9.8E-03	0.55	0.17 J	0.024 J	0.16	<0.37	<7.8E-03	0.11	0.19
DU-6-SD-3	<0.026	0.57	0.33	<0.34	<0.011	0.58	0.19 J	0.034	0.16	<9.5E-03	<0.008	0.12	0.21
DU-7A-SD-1	0.00039 J	<0.00028 J	<0.00017 J	0.0012 J	<0.00026 J	<0.00019 J	<0.00025 J	<0.0004 J	<0.00015 J	<0.00025 J	<0.00021 J	<0.00013 J	<0.00038 J
DU-7A-SD-2	<0.00013 J	<0.00028 J	<0.00017 J	<0.00019 J	<0.00027 J	<0.0002 J	<0.00026 J	<0.00041 J	<0.00016 J	<0.00026 J	<0.00021 J	<0.00013 J	<0.00039 J
DU-7A-SD-3	<0.00013 J	<0.00027 J	<0.00016 J	<0.00018 J	<0.00026 J	<0.00019 J	<0.00024 J	<0.00039 J	<0.00015 J	<0.00024 J	<0.0002 J	<0.00013 J	<0.00037 J
DU-7B-SD-1	<0.3	0.41	0.17	<0.15	0.32 J	0.35	0.14 J	0.4	0.036	<0.18	<0.34	0.056	0.082
DU-7B-SD-2	<0.15	0.34	0.13	<0.14	0.27	0.29	0.12 J	0.2	0.024	<0.16	<0.28	0.048	0.082
DU-7B-SD-3	<1.5	4.2	2	<1.8	3.5 J	3.9	1.7 J	2	0.490	<1.9	<3.9	0.65	0.96
DU-7C-SD-1	<7.8E-03	0.29	0.11	<0.13	0.24	0.24	0.09 J	<0.025	0.033	<0.016	<0.23	0.046	0.068
DU-7C-SD-2	<8.3E-03	0.27	0.11	<0.12	0.23	0.24	9.9E-02 J	0.046	0.04	<0.017	<0.24	0.046	0.075
DU-7C-SD-3	<9.5E-03	0.13	0.05 J	<0.061	0.14	0.14	0.039 J	<0.03	<0.049	<0.019	0.11 J	0.036	0.052
DU-7D-SD-1	0.18 J	0.42 J	0.14 J	0.13 J	0.48 J	0.28 J	<0.14 J	<0.26 J	0.056 J	<0.0035 J	<0.88 J	<0.12 J	8.4E-02 J
DU-7D-SD-2	0.31	1.4	<1.2	1	1.6	1.5	0.73 J	<0.43	0.39	<0.84	<1.9	<0.39	0.41
DU-7D-SD-3	0.25	0.68	<0.22	<0.21	0.52	0.46	<0.21	<0.35	0.080	<0.018	<0.99	<0.11	0.13
DU-8-SD-1	0.012	0.032 J	<0.018	<0.019	0.034	0.034 J	<0.016	<0.013	0.0082	<0.0028	<0.058	<8.1E-03	0.011
DU-8-SD-2	0.034	0.11	<0.062	<0.061	0.12	0.11	<0.048	<0.045	0.031	0.063	0.22	<0.028	0.039
DU-8-SD-3	0.018	0.071	<0.031	<0.03	<0.064	0.059	<0.025	<0.025	0.013	<0.0034	0.23	<0.015	0.015
DU-9-SD-1	0.032	0.12	<0.044	0.041	<0.13	0.087	<0.032	<0.043	0.016	<0.0026	<0.0022	<0.027	<0.004
DU-9-SD-2	0.04 J	0.13 J	<0.031 J	0.03 J	<0.12 J	7.7E-02 J	<0.041 J	<0.056 J	0.01 J	<0.0024 J	<0.002 J	<0.025 J	<0.031 J
DU-9-SD-3	0.035	0.13	<0.042	<0.041	<0.13	0.09	<0.047	<0.048	0.011	<0.0026	0.35 J	<0.027	0.03
DU-10-SD-1	<0.000094	<0.00021	<0.00013	<0.00077	<0.0002	<0.00015	<0.00019	<0.0003	<0.00012	<0.00019	<0.00016	<0.000095	<0.00029
DU-10-SD-2	<0.00012 J	0.0003 J	<0.00016 J	<0.0016 J	<0.00024 J	<0.00036 J	<0.00023 J	<0.00037 J	<0.0005 J	<0.00023 J	<0.00019 J	<0.00012 J	<0.00036 J
DU-10-SD-3	<0.000096 J	<0.00021 J	<0.00027 J	<0.0013 J	<0.00028 J	0.00019 J	<0.00019 J	<0.00031 J	0.00039 J	<0.00019 J	<0.00045 J	0.00016 J	<0.0003 J
DU-11-SD-1	<0.0003 J	<0.00033 J	<0.0002 J	<8.8E-04 J	<0.00031 J	<0.00023 J	<0.0003 J	<0.00047 J	<0.00018 J	<0.0003 J	<0.00025 J	<0.00016 J	<0.00046 J
DU-11-SD-2	<0.00015 J	<0.00032 J	<0.00019 J	0.00084 J	<0.0003 J	<0.00022 J	<0.00029 J	<0.00046 J	<0.00018 J	<0.00029 J	<0.00024 J	<0.00015 J	<0.00044 J
DU-11-SD-3	<0.00015 J	<0.00032 J	<0.00019 J	<0.0011 J	<0.0003 J	<0.00023 J	<0.00029 J	<0.00046 J	<0.0041 J	<0.00029 J	<0.00024 J	<0.00015 J	<0.00045 J
DU-12-SD-1	<8.8E-03	0.00072	<0.00061	8.8E-03 J	<0.0012	0.0013 J	<0.00041	<0.0004	<0.0087	<0.00025	<0.00021	0.00041	<0.00074
DU-12-SD-2	<0.0044	0.00043 J	<0.00042	0.0027 J	<9.7E-04	0.00074	<0.00029	<0.00047	<0.0077	<0.00029	<0.00024	0.00026	<0.00056
DU-12-SD-3	<0.0037 J	<0.00028 J	<0.00017 J	0.0015 J	<0.00053 J	0.00054 J	<0.00025 J	<0.0004 J	<0.005 J	<0.00025 J	<0.00021 J	0.0002 J	<0.00038 J

J: Data validation flag indicating result is estimated, but may be used for site evaluation and risk assessment purposes.

Table 3. RI Phase I/II: Polyaromatic Hydrocarbons (PAHs)

Location	Date	2-Methyl naphthalene mg/kg	Acenaphthene mg/kg	Acenaphthylene mg/kg	Anthracene mg/kg	Benzo(a) anthracene mg/kg	Benzo(a) pyrene mg/kg	Benzo(b) fluoranthene mg/kg	Benzo(g,h,i) perylene mg/kg	Benzo(k) fluoranthene mg/kg	Chrysene mg/kg	Dibenzo(a,h) anthracene mg/kg	Dibenzofuran mg/kg	Fluoranthene mg/kg	Fluorene mg/kg	Indeno(1,2,3-cd) pyrene mg/kg	Naphthalene mg/kg	Phenanthrene mg/kg	Pyrene mg/kg
Soil ISM Decision Units																			
DU-1-SO-1	1/27/2020	0.0091	0.0045	0.0090	0.026	0.54	1.6	0.62	2.6	0.12	0.94	0.39	0.21	0.0056	0.54	0.0099	0.13	0.43	0.43
DU-1-SO-2	1/27/2020	0.0096	0.003	0.0079	0.019	0.45	1.3	0.49	2.1	0.080	0.81	0.32	0.13	0.0035	0.43	0.0082	0.11	0.34	0.34
DU-1-SO-3	1/27/2020	0.01	0.0034	0.0099	0.026	0.66	1.7	0.65	2.5	0.1	1.1	0.43	0.17	0.0045	0.55	0.01	0.13	0.45	0.45
DU-2-SO-1	1/16/2020	0.0051	0.0019	0.0068	0.015	0.088	0.11	0.16	0.11	0.053	0.12	0.024	0.13	0.0022	0.099 J	0.0087	0.062	0.14	0.14
DU-2-SO-2	1/16/2020	0.01	0.044	0.01	0.12	0.29	0.29	0.41	0.23	0.14	0.29	0.056	0.52	0.057	0.24 J	0.012	0.45	0.51	0.51
DU-2-SO-3	1/16/2020	0.012	0.031	0.031	0.18	0.7	0.67	0.95	0.58	0.31	0.71	0.13	1	0.035	0.63 J	0.02	0.6	1.1	1.1
DU-3-SO-1	1/27/2020	0.068	0.056	0.018	0.18	3.3	7.6	2.5	11	0.36	5.6	1.3	0.9	0.051	2	0.032	1.1	3	3
DU-3-SO-2	1/27/2020	0.073	0.045	0.022	0.2	4.1	9.1	2.9	13	0.42	6.5	1.5	0.85	0.05	2.2	0.023	1	3.3	3.3
DU-3-SO-3	1/27/2020	0.047	0.036	0.016	0.15	2.6	6	2.1	8.7	0.31	4.4	1.1	0.75	0.04	1.6	0.018	0.8	2.3	2.3
DU-4-SO-1	1/9/2020	0.026	0.05	0.048	0.13	1	1.7	1.4	1.8	0.44	1.4	0.3	1	0.049	0.94 J	0.02	0.59	1.5	1.5
DU-4-SO-2	1/9/2020	0.05	0.041	0.12	0.16	1.4	2	2.1	2	0.62	1.8	0.36	1.3	0.04	1.2 J	0.029	0.55	2.3	2.3
DU-4-SO-3	1/9/2020	0.026	0.047	0.062	0.14	1.3	1.8	2.1	1.8	0.65	1.7	0.33	1.3	0.044	1.1 J	0.032	0.75	2.10	2.1
DU-5-SO-1	1/30/2020	0.05	0.061	0.018	0.17	2.5 J	6	2.2	8.2	0.38	4.4	1.1 J	1.1 J	0.06	1.6 J	0.039	0.89 J	2.2 J	2.2 J
DU-5-SO-2	1/30/2020	0.084	0.034	0.026	0.16	2.8	6.9	2.3	9.3	0.37	5	1.2	0.83	0.038	1.8	0.031	0.83	2.3	2.3
DU-5-SO-3	1/30/2020	0.053	0.041	0.024	0.16	2.6	6.3	2.3	8.8	0.39	4.4	1.2	1	0.041	1.7	0.024	0.79	2.3	2.3
DU-6-SO-1	1/29/2020	0.02	0.0082	0.0046	0.044	0.92	2.3	0.77	3.7	0.094	1.5	0.46	0.18	0.011	0.68	0.0091	0.25	0.8	0.8
DU-6-SO-2	1/29/2020	0.019	0.008	0.0053	0.041	0.78	2	0.69	3.5	0.09	1.3	0.41	0.17	0.011	0.63	0.01	0.22	0.71	0.71
DU-6-SO-3	1/29/2020	0.021	0.0084	0.0056	0.054	0.97	2.3	0.85	3.7	0.12	1.6	0.47	0.25	0.012	0.72	0.0085	0.32	0.88	0.88
DU-7-SO-1	1/7/2020	0.054	0.11 J	0.026	0.17 J	1.6 J	3.5	1.6 J	4.3	0.38 J	2.6 J	0.67 J	1.1 J	0.12 J	1.4 J	0.089	1.1 J	2 J	2 J
DU-7-SO-2	1/7/2020	0.047	0.05	0.036	0.13	2.3	5.1	2	6.8	0.47	3.6	0.99	0.72	0.069	1.9	0.031	0.67	2.2	2.2
DU-7-SO-3	1/7/2020	0.073	0.16	0.033	0.2	2.1	4.4	2.1	5.8	0.53	3.3	0.86	1.5	0.12	1.8	0.076	1.500	2.5	2.5
DU-8-SO-1	1/8/2020	0.013	0.027	0.0096	0.076	0.32	0.39	0.36	0.36	0.13	0.39	0.062	0.5	0.024	0.2	0.026	0.43	0.57	0.57
DU-8-SO-2	1/8/2020	0.0056	0.0069	0.0092	0.022	0.19	0.32	0.28	0.37	0.089	0.27	0.058	0.19	0.0074	0.18	0.0087	0.11	0.28	0.28
DU-8-SO-3	1/8/2020	0.0084	0.0058	0.008	0.021	0.24	0.4	0.33	0.42	0.1	0.36	0.069	0.27	0.0049	0.21	0.012	0.17	0.38	0.38
DU-9-SO-1	1/9/2020	0.047	0.026	0.043	0.11	1.6	3.4	1.6	4.5	0.37	2.5	0.59	0.77	0.033	1.4 J	0.03	0.64	1.9	1.9
DU-9-SO-2	1/9/2020	0.068	0.13	0.05	0.31	2.2	4.4	2.4	5.6	0.65	3.3	0.74	2.1	0.15	1.9 J	0.084	1.7	2.9	2.9
DU-9-SO-3	1/9/2020	0.044	0.034	0.047	0.13	1.7	3.7	1.8	4.8	0.4	2.7	0.63	0.87	0.04	1.5 J	0.03	0.76	2.10	2.1
DU-10-SO-1	1/8/2020	0.0053	0.0032	0.013	0.016	0.14	0.29	0.21	0.42	0.052	0.22	0.051	0.11	0.0036	0.16	0.012	0.081	0.19	0.19
DU-10-SO-2	1/8/2020	0.0065	0.0049	0.027	0.031	0.16	0.38	0.35	0.59	0.11	0.26	0.080	0.13	0.0057	0.29	0.012	0.097	0.22	0.22
DU-10-SO-3	1/8/2020	0.007	0.0036	0.018	0.021	0.14	0.31	0.24	0.46	0.062	0.23	0.059	0.12	0.0039	0.18	0.013	0.087	0.19	0.19
DU-11-SO-1	1/30/2020	0.052	0.034	0.033	0.15	1.9	5.3	2	8.6	0.41	3	0.92	1	0.038	1.6	0.032	0.74	2	2
DU-11-SO-2	1/30/2020	0.056	0.033	0.039	0.16	2.1	5.4	2.1	8.6	0.42	3.2	0.99	1.1	0.037	1.7	0.034	0.75	2.10	2.1
DU-11-SO-3	1/30/2020	0.062	0.049	0.037	0.19	2.1	5.4	2.1	8.4	0.42	3.2	0.95	1.4	0.052	1.7	0.045	1	2.3	2.3
DU-12-SO-1	1/28/2020	0.061	0.036	0.031	0.19	3.1 J	8.1	2.8 J	13	0.43	5.2 J	1.5 J	0.99	0.04	2.3 J	0.033	0.98 J	2.9 J	2.9 J
DU-12-SO-2	1/28/2020	0.1	0.051	0.049	0.3	5.1	14	4.6	22	0.68	8.7	2.6	1.5	0.065	4	0.054	1.6	4.8	4.8
DU-12-SO-3	1/28/2020	0.04	0.023	0.019	0.12	2	5.1	1.8	8.1	0.25	3.2	0.96	0.61	0.027	1.4	0.021	0.63	1.90	1.9
DU-13-SO-1	1/29/2020	0.17	0.24	0.35	1.2	3.7	7	4.4	11	0.86	5.4	1.5	3.8	0.25	3.1	0.3	2.5	4.5	4.5
DU-13-SO-2	1/29/2020	0.038	0.015	0.025	0.09	1.2	2.8	1.2	4.9	0.21	1.9	0.62	0.54	0.019	1	0.061	0.43	1.2	1.2
DU-13-SO-3	1/29/2020	0.028	0.012	0.017	0.066	0.91	2.3	0.97	4.1	0.15	1.4	0.51	0.41	0.014	0.85	0.038	0.33	0.89	0.89
DU-14-SO-1	1/17/2020	8.8E-03 J	0.0072 J	0.024 J	0.039 J	0.37 J	0.89 J	0.5 J	1.3 J	0.12 J	0.63 J	0.17 J	0.21 J	0.011 J	0.41 J	0.021 J	0.14 J	0.44 J	0.44 J
DU-14-SO-2	1/17/2020	0.0075 J	0.006 J	0.023 J	0.04 J	0.31 J	0.71 J	0.44 J	1 J	0.1 J	0.49 J	0.14 J	0.2 J	6.8E-03 J	0.35 J	0.019 J	0.13 J	0.36 J	0.36 J
DU-14-SO-3	1/17/2020	0.0072 J	0.0087 J	0.027 J	0.057 J	0.45 J	1 J	0.61 J	1.4 J	0.15 J	0.72 J	0.2 J	0.29 J	0.011 J	0.48 J	0.014 J	0.16 J	0.53 J	0.53 J
DU-15-SO-1	1/28/2020	0.027	0.0092	0.016	0.054	0.76	1.9	0.82	3.3	0.14	1.2	0.41	0.35	0.012	0.7	0.041	0.28	0.73	0.73
DU-15-SO-2	1/28/2020	0.12	0.17	0.24	0.93	2.8	6.2	3.3	10	0.65	4.2	1.2	2.9	0.18	2.3	0.17	1.9	3.6	3.6
DU-15-SO-3	1/28/2020	0.13	0.19	0.32	1.1	3	6	3.7	10	0.71	4.5	1.2	3.3	0.2	2.5	0.21	2.1	4	4
DU-16-SO-1	1/10/2020	0.26 J	0.086 J	0.3 J	0.41 J	0.63 J	0.7 J	2.3 J	1.3 J	0.55 J	0.83 J	0.28 J	1.4 J	0.11 J	1.4 J	0.5 J	1.1 J	1.1 J	1.1 J
DU-16-SO-2	1/10/2020	0.23	0.07	0.27	0.35	0.6	0.63	2.1	1.1	0.51	0.76	0.25	1.1	0.094	1.2	0.45	0.93	0.92	0.92
DU-16-SO-3	1/10/2020	0.4	0.13	0.45	0.67	0.85	0.96	3.1	1.8	0.74	1.2	0.39	1.7	0.17	1.8	0.87	1.50	1.5	1.5
DU-17-SO-1	1/9/2020	0.0018	0.00084	0.00096	0.0012	0.0048	0.0057	0.011	0.0048	0.0031	0.0094	0.0011	0.0095	0.0013	0.0051 J	0.0033	0.01	0.0078	0.0078
DU-17-SO-2	1/9/2020	0.0008	<0.00036	<0.00033	0.00041	0.0021	0.0024	0.0044	0.0023	0.001	0.0052	0.00038	0.0051	<0.00067	0.002 J	0.0023	0.0069	0.0033	0.0033
DU-17-SO-3	1/9/2020	0.00078	<0.00035	0.00039	0.00047	0.0026	0.0034	0.0061	0.0031	0.0016	0.0059	0.00061	0.0056	<6.6E-04	0.003 J	0.002	0.0067	0.0044	0.0044
DU-18-SO-1	4/17/2020	<0.00056 J	0.00071	0.0037	0.0042	0.01	0.018	0.04	0.015 J	0.0082	0.024	0.0039	N/A	0.0260	0.0011	0.016	0.0061	0.0180	0.021
DU-18-SO-2	4/17/2020	0.0032	0.0011	0.0077	0.0065	0.016	0.03 J	0.069	0.023 J	0.014	0.043	0.0066	N/A	0.045	0.0016	0.026	0.011	0.031	0.027
DU-18-SO-3	4/17/2020	0.0034	0.0015	0.0098	0.0096	0.02	0.034 J	0.093	0.029 J	0.02	0.026	0.0083	N/A	0.061	0.0029	0.034	0.014	0.038	0.034

Table 3. RI Phase I/II: Polyaromatic Hydrocarbons (PAHs)

Location	Date	2-Methyl naphthalene mg/kg	Acenaphthene mg/kg	Acenaphthylene mg/kg	Anthracene mg/kg	Benzo(a) anthracene mg/kg	Benzo(a) pyrene mg/kg	Benzo(b) fluoranthene mg/kg	Benzo(g,h,i) perylene mg/kg	Benzo(k) fluoranthene mg/kg	Chrysene mg/kg	Dibenzo(a,h) anthracene mg/kg	Dibenzofuran mg/kg	Fluoranthene mg/kg	Fluorene mg/kg	Indeno(1,2,3-cd) pyrene mg/kg	Naphthalene mg/kg	Phenanthrene mg/kg	Pyrene mg/kg
ARMREM-SO-1	1/16/2020	0.022	0.11	0.066	0.31	2.2	3	2.5	3.3	0.78	2.8	0.55	3.8	0.095	1.4 J	0.039	1.8	3.8	3.8
ARMREM-SO-2	1/16/2020	0.016	0.056	0.069	0.2	1.7	2.7	2.2	3.4	0.73	2.4	0.57	2.2	0.055	1.4 J	0.027	1.2	2.7	2.7
ARMREM-SO-3	1/16/2020	0.011	0.031	0.019	0.11	1.4	2.9	1.6	4.3	0.41	2	0.65	1	0.026	1.3 J	0.011	0.49	1.7	1.7
EXPLDEMO-SO-1	1/10/2020	0.004	0.004	0.0068	0.011	0.1	0.15	0.19	0.17	0.059	0.14	0.031	0.18	0.0035	0.11	0.0052	0.062	0.15	0.15
EXPLDEMO-SO-2	1/10/2020	0.0027	0.0031	0.0079	0.0095	0.094	0.13	0.18	0.14	0.059	0.13	0.027	0.17	0.0026	0.1	<0.00061	0.044	0.14	0.14
EXPLDEMO-SO-3	1/10/2020	0.0031	0.0041	0.0072	0.012	0.12	0.19	0.26	0.19	0.083	0.16	0.037	0.18	0.0037	0.13	0.0035	0.061	0.2	0.2
FMNOL-SO-1	1/15/2020	0.0034	0.0013	0.0086	0.0069	0.17	0.18	0.12	0.12	0.037	0.28	0.024	0.059	0.0018	0.073 J	0.0049	0.042	0.21	0.21
FMNOL-SO-2	1/15/2020	0.0026	0.0013	0.01	0.0064	0.043	0.073	0.1 J	0.069	0.035	0.065	0.014	0.047	0.0014	0.066 J	0.005	0.026	0.063	0.063
FMNOL-SO-3	1/15/2020	0.005	0.0021	0.016	0.013	0.082	0.12	0.17 J	0.12	0.061	0.1	0.025	0.1	0.004	0.12 J	0.01	0.05	0.12	0.12
DU-19-SO-1	9/15/2020	0.0031 J	0.0027 J	0.0037 J	0.0092 J	0.15 J	0.4 J	0.15 J	0.57 J	0.026 J	0.26 J	0.066 J	<0.0034 J	0.044 J	<0.0032 J	0.15 J	<0.0027 J	0.054 J	0.16 J
DU-19-SO-2	9/15/2020	4.3E-03 J	0.0029 J	0.0054 J	0.014 J	0.22 J	0.61 J	0.21 J	0.85 J	0.038 J	0.4 J	0.1 J	<0.0035 J	0.059 J	0.0041 J	0.23 J	0.0042 J	7.3E-02 J	0.24 J
DU-19-SO-3	9/15/2020	0.0031 J	0.0028 J	0.0036 J	0.013 J	0.24 J	0.65 J	0.21 J	0.9 J	0.036 J	0.42 J	0.11 J	<0.0033 J	0.049 J	0.0032 J	0.24 J	<0.0026 J	6.9E-02 J	0.24 J
DU-20-SO-1	9/15/2020	0.017 J	0.0094 J	0.0075 J	0.068 J	1 J	3.1 J	0.91 J	4.5 J	0.15 J	1.8 J	0.55 J	0.0053 J	0.19 J	0.015 J	1.1 J	9.5E-03 J	0.35 J	1 J
DU-20-SO-2	9/15/2020	0.023 J	0.013 J	0.01 J	0.078 J	1.2 J	3.5 J	1 J	5 J	0.18 J	2.1 J	0.61 J	0.01 J	0.21 J	0.019 J	1.3 J	0.022 J	0.39 J	1.2 J
DU-20-SO-3	9/15/2020	0.027 J	0.014 J	0.012 J	8.4E-02 J	1.3 J	4.2 J	1.3 J	6.2 J	0.26 J	2.1 J	0.75 J	0.011 J	0.22 J	0.02 J	1.3 J	0.026 J	0.41 J	1.3 J
DU-21-SO-1	9/16/2020	0.031 J	0.036 J	0.041 J	0.15 J	1 J	2.4 J	1 J	3.8 J	0.16 J	1.5 J	0.52 J	0.042 J	0.54 J	0.042 J	0.85 J	0.05 J	0.41 J	0.98 J
DU-21-SO-2	9/16/2020	0.029 J	0.026 J	0.041 J	0.13 J	0.87 J	2.1 J	0.9 J	3.3 J	0.13 J	1.3 J	0.45 J	0.039 J	0.44 J	0.031 J	0.73 J	0.044 J	0.32 J	0.8 J
DU-21-SO-3	9/16/2020	0.04 J	0.041 J	0.043 J	0.17 J	0.95 J	2.2 J	0.95 J	3.6 J	0.15 J	1.3 J	0.48 J	0.05 J	0.57 J	0.051 J	0.78 J	6.5E-02 J	0.38 J	0.9 J
DU-22-SO-1	9/16/2020	0.013 J	0.0085 J	0.012 J	0.028 J	0.18 J	0.35 J	0.34 J	0.44 J	0.097 J	0.24 J	0.068 J	0.0082 J	0.27 J	0.0066 J	0.23 J	8.1E-03 J	0.12 J	0.33 J
DU-22-SO-2	9/16/2020	8.3E-03 J	9.5E-03 J	0.021 J	0.057 J	0.23 J	0.41 J	0.4 J	0.56 J	0.12 J	0.32 J	0.096 J	8.1E-03 J	0.32 J	0.0082 J	0.34 J	0.0064 J	0.17 J	0.37 J
DU-22-SO-3	9/16/2020	0.015 J	0.0023 J	0.015 J	0.017 J	0.13 J	0.3 J	0.23 J	0.43 J	0.062 J	0.21 J	7.3E-02 J	6.8E-03 J	0.13 J	0.0022 J	0.21 J	0.0087 J	0.046 J	0.16 J
Sediment ISM Decision Units																			
DU-1-SD-1	2/7/2020	0.0093	0.0072	0.005	0.048	0.6	1.1 J	0.34	1.3	0.081	1 J	0.16	0.0048	0.16	0.014	1.3	0.0048	0.35	0.77
DU-1-SD-2	2/7/2020	0.008	0.059	0.0023	0.19	0.76	0.67	0.8	0.4	0.28	0.86	0.12	0.026	1.3	0.061	0.41	0.012	0.67	1.1
DU-1-SD-3	2/7/2020	0.008	0.0045	0.0059	0.023	0.24	0.67	0.28	1.2	0.066	0.39	0.12	0.0035	0.14	0.0084	1.2	0.0063	0.12	0.35
DU-2-SD-1	2/6/2020	0.0037	0.00054	0.001	0.0022	0.0088	0.0081	0.017	0.01	0.0037	0.018	0.0023	0.0022	0.032	0.00078	0.0082	0.0086	0.027	0.016 J
DU-2-SD-2	2/6/2020	0.0039	0.00049	0.001	0.0022	0.0083	0.0069	0.017	0.0087	0.0037	0.019	0.0022	0.0026	0.03	0.00092	0.0082	0.0085	0.027	0.015 J
DU-2-SD-3	2/6/2020	0.005	0.0022	0.0018	0.0056	0.018	0.016	0.029	0.016	0.0072	0.028	0.004	0.0036	0.057	0.0024	0.014	0.012	0.047	0.031 J
DU-3-SD-1	2/5/2020	0.034	0.13	0.0049	0.39	2	2.6	1.9	3.6	0.55	2.4	0.5 J	0.05	3.7	0.12	1.1 J	0.024	1.8	3.1
DU-3-SD-2	2/5/2020	0.023	0.0066	0.0032	0.043	0.68	2	0.62	3.7	0.073	1.1	0.39 J	0.0051	0.17	0.012	0.62 J	0.0086	0.24	0.7
DU-3-SD-3	2/5/2020	0.027	0.0081	0.0046	0.046	0.78	2.4	0.74	4.7	0.091	1.3	0.49 J	0.0073	0.17	0.014	0.78 J	0.01	0.25	0.81
DU-4-SD-1	2/4/2020	0.016	0.015	0.011	0.045	0.39	0.88	0.39	1.5	0.066	0.63	0.18 J	0.0095	0.37	0.019	0.31 J	0.015	0.21	0.48
DU-4-SD-2	2/4/2020	0.04	0.029	0.011	0.042	0.49	1	0.68	1.6	0.18	1	0.21 J	0.056	1.5	0.027	0.42 J	0.092	1	1.1
DU-4-SD-3	2/4/2020	0.015	0.01	0.0089	0.036	0.36	0.98	0.39	1.8	0.064	0.61	0.21 J	0.0093	0.25	0.017	0.35 J	0.017	0.15	0.4
DU-5-SD-1	2/5/2020	0.26	0.18	0.16	0.75	1.4	1.8	2.3	3.1	0.54	1.9	0.48 J	0.32	2.5	0.21	1.2 J	0.51	1.6	2
DU-5-SD-2	2/5/2020	0.25	0.25	0.2	0.87	1.7	2	2.9	3.4	0.69	2.1	0.55 J	0.34	3.1	0.29	1.5 J	0.52	2.1	2.4
DU-5-SD-3	2/5/2020	0.11	0.15	0.084	0.41	0.9	1.2	1.3	2.1	0.29	1.2	0.31 J	0.16	1.7	0.12	0.76 J	0.22	1.1	1.3
DU-6-SD-1	2/3/2020	0.041	0.021	0.016	0.058 J	0.71 J	1.8 J	0.74 J	3.5	0.099	1.2 J	0.39 J	0.03 J	0.35 J	0.031 J	0.63 J	0.092	0.26 J	0.79 J
DU-6-SD-2	2/3/2020	0.058	0.049	0.022	0.096	0.95	2.4	0.99	4.4	0.14	1.6	0.52 J	0.05	0.51	0.05	0.86 J	0.11	0.44	1.1
DU-6-SD-3	2/3/2020	0.051	0.03	0.028	0.11	0.84	2.1	0.91	3.9	0.15	1.4	0.47 J	0.041	0.59	0.038	0.78 J	0.11	0.39	0.97
DU-7A-SD-1	3/18/2020	0.0011	0.0017	0.0013	0.0017	0.0058	0.0087	0.013	0.0085	0.004	0.011	0.0017	0.001	0.013	0.0013	0.0058	0.0018	0.006	0.013
DU-7A-SD-2	3/18/2020	0.00073	0.0016	0.0014	0.0065	0.013	0.013 J	0.02	0.0067	0.007	0.019	0.002	0.0015	0.044	0.003	0.0075	0.0015 J	0.027	0.038
DU-7A-SD-3	3/18/2020	0.00082	0.0017	0.0013	0.0028	0.0095	0.011	0.014	0.0076	0.005	0.013	0.0018	0.0013	0.019	0.0017	0.0058	0.0024 J	0.01	0.02
DU-7B-SD-1	2/11/2020	0.026	0.015	0.0078	0.068	1.1	3.7	0.95	5.6	0.22	1.9	0.51	0.011	0.21	0.034	5.6	0.015	0.4	1.1
DU-7B-SD-2	2/11/2020	0.0096	0.0096	0.0069	0.039	0.63	1.7	0.44	2.2	0.073	1.1	0.26	0.0075	0.14	0.018	2.2	0.0079	0.26	0.66
DU-7B-SD-3	2/11/2020	0.13	0.0940	0.049	0.33	7	18	4.7	24	0.820	12	2.8	0.0750	1	0.16	24	0.11	2.3	7.00
DU-7C-SD-1	4/1/2020	0.0033	0.0031	0.0029	0.007	0.11	0.35	0.11	0.64	0.022	0.21	0.063	0.0028	0.044	0.0046	0.11	0.0052	0.033	0.13
DU-7C-SD-2	4/1/2020	0.0053	0.0047	0.0038	0.011	0.16	0.51	0.15	1	0.034	0.28	0.11	0.0037	0.053	0.0064	0.17	0.0065	0.052	0.19
DU-7C-SD-3	4/1/2020	0.0071	0.0053	0.0035	0.017	0.26	0.9	0.27	1.9	0.054	0.46	0.19	0.0046	0.07	0.0067	0.32	0.008	0.078	0.29
DU-7D-SD-1	3/17/2020	0.071	0.38	0.0270	0.7	2.4	3.8	1.7	4.6	0.48	3.1	0.55	0.15	3.2	0.44	1.3	0.11	2.4	3.5
DU-7D-SD-2	3/17/2020	0.099	0.4	0.026	0.38	2.6	5.4	2.3	7	0.610	4	0.73	0.21	3.5	0.28	1.8	0.1800	2.9	4.1
DU-7D-SD-3	3/17/2020	0.032	0.1200	0.016	0.15	1.5	3.4	1	5	0.220	2.3	0.56	0.0240	0.95	0.12	1.1	0.038	0.46	1.70
DU-8-SD-1	3/16/2020	0.0055	0.0035	0.0010	0.01	0.2	0.45	0.14	0.5	0.029	0.35	0.083	0.0038	0.048	0.0046	0.1	0.0036	0.037	0.15
DU-8-SD-2	3/16/2020	0.015	0.029	0.01	0.083	0.94	1.8	0.63	2.3	0.130	1.5	0.32	0.02	0.42	0.032	0.58	0.0200	0.27	1.1
DU-8-SD-3	3/16/2020	0.012	0.0049	0.0026	0.015	0.12	0.29	0.12	0.4	0.030	0.2	0.062	0.0072	0.11	0.0087	0.082	0.011	0.03	0.16

Table 3. RI Phase I/II: Polyaromatic Hydrocarbons (PAHs)

Location	Date	2-Methyl naphthalene mg/kg	Acenaphthene mg/kg	Acenaphthylene mg/kg	Anthracene mg/kg	Benzo(a) anthracene mg/kg	Benzo(a) pyrene mg/kg	Benzo(b) fluoranthene mg/kg	Benzo(g,h,i) perylene mg/kg	Benzo(k) fluoranthene mg/kg	Chrysene mg/kg	Dibenzo(a,h) anthracene mg/kg	Dibenzofuran mg/kg	Fluoranthene mg/kg	Fluorene mg/kg	Indeno(1,2,3-cd) pyrene mg/kg	Naphthalene mg/kg	Phenanthrene mg/kg	Pyrene mg/kg
DU-9-SD-1	3/19/2020	0.0027	0.0039	0.0028	0.011	0.19	0.49	0.16	0.73	0.039	0.33	0.093	0.0026	0.055	0.0036	0.13	0.0061	0.034	0.22
DU-9-SD-2	3/19/2020	0.0019	0.0038	0.002	0.0087	0.16	0.36	0.13	0.47	0.027	0.27	0.07	0.0021	0.042	0.0027	0.094	0.0038	0.037	0.18
DU-9-SD-3	3/19/2020	0.0044	0.0075	0.0064	0.054	0.48	1.1	0.39	1.6	0.099	0.72	0.2	0.0051	0.31	0.015	0.37	0.008	0.22	0.69
DU-10-SD-1	3/20/2020	0.0024	0.0018	0.0034	0.006	0.053	0.085	0.14	0.078	0.05	0.099	0.019	0.0019	0.14	0.0025	0.092	0.0027	0.04	0.11
DU-10-SD-2	3/20/2020	0.0014	0.0031	0.0044	0.018	0.26	0.35	0.53	0.3	0.180	0.39	0.076	0.0027	0.41	0.0052	0.35	0.0021 J	0.074	0.36
DU-10-SD-3	3/20/2020	0.0011	0.0045	0.0025	0.007	0.069	0.11	0.18	0.097	0.069	0.16	0.024	0.0040	0.3	0.0059	0.12	0.0016 J	0.15	0.23
DU-11-SD-1	3/26/2020	<0.00059	0.004	0.0280	0.028	0.058	0.091	0.2	0.076	0.06	0.11	0.02	0.0031	0.088	0.0048	0.099	0.0048	0.025	0.073
DU-11-SD-2	3/26/2020	<0.00059	0.0029	0.024	0.024	0.041	0.068	0.16	0.064	0.046	0.052	0.016	0.0024	0.076	0.0039	0.082	<0.00075	0.022	0.06
DU-11-SD-3	3/26/2020	<0.00059	0.0027	0.019	0.02	0.041	0.066	0.16	0.062	0.047	0.052	0.019	0.0025	0.059	0.0035	0.080	<0.00074	0.018	0.05
DU-12-SD-1	3/27/2020	0.0033	0.01	0.0220	0.032	0.088	0.089	0.18	0.062	0.064	0.12	0.018	0.0055	0.18	0.0089	0.084	0.0081	0.035	0.13
DU-12-SD-2	3/27/2020	0.0031	0.01	0.028	0.039	0.091	0.1	0.21	0.071	0.074	0.13	0.025	0.0049	0.17	0.0084	0.097	0.0071	0.042	0.11
DU-12-SD-3	3/27/2020	<0.00049	0.0066	0.032	0.041	0.1	0.11	0.21	0.07	0.075	0.14	0.025	0.0047	0.19	0.0082	0.095	0.007	0.032	0.12

J: Data validation flag indicating result is estimated, but may be used for site evaluation and risk assessment purposes.

Table 4. RI Phase I/II: Other Organics

Location	Date	bis(2-Ethylhexyl) phthalate	1,1-Dichloroethene	Carbon tetrachloride	Tetrachloro-ethene	Trichloro-ethene	cis-1,2-Dichloroethene	Vinyl chloride	Dieldrin	Total Organic Carbon (TOC)
Groundwater (µg/L)										
MW-01	12/17/2019	0.46	<0.08	<0.096	<0.099	<0.1	<0.067	<0.075	0.017	<70
MW-02	12/18/2019	<0.27	8.4	<2	<2	2300	560	32	0.0023 J	1540
MW-02B	12/19/2019	<0.29	<0.08	<0.096	<0.099	9	<0.067	<0.075	<0.002	<70
MW-03	12/19/2019	<0.27	23	<2.4	<2.5	3400	2800	130	<0.002	670
MW-04	12/18/2019	<0.27	5.2	<0.96	<0.99	1400	290	30	<0.002	330
MW-04B	12/18/2019	<0.27	0.15	<0.096	<0.099	1.9	56	<0.075	<0.002	<70
MW-05	12/19/2019	<0.27	1.1	<0.096	<0.099	110	150	6	<0.002	<70
MW-07	12/20/2019	<0.32	<0.08	<0.096	<0.099	<0.1	15	6.4	<0.05	1230
MW-08	12/20/2019	<0.31	<0.08	<0.096	<0.099	<0.1	0.26	0.09	<0.05	16100
MW-09	12/18/2019	<0.27	<0.08	<0.096	<0.099	<0.1	0.12	0.24	<0.002	5680
MW-10	12/18/2019	<0.27	5.4	<0.48	<0.5	640	700	60	<0.002	3200
MW-12	12/17/2019	<0.27	<0.08	<0.096	<0.099	<0.1	<0.067	<0.075	0.0025 J	<70
MW-13	12/17/2019	<0.27	<0.08	<0.096	<0.099	0.31	<0.067	<0.075	<0.002	7880
MW-14	12/17/2019	4	<0.08	<0.096	<0.099	<0.1	<0.067	<0.075	<0.002	<70
MW-15	12/18/2019	<0.27	3	<0.48	<0.5	600 J	190	31	<0.002	550
MW-16	12/19/2019	<0.27	<0.08	<0.096	<0.099	0.23	0.24	0.09	<0.0033	17000
MW-17	12/20/2019	<0.29	<0.08	<0.096	<0.099	<0.1	1.6	14	<0.05	2940
MW-18L	12/19/2019	<0.27	18	<2.4	<2.5	58	5300	51	<0.002	850
MW-20	12/18/2019	<0.27	<0.08	<0.096	<0.099	<0.1	<0.067	<0.075	<0.002	9500
MW-21	12/18/2019	<0.27	4.7	<0.96	<0.99	940	440	22	<0.002	520
MW-79	12/16/2019	<0.27	<0.08	<0.096	<0.099	<0.1	<0.067	<0.075	<0.002	7650
MW-100	9/16/2020	N/A	0.14	<0.096	N/A	94	2.3	<0.075	N/A	N/A
MW-100 (Dup)	9/16/2020	N/A	0.17	<0.096	N/A	91	2.1	<0.075	N/A	N/A
MW-101	9/16/2020	N/A	<0.08	0.65	N/A	12	0.2	<0.075	N/A	N/A
MW-102	9/16/2020	N/A	<0.08	4.6	N/A	100	2.5	<0.075	N/A	N/A
Surface Water (µg/L)										
SW-1	3/31/2020	N/A	N/A	N/A	<0.099	<0.1	0.13	<0.075		
SW-2	3/31/2020	N/A	N/A	N/A	<0.099	39	17	1.4		
SW-3	3/31/2020	N/A	N/A	N/A	<0.099	<0.1	<0.067	<0.075		
SW-4	4/1/2020	N/A	N/A	N/A	<0.099	<0.1	0.09	<0.075		
SW-5	3/30/2020	N/A	N/A	N/A	<0.099	0.69	0.49	<0.075		
SW-6	3/30/2020	N/A	N/A	N/A	<0.099	<0.1	<0.067	<0.075		
SW-7	3/30/2020	N/A	N/A	N/A	<0.099	<0.1	<0.067	<0.075		
SW-8	3/30/2020	N/A	N/A	N/A	<0.099	<0.1	<0.067	<0.075		
SW-9	3/30/2020	N/A	N/A	N/A	<0.099	<0.1	0.12	<0.075		
SW-10	3/30/2020	N/A	N/A	N/A	<0.099	<0.1	<0.067	<0.075		
Seep (µg/L)										
Seep-1	3/25/2020	<0.27	N/A	N/A	<0.2	37	230	2		
Soil ISM Decision Unit (mg/kg)										
FMNOL-SO-1	1/15/2020	0.042								
FMNOL-SO-2	1/15/2020	0.06								
FMNOL-SO-3	1/15/2020	0.049								
DU-2-SO-1	1/16/2020	1.1								
DU-2-SO-2	1/16/2020	2								
DU-2-SO-3	1/16/2020	0.84								
ARMREM-SO-1	1/16/2020	48								
ARMREM-SO-2	1/16/2020	63								
ARMREM-SO-3	1/16/2020	57								

N/A: Not analyzed

J: Data validation flag indicating result is estimated, but may be used for site evaluation and risk assessment purposes.

Table 5. RI Phase I/II: Inorganics

Location	Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Chromium, hexavalent	Cobalt	Copper	Iron	Lead	Manganese	Mercury	Nickel	Silver	Thallium	Vanadium	Zinc	Cyanide	Nitrate
Groundwater (µg/L)																						
MW-01	12/17/2019	9	<0.02	0.14	51.4	<0.005	0.055	0.25	N/A	0.284	0.16	98.7	0.046	71.5	<0.00006	0.28	<0.009	0.03	0.41	7.7	<0.9	2830
MW-02	12/18/2019	<0.5	<0.02	1.37	44.9	<0.005	0.047	0.13	N/A	1.01	0.12	5660	<0.006	401	0.00227	0.69	<0.009	0.122	0.49	1	1	<20
MW-02B	12/19/2019	21.2	<0.02	<0.09	7.27	<0.005	0.019	0.19	N/A	0.584	0.13	24.7	<0.006	3.61	0.00091	1.16	<0.009	<0.009	0.17	2.5	1 J	150
MW-03	12/19/2019	29	<0.02	0.5	39.2	<0.005	0.008	0.55	N/A	0.26	0.24	2710	0.064	159	0.00075	0.3	<0.009	<0.009	2.53	1.4	<0.9	<20
MW-04	12/18/2019	<0.5	<0.02	<0.09	33.5	<0.005	0.018	0.09	N/A	0.093	0.26	60.9	<0.006	95.5	0.0023	0.31	<0.009	<0.009	0.07	<0.5	<0.9	680
MW-04B	12/18/2019	32.6	<0.02	<0.09	18.2	0.108	<0.008	0.38	N/A	0.632	0.19	267	0.215	38	0.00021	0.8	<0.009	<0.009	0.1	3.6	<0.9	150
MW-05	12/19/2019	<0.5	<0.02	0.31	85.4	<0.005	12.9	0.1	N/A	2.18	5.19	6300	0.332	548	0.00018	4.16	<0.009	<0.009	0.46	147	<0.9	1010
MW-07	12/20/2019	42.7 J	<0.02	0.65	273	<0.005	0.324	0.21	N/A	6.21	0.31	6770	0.064	7650	0.00127	0.6	<0.009	<0.009J	0.14	4.1	5	180
MW-08	12/20/2019	568 J	25.8	3.99	329	0.124	302	5.19	N/A	15	13.6	63100	3.67	2060	0.0772	48	0.052	0.41 J	3.2	1030	<0.9	70
MW-09	12/18/2019	44.1	<0.02	0.35	64.6	<0.005	0.015	0.47	N/A	0.176	0.06	2440	0.053	158	0.00078	0.8	<0.009	<0.009	0.96	<0.5	<0.9	80
MW-10	12/18/2019	99.5	<0.02	0.28	31	<0.005	<0.008	0.49	N/A	0.086	0.08	481	0.109	72.6	0.00103	0.39	<0.009	<0.009	1.8	<0.5	<0.9	<20
MW-12	12/17/2019	25.2	<0.02	0.12	57.6	<0.005	0.02	0.31	N/A	0.082	0.21	<0.3	0.025	82.5	<0.00006	0.09	<0.009	0.042	1.51	<0.5	<0.9	9770
MW-13	12/17/2019	<0.5	2.4	0.32	213	<0.005	0.018	0.44	N/A	0.105	0.8	27.5	0.041	7.37	0.0012	0.3	<0.009	0.02	0.87	<0.5	<0.9	400
MW-14	12/17/2019	57.3	<0.02	<0.09	102	0.091	0.032	0.16	N/A	0.254	0.11	56	0.084	21.3	0.00099	0.25	<0.009	<0.009	0.09	15.8	<0.9	120
MW-15	12/18/2019	<0.5	<0.02	0.19	51.9	<0.005	0.072	0.08	N/A	0.386	0.21	3830	<0.006	434	0.0005	0.37	<0.009	0.108	<0.04	0.8	<0.9	1560
MW-16	12/19/2019	12.5	0.294	6.83	145	<0.005	0.293	1.11	N/A	1.91	1.36	13600	0.152	1020	0.00905	2.5	<0.009	<0.009	1.7	1.2	<0.9	<20
MW-17	12/20/2019	681 J	<0.02	0.23	149	0.218	0.131	1.44	N/A	1.91	0.97	17200	1.31	355	0.00389	0.7	<0.009	<0.009J	3.81	4.2	<0.9	<20
MW-18L	12/19/2019	20.2	<0.02	0.52	138	0.066	0.012	0.17	N/A	0.496	0.05	17500	0.045	322	0.00054	0.31	<0.009	<0.009	0.79	1.9	<0.9	<20
MW-20	12/18/2019	31	<0.02	0.47	149	<0.005	0.024	0.66	N/A	0.147	0.1	6290	0.059	796	0.0008	0.62	<0.009	<0.009	1.15	1.6	<0.9	<20
MW-21	12/18/2019	52.6	<0.02	0.61	17.2	<0.005	0.033	0.23	N/A	0.099	0.07	385	0.112	15.9	0.00114	0.22	<0.009	<0.009	0.67	0.8	<0.9	30
MW-79	12/16/2019	98.9	<0.02	1.11	37.7	<0.005	0.029	0.31	N/A	17.2	0.66	7670	0.448	3690	0.0054	1.35	<0.009	0.071	2.23	2.3	<0.9J	<20
Surface Water (µg/L)																						
SW-1	3/31/2020	55.8	0.201	1.31	26.9	0.008	0.091	0.66	N/A	0.621	0.46	193	0.212	26.3	0.0017	1.1	<0.009	<0.009	5.38	7	N/A	N/A
SW-2	3/31/2020	406	0.075	0.3	34	0.042	<0.008	0.82	N/A	0.545	1.72	955	0.789	118	0.0028	0.5	<0.009	0.016	1.89	3.5	N/A	N/A
SW-3	3/31/2020	45.8	0.235	1.28	29.3	0.008	0.25	0.72	N/A	0.619	0.69	291	0.292	36.2	0.0020	1.05	<0.009	0.015	5.16	5.5	N/A	N/A
SW-4	4/1/2020	1520	1.18	0.35	30.7	0.045	0.063	2.2	N/A	0.874	4.39	1750	1.77	48.7	0.0044	1.43	0.016	0.037	4.36	45.5	N/A	N/A
SW-5	3/30/2020	2180	0.649	3.94	183	0.173	2.16	7.39	N/A	2.56	38.2	18500	13.7	492	0.0985	2.88	0.412	0.106	23.9	136	N/A	N/A
SW-6	3/30/2020	209	0.119	0.53	42.4	0.02	0.328	0.66	N/A	0.327	1.41	1360	0.739	94.1	0.0065	0.56	<0.009	0.017	1.7	3.1	N/A	N/A
SW-7	3/30/2020	190	0.039	0.51	59.8	0.018	<0.008	0.57	N/A	0.644	1.14	2180	0.567	252	0.0028	0.41	<0.009	0.013	1.34	2.3	N/A	N/A
SW-8	3/30/2020	183	0.026	0.37	45	0.023	0.01	0.53	N/A	0.375	1.15	1620	0.592	159	0.0031	0.34	0.022	0.014	1.31	3.8	N/A	N/A
SW-9	3/30/2020	185	0.038	0.35	44.4	0.02	0.013	0.56	N/A	0.352	1.17	1550	0.525	145	0.0027	0.38	<0.009	0.014	1.27	1.9	N/A	N/A
SW-10	3/30/2020	235	0.067	0.38	45.1	0.02	0.305	0.56	N/A	0.304	1.42	1450	0.732	114	0.0079	0.41	<0.009	0.012	1.52	2.9	N/A	N/A
Seep (µg/L)																						
Seep-1	3/25/2020	429	1.77	1.37	65.6	<0.005U	21.7	2.69	N/A	0.355	11.3	398	4.14	50.2	0.0196	1.13	0.029	0.036	9.47	14.3	N/A	N/A
Soil ISM Decision Unit (mg/kg)																						
DU-1-SO-1	1/27/2020	10800	<2 J	3.8	153	0.44	3.6	17.7	N/A	8.63	54.3 J	20000	45.4 J	2200	0.241	6.47	0.34	4.2	35.4	99.3	N/A	N/A
DU-1-SO-2	1/27/2020	10800	<2.1 J	3.7	167	0.52	5.27	17.4	N/A	9.91	40.4 J	19400	41.2 J	2590	0.21	6.08	<0.31	6.2	36.8	80.7	N/A	N/A
DU-1-SO-3	1/27/2020	11600	<2.1 J	3.2	168	0.53	4.27	18.2	N/A	10.1	42.5 J	20900	46.3 J	2520	0.182	6.29	<0.31	2.5	37.8	84.2	N/A	N/A
DU-2-SO-1	1/16/2020	7770	<2 J	2.7	58	0.3	15.2	31.4 J	N/A	3.4	178	15600	112 J	234	0.493	9.49	<0.3	<0.8	26.6	236	N/A	N/A
DU-2-SO-2	1/16/2020	9730	<2 J	3.1	57	0.3	6.39	27 J	N/A	2.5	212	16900	68.2 J	221	0.35	8.45	0.53	<0.8	34.3	220	N/A	N/A
DU-2-SO-3	1/16/2020	8400	<2 J	<2	67	0.3	13.3	31.5 J	N/A	2.7	242	16100	89.2 J	272	0.232	12.8	0.61	<0.8	30.3	233	N/A	N/A
DU-3-SO-1	1/27/2020	13500	7 J	4.1	159	0.51	25.3	41.9	N/A	7.68	107 J	19500	100 J	1750	1.4	8.96	<0.31	1.6	37.6	206	N/A	N/A
DU-3-SO-2	1/27/2020	15200	7.2 J	4.4	171	0.62	26.4	46.7	N/A	7.28	101 J	19900	120 J	1440	1.66	11	<0.32	1.7	40.5	270	N/A	N/A
DU-3-SO-3	1/27/2020	14300	5.3 J	4.5	185	0.62	26.4	38.8	N/A	8.5	88.6 J	21400	99.8 J	2050	1.22	9.8	<0.32	2	39.8	254	N/A	N/A
DU-4-SO-1	1/9/2020	12700	<2 J	3.8	73.3	0.38	8.18	28.3	N/A	3.01	61.4	11200	103	241	0.316	6.89	<0.31	2.5	39.9	228	N/A	N/A
DU-4-SO-2	1/9/2020	13200	<2 J	4.4	81.6	0.37	9.26	26.2	N/A	3.26	68.3	11500	109	214	0.33	8.08	<0.31	5.5	38.2	316	N/A	N/A
DU-4-SO-3	1/9/2020	13000	<2 J	3.8	73	0.36	8.08	23.5	N/A	2.91	37.4	10600	104	231	0.27	6.75	<0.3	<0.8	35.4	224	N/A	N/A
DU-5-SO-1	1/30/2020	9740	3.4 J	2.8	112	0.52	20.1 J	29.7	N/A	2.33	43.9	9510	95.2	297	0.781 J	6.6	<0.28	3	22.4	186	N/A	N/A
DU-5-SO-2	1/30/2020	9700	3.4 J	4	102	0.62	18.9 J	27.9	N/A	2.62	47	9360	95.4	334	0.712 J	6.67	0.33	1.2	23.3	178	N/A	N/A
DU-5-SO-3	1/30/2020	11100	4 J	<2	103	0.56	19.6 J	29.8	N/A	2.6	41.7	9600	96.2	388	0.85 J	7.17	<0.3	<0.8	24.5	190	N/A	N/A
DU-6-SO-1	1/29/2020	13100	<1.8 J	4.3	184	0.58	9.94	28.6	N/A	11.7	22.7	22900	51.6	2930	1.1	5.94	<0.28	4.7	40.8	80.4	N/A	N/A
DU-6-SO-2	1/29/2020	12800	<1.8 J	4.9	183	0.57	9.53	27.8	N/A	11.5	21	22800	47.8	2910	1.21	5.84	<0.27	6.8	42.3	73.5	N/A	N/A
DU-6-SO-3	1/29/2020	14200	<2 J	4	196	0.62	9.02	28.1	N/A	12.3	21.5	24700	48.8	3220	1.02	6.28	<0.3	3.4	46.3	80.6	N/A	N/A

Table 5. RI Phase I/II: Inorganics

Location	Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Chromium, hexavalent	Cobalt	Copper	Iron	Lead	Manganese	Mercury	Nickel	Silver	Thallium	Vanadium	Zinc	Cyanide	Nitrate
DU-7-SO-1	1/7/2020	10700	<2 J	3	96.8	0.71	14.4	34.5	N/A	1.79	29.5	10700	95.8	401	0.224	4.99	<0.3	1.2	25.5	102	N/A	N/A
DU-7-SO-2	1/7/2020	11900	<2.1 J	4.1	130	0.71	15.4	37.3	N/A	2.07	46.9	11900	207	421	0.281	5.65	<0.31	<0.8	27.5	145	N/A	N/A
DU-7-SO-3	1/7/2020	10100	<1.9 J	2.4	103	0.5	13.3	34.3	N/A	1.74	41.9	10100	101	327	0.293	5.29	<0.28	<0.8	25.4	111	N/A	N/A
DU-8-SO-1	1/8/2020	4810	<2 J	<2	38.4	0.15	1	7.07	N/A	0.96	6.97	3460	25.2	293	0.142	2.36	<0.29	<0.8	8.89	29.1	N/A	N/A
DU-8-SO-2	1/8/2020	5340	<2 J	2.4	41.1	0.16	1.41	7.83	N/A	1.18	8.89	3770	30.7	269	0.138	2.49	<0.29	<0.8	10.7	36.3	N/A	N/A
DU-8-SO-3	1/8/2020	5430	<2 J	<2	43.1	0.15	1.48	7.65	N/A	1.15	8.29	3870	30.1	307	0.151	2.52	<0.29	<0.8	10.8	38.3	N/A	N/A
DU-9-SO-1	1/9/2020	10600	<2 J	2.1	61.6	0.27	5.96	20.1	N/A	2.18	28.2	8180	71.9	236	0.429	5.22	<0.3	<0.8	24.8	130	N/A	N/A
DU-9-SO-2	1/9/2020	10800	<2.1 J	3.2	60.5	0.26	5.91	20.3	N/A	2.24	27.2	8020	70.7	228	0.439	5.56	<0.31	<0.8	24.3	129	N/A	N/A
DU-9-SO-3	1/9/2020	10900	<2 J	2.5	64	0.29	6.22	21.3	N/A	2.25	29.6	9100	85.6	249	0.466	5.51	<0.3	<0.8	25.8	137	N/A	N/A
DU-10-SO-1	1/8/2020	5450	<1.9 J	<1.9	39	0.18	0.99	10.6	N/A	1.16	6.66	4400	29.3	171	0.142	2.31	<0.29	<0.8	13.2	26.5	N/A	N/A
DU-10-SO-2	1/8/2020	5960	<1.9 J	<1.9	36.9	0.19	1.17	12.3	N/A	1.15	8.38	4510	23.7	146	0.194	2.45	<0.29	<0.8	14	29.8	N/A	N/A
DU-10-SO-3	1/8/2020	5870	<2 J	<2	36.7	0.17	1.08	12.4	N/A	1.24	7.98	4340	23.4	170	0.165	2.39	<0.3	<0.8	13.4	31.6	N/A	N/A
DU-11-SO-1	1/30/2020	11200	<2 J	2.5	94.4	0.37	11 J	26.5	N/A	4.09	32.8	11900	75.4	586	0.94 J	6.39	0.32	<0.8	31.6	167	N/A	N/A
DU-11-SO-2	1/30/2020	12900	<2 J	2.9	114	0.44	10.2 J	26.8	N/A	4.73	34.3	13300	77	807	0.793 J	7.21	<0.3	<0.8	32.5	177	N/A	N/A
DU-11-SO-3	1/30/2020	13000	<2 J	3.7	129	0.46	11.3 J	27	N/A	5.17	35.9	14100	84.9	942	0.7 J	7.62	<0.3	<0.8	33.7	185	N/A	N/A
DU-12-SO-1	1/28/2020	18500	<2.1 J	6.1	232	0.71	17.8	41.7	N/A	10.7	46.7	23500	105	2490	1.57	9.64	<0.31	4.3 J	53.3	199	N/A	N/A
DU-12-SO-2	1/28/2020	17300	<2.1 J	6.4	213	0.73	18.8	42.1	N/A	10.1	44.2	22400	102	2270	1.8	9.03	<0.31	7.6 J	54.2	181	N/A	N/A
DU-12-SO-3	1/28/2020	17200	<2.1 J	5.9	215	0.73	18.2	43.5	N/A	10.3	44.4	23600	107	2170	1.67	9.15	<0.31	2.4 J	53.7	188	N/A	N/A
DU-13-SO-1	1/29/2020	20000	<2.1 J	5.6	189	0.72	20.9	44.7	N/A	8.12	54.7	20000	116	1370	1.52	10.6	0.36	1.1	53.8	248	N/A	N/A
DU-13-SO-2	1/29/2020	21300	<2 J	5.3	195	0.72	20.2	44.5	N/A	8.28	53.7	20400	113	1410	1.56	10.9	<0.3	1.3	52.9	243	N/A	N/A
DU-13-SO-3	1/29/2020	19800	<2 J	5.5	189	0.72	22.7	44.2	N/A	7.98	54.1	19500	116	1350	1.54	10.6	<0.31	1.4	52	244	N/A	N/A
DU-14-SO-1	1/17/2020	10100	<2.1 J	2.3	70.2	0.28	4.09	18.4	N/A	2.72	17	10200	39.1	333	0.348	4.21	<0.31	2.5	26.6	67.8	N/A	N/A
DU-14-SO-2	1/17/2020	11200	<2.1 J	3.6	87.7	0.34	5.34	21.6	N/A	3.16	22.1	11100	44.8	376	0.426	4.82	<0.31	5.1	30.9	86.4	N/A	N/A
DU-14-SO-3	1/17/2020	11000	<2 J	2.6	80.9	0.32	5.15	20.4	N/A	3.11	20.5	10900	46.5	363	0.396	4.86	<0.31	<0.8	29.2	81.1	N/A	N/A
DU-15-SO-1	1/28/2020	19100	<2.2 J	5.4	209	0.77	16.4	51.2	N/A	9.06	55.1	22200	94.9	1430	1.89	8.97	0.6	1.3 J	58.8	183	N/A	N/A
DU-15-SO-2	1/28/2020	20800	<2 J	6.3	211	0.86	16.1	51.1	N/A	10.6	51.1	26300	92.2	1460	1.9	9.35	0.46	1.3 J	63.7	178	N/A	N/A
DU-15-SO-3	1/28/2020	19200	<2 J	5.7	215	0.79	17.3	52.9	N/A	8.23	56.6	22100	97.4	1280	1.89	8.96	0.48	1 J	60.9	185	N/A	N/A
DU-16-SO-1	1/10/2020	23200	<2.2 J	5.8	221	0.68	5.39	82.6	N/A	3.7	73.6	15900	85.6	199	1.53	8.34	1.41	1.2	52.6	143	N/A	N/A
DU-16-SO-2	1/10/2020	22900	<2.2 J	6	242	0.67	6.02	97.8	N/A	3.43	92.6	13800	133	190	1.89	8.27	1.9	1.5	52.7	149	N/A	N/A
DU-16-SO-3	1/10/2020	24400	<2.2 J	5.2	232	0.66	5.25	97.3	N/A	3.19	89.1	14300	98.4	152	1.72	8.69	1.81	<0.9	55.1	144	N/A	N/A
DU-17-SO-1	1/9/2020	8760	<2 J	<2	31.9	0.11	<0.09	11	N/A	1.31	4.6	10600	10.1	104	0.0488	2.35	<0.29	<0.8	24.8	8.25	N/A	N/A
DU-17-SO-2	1/9/2020	10500	<1.9 J	<1.9	33.7	0.11	<0.09	13.4	N/A	1.38	5.54	12300	11.5	111	0.0468	2.77	<0.29	<0.8	28.8	10.3	N/A	N/A
DU-17-SO-3	1/9/2020	10000	<1.9 J	<1.9	37.5	0.14	<0.09	12.2	N/A	2.03	4.88	10900	14	185	0.0466	2.82	<0.29	<0.8	27.3	9.32	N/A	N/A
DU-18-SO-1	4/17/2020	7740	<1.3 J	2.5	52.2	0.28	<0.06	7.9	N/A	2.16	5	6340	18.6	227	0.050	2.9	<0.2	1.2	17.5	16.6	N/A	N/A
DU-18-SO-2	4/17/2020	8580	<1.3 J	3	65.5	0.33	<0.06	9.12	N/A	2.76	6.34	8270	40.4	274	0.061	3	<0.19	2.6	21	22.4	N/A	N/A
DU-18-SO-3	4/17/2020	9200	<1.2 J	2	65.5	0.32	<0.05	9.03	N/A	2.32	6.39	6350	21.6	269	0.064	3.21	<0.17	<0.5	18.4	20.6	N/A	N/A
ARMREM-SO-1	1/16/2020	13500	<2.2 J	<2.2	247	1.3	1.56	20.9 J	N/A	2.9	68	9840	50.2 J	633	0.619	8.37	<0.33	<0.9	21.6	101	N/A	N/A
ARMREM-SO-2	1/16/2020	14600	<2.2 J	<2.2	164	1.2	2.38	27 J	N/A	3.3	84	9580	76.4 J	822	0.184	8.93	<0.32	1	20.1	147	N/A	N/A
ARMREM-SO-3	1/16/2020	12800	<2.1 J	<2.1	147	1.01	1.88	21.5 J	N/A	3.2	68.6	13500	47.8 J	784	0.292	10.5	<0.32	<0.9	22	139	N/A	N/A
EXPLDEMO-SO-1	1/10/2020	8280	3.2 J	2.4	156	0.18	6.82	19.1	<0.09 J	1.82	128	9780	92.6	153	0.227	6.64	<0.3	<0.8	32.5	276	N/A	N/A
EXPLDEMO-SO-2	1/10/2020	8040	2.5 J	2.4	261	0.13	14.9	21.1	<0.08 J	2.33	186	10300	93.6	152	0.358	7.66	<0.3	<0.8	29.9	319	N/A	N/A
EXPLDEMO-SO-3	1/10/2020	7670	4.9 J	2.4	194	0.15	6.8	17.1	<0.09 J	1.71	142	9500	87.6	127	0.233	5.14	<0.27	<0.7	29.3	242	N/A	N/A
FMNOL-SO-1	1/15/2020	7560	<2 J	2.4	48.3	0.33	6.12	37.1 J	N/A	1.8	138	13600	105 J	169	0.15	7.11	0.4	1.8	29	142	N/A	N/A
FMNOL-SO-2	1/15/2020	8350	<2 J	2.9	60.8	0.3	11.8	29.3 J	N/A	2.4	272	18300	78.1 J	258	0.344	12.2	0.7	1	30.6	254	N/A	N/A
FMNOL-SO-3	1/15/2020	7660	<2 J	2.3	42.7	0.24	8.4	29.3 J	N/A	1.7	165	14200	113 J	146	0.182	8.87	1.51	<0.8	27.6	185	N/A	N/A
DU-19-SO-1	9/15/2020	N/A	N/A	N/A	N/A	N/A	0.83	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DU-19-SO-2	9/15/2020	N/A	N/A	N/A	N/A	N/A	0.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DU-19-SO-3	9/15/2020	N/A	N/A	N/A	N/A	N/A	0.76	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DU-20-SO-1	9/15/2020	N/A	N/A	N/A	N/A	N/A	8.63	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DU-20-SO-2	9/15/2020	N/A	N/A	N/A	N/A	N/A	9.53	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DU-20-SO-3	9/15/2020	N/A	N/A	N/A	N/A	N/A	9.38	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DU-21-SO-1	9/16/2020	N/A	N/A	N/A	N/A	N/A	15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DU-21-SO-2	9/16/2020	N/A	N/A	N/A	N/A	N/A	12.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DU-21-SO-3	9/16/2020	N/A	N/A	N/A	N/A	N/A	13.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Table 5. RI Phase I/II: Inorganics

Location	Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Chromium, hexavalent	Cobalt	Copper	Iron	Lead	Manganese	Mercury	Nickel	Silver	Thallium	Vanadium	Zinc	Cyanide	Nitrate
DU-22-SO-1	9/16/2020	N/A	N/A	N/A	N/A	N/A	1.92	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DU-22-SO-2	9/16/2020	N/A	N/A	N/A	N/A	N/A	2.86	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DU-22-SO-3	9/16/2020	N/A	N/A	N/A	N/A	N/A	1.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sediment ISM Decision Unit (mg/kg)																						
DU-1-SD-1	2/7/2020	1870	<1.9 J	<1.9	11.9	0.12	2.65	10.5	N/A	0.41	4.72	1400	11.7	24.4	0.121	1.22	<0.29	<0.8	4.1	16.8	N/A	N/A
DU-1-SD-2	2/7/2020	2080	<1.9 J	<1.9	10.9	<0.08	2.2	3.53	N/A	0.36	3.62	1280	9.2	26.9	0.042	1.1	<0.28	<0.8	4.67	12.6	N/A	N/A
DU-1-SD-3	2/7/2020	1900	<2 J	<2	9.24	<0.08	2.28	5.01	N/A	0.96	5.2	1530	13.2	20.4	0.131	1.18	<0.3	<0.8	5.11	13.4	N/A	N/A
DU-2-SD-1	2/6/2020	8320	<1.6	1.6	44.2	0.26	<0.07	8.59	N/A	1.86	6.69	6050	17.1	289	0.095	3	<0.24	<0.7	17.7	27.1	N/A	N/A
DU-2-SD-2	2/6/2020	8560	<1.6	2.3	43.2	0.26	<0.07	8.92	N/A	1.66	6.02	6080	48.7	276	0.0986	2.92	<0.24	<0.6	17.8	23.8	N/A	N/A
DU-2-SD-3	2/6/2020	8750	<1.7	2.3	45	0.3	<0.08	8.53	N/A	1.84	6.28	6020	16.4	278	0.0971	2.86	<0.25	<0.7	17.4	18.2	N/A	N/A
DU-3-SD-1	2/5/2020	3880	<1.9	<1.9	27.3	0.17	3.84	8.45	N/A	1.65	9.28	4430	41.6	113	0.483	1.9	<0.29	<0.8	11.1	27.3	N/A	N/A
DU-3-SD-2	2/5/2020	5830	<2	<2	49.4	0.29	6.1	11.3	N/A	1.73	28.8	5070	36.3	171	1.98	2.59	<0.29	<0.8	15.5	39.3	N/A	N/A
DU-3-SD-3	2/5/2020	5740	<2	<2	39.6	0.24	9.94	16	N/A	2.21	17.3	5020	31	80.9	1.85	2.73	<0.29	<0.8	16.6	37.4	N/A	N/A
DU-4-SD-1	2/4/2020	11900	<1.9	2	73.6	0.49	4.65	17.1	N/A	4.23	17.9	12600	29.9	169	0.398	5.04	<0.29	<0.8	31.7	47.9	N/A	N/A
DU-4-SD-2	2/4/2020	9430	<2	<2	54.3	0.38	8.03	14.3	N/A	2.39	13.6	6280	22.5	86.2	0.74	4.11	<0.3	<0.8	23.9	43.7	N/A	N/A
DU-4-SD-3	2/4/2020	8120	<1.9	<1.9	54.4	0.36	4.93	13.2	N/A	2.77	11.5	8260	19.2	134	0.436	3.53	<0.29	<0.8	23.5	36.5	N/A	N/A
DU-5-SD-1	2/5/2020	24100	<2.1	4.2	193	0.85	7.72	40.1	N/A	3.95	58.3	14500	58	105	1.2	8.4	0.64	<0.8	64.2	109	N/A	N/A
DU-5-SD-2	2/5/2020	24800	<1.9	4.2	185	0.84	6.33	38.9	N/A	3.99	54.9	13900	61.8	134	1.03	8.81	0.94	<0.8	57.5	103	N/A	N/A
DU-5-SD-3	2/5/2020	24600	<1.6	4.5	165	0.85	6.5	34.9	N/A	3.78	47.1	12700	48.2	99.6	0.82	8.15	0.24	<0.6	58.3	97	N/A	N/A
DU-6-SD-1	2/3/2020	30500	<2 J	4.6	180	1.37	8.69	36	N/A	10.3	33.4	22300	40.7	421	1.69 J	11	<0.3	2 J	85.9	85.7	N/A	N/A
DU-6-SD-2	2/3/2020	30800	<2 J	5.6	190	1.35	8.88	38.2	N/A	9.77	35.7	23300	46.8	686	2.33 J	11	<0.3	4.2 J	83	86.1	N/A	N/A
DU-6-SD-3	2/3/2020	30900	<2.1 J	4.5	188	1.35	13.3	37	N/A	9.52	36	21800	44.8	496	1 J	11.2	<0.31	<0.8 J	84.5	104	N/A	N/A
DU-7A-SD-1	3/18/2020	12300	<1.8	2	152	0.98	<0.08	18.2	N/A	10.5	10.1	20400	87.8	1160	0.037	5.96	<0.27	<0.7	47.9	32.9	N/A	N/A
DU-7A-SD-2	3/18/2020	12400	<1.9	<1.9	164	0.98	<0.08	18.1	N/A	11.6	8.11	19100	14.8	1060	0.035	5.99	<0.28	1.3	44.5	32.1	N/A	N/A
DU-7A-SD-3	3/18/2020	13400	<1.4	<1.4	149	1	<0.07	18.4	N/A	10.9	8.28	18600	15.4	948	0.039	5.86	<0.22	<0.6	46.6	31.9	N/A	N/A
DU-7B-SD-1	2/11/2020	9970	<1.9	<1.9	87.6	0.46	4.05	14.5	N/A	6.4	10.5	11900	13.5	812	0.45	4.49	<0.29	<0.8	31.5	26.5	N/A	N/A
DU-7B-SD-2	2/11/2020	9550	<1.9	<1.9	80.3	0.43	1.54	13.8	N/A	5.55	8.77	11600	12.5	758	0.21	4.82	<0.29	<0.8	30.1	23.2	N/A	N/A
DU-7B-SD-3	2/11/2020	10500	<2	<2	89.9	0.52	1.36	17	N/A	6.42	9.41	13300	13.5	688	0.29	4.75	<0.3	<0.8	38.1	24.4	N/A	N/A
DU-7C-SD-1	4/1/2020	25200	<1.9	2.5	180	1.32	5.73	29.6	N/A	12.8	22	28400	27.7	860	0.26	9.54	<0.28	<0.8	78.6	53.4	N/A	N/A
DU-7C-SD-2	4/1/2020	27300	<1.9	3.9	183	1.32	7.92	31.8	N/A	10.3	24	25600	37.3	540	1.2	9.9	<0.29	<0.8	78.6	56	N/A	N/A
DU-7C-SD-3	4/1/2020	24800	<1.9	4	195	1.32	5.47	31.5	N/A	11.9	22.7	25400	31.3	814	0.80	9.41	<0.29	<0.8	75.1	54	N/A	N/A
DU-7D-SD-1	3/17/2020	16400	<2	<2	131	0.86	11.4	27.5	N/A	7.85	19.7	16900	24.7	850	0.56	6.9	<0.3	0.8	48.7	53.3	N/A	N/A
DU-7D-SD-2	3/17/2020	14100	<1.5	1.7	121	0.81	10.3	24.4	N/A	6.52	17	12800	25.8	580	0.51	5.71	<0.23	<0.6	43	49.2	N/A	N/A
DU-7D-SD-3	3/17/2020	13400	<2.1	<2.1	109	0.74	16.7	25.3	N/A	6.68	16.8	13800	23.7	482	0.38	6.1	<0.31	<0.8	41.6	53.5	N/A	N/A
DU-8-SD-1	3/16/2020	11600	<1.9 J	<1.9	181	0.97	0.85	20.2	N/A	9.91	8.94	11200	13.5	468	0.065	6.07	<0.29	<0.8	38.2	34.9	N/A	N/A
DU-8-SD-2	3/16/2020	13900	<2 J	2.8	193	1.09	4.44	23.7	N/A	10.4	13.6	14300	18.3	1140	0.13	6.73	<0.3	<0.8	44.4	59.8	N/A	N/A
DU-8-SD-3	3/16/2020	11400	<1.9 J	2.1	141	0.88	0.82	17.9	N/A	8.23	9.42	12300	15.2	794	0.12	5.72	<0.29	<0.8	37.4	35.8	N/A	N/A
DU-9-SD-1	3/19/2020	9690	<1.5	<1.5	95.6	0.81	2.93	16.6	N/A	8.8	10.3	11100	12	513	0.18	5.51	<0.23	<0.6	34.9	38.5	N/A	N/A
DU-9-SD-2	3/19/2020	9400	<1.1	<1.1	85.4	0.78	1.28	15.4	N/A	8.4	8.84	10200	12	622	0.090	4.92	<0.17	<0.5	30.1	32.4	N/A	N/A
DU-9-SD-3	3/19/2020	7700	<1.5	<1.5	81	0.76	2.12	14.7	N/A	9.01	8.8	9120	14.3	507	0.28	4.34	<0.23	0.8	27.6	34.8	N/A	N/A
DU-10-SD-1	3/20/2020	4490	<1.6	<1.6	39.3	0.28	<0.07	7.24	N/A	3.04	4.46	5620	9.1	275	0.023	2.07	<0.24	<0.6	18.5	16.3	N/A	N/A
DU-10-SD-2	3/20/2020	4790	<2	<2	43.4	0.31	<0.09	6.62	N/A	3.52	5.08	6390	10.8	461	0.027	2.37	<0.3	<0.8	19	17.9	N/A	N/A
DU-10-SD-3	3/20/2020	4130	<1.8	<1.8	43.9	0.27	<0.08	6.78	N/A	3.7	4.9	6570	10.4	380	0.027	2.18	<0.26	<0.7	19.3	18.1	N/A	N/A
DU-11-SD-1	3/26/2020	11100	<1.9	2.4	115	0.69	0.25	14.9	N/A	9.9	9.5	15800	27.1	1170	0.068	4.65	<0.28	0.9	45.9	41.7	N/A	N/A
DU-11-SD-2	3/26/2020	11300	<1.8	2.1	117	0.78	0.3	14.5	N/A	11.7	9.91	17100	24.4	1350	0.068	4.71	<0.28	0.9	46.3	41.6	N/A	N/A
DU-11-SD-3	3/26/2020	10700	<2	2.4	120	0.74	0.26	13.6	N/A	11.5	9.47	16300	21.5	1230	0.063	4.58	<0.29	<0.8	45.8	40.2	N/A	N/A
DU-12-SD-1	3/27/2020	7670	<1.9 J	2.3	69.8	0.49	0.21	11.9	N/A	8.85	7.24	10700	27.4	620	0.048	3.26	<0.28	<0.8	34.4	28.2	N/A	N/A
DU-12-SD-2	3/27/2020	7960	<1.7 J	2	65.9	0.5	0.19	11.9	N/A	6.96	6.79	10600	23	543	0.043	3.22	<0.25	1	34	24.7	N/A	N/A
DU-12-SD-3	3/27/2020	8570	<2 J	<2	68.5	0.53	0.18	12	N/A	7.78	7.04	9760	21.9	495	0.042	3.87	<0.3	<0.8	34.3	24.5	N/A	N/A

N/A: Not analyzed

J: Data validation flag indicating result is estimated, but may be used for site evaluation and risk assessment purposes.

Table 6. RI Phase I/II: Energetics and Related Compounds

Location	Date	1,3,5-Trinitrobenzene	1,3-Dinitrobenzene	2,4-Dinitrotoluene	2,4,6-Trinitrotoluene	2,6-Dinitrotoluene	2-Amino-4,6-dinitrotoluene	2-Nitrotoluene	3,5-Dinitroaniline	3-Nitrotoluene
Groundwater (µg/L)										
MW-01	12/17/2019	<0.4	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
MW-02	12/18/2019	<0.4	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
MW-02B	12/19/2019	<0.49	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
MW-03	12/19/2019	<0.42	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
MW-04	12/18/2019	<0.4	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
MW-04B	12/18/2019	<0.4	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
MW-05	12/19/2019	<0.4	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
MW-07	12/20/2019	<0.54	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
MW-08	12/20/2019	<0.4	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
MW-09	12/18/2019	<0.4	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
MW-10	12/18/2019	<0.4	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
MW-12	12/17/2019	<0.4	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
MW-13	12/17/2019	<0.4	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
MW-14	12/17/2019	<0.4	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
MW-15	12/18/2019	<0.4	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
MW-16	12/19/2019	<0.4	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
MW-17	12/20/2019	<1	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
MW-18L	12/19/2019	<0.51	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
MW-20	12/18/2019	<0.4	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
MW-21	12/18/2019	<0.4	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
MW-79	12/16/2019	<0.4	<0.25	<0.25	<0.25	<0.25	<0.25J	<0.25	<0.25	<0.25
Seep (µg/L)										
Seep-1	3/25/2020	<0.4	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
Soil ISM Decision Unit (mg/kg)										
EXPLDEMO-SO-1	1/10/2020	<0.05 J	<0.05 J	<0.05 J	<0.05 J	<0.05 J	<0.05 J	<0.05 J	<0.05 J	<0.05 J
EXPLDEMO-SO-2	1/10/2020	<0.05 J	<0.05 J	<0.05 J	<0.05 J	<0.05 J	<0.05 J	<0.05 J	<0.05 J	<0.05 J
EXPLDEMO-SO-3	1/10/2020	<0.05 J	<0.05 J	<0.05 J	<0.05 J	<0.05 J	<0.05 J	<0.05 J	<0.05 J	<0.05 J

Table 6. RI Phase I/II: Energetics and Related Compounds

Location	Date	4-Amino-2,6-dinitrotoluene	4-Nitrotoluene	Cyclotetramethyl-enetetranitramine (HMX)	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	Nitrobenzene	Nitroglycerin	Pentaerythritol tetranitrate	Trinitrophenyl-methylnitramine	Perchlorate
Groundwater (µg/L)										
MW-01	12/17/2019	<0.25	<0.25	<3.68	<0.25	<0.25	<0.5	<0.5	<0.25	N/A
MW-02	12/18/2019	<0.25	<0.25	<0.25	<0.25	<0.25	<0.5	<0.5	<0.25	N/A
MW-02B	12/19/2019	<0.25	<0.25	0.47	<0.25	<0.25	<0.5	<0.5	<0.25	N/A
MW-03	12/19/2019	<0.25	<0.25	<0.25	<0.25	<0.25	<0.5	<0.5	<0.25	N/A
MW-04	12/18/2019	<0.25	<0.25	<0.25	<0.25	<0.25	<0.5	<0.5	<0.25	N/A
MW-04B	12/18/2019	<0.25	<0.25	<0.3	<0.25	<0.25	<0.5	<0.5	<0.25	N/A
MW-05	12/19/2019	<0.25	<0.25	<0.25	<0.25	<0.25	<0.5	<0.5	<0.25	N/A
MW-07	12/20/2019	<0.25	<0.25	<0.25	<0.25	<0.25	<0.5	<0.5	<0.25	N/A
MW-08	12/20/2019	<0.25	<0.25	<0.25	<0.25	<0.25	<0.5	<0.5	<0.25	N/A
MW-09	12/18/2019	<0.25	<0.25	<0.25	<0.32	<0.25	<0.5	<0.5	<0.25	N/A
MW-10	12/18/2019	<0.25	<0.25	<0.25	<0.25	<0.25	<0.5	<0.5	<0.25	N/A
MW-12	12/17/2019	<0.25	<0.25	<0.25	<0.25	<0.25	<0.5	<0.5	<0.25	N/A
MW-13	12/17/2019	<0.25	<0.25	<0.25	<0.25	<0.25	<0.5	<0.5	<0.25	N/A
MW-14	12/17/2019	<0.25	<0.25	<0.28	<0.25	<0.25	<0.5	<0.5	<0.25	N/A
MW-15	12/18/2019	<0.25J	<0.25	<0.25J	<0.25	<0.25	<0.5	<0.5	<0.25	N/A
MW-16	12/19/2019	<0.25	<0.25	<0.25	<0.25	<0.25	<0.5	<0.5	<0.25	N/A
MW-17	12/20/2019	<0.25	<0.25	<0.25	<0.25	<0.25	<0.5	<2.47	<0.25	N/A
MW-18L	12/19/2019	<0.25	<0.25	<0.25	<0.25	<0.25	<0.5	<0.85	<0.25	N/A
MW-20	12/18/2019	<0.25	<0.25	<0.25	<0.25	<0.25	<0.5	<0.5	<0.25	N/A
MW-21	12/18/2019	<0.25	<0.25	<0.25	<0.25	<0.25	<0.5	<0.5	<0.25	N/A
MW-79	12/16/2019	<0.25	<0.25	<0.25J	<0.25	<0.25	<0.5	<0.5	<0.25	N/A
Seep-1	3/25/2020	<0.25	<0.25	<0.25	<0.25	<0.25	<0.5	<0.5	<0.25	<0.011
Soil ISM Decision Unit (mg/kg)										
EXPLDEMO-SO-1	1/10/2020	<0.05 J	<0.05 J	<0.05 J	<0.05 J	<0.05 J	<0.1 J	<0.1 J	<0.05 J	0.000719
EXPLDEMO-SO-2	1/10/2020	<0.05 J	<0.05 J	<0.05 J	<0.05 J	<0.05 J	<0.1 J	<0.1 J	<0.05 J	0.00063
EXPLDEMO-SO-3	1/10/2020	<0.05 J	<0.05 J	<0.05 J	<0.05 J	<0.05 J	<0.1 J	<0.1 J	<0.05 J	0.00045

N/A: Not analyzed

J: Data validation flag indicating result is estimated, but may be used for site evaluation and risk assessment purposes.

Table 7. RI Phase I/II: Dioxins/Furans

	EXPLDEMO-SO-1 1/10/2020	EXPLDEMO-SO-2 1/10/2020	EXPLDEMO-SO-3 1/10/2020
	mg/kg	mg/kg	mg/kg
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	1.2E-03	1.2E-03	1.7E-03
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	0.0249 J	0.0234 J	0.0235 J
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	2.6E-04	2.7E-04	3.3E-04
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	1.6E-03	1.4E-03	1.6E-03
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	1.6E-05	1.7E-05	2.0E-05
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	0.0000137 J	0.0000207 J	0.0000152 J
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	7.7E-06	9.6E-06	8.4E-06
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	9.6E-06	1.5E-05	1.1E-05
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	3.7E-05	3.6E-05	3.9E-05
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	2.7E-06	3.3E-06	3.0E-06
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	1.6E-05	1.7E-05	1.7E-05
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	4.0E-06	6.6E-06	4.5E-06
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	5.7E-06	6.4E-06	5.8E-06
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	1.3E-05	2.0E-05	1.6E-05
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	1.4E-05	1.8E-05	1.3E-05
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	5.1E-06	7.8E-06	5.6E-06
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	2.0E-06	2.0E-06	2.2E-06
hepta-CDD (total)	3.4E-03	3.0E-03	3.3E-03
hepta-CDF (total)	1.1E-03	1.0E-03	1.3E-03
hexa-CDD (total)	2.8E-04	2.9E-04	2.7E-04
hexa-CDF (total)	3.1E-04	3.4E-04	3.6E-04
penta-CDD (total)	5.2E-05	6.6E-05	5.0E-05
penta-CDF (total)	1.5E-04	1.8E-04	1.5E-04
tetra-CDD (total)	1.7E-05	1.7E-05	1.7E-05
tetra-CDF (total)	5.4E-05	1.6E-04	1.1E-04

J: Data validation flag indicating result is estimated, but may be used for site evaluation and risk assessment purposes.

Table 8. RI Phase I/II: Summary of Finfish Tissue Analysis

Table 8. RI/FS Phase 1/2 Summary of Spring 2020 Finfish Tissue Analysis

Sample ID	Species	Length (in)	Weight (g)	Fish count	Aroclor 1016 (mg/kg)	Aroclor 1221 (mg/kg)	Aroclor 1232 (mg/kg)	Aroclor 1242 (mg/kg)	Aroclor 1248 (mg/kg)	Aroclor 1254 (mg/kg)	Aroclor 1260 (mg/kg)	Aroclor 1262 (mg/kg)	Aroclor 1268 (mg/kg)	Total PCB Aroclors (mg/kg)	Total PCB Congeners (mg/kg)	Mercury (mg/kg)
Upstream Reporting Zone																
20137-UP-BA-1	Bass	10.9	315	3	<0.0072	<0.0029	<0.0034	<0.0029	<0.0029	0.017	<0.011	<0.007	<0.0032	0.017	0.0070	0.28
20135-UP-BA-2	Bass	12.0	440	2	<0.015	<0.0029	<0.029	<0.013	<0.024	<0.016	<0.0049	<0.0037	<0.0033	<0.029	0.0094	0.34
20135-UP-BA-1	Bass	13.9	708	3	<0.0029	<0.0029	<0.0029	<0.0029	<0.0029	0.017	<0.0098	<0.0068	<0.0029	0.017	0.0077	0.42
20134-UP-BA-1	Bass	14.7	805	2	<0.015	<0.0029	<0.037	<0.011	<0.017	<0.02	0.016	<0.0029	<0.0029	0.016	0.010	0.61
20137-UP-BR-5	Bream	5.1	43	11	<0.0029	<0.0029	<0.0029	<0.0029	<0.0029	0.0065	<0.0058	<0.0052	<0.01	0.0065	0.0063	0.08
20137-UP-BR-4	Bream	5.7	66	10	<0.0029	<0.0029	<0.0029	0.018	<0.0029	0.04	<0.011	<0.0082	<0.0034	0.058	0.012	0.10
20137-UP-BR-3	Bream	6.9	124	10	<0.0029	<0.0029	<0.0034	<0.0039	<0.0029	0.017	<0.0029	<0.0029	<0.0029	0.017	0.0025	0.11
20137-UP-BR-2	Bream	7.4	143	10	<0.0078	<0.0029	<0.0061	<0.0096	<0.0029	0.012	<0.008	<0.005	<0.0029	0.012	0.0031	0.09
20137-UP-BR-1	Bream	8.0	211	10	<0.0029	<0.0029	<0.0029	<0.0029	<0.0029	0.0063	<0.0052	<0.0048	<0.01	0.0063	0.0050	0.14
20133-UP-YBH-2	Bullhead	9.8	296	2	<0.0029	<0.0029	<0.0029	<0.0029	<0.0029	0.011	<0.0055	<0.004	<0.0029	0.011	0.0037	0.11
20133-UP-YBH-1	Bullhead	9.9	276	2	<0.0048	<0.0029	<0.0029	<0.0029	<0.0029	0.0056	<0.0039	<0.0029	<0.0029	0.0056	0.0001	0.09
20127-UP-GA-2	Gar	22.5	732	2	<0.011	<0.0029	<0.0066	<0.014	<0.0029	0.038	0.026	<0.019	<0.0066	0.064	0.030	0.57
20127-UP-GA-1	Gar	25.6	957	4	<0.021	<0.0029	<0.051	<0.019	<0.021	0.034	0.032	<0.0029	<0.0029	0.066	0.020	0.53
20135-UP-GA-1	Gar	31.0	738	1	<0.006	<0.0029	<0.012	<0.0075	<0.012	<0.0075	0.009	<0.0029	<0.0029	0.009	0.0084	0.36
20134-UP-CHP-1	Pickerel	16.0	520	2	<0.0029	<0.0029	<0.0029	<0.0029	<0.0029	0.0063	<0.0029	<0.0029	<0.0029	0.0063	0.0040	0.28
20127-UP-CHP-1	Pickerel	17.3	591	4	<0.014	<0.0029	<0.0061	<0.017	<0.0029	0.0086	<0.0054	<0.0034	<0.0029	0.0086	0.0013	0.28
20135-UP-CHP-1	Pickerel	19.0	846	3	<0.0064	<0.0029	<0.0029	<0.0029	<0.0029	0.0046	<0.0062	<0.0048	<0.0029	0.0046	0.0003	0.36
20134-UP-SS-3	Sucker	16.1	866	6	<0.056	<0.0029	<0.021	<0.017	<0.052	0.079	<0.032	<0.018	<0.0039	0.079	0.13	0.14
20134-UP-SS-2	Sucker	17.0	959	5	<0.089	<0.0029	<0.024	<0.021	<0.16	0.32	<0.085	<0.052	<0.0097	0.32	0.26	0.18
20134-UP-SS-1	Sucker	17.8	1,118	5	<0.063	<0.0029	<0.029	<0.031	<0.076	0.12	<0.07	<0.033	<0.0083	0.12	0.18	0.15
20135-UP-SS-2	Sucker	18.3	1,169	5	<0.027	<0.0029	<0.035	<0.023	<0.043	0.077	<0.055	<0.027	<0.0067	0.077	0.077	0.14
20135-UP-SS-1	Sucker	19.2	1,403	5	<0.023	<0.0029	<0.024	<0.024	<0.023	0.037	<0.031	<0.018	<0.004	0.037	0.054	0.22
Downstream Reporting Zone																
20135-DN-BA-1	Bass	10.8	284	4	<0.011	<0.0029	<0.012	<0.015	<0.025	0.046	<0.021	<0.015	<0.0034	0.046	0.033	0.21
20139-DN-BA-2	Bass	12.2	471	2	<0.033	<0.0029	<0.0029	<0.0062	<0.016	0.022	0.0065	<0.0029	<0.0029	0.029	0.020	0.27
20139-DN-BA-1	Bass	17.6	1,369	1	<0.045	<0.0029	<0.023	<0.025	<0.18	0.15	<0.044	<0.0029	<0.0029	0.15	0.22	0.51
20136-DN-BR-1	Bream	3.8	18	6	<0.0058	<0.0029	<0.019	<0.0069	<0.0029	0.023	<0.027	<0.021	<0.0072	0.023	0.0077	0.07
20139-DN-BR-2	Bream	4.4	28	6	<0.018	<0.0029	<0.044	<0.025	<0.025	0.017	0.0062	<0.0029	<0.0029	0.023	0.018	0.06
20137-DN-BR-2	Bream	4.8	41	6	<0.0081	<0.0029	<0.0096	<0.016	<0.0029	0.041	<0.012	<0.0073	<0.0029	0.041	0.022	0.08
20139-DN-BR-1	Bream	5.8	75	6	<0.028	<0.0029	<0.034	<0.035	<0.013	0.012	0.0051	<0.0029	<0.0029	0.017	0.014	0.09
20137-DN-BR-1	Bream	7.1	154	6	<0.035	<0.0029	<0.05	<0.022	<0.063	0.038	0.013	<0.0029	<0.0029	0.051	0.03506	0.119
20136-DN-YBH-1	Bullhead	12.6	657	1	<0.0096	<0.0029	<0.013	<0.011	<0.019	0.015	<0.0054	<0.0032	<0.0029	0.015	0.02649	0.166
20133-DN-CC-1	Catfish	16.6	833	1	<0.075	<0.015	<0.11	<0.074	<0.56	0.58	0.13	<0.015	<0.015	0.71	0.758	0.165
20136-DN-BLC-1	Crappie	10.6	337	1	<0.0029	<0.0029	<0.0029	<0.0029	<0.0029	<0.0029	<0.0029	<0.0029	<0.0029	<0.0029	<0.0021	0.263
20134-DN-GA-1	Gar	25.5	736	7	<0.044	<0.015	<0.015	<0.056	<0.21	<0.26	0.17	<0.015	<0.015	0.17	0.31092	0.572
20135-DN-GA-2	Gar	29.0	1,058	5	<0.01	<0.0029	<0.0097	<0.018	<0.015	<0.038	<0.033	<0.032	0.027	0.027	0.04438	0.359
20135-DN-GA-1	Gar	35.1	2,218	3	<0.086	<0.015	<0.083	<0.041	<0.34	<0.36	0.16	<0.015	<0.015	0.16	0.54385	0.424
20136-DN-CHP-2	Pickerel	15.0	460	1	<0.0091	<0.0029	<0.007	<0.0082	<0.0082	0.014	<0.0036	<0.0029	<0.0029	0.014	0.00118	0.199
20139-DN-CHP-1	Pickerel	17.4	700	3	<0.0064	<0.0029	<0.0091	<0.0077	<0.013	0.017	<0.0044	<0.0029	<0.0029	0.017	0.00528	0.232
20136-DN-CHP-1	Pickerel	22.5	1,228	1	<0.0058	<0.0029	<0.011	<0.0094	<0.015	0.014	0.007	<0.0029	<0.0029	0.021	0.00522	0.348
20139-DN-SS-2	Sucker	12.4	414	2	<0.015	<0.015	<0.015	0.16	<0.015	0.84	0.21	<0.015	<0.015	1.2	0.9016	0.122
20135-DN-SS-1	Sucker	16.9	1,091	2	<0.0029	<0.0029	<0.0029	0.082	<0.0029	0.24	0.11	<0.0029	<0.0029	0.43	0.45342	0.177
20139-DN-SS-1	Sucker	17.7	1,102	2	<0.11	<0.015	<0.086	<0.067	<0.43	0.46	0.21	<0.015	<0.015	0.67	0.54416	0.297
Site Reporting Zone																
20125-AD-BA-1	Bass	10.6	284	3	<0.015	<0.0029	<0.0094	<0.0068	<0.0091	<0.015	<0.0029	<0.0029	<0.0029	<0.015	0.013	0.21
20139-AD-BA-2	Bass	11.0	319	3	<0.017	<0.0029	<0.028	<0.018	<0.051	0.065	0.013	<0.0029	<0.0029	0.078	0.068	0.21
20136-AD-BA-1	Bass	12.0	489	3	<0.043	<0.0029	<0.019	<0.011	<0.0029	0.049	<0.013	<0.0091	<0.0032	0.049	0.020	0.23
20139-AD-BA-1	Bass	15.0	912	3	<0.02	<0.0029	<0.011	<0.018	<0.15	0.12	<0.02	<0.014	<0.0029	0.12	0.11	0.35
20132-AD-BR-5A	Bream	4.2	30	3	<0.0029	<0.0029	<0.0029	0.083	<0.0029	0.32	0.07	<0.0029	<0.0029	0.47	0.42	0.11
20132-AD-BR-4A	Bream	4.7	37	3	<0.0029	<0.0029	<0.0041	<0.016	<0.064	0.1	<0.0029	<0.0029	<0.0029	0.10	0.036	0.11
20132-AD-BR-3A	Bream	5.3	52	4	<0.0064	<0.0029	<0.0075	<0.0073	<0.019	0.045	0.0076	<0.0029	<0.0029	0.053	0.064	0.08

Table 8. RI Phase I/II: Summary of Finfish Tissue Analysis

Sample ID	Species	Length (in)	Weight (g)	Fish count	Aroclor 1016 (mg/kg)	Aroclor 1221 (mg/kg)	Aroclor 1232 (mg/kg)	Aroclor 1242 (mg/kg)	Aroclor 1248 (mg/kg)	Aroclor 1254 (mg/kg)	Aroclor 1260 (mg/kg)	Aroclor 1262 (mg/kg)	Aroclor 1268 (mg/kg)	Total PCB Aroclors (mg/kg)	Total PCB Congeners (mg/kg)	Mercury (mg/kg)
20139-AD-BR-4	Bream	5.7	60	7	<0.0038	<0.0029	<0.0094	<0.011	<0.0029	0.022	<0.0099	<0.0062	<0.01	0.022	0.015	0.11
20132-AD-BR-2A	Bream	5.9	78	4	<0.014	<0.0029	<0.019	<0.014	<0.04	0.066	0.017	<0.0029	<0.0029	0.083	0.053	0.08
20139-AD-BR-3	Bream	6.3	78	8	<0.051	<0.0029	<0.039	<0.023	<0.078	0.075	0.017	<0.0029	<0.0029	0.092	0.049	0.10
20132-AD-BR-1A	Bream	6.4	77	4	<0.013	<0.0029	<0.015	<0.013	<0.047	0.16	0.033	<0.0029	<0.0029	0.19	0.24	0.17
20139-AD-BR-2	Bream	7.0	121	8	<0.0029	<0.0029	<0.017	<0.027	<0.01	0.1	<0.02	<0.011	<0.0032	0.10	0.070	0.11
20139-AD-BR-1	Bream	7.6	153	8	<0.016	<0.0029	<0.022	<0.018	<0.021	<0.017	<0.0038	<0.0031	<0.0029	<0.022	0.0079	0.14
20138-AD-BR-1	Bream	8.4	248	8	<0.019	<0.0029	<0.15	<0.014	<0.012	0.011	<0.005	<0.0033	<0.0029	0.011	0.0093	0.14
20138-AD-YBH-1	Bullhead	9.3	248	2	<0.03	<0.0029	<0.038	<0.03	<0.07	0.095	0.022	<0.0029	<0.0029	0.12	0.067	0.10
20136-AD-YBH-1	Bullhead	10.2	316	2	<0.042	<0.0029	<0.026	<0.06	<0.012	0.033	0.0096	<0.0029	<0.0029	0.043	0.017	0.12
20124-AD-YBH-1	Bullhead	11.1	423	1	<0.027	<0.0029	<0.032	<0.0029	<0.031	0.045	0.026	<0.0029	<0.0029	0.071	0.051	0.15
19340-AD-BLC-1	Crappie	9.4	149	1	<0.062	<0.0029	<0.031	<0.017	<0.098	0.074	0.044	<0.033	<0.014	0.12	0.044	0.17
20139-AD-BLC-1	Crappie	10.0	198	1	<0.0083	<0.0029	<0.018	<0.013	<0.011	<0.0071	<0.0034	<0.0031	<0.004	<0.018	0.012	0.26
20125-AD-GA-1	Gar	20.1	549	4	<0.013	<0.0029	<0.016	<0.014	<0.039	0.067	<0.017	<0.011	<0.0029	0.067	0.029	0.49
20126-AD-GA-2	Gar	22.6	839	5	<0.031	<0.0029	<0.016	<0.013	<0.094	0.11	0.046	<0.0029	<0.0029	0.16	0.10	0.49
20124-AD-GA-1	Gar	24.5	738	5	<0.063	<0.022	<0.031	<0.018	<0.12	<0.12	0.054	<0.0029	<0.0029	0.054	0.17	0.60
20132-AD-GA-1	Gar	26.4	914	5	<0.27	<0.015	<0.087	<0.091	<0.39	<0.65	0.3	<0.015	<0.015	0.3	0.70	0.70
20126-AD-GA-1	Gar	30.1	1,131	5	<0.044	<0.015	<0.018	<0.015	<0.32	<0.46	0.25	<0.015	<0.015	0.25	1.0	0.68
20137-AD-CHP-1	Pickerel	15.1	478	6	<0.012	<0.0029	<0.0061	<0.0029	<0.0029	0.018	<0.0029	<0.0029	<0.0029	0.018	0.0016	0.18
20136-AD-CHP-1	Pickerel	16.7	604	5	<0.011	<0.0029	<0.0094	<0.0056	<0.007	0.014	0.0047	<0.0029	<0.0029	0.0187	0.010	0.23
20138-AD-CHP-3	Pickerel	17.6	726	5	<0.012	<0.0029	<0.019	<0.019	<0.016	<0.0091	<0.0038	<0.0029	<0.0029	<0.019	0.0023	0.22
20138-AD-CHP-2	Pickerel	18.6	738	5	<0.014	<0.0029	<0.0049	<0.0055	<0.0084	0.015	<0.0046	<0.0029	<0.0029	0.015	0.0026	0.27
20138-AD-CHP-1	Pickerel	20.7	916	5	<0.0094	<0.0029	<0.034	<0.021	<0.023	<0.026	0.0072	<0.0029	<0.0029	0.0072	0.013	0.35
20136-AD-SS-2	Sucker	15.0	742	3	<0.025	<0.0029	<0.026	<0.031	<0.027	0.027	0.016	<0.0029	<0.0029	0.043	0.028	0.07
20139-AD-SS-2	Sucker	16.4	959	4	<0.015	<0.015	<0.015	0.12	<0.015	0.57	0.11	<0.015	<0.015	0.80	0.52	0.14
20136-AD-SS-1	Sucker	16.8	1,051	4	<0.0029	<0.0029	<0.016	<0.016	<0.15	0.13	0.057	<0.0029	<0.0029	0.19	0.21	0.19
20122-AD-SS-1	Sucker	17.2	1,036	4	<0.075	<0.0029	<0.04	<0.035	<0.15	0.2	0.075	<0.01	<0.01	0.28	0.22	0.21
20139-AD-SS-1	Sucker	18.4	1,383	4	<0.13	<0.015	<0.015	<0.095	<0.41	0.5	0.11	<0.015	<0.015	0.61	0.46	0.25

Total PCBs assume 0 for non-detects

Table 9. Ecological: Surface Water Results

Parameter	DU1-ERA-SD µg/L	DU7A-ERA-SD µg/L	DU10-ERA-SD µg/L	DU10-ERA-SD DUP µg/L	DU6-ERA-SD µg/L	DU7B-ERA-SD µg/L	DU7D-ERA-SD µg/L
Inorganics							
Aluminum	72.9	234	35.2	46.6	126	119	124
Aluminum, dissolved	19.9	119	22.4		17.3	60.8	25.4
Antimony	0.265	<0.05	<0.05	<0.05	0.257	<0.05	0.184
Antimony, dissolved	0.259	<0.05	<0.05		0.271	<0.05	0.18
Barium	33.4	50	59.8	60.6	45.9	62.4	51.7
Barium, dissolved	33.2	47.1	56.9		43.9	58.4	51.6
Cadmium	0.216	<0.02	<0.02	<0.02	0.432	<0.02	0.618
Cadmium, dissolved	0.178	<0.02	<0.02		0.306	<0.02	0.272
Copper	0.49	0.99	0.54	0.6	0.94	0.83	1.11
Copper, dissolved	0.65	0.84	0.5		0.79	0.78	0.78
Iron	134	1510	2800	2810	594	2080	1030
Iron, dissolved	59.6	493	944		168	780	297
Lead	0.317	0.334	0.31	0.319	0.285	0.344	0.384
Lead, dissolved	0.088	0.107	0.119		0.074	0.126	0.092
Mercury	0.00215	0.0015	0.0016	0.0017	0.0035	0.0015	0.0051
Mercury, dissolved	0.0012	0.0009	0.0009		0.0013	0.0009	0.0015
Thallium	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Thallium, dissolved	<0.02	<0.02	<0.02		<0.02	<0.02	<0.02
Zinc	3	<2	5.3	4.8	3	<2	2.5
Zinc, dissolved	3.1	<2	4.4		2.2	<2	<2
PCBs							
Aroclor 1016	<0.005 J	<0.01 J	<0.01 J	<0.005 J	<0.01 J	<0.01 J	<0.005 J
Aroclor 1016, dissolved	<0.005 J	<0.005 J	<0.005 J		<0.005 J	<0.0078 J	<0.005 J
Aroclor 1221	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.01
Aroclor 1221, dissolved	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01
Aroclor 1232	<0.005	<0.01	<0.01	<0.005	<0.01	<0.01	<0.005
Aroclor 1232, dissolved	<0.005	<0.005	<0.005		<0.005	<0.016	<0.005
Aroclor 1242	0.039	<0.01	<0.01	<0.005	0.017	<0.01	0.015
Aroclor 1242, dissolved	<0.005	<0.005	<0.005		0.0054	<0.005	<0.005
Aroclor 1248	<0.005	<0.01	<0.01	<0.005	<0.01	<0.01	<0.005
Aroclor 1248, dissolved	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005
Aroclor 1254	0.026 J	<0.01	<0.01	<0.005	0.015 J	<0.01	0.011 J
Aroclor 1254, dissolved	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005
Aroclor 1260	<0.005 J	<0.01 J	<0.01 J	<0.005 J	<0.01 J	<0.01 J	<0.005 J
Aroclor 1260, dissolved	<0.005 J	<0.005 J	<0.005 J		<0.005 J	<0.005 J	<0.005 J

J: Data validation flag indicating result is estimated, but may be used for site evaluation and risk assessment purposes.

Table 10. Ecological: Pore Water Results

Parameter	DU1-ERA-SD µg/L	SU7A-ERA-SD µg/L	DU10-ERA-SD µg/L	DU6-ERA-SD µg/L	DU7B-ERA-SD µg/L	DU7D-ERA-SD µg/L
Inorganics						
Barium, dissolved	37.9	340	119	16.8	162	178
Mercury, dissolved	0.0046	0.0007	<0.0005	0.0007	0.0012	0.0016
Total Organic Carbon, Dissolved	7260	5330	N/A	N/A	N/A	N/A
PAHs						
2-Methylnaphthalene	<0.02	<0.04	<0.02	<0.02	<0.02	<0.02
Acenaphthene	<0.02	<0.04	<0.02	<0.02	0.051	<0.02
Acenaphthylene	<0.02	<0.04	<0.02	<0.02	<0.02	<0.02
Anthracene	<0.02	<0.04	<0.02	<0.02	<0.02	<0.02
Benzo(a)anthracene	<0.02	<0.04	<0.02	<0.02	<0.02	<0.02
Benzo(a)pyrene	<0.02	<0.04	<0.02	<0.02	<0.02	<0.02
Benzo(b)fluoranthene	<0.02	<0.04	<0.02	<0.02	<0.02	<0.02
Benzo(g,h,i)perylene	<0.02	<0.04	<0.02	<0.02	<0.02	<0.02
Benzo(k)fluoranthene	<0.02	<0.04	<0.02	<0.02	<0.02	<0.02
Chrysene	<0.02	<0.04	<0.02	<0.02	<0.02	<0.02
Dibenzo(a,h)anthracene	<0.02	<0.04	<0.02	<0.02	<0.02	<0.02
Fluoranthene	<0.02	<0.04	<0.02	<0.02	<0.02	<0.02
Fluorene	<0.02	<0.04	<0.02	<0.02	<0.02	<0.02
Indeno(1,2,3-cd)pyrene	<0.02	<0.04	<0.02	<0.02	<0.02	<0.02
Naphthalene	<0.02	<0.04	<0.02	<0.02	0.032	<0.02
Phenanthrene	<0.02	<0.04	<0.02	<0.02	<0.02	<0.02
Pyrene	<0.02	<0.04	<0.02	<0.02	<0.02	<0.02
Dibenzofuran	<0.02	<0.04	<0.02	<0.02	<0.02	<0.02
PCBs						
Aroclor 1016	<0.005 J	<0.01 J	<0.005 J	<0.025 J	<0.005 J	<0.005 J
Aroclor 1221	<0.01	<0.02	<0.01	<0.05	<0.01	<0.01
Aroclor 1232	<0.005	<0.01	<0.005	<0.025	<0.0065	<0.005
Aroclor 1242	0.066 J	<0.01	<0.005	<0.025	<0.0052	<0.005
Aroclor 1248	<0.005	<0.01	<0.005	<0.025	<0.005	<0.005
Aroclor 1254	0.036 J	<0.01	<0.005	<0.025	<0.005	<0.005
Aroclor 1260	<0.005	<0.01	<0.005	<0.025	<0.005	<0.005

N/A: Not analyzed

J: Data validation flag indicating result is estimated, but may be used for site evaluation and risk assessment purposes.

Table 11. Ecological: Sediment Inorganics

Location	Mercury µg/kg	Barium, SEM µmol/g	Cadmium, SEM µmol/g	Copper, SEM µmol/g	Lead, SEM µmol/g	Mercury, SEM µmol/g	Nickel, SEM µmol/g	Zinc, SEM µmol/g	Sulfide AVS µmol/g
DU1-ERA-SD	26.6	0.0129	0.00269	0.0129	0.0129 J	<0.000048	<0.0016	0.0527	0.025 J
DU6-ERA-SD	60.7	0.0303	<0.00077	0.0313	0.0105 J	<0.000077	<0.0026	0.0104	<0.031 J
DU7A-ERA-SD	45.9	0.644	<0.0031	0.0148	<0.015 J	<0.000061	<0.01	0.034	<0.024 J
DU7B-ERA-SD	1100	0.114	0.00352	0.0361	0.0067 J	<0.000056	0.0034	0.0541	<0.022 J
DU7D-ERA-SD	44	0.342	<0.00053	0.0107	0.0153 J	<0.000053	0.0021	0.0235	<0.021 J
DU10-ERA-SD	33.2	0.16	<0.00048	0.0172	0.012 J	<0.000048	0.002	0.0348	<0.019 J

J: Data validation flag indicating result is estimated, but may be used for site evaluation and risk assessment purposes.

Table 12. Ecological: Soil/Sediment Characteristics

Parameter	Sediment					
	DU10-ERA-SD %	DU1-ERA-SD %	DU6-ERA-SD %	DU7A-ERA-SD %	DU7B-ERA-SD %	DU7D-ERA-SD %
Grain Size - Fine Sand	49.32	2.15	61.35	89.72	47.89	79.88
Grain Size - Silt	44.7	0.98	59.79	87.6	46.49	71.27
GRAVEL(19.0MM)	100	99.73	100.08	100	99.9	98.48
GRAVEL(9.50MM)	100	99.73	100.08	100	99.85	98.48
Hydrometer - 0.0015 mm	5.66	0	10.12	49	12.14	15.07
Hydrometer - 0.005 mm	20.26	0	28.69	63.43	24.98	36.09
Particle size, Sieve No. 04, 4 mesh, (4.75mm)	99.95	94.76	99.67	100	99.75	97.54
Particle size, Sieve No. 10, 9 mesh, (2.00mm)	99.91	87.98	99.47	100	99.36	97.45
Particle size, Sieve No. 20, 20 mesh, (0.850mm)	98.29	64.09	97.05	99.37	92.93	96.96
Particle size, Sieve No. 200, 200 mesh, (0.075mm)	42.14	2.11	57.62	87.55	46.12	74.38
Particle size, Sieve No. 40, 35 mesh, (0.425mm)	87.48	20.56	87.04	98.1	75.38	94.33
Particle size, Sieve No. 60, 60 mesh, (0.250mm)	70.03	4.33	74.23	96.25	58.14	89.69

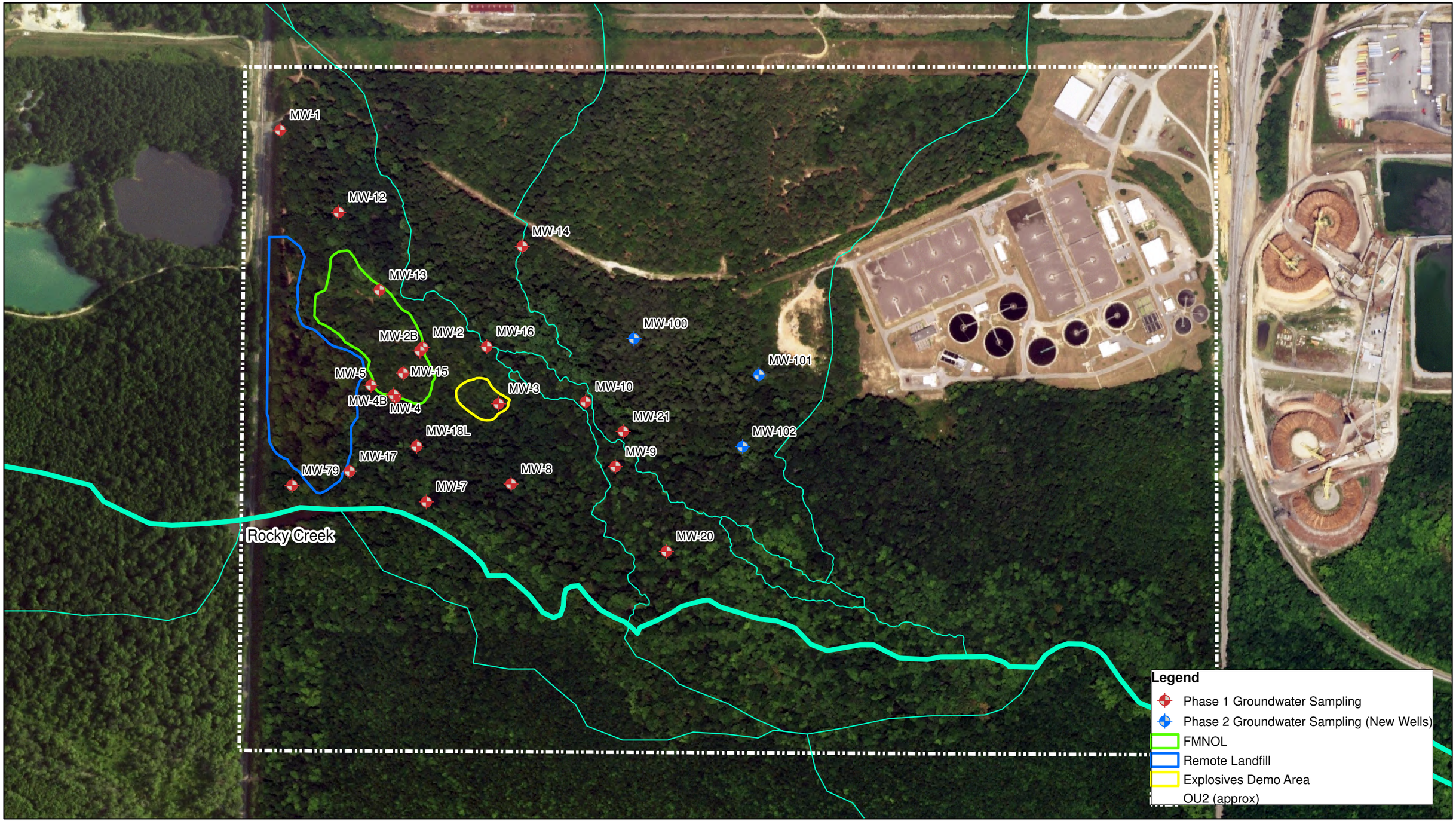
Parameter	Percent Solids %	Total Organic Carbon (TOC) %
Soil		
DU16-ERA-SO	43.3	9.04
DU3-ERA-SO	49.3	7.68
DU7-ERA-SO	61.1	10.9
FMNOL-ERA-SO	86.1	3.04
DU18-ERA-SO	55.2	9.49
Sediment		
DU10-ERA-SD	79	1.03
DU1-ERA-SD	81.9	<0.1
DU6-ERA-SD	51.2	4.15
DU7A-ERA-SD	64.4	1.44
DU7B-ERA-SD	65.4	4.97
DU7D-ERA-SD	75.7	0.37

Table 13. Ecological: Benthic Macroinvertebrate Metrics

Metric	DU1-ERA-SD	DU6-ERA-SD	DU7A-ERA-SD	DU7B-ERA-SD	DU7D-ERA-SD	DU10-ERA-SD
Total Taxa Richness	24	17	18	15	20	18
Percent EPT Specimens	35%	80%	20%	85%	72%	3%
Hilsenhoff Biotic Index	6.9	6.0	6.4	3.8	4.3	7.9
HBI water quality rating	fairly poor	fair	fair	very good	very good	poor
Percent Filtering Collectors (FC)	16%	0%	13%	4%	3%	5%

ATTACHMENT 2
FIGURES

Figure 1	Groundwater Monitoring Well Locations
Figure 2	Locations of Soil Decision Units
Figure 3A	Locations of Sediment Decision Units at OU2
Figure 3B	Locations of Off-Site Sediment Decision Units
Figure 4	Surface Water Sample Locations
Figure 5	Fish Collection Zones
Figure 6	Locations of Ecological Evaluation Samples



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Feet

EPS
a Montrose Environmental Group company

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Groundwater Monitoring Well Locations

Figure No. 1

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Locations of Soil Decision Units

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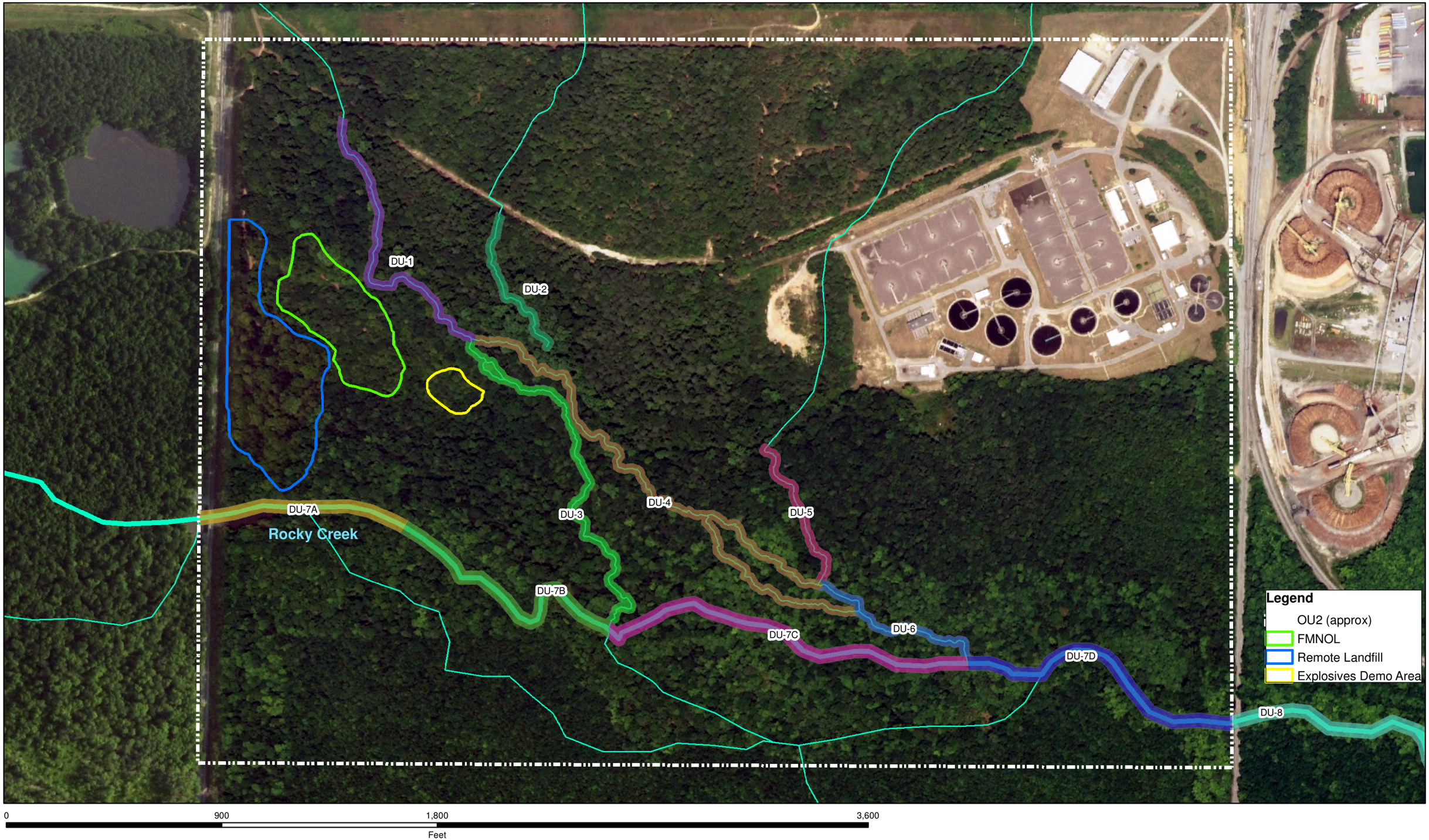
Figure No. 2



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Locations of Sediment Decision Units at OU2

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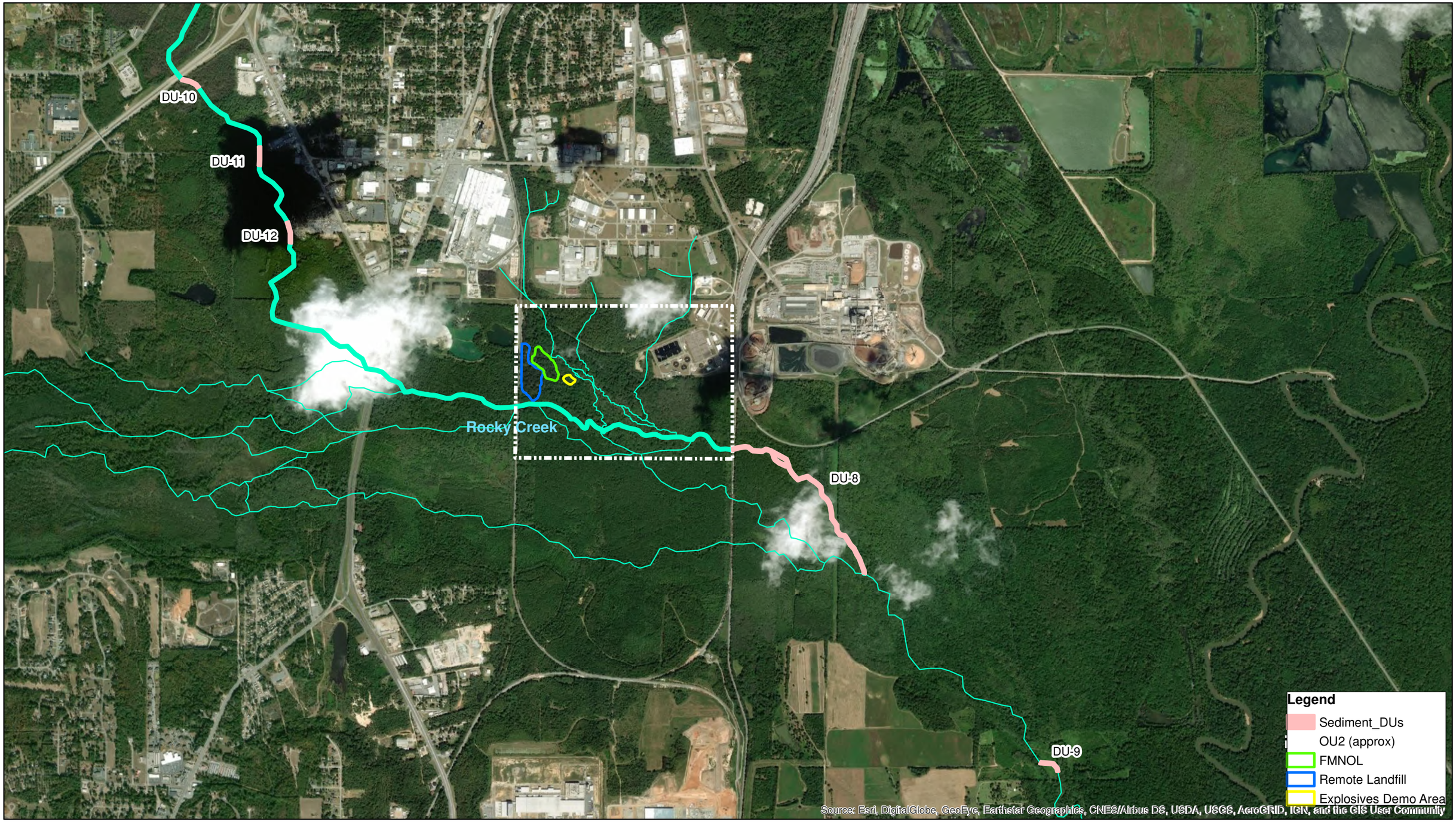
Figure No. 3A



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Locations of Off-Site Sediment Decision Units

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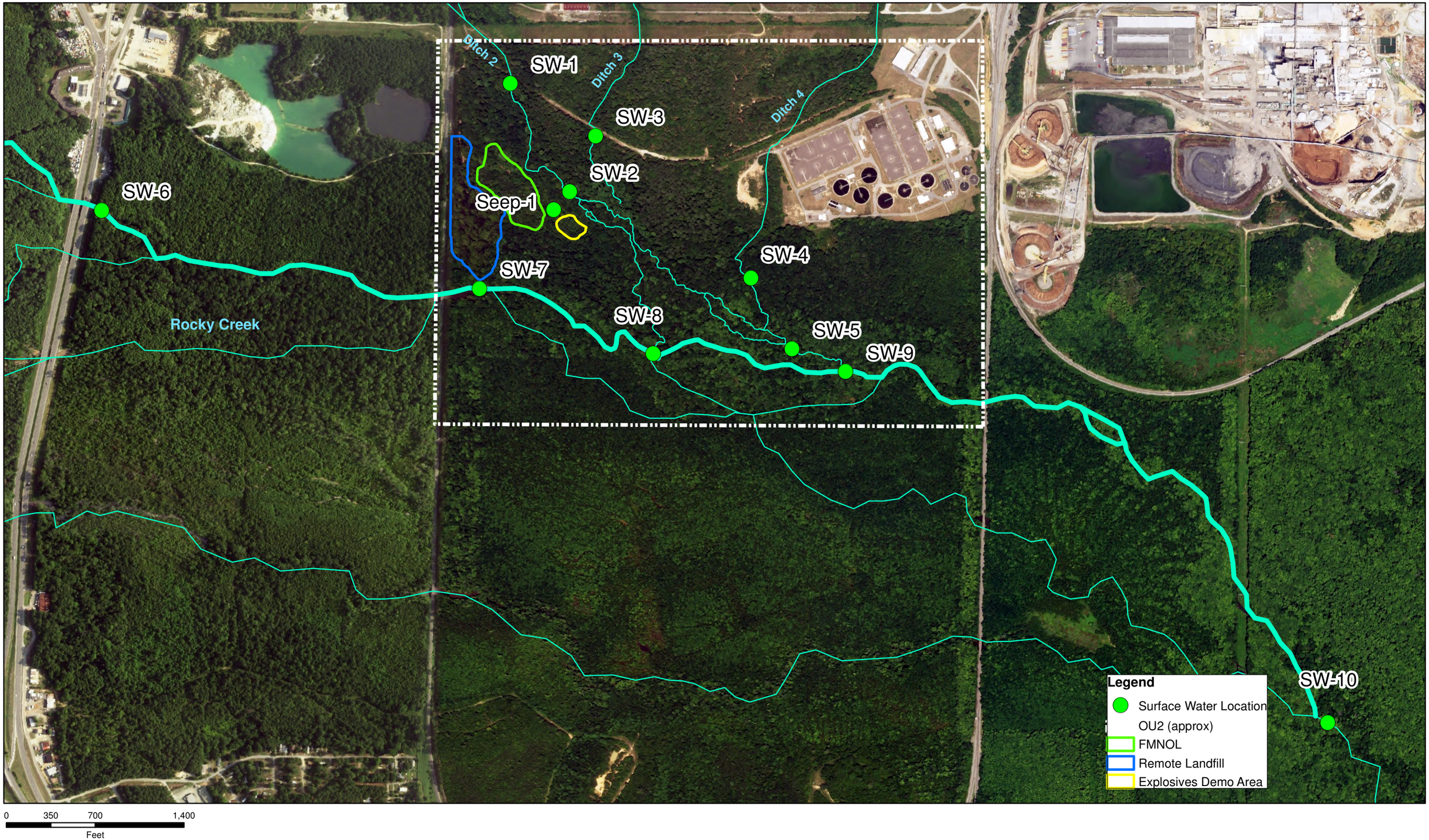
Figure No. 3B



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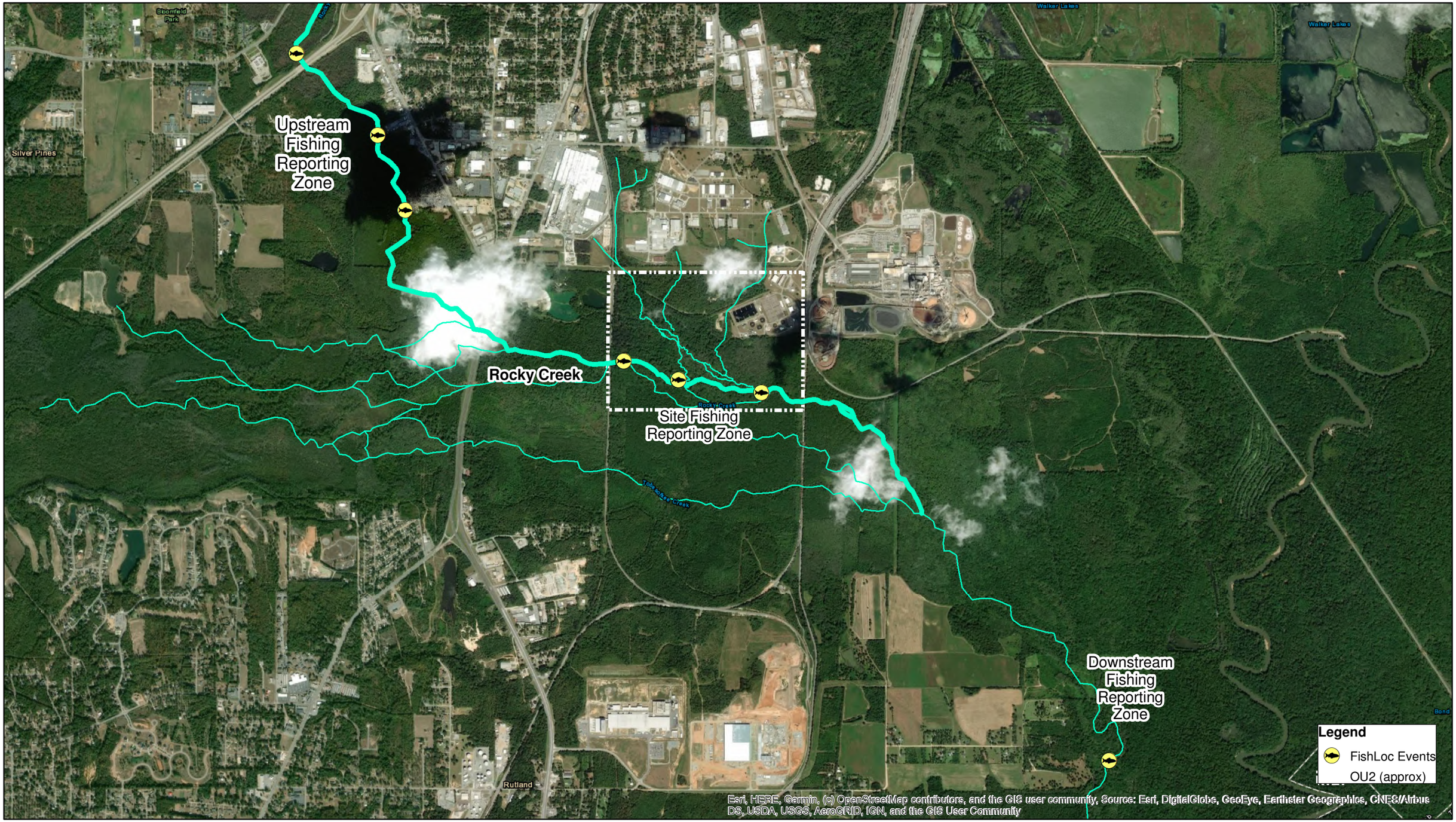
Surface Water Sample Locations

Figure No. 4



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Feet

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Fish Collection Zones

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Figure No. 5

0 500 1,000 2,000
Feet

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Locations of Ecological Evaluation Samples

Figure No. 6

ATTACHMENT 3

BENTHIC SURVEY RESULTS

NORMANDEAU ASSOCIATES, INC.

6 January 2021

Mr. Alex Testoff
Montrose Environmental
400 Northridge Road, Suite 400
Sandy Springs, Georgia 30350

CASE NARRATIVE

SUBJECT: Benthic Macroinvertebrate Sample Analysis: Macon, Georgia Superfund Site (Normandeau Associates, Inc. Project Number 24524.001)

Dear Mr. Testoff:

On 9 November 2020 Normandeau Associate's Stowe, Pennsylvania Laboratory received a set of 6 benthic macroinvertebrate samples collected by Montrose Environmental for a taxonomic analysis. Passive quantitative samples were collected with Hester-Dendy units on 2-3 November from 6 locations at a Superfund Site near Macon, Georgia (AWI Macon OU2). Twenty Hester-Dendy samplers (Area = 1.78 square meters) were composited from each location. These were analyzed under a Subcontractor Agreement dated: 9 September 2020 (Montrose Project No.: 000972).

Methodology

In the lab the sample matrices were rinsed through a 500-micron sieve and distributed into a gridded pan partially filled with water. Invertebrate specimens were then removed from the matrices under magnification and sorted by type into glass vials, until a random count of 200 (+/- 20%) was obtained.

The invertebrates were identified to the genus/species taxonomic end point, as their age and condition allowed using dissecting and compound microscopes.

Quality Assurance/Quality Control

Normandeau taxonomists are certified by the Society for Freshwater Science.

Quality Assurance/Quality Control was applied to selected samples for both the processing and taxonomic identification phases of the analysis.

For processing, a randomly selected sample was independently re-sorted to determine the efficiency of both taxa and specimen removal. The results were considered acceptable if a standard of 90 percent was attained. Quality Control results are shown below:

Sample Processing (sorting):

Sample	Sample Date	Taxa	Specimens
20308-SU-7D-BCA	3 November 2020	100.0%	97.1%

For taxonomy, a sample was independently re-analyzed by a second Biologist to determine the accuracy of the identifications. The results were considered acceptable if 90 percent or more of the identifications were confirmed.

Sample Analysis (taxonomy):

Sample	Sample Date	Taxa	Gross Count
20307-DU-1-BCA	2 November 2020	100.0%	97.5%

All records (e.g., laboratory tracking forms and bench sheets) produced from this analysis are retained at Normandeau's Stowe, Pennsylvania office and are available upon request.

Results

A cumulative total of 53 discrete taxa was identified from the sample set (all stations combined). The data from individual stations were condensed to five metrics: 1) Community and Population Density; 2) Taxonomic Richness; 3) the Percentage EPT (mayfly, stonefly, and caddisfly) Specimens; 4) Hilsenhoff's Biotic Index of water quality (a weighted average); and 5) the Percentage of Filtering Collectors (a feeding guild).

The data and metric calculations were submitted to Montrose in excel format on 11 December 2020 as a set of six report-ready data tables.

Respectively Submitted,

George M. Christian
(Senior Scientist/Laboratory Manager)

cc. file

Reference:

Flotemersch, J. E., J. B. Stribling, and M. J. Paul. 2006. Concepts and Approaches for the Bio-assessment of Non-wadeable Streams and Rivers. EPA 600-R-06-127. US Environmental Protection Agency Cincinnati, Ohio.

Benthic Macroinvertebrates collected by Montrose Envronmental from the Macon, Georgia Superfund Site (AWI Macon OU2)

Sample ID:	**20307 - DU - 1 - BCA**
Collection Date:	November 2, 2020
Gear Type:	Hester-Dendy Colonization Samplers (composite of 20 per station: Area = 1.78 sq. m.)

Taxon	Tol. [1]	Filterer (FC)	Common Name	Subsample Count	Mult. Factor	Sample Estimate	Density (no./m^2)	Pct. Abund.
Gastropoda								
Physella sp.	8.7		pouch snail	14	2	28	16	7.0%
Amphipoda								
Gammarus fasciatus	7.0		side swimmer	1	2	2	1	0.5%
Ephemeroptera								
Baetis sp.	6.0		mayfly	50	2	100	56	**24.9%**
Odonata								
Argia sp.	8.3		damselfly	14	2	28	16	7.0%
Calopteryx sp.	7.5		damselfly	1	2	2	1	0.5%
Enallagma sp.	8.5		damselfly	2	2	4	2	1.0%
Megaloptera								
Corydalus cornutus	5.2		dobson fly	2	2	4	2	1.0%
Trichoptera								
Cheumatopsyche sp.	6.6	FC	caddisfly	19	2	38	21	9.5%
Chimarra aterrima	3.3	FC	caddisfly	1	2	2	1	0.5%
Polycentropus sp.	3.1	FC	caddisfly	1	2	2	1	0.5%
Diptera (Chironomidae)								
Ablabesmyia mallochi	7.4		midge	8	2	16	9	4.0%
Chironomus sp.	9.3		midge	5	2	10	6	2.5%
Dicrotendipes simpsoni	9.8		midge	9	2	18	10	4.5%
Microtendipes pedellus gr.	3.9		midge	4	2	8	4	2.0%
Paratanytarsus sp.	8.0		midge	5	2	10	6	2.5%
Paratendipes albimanus	5.6		midge	1	2	2	1	0.5%
Polypedilum fallax gr.	6.5		midge	11	2	22	12	5.5%
Polypedilum halterale gr.	7.4		midge	4	2	8	4	2.0%
Polypedilum illinoense gr.	8.7		midge	4	2	8	4	2.0%
Rheocricotopus robacki	7.9		midge	2	2	4	2	1.0%
Rheotanytarsus exiguus gr.	4.7	FC	midge	11	2	22	12	5.5%
Stempellinella sp.	5.6		midge	16	2	32	18	8.0%
Thienemannimyia gr.	8.4		midge	15	2	30	17	7.5%
Other Diptera								
Hemerodromia sp.	6.0		dance fly	1	2	2	1	0.5%
Total Specimens				201		402		100.0%
Community Density (no./sq. meter)							**226**	

Metrics [2]

Total Taxa Richness	**24**
Percent EPT Specimens	**35.3%**
Hilsenhoff Biotic Index (water quality rating: "fairly poor")	**6.92**
Percent Filtering Collectors (FC)	**15.9%**

(1) *North Carolina Dept. of Env. Quality (NC DEQ). 2016. Standard Operating Procedures for the Collection and Analysis of Benthic Macroinvertebrates. NC DEQ, Division of Water Resources, Raleigh, NC.*

(2) *Flotmemersch, J. E., J. B. Stribling, and M. J. Paul. 2006. Concepts and Approaches for the Bioassessment of Non-wadeable Streams and Rivers. EPA 600-R-06-127. US Environmental Protection Agency, Cincinnati, OH.*

Benthic Macroinvertebrates collected by Montrose Envronmental from the Macon, Georgia Superfund Site (AWI Macon OU2)

Sample ID:	**20308 - DU - 6 - BCA**
Collection Date:	November 3, 2020
Gear Type:	Hester-Dendy Colonization Samplers (composite of 20 per station: Area = 1.78 sq. m.)

Taxon	Tol. [1]	Filterer (FC)	Common Name	Subsample Count	Mult. Factor	Sample Estimate	Density (no./m^2)	Pct. Abund.
Gastropoda								
Physella sp.	8.7		pouch snail	1	4	4	2	0.5%
Isopoda								
Lirceus sp.	7.4		water slater	16	4	64	36	8.0%
Ephemeroptera								
Baetis sp.	6.0		mayfly	1	4	4	2	0.5%
Maccaffertium sp.	3.1		mayfly	30	4	120	67	14.9%
Stenacron interpunctatum gr.	6.4		mayfly	128	4	512	288	**63.7%**
Odonata								
Argia sp.	8.3		damselfly	2	4	8	4	1.0%
Boyeria vinosa	5.8		dragonfly	1	4	4	2	0.5%
Trichoptera								
Cheumatopsyche sp.	6.6	FC	caddisfly	1	4	4	2	0.5%
Oecetis sp.	5.1		caddisfly	1	4	4	2	0.5%
Coleoptera								
Dubiraphia vittata	5.0		riffle beetle	2	4	8	4	1.0%
Macronychus glabratus	4.7		riffle beetle	3	4	12	7	1.5%
Diptera (Chironomidae)								
Ablabesmyia mallochi	7.4		midge	3	4	12	7	1.5%
Dicrotendipes simpsoni	9.8		midge	1	4	4	2	0.5%
Labrundinea pilosella	6.2		midge	1	4	4	2	0.5%
Polypedilum fallax gr.	6.5		midge	1	4	4	2	0.5%
Rheocricotopus robacki	7.9		midge	1	4	4	2	0.5%
Tribelos atrum	6.4		midge	8	4	32	18	4.0%
Total Specimens				201		804		100.0%
Community Density (no./sq. meter)							**452**	

Metrics [2]

Total Taxa Richness	**17**
Percent EPT Specimens	**80.1%**
Hilsenhoff Biotic Index (water quality rating: "fair")	**6.01**
Percent Filtering Collectors (FC)	**0.5%**

(1) *North Carolina Dept. of Env. Quality (NC DEQ). 2016. Standard Operating Procedures for the Collection and Analysis of Benthic Macroinvertebrates. NC DEQ, Division of Water Resources, Raleigh, NC.*

(2) *Flotmemersch, J. E., J. B. Stribling, and M. J. Paul. 2006. Concepts and Approaches for the Bioassessment of Non-wadeable Streams and Rivers. EPA 600-R-06-127. US Environmental Protection Agency, Cincinnati, OH.*

Benthic Macroinvertebrates collected by Montrose Envronmental from the Macon, Georgia Superfund Site (AWI Macon OU2)

Sample ID:	**20308 - DU - 10 - BCA**
Collection Date:	November 3, 2020
Gear Type:	Hester-Dendy Colonization Samplers (composite of 20 per station: Area = 1.78 sq. m.)

Taxon	Tol. [1]	Filterer (FC)	Common Name	Subsample Count	Mult. Factor	Sample Estimate	Density (no./m^2)	Pct. Abund.
Decapoda								
Orconectes sp.	2.7		crayfish	2	4	8	4	0.8%
Ephemeroptera								
Maccaffertium sp.	3.1		mayfly	7	4	28	16	2.9%
Odonata								
Pachydiplax sp.	9.6		dragonfly	1	4	4	2	0.4%
Tetragoneuria sp.	5.7		dragonfly	1	4	4	2	0.4%
Coleoptera								
Neoporus sp.	5.0		diving beetle	1	4	4	2	0.4%
Diptera (Chironomidae)								
Ablabesmyia mallochi	7.4		midge	22	4	88	49	9.2%
Ablabesmyia ramphe gr.	6.8		midge	6	4	24	13	2.5%
Chironomus sp.	9.3		midge	18	4	72	40	7.5%
Corynoneura sp.	5.7		midge	4	4	16	9	1.7%
Diamesinae	4.7		midge	2	4	8	4	0.8%
Dicrotendipes simpsoni	9.8		midge	98	4	392	220	**40.8%**
Phaenopsectra obedians gr.	6.6		midge	18	4	72	40	7.5%
Polypedilum halterale gr.	7.4		midge	9	4	36	20	3.8%
Psectrocladius sp.	3.6		midge	7	4	28	16	2.9%
Tanytarsus sp.	6.6	FC	midge	11	4	44	25	4.6%
Thienemannimyia gr.	8.4		midge	6	4	24	13	2.5%
Tribelos atrum	6.4		midge	9	4	36	20	3.8%
Tribelos jacundum	5.7		midge	18	4	72	40	7.5%
Total Specimens				240		960		100.0%
Community Density (no./sq. meter)							**539**	

Metrics [2]

Total Taxa Richness	**18**
Percent EPT Specimens	**2.9%**
Hilsenhoff Biotic Index (water quality rating: "poor")	**7.94**
Percent Filtering Collectors (FC)	**4.6%**

(1) *North Carolina Dept. of Env. Quality (NC DEQ). 2016. Standard Operating Procedures for the Collection and Analysis of Benthic Macroinvertebrates. NC DEQ, Division of Water Resources, Raleigh, NC.*

(2) *Flotmemersch, J. E., J. B. Stribling, and M. J. Paul. 2006. Concepts and Approaches for the Bioassessment of Non-wadeable Streams and Rivers. EPA 600-R-06-127. US Environmental Protection Agency, Cincinnati, OH.*

Benthic Macroinvertebrates collected by Montrose Envronmental from the Macon, Georgia Superfund Site (AWI Macon OU2)

Sample ID:	**20307 - SU - 7A - BCA**
Collection Date:	November 2, 2020
Gear Type:	Hester-Dendy Colonization Samplers (composite of 20 per station: Area = 1.78 sq. m.)

Taxon	Tol. [1]	Filterer (FC)	Common Name	Subsample Count	Mult. Factor	Sample Estimate	Density (no./m^2)	Pct. Abund.
Gastropoda								
Amnicola sp	4.1		dusky snail	4	2	8	4	2.0%
Amphipoda								
Hyalella azteca gr.	7.2		side swimmer	9	2	18	10	4.6%
Isopoda								
Lirceus sp.	7.4		water slater	3	2	6	3	1.5%
Ephemeroptera								
Maccaffertium sp.	3.1		mayfly	37	2	74	42	18.8%
Stenacron interpunctatum gr.	6.4		mayfly	2	2	4	2	1.0%
Odonata								
Enallagma sp.	8.5		damselfly	1	2	2	1	0.5%
Pachydiplax sp.	9.6		dragonfly	2	2	4	2	1.0%
Trichoptera								
Oecetis sp.	5.1		caddisfly	1	2	2	1	0.5%
Diptera (Chironomidae)								
Ablabesmyia mallochi	7.4		midge	6	2	12	7	3.0%
Ablabesmyia ramphe gr.	6.8		midge	1	2	2	1	0.5%
Chironomus sp.	9.3		midge	9	2	18	10	4.6%
Dicrotendipes simpsoni	9.8		midge	27	2	54	30	13.7%
Labrundinea pilosella	6.2		midge	1	2	2	1	0.5%
Phaenopsectra obedians gr.	6.6		midge	12	2	24	13	6.1%
Polypedilum fallax gr.	6.5		midge	49	2	98	55	**24.9%**
Rheotanytarsus exiguus gr.	4.7	FC	midge	5	2	10	6	2.5%
Tanytarsus sp.	6.6	FC	midge	20	2	40	22	10.2%
Tribelos jacundum	5.7		midge	8	2	16	9	4.1%
Total Specimens				197		394		100.0%
Community Density (no./sq. meter)							**221**	

Metrics [2]

Total Taxa Richness	**18**
Percent EPT Specimens	**20.3%**
Hilsenhoff Biotic Index (water quality rating: "fair")	**6.44**
Percent Filtering Collectors (FC)	**12.7%**

(1) *North Carolina Dept. of Env. Quality (NC DEQ). 2016. Standard Operating Procedures for the Collection and Analysis of Benthic Macroinvertebrates. NC DEQ, Division of Water Resources, Raleigh, NC.*

(2) *Flotmemersch, J. E., J. B. Stribling, and M. J. Paul. 2006. Concepts and Approaches for the Bioassessment of Non-wadeable Streams and Rivers. EPA 600-R-06-127. US Environmental Protection Agency, Cincinnati, OH.*

Benthic Macroinvertebrates collected by Montrose Envronmental from the Macon, Georgia Superfund Site (AWI Macon OU2)

Sample ID:	**20307 - SU - 7B - BCA**
Collection Date:	November 2, 2020
Gear Type:	Hester-Dendy Colonization Samplers (composite of 20 per station: Area = 1.78 sq. m.)

Taxon	Tol. [1]	Filterer (FC)	Common Name	Subsample Count	Mult. Factor	Sample Estimate	Density (no./m^2)	Pct. Abund.
Gastropoda								
Amnicola sp	4.1		dusky snail	1	4	4	2	0.5%
Ephemeroptera								
Baetis intercalaris	5.0		mayfly	2	4	8	4	1.0%
Baetis sp.	6.0		mayfly	3	4	12	7	1.5%
Eurylophella sp.	4.0		mayfly	1	4	4	2	0.5%
Maccaffertium sp.	3.1		mayfly	151	4	604	339	**77.8%**
Stenacron interpunctatum gr.	6.4		mayfly	2	4	8	4	1.0%
Odonata								
Argia sp.	8.3		damselfly	3	4	12	7	1.5%
Plecoptera								
Agnetina sp.	1.1		stonefly	1	4	4	2	0.5%
Trichoptera								
Cheumatopsyche sp.	6.6	FC	caddisfly	5	4	20	11	2.6%
Diptera (Chironomidae)								
Corynoneura sp.	5.7		midge	1	4	4	2	0.5%
Microtendipes pedellus gr.	3.9		midge	3	4	12	7	1.5%
Polypedilum fallax gr.	6.5		midge	14	4	56	31	7.2%
Stempellinella sp.	5.6		midge	1	4	4	2	0.5%
Tanytarsus sp.	6.6	FC	midge	3	4	12	7	1.5%
Tribelos atrum	6.4		midge	3	4	12	7	1.5%
Total Specimens				194		776		100.0%
Community Density (no./sq. meter)							**436**	

Metrics [2]

Total Taxa Richness	**15**
Percent EPT Specimens	**85.1%**
Hilsenhoff Biotic Index (water quality rating: "very good")	**3.76**
Percent Filtering Collectors (FC)	**4.1%**

(1) *North Carolina Dept. of Env. Quality (NC DEQ). 2016. Standard Operating Procedures for the Collection and Analysis of Benthic Macroinvertebrates. NC DEQ, Division of Water Resources, Raleigh, NC.*

(2) *Flotmemersch, J. E., J. B. Stribling, and M. J. Paul. 2006. Concepts and Approaches for the Bioassessment of Non-wadeable Streams and Rivers. EPA 600-R-06-127. US Environmental Protection Agency, Cincinnati, OH.*

Benthic Macroinvertebrates collected by Montrose Envronmental from the Macon, Georgia Superfund Site (AWI Macon OU2)

Sample ID:	**20307 - SU - 7D - BCA**
Collection Date:	November 3, 2020
Gear Type:	Hester-Dendy Colonization Samplers (composite of 20 per station: Area = 1.78 sq. m.)

Taxon	Tol. [1]	Filterer (FC)	Common Name	Subsample Count	Mult. Factor	Sample Estimate	Density (no./m^2)	Pct. Abund.
Gastropoda								
Amnicola sp	4.1		dusky snail	2	3	6	3	1.0%
Physella sp.	8.7		pouch snail	1	3	3	2	0.5%
Amphipoda								
Hyalella azteca gr.	7.2		side swimmer	3	3	9	5	1.5%
Decapoda								
Orconectes sp.	2.7		crayfish	1	3	3	2	0.5%
Isopoda								
Caecidotea sp.	8.4		water slater	3	3	9	5	1.5%
Lirceus sp.	7.4		water slater	2	3	6	3	1.0%
Ephemeroptera								
Baetis sp.	6.0		mayfly	2	3	6	3	1.0%
Isonychia sp.	3.6	FC	mayfly	1	3	3	2	0.5%
Maccaffertium sp.	3.1		mayfly	132	3	396	222	**66.0%**
Stenacron interpunctatum gr.	6.4		mayfly	5	3	15	8	2.5%
Odonata								
Argia sp.	8.3		damselfly	2	3	6	3	1.0%
Plecoptera								
Agnetina sp.	1.1		stonefly	3	3	9	5	1.5%
Trichoptera								
Cheumatopsyche sp.	6.6	FC	caddisfly	1	3	3	2	0.5%
Diptera (Chironomidae)								
Ablabesmyia mallochi	7.4		midge	7	3	21	12	3.5%
Dicrotendipes simpsoni	9.8		midge	4	3	12	7	2.0%
Phaenopsectra punctipes gr.	7.1		midge	2	3	6	3	1.0%
Polypedilum fallax gr.	6.5		midge	5	3	15	8	2.5%
Tanytarsus sp.	6.6	FC	midge	4	3	12	7	2.0%
Tribelos atrum	6.4		midge	14	3	42	24	7.0%
Tribelos jacundum	5.7		midge	6	3	18	10	3.0%
Total Specimens				200		600		100.0%
Community Density (no./sq. meter)							**337**	

Metrics [2]

Total Taxa Richness	**20**
Percent EPT Specimens	**72.0%**
Hilsenhoff Biotic Index (water quality rating: "very good")	**4.26**
Percent Filtering Collectors (FC)	**3.0%**

(1) *North Carolina Dept. of Env. Quality (NC DEQ). 2016. Standard Operating Procedures for the Collection and Analysis of Benthic Macroinvertebrates. NC DEQ, Division of Water Resources, Raleigh, NC.*

(2) *Flotmemersch, J. E., J. B. Stribling, and M. J. Paul. 2006. Concepts and Approaches for the Bioassessment of Non-wadeable Streams and Rivers. EPA 600-R-06-127. US Environmental Protection Agency, Cincinnati, OH.*