

Progress Report

Aliceville, AL Derailment Response Alabama & Gulf Coast February 21, 2014

In accordance with the United States Environmental Protection Agency (USEPA) Removal Administrative Order (Order) issued to Alabama & Gulf Coast Railway, LLC., (AGR) on November 19, 2013, AGR provides the following information associated with the emergency response activities at the derailment site for the past reporting period. This process is provided to ensure compliance with section 20 of the Removal Administrative Order prescribing daily progress reports. The following operational and environmental response actions have occurred since 02/07/2014.

Section 1: Operations

Section 1.1: Fire Operations

Fire operations support ceased as of 12/06/2013.

Section 1.2: Transfer Operations

Transfer operations completed on November 21, 2013. Attachment A will no longer include transfer operations.

Section 1.3: Oil Recovery Operations

Skimming operations ceased as of 12/13/2013.

470 bags of oiled solids were removed, and 2400 feet of fencing was replaced during this reporting period. Daily and cumulative totals of crude oil skimmed and bags counted and collected from the slough and oil-related waste is included in Attachment A.

Section 1.4: Wrecking Operations

Primary wrecking operations were suspended on 11/21/2013.

Section 1.5: Scrapping

All tank cars have been scrapped as of 12/10/2013.

Section 1.6: Construction and Site Prep

No new construction activities were initiated during this reporting period.

Section 1.7: Tankcar Decontamination

All tank cars have been decontaminated as of 12/08/2013.

Section 2: Environmental

Section 2.1: Air Monitoring (Work Area)

Real-time air monitoring ceased on 12/13/2013.

Section 2.2: Air Monitoring (Community)

Community monitoring ceased on 12/04/2013.

Section 2.3: Air Monitoring (Worker Exposure)

Worker exposure monitoring ceased on 12/06/2013.

Section 2.4: Surface Water Sampling

The USEPA approved discontinuing post-rainfall sampling events on December 9, 2013. Paul Rogers of ADEM approved sampling events to move from a weekly frequency to once every two weeks. Samples will be analyzed for BTEX and PAH. The results for surface water samples will be reported in a summary table as Attachment D. As of last reporting, results have been received for samples collected February 6th and February 11th, and results are included with this report.

Section 2.5: Water Quality Monitoring

Water quality parameters (e.g., dissolved oxygen (DO), pH, temperature, and conductivity) are collected using an YSI Pro Plus meter concurrent with surface water sampling which are to occur weekly. Attachment D provides a summary report of water quality values collected.

Section 2.6: Natural Resources and Wetlands Assessment

There was no wildlife mortality observed during this reporting period. Wildlife mortality estimates associated with this incident is reported in Attachment A.

Section 2.7: Boom Maintenance and Monitoring

Boom deployed throughout the area of operations is being routinely inspected to document the efficacy of boom deployment and evaluate additional placement/redeployment of booms, as necessary. The boom was inspected during this reporting period and was performing as intended. In conjunction with the USEPA, the decision was made to remove the majority of hard boom (except in the area surrounding culverts).

Section 2.8: Contaminated Soil Removal and Sample Collection

All staged soil has been removed from the site and taken to a permitted landfill as of December 12, 2013. A total of 5080.5 tons has been removed.

Section 2.9: Offsite Waste Disposal Operations

Over the last two weeks 3 loads of impacted wash water and sludge were collected and removed from the frac tanks. Each contained approximately 2,800 gallons for a total of 8,400 gallons removed (1 load on Friday the 14th, 2 loads on Monday the 17th). Additionally 3 vacuum boxes of sludge were removed from the site (1 box on Wednesday the 19th, 2 on Thursday the 20th). Each box contained 4,000 gallons of sludge and fluids. At this time all of the frac tanks have been cleaned and there is no additional waste generated as a result of the initial response/remedial measures.

As additional environmental tasks are performed (e.g. waste classification, soil confirmation sampling, etc.) they will be summarized and provided in the same format as the environmental tasks above. As operational tasks are concluded, they will be removed from the daily summary. All data provided in the daily summary reports is considered preliminary and is to be utilized for informational purposes only.

All data collected during the response will be provided in the final report required by the Order due on March 3, 2014. All data provided in the final report will be reviewed by quality assurance, quality control personnel to ensure the validity of all data collected.

Sincerely,

Jason Davis, CTEH®
Environmental Scientist Project Manager
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jdavis@cteh.com



CENTER FOR TOXICOLOGY
AND ENVIRONMENTAL HEALTH, LLC

Attachment A

Recovery Estimates

Recovery Estimate and Wildlife Impact

**Aliceville, AL Derailment Response
Alabama & Gulf Coast
December 13, 2013 – February 21, 2014**

Table 1: Discharged Volume Estimate

| | Compromised crude oil car count | Est. Volume Discharged (gal) | |
|--------------|------------------------------------|-------------------------------|-----------------------|
| | | 25% discharge rate | 75% discharge rate |
| Empty | 10 | 325600 | 325600 |
| Load/Partial | 16 | 111000 | 333000 |
| Transferred | - | 203080 | 203080 |
| Total | 26 | 233520 | 455520 |

*All figures are considered preliminary and are subject to change

Table 2: Recovery from Environment

| Reported | Oiled solids recovered (yd ³) | Oiled solids loaded (bags) | Skimming ops recovered (gal) |
|------------|--|-------------------------------|---------------------------------|
| 11/10/2013 | 10 | - | - |
| 11/11/2013 | 10 | - | - |
| 11/12/2013 | 10 | - | - |
| 11/13/2013 | 22 | - | - |
| 11/14/2013 | 16 | - | 2184 |
| 11/15/2013 | 8 | 608 | 1400 |
| 11/16/2013 | 15 | 460 | 1400 |
| 11/17/2013 | 13 | 801 | 3000 |
| 11/18/2013 | 8 | 439 | 700 |
| 11/19/2013 | 18 | 2046 | 1200 |
| 11/20/2013 | 9 | 715 | 200 |
| 11/21/2013 | 6 | 298 | 400 |
| 11/22/2013 | 8 | 463 | 250 |
| 11/23/2013 | 20 | 583 | 0 |
| 11/24/2013 | 13 | 645 | 0 |
| 11/25/2013 | 10 | 890 | 0 |
| 11/26/2013 | 20 | 480 | 0 |
| 11/27/2013 | 7 | 660 | 0 |
| 11/28/2013 | 4 | 398 | 0 |

| | | | |
|--------------|--------------|--------------|--------------|
| 11/29/2013 | 6 | 330 | 0 |
| 11/30/2013 | 4 | 380 | 0 |
| 12/1/2013 | 6 | 384 | 0 |
| 12/2/2013 | 7 | 529 | 0 |
| 12/3/2013 | 7 | 489 | 0 |
| 12/4/2013 | 6 | 439 | 0 |
| 12/5/2013 | 4 | 322 | 0 |
| 12/7/2013 | 3.5 | 290 | 0 |
| 12/8/2013 | 5 | 325 | 0 |
| 12/9/2013 | 6 | 517 | 0 |
| 12/10/2013 | 2 | 200 | 0 |
| 12/11/2013 | 3 | 290 | 0 |
| 12/12/2013 | 4 | 414 | 0 |
| 12/13/2013 | 0 | 50 | 0 |
| 12/23/2013 | 0 | 75 | 0 |
| 1/9/2014 | 0 | 105 | 0 |
| 1/22/2014 | 0 | 154 | 0 |
| 1/23/2014 | 0 | 126 | 0 |
| 1/25/2014 | 0 | 123 | 0 |
| 2/3/2014 | 0 | 21 | 0 |
| 2/17/2014 | 0 | 125 | 0 |
| 2/18/2014 | 0 | 190 | 0 |
| 2/19/2014 | 0 | 75 | 0 |
| 2/20/2014 | 0 | 80 | 0 |
| Total | 290.5 | 15519 | 10734 |

*All figures are considered preliminary and are subject to change

| Table 3: Recovery from Tankcar Transfer | | | |
|--|---------------------------|--------------------------|--------------------------|
| Reported | Tankcar Identifier | Transferred (bbl) | Transferred (gal) |
| 11/14/2013 | N-5 | 595 | 25000 |
| 11/15/2013 | 208516 | 600 | 25200 |
| 11/15/2013 | 208926 | 610 | 25620 |
| 11/16/2013 | N-4 | 180 | 7560 |
| 11/16/2013 | N-2 | 150 | 6300 |
| 11/17/2013 | N-1 | 180 | 7560 |
| 11/17/2013 | 207353 | 220 | 9240 |
| 11/18/2013 | SW1 | 45 | 1890 |

| | | | |
|--------------|--------|-------------|---------------|
| 11/18/2013 | 209108 | 190 | 7980 |
| 11/18/2013 | S3 | 85 | 3570 |
| 11/18/2013 | S2 | 120 | 5040 |
| 11/19/2013 | S2 | 220 | 9240 |
| 11/19/2013 | S1 | 280 | 11760 |
| 11/19/2013 | X | 330 | 13860 |
| 11/20/2013 | X | 5 | 210 |
| 11/20/2013 | S1 | 195 | 8190 |
| 11/20/2013 | S5 | 90 | 3780 |
| 11/20/2013 | S6 | 60 | 2520 |
| 11/20/2013 | 208858 | 110 | 4620 |
| 11/21/2013 | 208858 | 570 | 23940 |
| Total | | 4835 | 203080 |

*All figures are considered preliminary and are subject to change

Transfer operations concluded on 11/21/2013.

| Table 4: Fish and Wildlife Impact | | | |
|--|--------------|---------------------|--------------|
| Fish | | Wildlife | |
| Species | Count | Species | Count |
| Spotted Gar | 92 | Snapping Turtle | 3 |
| Sunfish SPP (2-3 species) | 247 | Mud Turtle | 2 |
| Largemouth Bass | 8 | Three Toed Amphiuma | 1 |
| Pretty Shiner | 83 | Beaver | 1 |
| Lake Chubsucker | 9 | Muskrat | 1 |
| White Crappie | 1 | Total | 8 |
| Banded Pygmy Sunfish | 1 | | |
| Redfin Pike | 2 | | |
| Bowfin | 12 | | |
| Total | 455 | | |

*All figures are considered preliminary and are subject to change

Fish count comes from 44 bags from the east side of the rail and 25 bags from the west side of the rail.



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Attachment D

Surface Water Monitoring and Sampling Results

Aliceville Derailment Water Sampling Locations



Project: 105723
Client: Alabama Gulf Coast Railway
City: Aliceville, AL
County: Pickens



Legend



Incident Site



Proposed Water Sample

—+— Rail Line

0 500 1,000 2,000
Feet

Table1: BTEX Results Surface Water

| Location | Sample Number | Result_Units | Analyte / Analytical Method | | | |
|----------|-----------------|--------------|-----------------------------|-------------------------|--------------------|---------------------------|
| | | | Benzene SW8260B | Ethylbenzene SW8260B | Toluene SW8260B | Xylenes, Total SW8260B |
| SW-01 | AVAL1109SW002 | mg/L | 1.1 | 0.051 | 0.68 | 0.34 |
| | SW01-111113-01 | mg/L | 0.41 | 0.021 | 0.26 | 0.15 |
| | SW01-111213-05 | mg/L | 0.43 | 0.02 | 0.27 | 0.14 |
| | SW01-111313-11 | mg/L | 0.14 | 0.0059 | 0.08 | 0.043 |
| | SW01-111413-16 | mg/L | 0.086 | 0.0039 | 0.046 | 0.033 |
| | SW01-111513-22 | mg/L | 0.095 | 0.0056 | 0.061 | 0.044 |
| | SW01-111613-27 | mg/L | 0.039 | 0.021 | 0.089 | 0.13 |
| | SW01-111713-32 | mg/L | 0.048 | 0.003 | 0.033 | 0.03 |
| | SW01-111813-36 | mg/L | 0.1 | 0.016 | 0.1 | 0.1 |
| | SW01-112513-42 | mg/L | 0.0061 | 0.0016 | 0.0078 | 0.022 |
| | SW01-112613-46 | mg/L | 0.018 | 0.005 | 0.029 | 0.039 |
| | SW01-120213-52 | mg/L | 0.0044 | 0.0064 | 0.021 | 0.031 |
| | SW01-120913-57 | mg/L | 0.0071 | 0.0031 | 0.014 | 0.018 |
| | SW01-121613-63 | mg/L | (J) 0.00086 | (U) 0.0005 | (J) 0.00073 | (U) 0.0016 |
| | SW01-122313-68 | mg/L | (U) 0.00034 | (U) 0.0005 | (J) 0.00073 | (U) 0.0016 |
| | SW01-123013-74 | mg/L | (J) 0.00046 | (U) 0.0005 | (U) 0.0007 | (U) 0.0016 |
| | SW01-011314-85 | mg/L | (U) 0.00034 | (U) 0.0005 | (U) 0.0007 | (U) 0.0016 |
| | SW01-012014-90 | mg/L | (U) 0.00034 | (U) 0.0005 | (U) 0.0007 | (U) 0.0016 |
| | SW01-012714-96 | mg/L | 0.0016 | (J) 0.00083 | 0.0018 | (J) 0.0034 |
| | SW01-020614-101 | mg/L | (U) 0.00034 | (U) 0.0005 | (U) 0.0007 | (U) 0.0016 |
| | SW01-021114-107 | mg/L | (J) 0.00036 | (U) 0.0005 | (U) 0.0007 | (U) 0.0016 |
| SW-02 | SW02-111113-02 | mg/L | (U) 0.00034 | (U) 0.0005 | 0.0018 | (U) 0.0016 |
| | SW02-111213-06 | mg/L | (U) 0.00034 | (U) 0.0005 | 0.0027 | (U) 0.0016 |
| | SW02-111313-12 | mg/L | (U) 0.00034 | (U) 0.0005 | 0.0033 | (U) 0.0016 |
| | SW02-111413-17 | mg/L | (U) 0.00034 | (U) 0.0005 | 0.0031 | (U) 0.0016 |
| | SW02-111513-23 | mg/L | (U) 0.00034 | (U) 0.0005 | 0.0045 | (U) 0.0016 |
| | SW02-111613-28 | mg/L | (U) 0.00034 | (U) 0.0005 | 0.0032 | (U) 0.0016 |
| | SW02-111713-33 | mg/L | (U) 0.00034 | (U) 0.0005 | 0.0026 | (U) 0.0016 |
| | SW02-111813-37 | mg/L | (U) 0.00034 | (U) 0.0005 | 0.0037 | (U) 0.0016 |
| | SW02-112513-43 | mg/L | (U) 0.00034 | (U) 0.0005 | 0.014 | (U) 0.0016 |
| | SW02-112613-47 | mg/L | (U) 0.00034 | (U) 0.0005 | 0.0024 | (U) 0.0016 |
| | SW02-120213-53 | mg/L | (U) 0.00034 | 0.0011 | (U) 0.0007 | (J) 0.0031 |
| | SW02-120913-58 | mg/L | 0.0063 | 0.0027 | 0.011 | 0.016 |
| | SW02-121613-64 | mg/L | (U) 0.00034 | (U) 0.0005 | (U) 0.0007 | (U) 0.0016 |
| | SW02-122313-69 | mg/L | (U) 0.00034 | (U) 0.0005 | (U) 0.0007 | (U) 0.0016 |
| | SW02-123013-75 | mg/L | (U) 0.00034 | (U) 0.0005 | (U) 0.0007 | (U) 0.0016 |
| | SW02-011314-86 | mg/L | (U) 0.00034 | (U) 0.0005 | (U) 0.0007 | (U) 0.0016 |
| | SW02-012014-91 | mg/L | (U) 0.00034 | (U) 0.0005 | (U) 0.0007 | (U) 0.0016 |
| | SW02-012714-97 | mg/L | 0.001 | (J) 0.00052 | (J) 0.00081 | (J) 0.0024 |
| | SW02-020614-102 | mg/L | (U) 0.00034 | (U) 0.0005 | (U) 0.0007 | (U) 0.0016 |
| | SW02-021114-108 | mg/L | (U) 0.00034 | (U) 0.0005 | (U) 0.0007 | (U) 0.0016 |
| SW-03 | AVAL1109SW001 | mg/L | (U) 0.00034 | (U) 0.0005 | (U) 0.0007 | (U) 0.0016 |

Results highlighted orange indicate a compound was detected in the sample at or above the MDL.

Table1: BTEX Results Surface Water

| Location | Sample Number | Result_Units | Analyte / Analytical Method | | | |
|----------|-----------------|--------------|-----------------------------|-------------------------|--------------------|---------------------------|
| | | | Benzene SW8260B | Ethylbenzene SW8260B | Toluene SW8260B | Xylenes, Total SW8260B |
| SW-03 | SW03-111113-03 | mg/L | (U) 0.00034 | (U) 0.0005 | (U) 0.0007 | (U) 0.0016 |
| | DUP-111213-09 | mg/L | (U) 0.00034 | (U) 0.0005 | (U) 0.0007 | (U) 0.0016 |
| | SW03-111213-07 | mg/L | (U) 0.00034 | (U) 0.0005 | (U) 0.0007 | (U) 0.0016 |
| | SW03-111313-13 | mg/L | (U) 0.00034 | (U) 0.0005 | (U) 0.0007 | (U) 0.0016 |
| | SW03-111413-18 | mg/L | (U) 0.00034 | (U) 0.0005 | (U) 0.0007 | (U) 0.0016 |
| | SW03-111513-24 | mg/L | (U) 0.00034 | (U) 0.0005 | (U) 0.0007 | (U) 0.0016 |
| | SW03-111613-29 | mg/L | (U) 0.00034 | (U) 0.0005 | (U) 0.0007 | (U) 0.0016 |
| | SW03-111713-34 | mg/L | (U) 0.00034 | (U) 0.0005 | (U) 0.0007 | (U) 0.0016 |
| | DUP-111813-40 | mg/L | (U) 0.00034 | (U) 0.0005 | (U) 0.0007 | (U) 0.0016 |
| | SW03-111813-38 | mg/L | (U) 0.00034 | (U) 0.0005 | (U) 0.0007 | (U) 0.0016 |
| | SW03-112513-44 | mg/L | (U) 0.00034 | (U) 0.0005 | (U) 0.0007 | (U) 0.0016 |
| | DUP-112613-50 | mg/L | (U) 0.00034 | (U) 0.0005 | (J) 0.00071 | (U) 0.0016 |
| | SW03-112613-48 | mg/L | (U) 0.00034 | (U) 0.0005 | (U) 0.0007 | (U) 0.0016 |
| | SW03-120213-54 | mg/L | (J) 0.00059 | (U) 0.0005 | 0.0014 | (U) 0.0016 |
| | SW03-120913-59 | mg/L | (J) 0.00055 | (U) 0.0005 | (J) 0.00077 | (J) 0.0017 |
| | SW03-121613-65 | mg/L | (U) 0.00034 | (U) 0.0005 | (U) 0.0007 | (U) 0.0016 |
| | SW03-122313-70 | mg/L | (U) 0.00034 | (U) 0.0005 | (U) 0.0007 | (U) 0.0016 |
| | SW03-123013-76 | mg/L | (U) 0.00034 | (U) 0.0005 | 0.0012 | (U) 0.0016 |
| | SW03-011314-87 | mg/L | (U) 0.00034 | (U) 0.0005 | (U) 0.0007 | (U) 0.0016 |
| | SW03-012014-92 | mg/L | (U) 0.00034 | (U) 0.0005 | (U) 0.0007 | (U) 0.0016 |
| | SW03-012714-98 | mg/L | (U) 0.00034 | (U) 0.0005 | (U) 0.0007 | (U) 0.0016 |
| | SW03-020614-103 | mg/L | (U) 0.00034 | (U) 0.0005 | (U) 0.0007 | (U) 0.0016 |
| | SW03-021114-109 | mg/L | (U) 0.00034 | (U) 0.0005 | (U) 0.0007 | (U) 0.0016 |
| SW-04 | AVAL1110SW003 | mg/L | (U) 0.00034 | (U) 0.0005 | (U) 0.0007 | (U) 0.0016 |
| | SW04-111113-04 | mg/L | (U) 0.00034 | (U) 0.0005 | (U) 0.0007 | (U) 0.0016 |
| | SW04-111213-08 | mg/L | (U) 0.00034 | (U) 0.0005 | (U) 0.0007 | (U) 0.0016 |
| | SW04-111313-14 | mg/L | (U) 0.00034 | (U) 0.0005 | (U) 0.0007 | (U) 0.0016 |
| | DUP-111413-20 | mg/L | (U) 0.00034 | (U) 0.0005 | (U) 0.0007 | (U) 0.0016 |
| | SW04-111413-19 | mg/L | (U) 0.00034 | (U) 0.0005 | (U) 0.0007 | (U) 0.0016 |
| | SW04-111513-25 | mg/L | (U) 0.00034 | (U) 0.0005 | (U) 0.0007 | (U) 0.0016 |
| | SW04-111613-30 | mg/L | (U) 0.00034 | (U) 0.0005 | (U) 0.0007 | (U) 0.0016 |
| | SW04-111713-35 | mg/L | (U) 0.00034 | (U) 0.0005 | (U) 0.0007 | (U) 0.0016 |
| | SW04-111813-39 | mg/L | (U) 0.00034 | (U) 0.0005 | (U) 0.0007 | (U) 0.0016 |
| | SW04-112513-45 | mg/L | (U) 0.00034 | (U) 0.0005 | (U) 0.0007 | (U) 0.0016 |
| | SW04-112613-49 | mg/L | (U) 0.00034 | (U) 0.0005 | (U) 0.0007 | (U) 0.0016 |
| | SW04-120213-55 | mg/L | (U) 0.00034 | (U) 0.0005 | (U) 0.0007 | (U) 0.0016 |
| | DUP-120913-61 | mg/L | (J) 0.00046 | (U) 0.0005 | (U) 0.0007 | (U) 0.0016 |
| | SW04-120913-60 | mg/L | (U) 0.00034 | (U) 0.0005 | (U) 0.0007 | (U) 0.0016 |
| | SW04-121613-66 | mg/L | (U) 0.00034 | (U) 0.0005 | (U) 0.0007 | (U) 0.0016 |
| | DUP-122313-72 | mg/L | (U) 0.00034 | (U) 0.0005 | (U) 0.0007 | (U) 0.0016 |
| | SW04-122313-71 | mg/L | (U) 0.00034 | (U) 0.0005 | (U) 0.0007 | (U) 0.0016 |
| | DUP-123013-78 | mg/L | (U) 0.00034 | (U) 0.0005 | 0.001 | (U) 0.0016 |

Results highlighted orange indicate a compound was detected in the sample at or above the MDL.

Table1: BTEX Results Surface Water

| Location | Sample Number | Result_Units | Analyte / Analytical Method | | | |
|----------|-----------------|--------------|-----------------------------|-------------------------|--------------------|---------------------------|
| | | | Benzene SW8260B | Ethylbenzene SW8260B | Toluene SW8260B | Xylenes, Total SW8260B |
| SW-04 | SW04-123013-77 | mg/L | (U) 0.00034 | (U) 0.0005 | (U) 0.0007 | (U) 0.0016 |
| | SW04-011314-88 | mg/L | (U) 0.00034 | (U) 0.0005 | (U) 0.0007 | (U) 0.0016 |
| | DUP-012014-94 | mg/L | (U) 0.00034 | (U) 0.0005 | (U) 0.0007 | (U) 0.0016 |
| | SW04-012014-93 | mg/L | (U) 0.00034 | (U) 0.0005 | (U) 0.0007 | (U) 0.0016 |
| | SW04-012714-99 | mg/L | (U) 0.00034 | (U) 0.0005 | (U) 0.0007 | (U) 0.0016 |
| | DUP-020614-105 | mg/L | (U) 0.00034 | (U) 0.0005 | (U) 0.0007 | (U) 0.0016 |
| | SW04-020614-104 | mg/L | (U) 0.00034 | (U) 0.0005 | (U) 0.0007 | (U) 0.0016 |
| | SW04-021114-110 | mg/L | (U) 0.00034 | (U) 0.0005 | (U) 0.0007 | (U) 0.0016 |

Results highlighted orange indicate a compound was detected in the sample at or above the MDL.

Table 2: PAH Results Surface Water

| | | | Analyte / Analytical Method | | | | | | | | | | | | | | | |
|----------|-----------------|--------------|-----------------------------|----------------|--------------|--------------------|----------------|----------------------|-------------------|----------------------|---------------|-----------------------|--------------|--------------|------------------------|--------------|--------------|--------------|
| | | | Acenaphthene | Acenaphthylene | Anthracene | Benzo[a]anthracene | Benzo[a]pyrene | Benzo[b]fluoranthene | Benzo[b]krypylene | Benzo[k]fluoranthene | Chrysene | Dibenz[a,h]anthracene | Fluoranthene | Fluorene | Indeno[1,2,3-cd]pyrene | Naphthalene | Phenanthrene | Pyrene |
| Location | Sample Number | Result_Units | SW8270C | SW8270C | SW8270C | SW8270C | SW8270C | SW8270C | SW8270C | SW8270C | SW8270C | SW8270C | SW8270C | SW8270C | SW8270C | SW8270C | SW8270C | SW8270C |
| SW-01 | AVAL-1109SW002 | mg/L | 0.00023 | 0.00088 | 0.00049 | 0.00074 | 0.0016 | 0.0006 | 0.0004 | 0.00027 | 0.001 | (J) 0.00019 | 0.0018 | 0.0011 | 0.00031 | 0.013 | 0.0054 | 0.0021 |
| | SW01-111113-01 | mg/L | (J) 0.00016 | 0.00035 | (U) 0.00021 | (J) 0.00011 | (J) 0.00017 | (J) 0.00018 | (J) 0.000094 | (J) 0.000079 | (J) 0.000085 | (J) 0.000057 | 0.00031 | 0.00029 | (J) 0.000094 | 0.0062 | 0.00072 | 0.00028 |
| | SW01-111213-05 | mg/L | 0.00033 | 0.00063 | 0.0005 | 0.00038 | 0.001 | 0.00041 | 0.00019 | (J) 0.00015 | 0.00066 | (U) 0.000038 | 0.0012 | 0.0011 | 0.00019 | 0.0094 | 0.0041 | 0.0012 |
| | SW01-111313-11 | mg/L | (J) 0.0001 | 0.00022 | 0.00025 | 0.00021 | 0.00027 | 0.00024 | (J) 0.00014 | (J) 0.0001 | 0.00034 | (U) 0.00004 | 0.00055 | 0.00045 | (J) 0.0001 | 0.0025 | 0.0017 | 0.00062 |
| | SW01-111413-16 | mg/L | (J) 0.000093 | 0.00034 | 0.00031 | 0.00028 | 0.0011 | 0.00033 | (J) 0.00014 | (J) 0.00013 | 0.00063 | (U) 0.00004 | 0.00078 | 0.00083 | (J) 0.00012 | 0.0031 | 0.0035 | 0.001 |
| | SW01-111513-22 | mg/L | (J) 0.000078 | 0.0002 | 0.00024 | 0.00019 | (J) 0.00017 | 0.00032 | 0.00027 | (J) 0.00013 | 0.00031 | (U) 0.000063 | 0.00056 | 0.0004 | (J) 0.00013 | 0.0031 | 0.0014 | 0.00055 |
| | SW01-111613-27 | mg/L | (U) 0.00019 | (J) 0.00055 | (J) 0.0007 | (J) 0.00064 | (J) 0.00066 | (J) 0.00064 | (J) 0.0011 | (U) 0.00038 | (J) 0.00099 | (U) 0.00038 | (J) 0.0014 | (U) 0.0002 | (J) 0.00067 | (J) 0.0016 | 0.0048 | (J) 0.0014 |
| | SW01-111713-32 | mg/L | (J) 0.00041 | (J) 0.0019 | (J) 0.0013 | (J) 0.003 | (J) 0.0042 | (J) 0.0012 | (J) 0.0011 | (J) 0.0005 | (J) 0.0026 | (U) 0.00038 | (J) 0.0024 | (J) 0.0038 | (J) 0.00092 | (J) 0.0085 | (J) 0.014 | (J) 0.0035 |
| | SW01-111813-36 | mg/L | (U) 0.00019 | (U) 0.00019 | (U) 0.00019 | (U) 0.00038 | (U) 0.00038 | (U) 0.00038 | 0.003 | (U) 0.00038 | (U) 0.00038 | (U) 0.00038 | (U) 0.00019 | (U) 0.0002 | (U) 0.00038 | 0.0054 | 0.0021 | (U) 0.00019 |
| | SW01-112613-46 | mg/L | 0.00062 | 0.00019 | 0.00021 | (J) 0.000054 | (U) 0.000038 | (J) 0.000039 | (U) 0.000038 | (U) 0.000038 | (J) 0.00004 | (J) 0.000054 | 0.00045 | 0.00063 | (J) 0.00005 | 0.0026 | 0.001 | 0.00031 |
| | SW01-120213-52 | mg/L | 0.00029 | (J) 0.000079 | (J) 0.00008 | (U) 0.000038 | (J) 0.000057 | (J) 0.00014 | (J) 0.000071 | (J) 0.000052 | (U) 0.000038 | (U) 0.000038 | 0.0004 | (U) 0.00002 | (J) 0.000074 | 0.00041 | 0.00073 | 0.0003 |
| | SW01-120913-57 | mg/L | 0.00086 | (J) 0.00017 | 0.0003 | (J) 0.00009 | (U) 0.000038 | (J) 0.000065 | (U) 0.000038 | (U) 0.000038 | (J) 0.000099 | (U) 0.000038 | 0.00088 | 0.00082 | (U) 0.000038 | 0.0018 | 0.0015 | 0.00058 |
| | SW01-121613-63 | mg/L | (J) 0.00012 | (U) 0.000019 | (U) 0.000019 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (J) 0.00014 | (J) 0.0001 | (U) 0.000038 | 0.00025 | (J) 0.00016 | (J) 0.000095 |
| | SW01-122313-68 | mg/L | (U) 0.000019 | (U) 0.000019 | (U) 0.000019 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (J) 0.00011 | (U) 0.00002 | (U) 0.000038 | (U) 0.000019 | (U) 0.000019 | (U) 0.000019 |
| | SW01-123013-74 | mg/L | (U) 0.000019 | (U) 0.000019 | (U) 0.000019 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000019 | (U) 0.00002 | (U) 0.000038 | (J) 0.00009 | (U) 0.000019 | (U) 0.000019 |
| | SW01-011314-85 | mg/L | (J) 0.000032 | (U) 0.000019 | (J) 0.000022 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (J) 0.000071 | (J) 0.000034 | (U) 0.000038 | (J) 0.000044 | (J) 0.000064 | (J) 0.000051 |
| | SW01-012014-90 | mg/L | (J) 0.000059 | (U) 0.000021 | (J) 0.000099 | (J B) 0.0001 | (J) 0.00015 | (J) 0.00017 | (J B) 0.00017 | (J B) 0.00014 | (J B) 0.00017 | (U) 0.00005 | 0.00024 | (U) 0.000016 | (J B) 0.00018 | (J) 0.000035 | 0.00026 | (U) 0.00003 |
| | SW01-012714-96 | mg/L | 0.00022 | (J) 0.00011 | (J) 0.00012 | 0.00051 | 0.00025 | 0.0004 | (J) 0.00018 | 0.0002 | 0.00022 | (U) 0.00005 | 0.00092 | 0.00021 | 0.0002 | (J) 0.00019 | 0.00032 | 0.0006 |
| | SW01-020614-101 | mg/L | (J) 0.000035 | (U) 0.000021 | (J) 0.000093 | 0.00023 | 0.00023 | 0.00035 | (J) 0.00014 | (J) 0.00015 | (U) 0.000026 | (J) 0.00014 | 0.00046 | (U) 0.000016 | (J) 0.00016 | (U) 0.000023 | 0.00029 | (U) 0.000029 |
| | SW01-021114-107 | mg/L | (J) 0.00007 | (U) 0.000021 | (J) 0.000068 | (U) 0.000037 | (U) 0.000036 | (U) 0.000034 | (J B) 0.00014 | (U) 0.000058 | (U) 0.000026 | (U) 0.00005 | (J) 0.00017 | (J) 0.000086 | (U) 0.000043 | (U) 0.000023 | (J) 0.00013 | (J) 0.00012 |
| SW-02 | SW02-111113-02 | mg/L | (U) 0.000022 | (U) 0.000022 | (U) 0.000022 | (U) 0.000044 | (U) 0.000044 | (U) 0.000044 | (U) 0.000044 | (U) 0.000044 | (U) 0.000044 | (U) 0.000044 | (U) 0.000022 | (U) 0.000023 | (U) 0.000044 | (U) 0.000022 | (U) 0.000022 | (U) 0.000022 |
| | SW02-111213-06 | mg/L | (U) 0.000019 | (U) 0.000019 | (J) 0.000051 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (J) 0.00019 | (U) 0.00002 | (U) 0.000038 | (U) 0.000019 | (J) 0.00012 | (U) 0.000019 |
| | SW02-111313-12 | mg/L | (U) 0.000019 | (U) 0.000019 | (J) 0.000058 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (J) 0.0001 | (U) 0.00002 | (U) 0.000038 | (U) 0.000019 | (J) 0.00014 | (U) 0.000019 |
| | SW02-111413-17 | mg/L | (U) 0.00002 | (U) 0.00002 | (J) 0.000091 | (U) 0.00004 | (U) 0.00004 | (U) 0.00004 | (J) 0.00011 | (U) 0.00004 | (U) 0.00004 | (U) 0.00004 | (J) 0.000049 | (U) 0.000021 | (U) 0.00004 | (U) 0.00002 | (J) 0.00013 | (J) 0.00003 |
| | SW02-111513-23 | mg/L | (U) 0.000019 | (U) 0.000019 | (J) 0.00006 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (J) 0.000062 | (U) 0.00002 | (U) 0.000038 | (U) 0.000019 | (J) 0.00014 | (J) 0.00004 |
| | SW02-111613-28 | mg/L | (U) 0.000019 | (U) 0.000019 | (J) 0.00008 | (U) 0.000019 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000019 | (U) 0.000038 | (J) 0.000063 | (U) 0.00002 | (U) 0.000038 | (U) 0.000019 | (J) 0.0001 | (U) 0.000095 |
| | SW02-111713-33 | mg/L | (U) 0.000019 | 0.00026 | (U) 0.000019 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000019 | (U) 0.00002 | (U) 0.000038 | (U) 0.000019 | (J) 0.00015 | (U) 0.000019 |
| | SW02-111813-37 | mg/L | (U) 0.000019 | (U) 0.000019 | (U) 0.000019 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000019 | (U) 0.00002 | (U) 0.000038 | (U) 0.000019 | (U) 0.000019 | (U) 0.000019 |
| | SW02-112513-43 | mg/L | (U) 0.000019 | (U) 0.000019 | (U) 0.000019 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000019 | (U) 0.00002 | (U) 0.000038 | (J) 0.000079 | (U) 0.000019 | (U) 0.000019 |
| | SW02-112613-47 | mg/L | (U) 0.000019 | (U) 0.000019 | (U) 0.000019 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000019 | (U) 0.00002 | (U) 0.000038 | (U) 0.000019 | (J) 0.000079 | (U) 0.000019 |
| | SW02-120213-53 | mg/L | 0.00027 | (J) 0.000063 | (J) 0.000042 | (J) 0.00005 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (J) 0.000057 | 0.00024 | (J) 0.00017 | (U) 0.000038 | 0.00025 | 0.00027 | 0.00037 |
| | SW02-120913-58 | mg/L | 0.00041 | (J) 0.000091 | (J) 0.00012 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | 0.00041 | 0.00037 | (U) 0.000038 | 0.00083 | 0.00063 | 0.00028 |
| | SW02-121613-64 | mg/L | (J) 0.000097 | (U) 0.000019 | (U) 0.000019 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (J) 0.00016 | (J) 0.000062 | (U) 0.000038 | (J) 0.000071 | (J) 0.00007 | (J) 0.00012 |
| | SW02-122313-69 | mg/L | (U) 0.000019 | (U) 0.000019 | (U) 0.000019 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (J) 0.000059 | (U) 0.00002 | (U) 0.000038 | (U) 0.000019 | (U) 0.000019 | (J) 0.000052 |
| | SW02-123013-75 | mg/L | (U) 0.000019 | (U) 0.000019 | (U) 0.000019 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000019 | (U) 0.00002 | (U) 0.000038 | (U) 0.000019 | (U) 0.000019 | (U) 0.000019 |
| | SW02-011314-86 | mg/L | (U) 0.000019 | (U) 0.000019 | (U) 0.000019 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (J) 0.000034 | (U) 0.00002 | (U) 0.000038 | (U) 0.000019 | (U) 0.000019 | (J) 0.000025 |
| | SW02-012014-91 | mg/L | (U) 0.000021 | (J) 0.000079 | (J) 0.000055 | (U) | | | | | | | | | | | | |

Table 2: PAH Results Surface Water

| | | | Analyte / Analytical Method | | | | | | | | | | | | | | | |
|-----------------|-----------------|--------------|-----------------------------|----------------|--------------|--------------------|----------------------|----------------------|----------------|----------------------|--------------|-----------------------|----------------|--------------|------------------------|--------------|----------------|----------------|
| | | | Acenaphthene | Acenaphthylene | Anthracene | Benzo[a]anthracene | Benzo[b]fluoranthene | Benzo[k]fluoranthene | Benzo[e]pyrene | Benzo[a]fluoranthene | Chrysene | Dibenz[a,h]anthracene | Fluoranthene | Fluorene | Indeno[1,2,3-cd]pyrene | Naphthalene | Phenanthrene | Pyrene |
| Location | Sample Number | Result Units | SW8270C | SW8270C | SW8270C | SW8270C | SW8270C | SW8270C | SW8270C | SW8270C | SW8270C | SW8270C | SW8270C | SW8270C | SW8270C | SW8270C | SW8270C | SW8270C |
| SW-03 | SW03-112613-48 | mg/L | (U) 0.000019 | (U) 0.000019 | (U) 0.000019 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (J) 0.000078 | (U) 0.000038 | (U) 0.000038 | (J) 0.0001 | (U) 0.000019 | (U) 0.00002 | (J) 0.000091 | (U) 0.000019 | (U) 0.000019 | (U) 0.000019 |
| | SW03-120213-54 | mg/L | (J) 0.00013 | (U) 0.000019 | (U) 0.000019 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (J) 0.000085 | (J) 0.000053 | (U) 0.000038 | (J) 0.000067 | (J) 0.000093 | (J) 0.000065 |
| | SW03-120913-59 | mg/L | (J) 0.0001 | (U) 0.000019 | (U) 0.000019 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (J) 0.00014 | (J) 0.000074 | (U) 0.000038 | (J) 0.000098 | (J) 0.000099 | (J) 0.000096 |
| | SW03-121613-65 | mg/L | (J) 0.00011 | (U) 0.000019 | (U) 0.000019 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (J) 0.00014 | (J) 0.000064 | (U) 0.000038 | (U) 0.000019 | (J) 0.000061 | (J) 0.00011 |
| | SW03-122313-70 | mg/L | (U) 0.000019 | (U) 0.000019 | (U) 0.000019 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (J) 0.000047 | (U) 0.00002 | (U) 0.000038 | (U) 0.000019 | (U) 0.000019 | (J) 0.000039 |
| | SW03-123013-76 | mg/L | (U) 0.000019 | (U) 0.000019 | (U) 0.000019 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000019 | (U) 0.00002 | (U) 0.000038 | (U) 0.000019 | (U) 0.000019 |
| | SW03-011314-87 | mg/L | (U) 0.000019 | (U) 0.000019 | (U) 0.000019 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (J) 0.000032 | (U) 0.00002 | (U) 0.000038 | (U) 0.000019 | (U) 0.000019 | (J) 0.000025 |
| | SW03-012014-92 | mg/L | (U) 0.000021 | (U) 0.000021 | (U) 0.000032 | (U) 0.000037 | (U) 0.000036 | (J B) 0.00011 | (U) 0.000038 | (U) 0.000058 | (U) 0.000026 | (U) 0.00005 | (J B) 0.000087 | (U) 0.000016 | (U) 0.000043 | (U) 0.000023 | (U) 0.000033 | (J B) 0.000066 |
| | SW03-012714-98 | mg/L | (U) 0.000021 | (U) 0.000021 | (J) 0.000055 | (U) 0.000037 | (U) 0.000036 | (U) 0.000034 | (U) 0.000038 | (U) 0.000058 | (U) 0.000026 | (U) 0.00005 | (J) 0.00012 | (U) 0.000016 | (U) 0.000043 | (U) 0.000023 | (U) 0.000033 | (J) 0.000091 |
| | SW03-020614-103 | mg/L | (U) 0.000021 | (U) 0.000021 | (U) 0.000032 | (U) 0.000037 | (U) 0.000036 | (U) 0.000034 | (U) 0.000038 | (U) 0.000058 | (U) 0.000026 | (U) 0.00005 | (J) 0.000079 | (U) 0.000016 | (U) 0.000043 | (U) 0.000023 | (U) 0.000033 | (J) 0.000066 |
| SW03-021114-109 | mg/L | (U) 0.000021 | (U) 0.000021 | (U) 0.000032 | (U) 0.000037 | (U) 0.000036 | (U) 0.000034 | (U) 0.000038 | (U) 0.000058 | (U) 0.000026 | (U) 0.00005 | (J) 0.000084 | (U) 0.000016 | (U) 0.000043 | (U) 0.000023 | (U) 0.000033 | (J) 0.000075 | |
| SW-04 | AVAL-1110SW003 | mg/L | (U) 0.000021 | (U) 0.000021 | (U) 0.000021 | (U) 0.000042 | (U) 0.000042 | (U) 0.000042 | (U) 0.000042 | (U) 0.000042 | (U) 0.000042 | (U) 0.000042 | (U) 0.000021 | (U) 0.000022 | (U) 0.000042 | (U) 0.000021 | (U) 0.000021 | (U) 0.000021 |
| | SW04-111113-04 | mg/L | (U) 0.000022 | (U) 0.000022 | (U) 0.000022 | (U) 0.000043 | (U) 0.000043 | (U) 0.000043 | (U) 0.000043 | (U) 0.000043 | (U) 0.000043 | (U) 0.000043 | (U) 0.000022 | (U) 0.000023 | (U) 0.000043 | (U) 0.000022 | (U) 0.000022 | (U) 0.000022 |
| | SW04-111213-08 | mg/L | (U) 0.000019 | (U) 0.000019 | (U) 0.000019 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000019 | (U) 0.00002 | (U) 0.000038 | (U) 0.000019 | (U) 0.000019 | (U) 0.000019 |
| | SW04-111313-14 | mg/L | (U) 0.00002 | (U) 0.00002 | (U) 0.00002 | (U) 0.00004 | (U) 0.00004 | (U) 0.00004 | (U) 0.00004 | (U) 0.00004 | (U) 0.00004 | (U) 0.00004 | (U) 0.00002 | (U) 0.000021 | (U) 0.00004 | (U) 0.00002 | (U) 0.00002 | (U) 0.00002 |
| | DUP-111413-20 | mg/L | (U) 0.00002 | (U) 0.00002 | (U) 0.00002 | (U) 0.00004 | (U) 0.00004 | (U) 0.00004 | (U) 0.00004 | (U) 0.00004 | (U) 0.00004 | (U) 0.00004 | (U) 0.00002 | (U) 0.000021 | (U) 0.00004 | (U) 0.00002 | (U) 0.00002 | (U) 0.00002 |
| | SW04-111413-19 | mg/L | (U) 0.00002 | (U) 0.00002 | (U) 0.00002 | (U) 0.00004 | (U) 0.00004 | (U) 0.00004 | (U) 0.00004 | (U) 0.00004 | (U) 0.00004 | (U) 0.00004 | (U) 0.00002 | (U) 0.000021 | (U) 0.00004 | (U) 0.00002 | (U) 0.00002 | (U) 0.00002 |
| | SW04-111513-25 | mg/L | (U) 0.000019 | (U) 0.000019 | (U) 0.000019 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000019 | (U) 0.00002 | (U) 0.000038 | (U) 0.000019 | (U) 0.000019 | (U) 0.000019 |
| | SW04-111613-30 | mg/L | (U) 0.000019 | (U) 0.000019 | (U) 0.000019 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000019 | (U) 0.00002 | (U) 0.000038 | (U) 0.000019 | (U) 0.000019 | (U) 0.000019 |
| | SW04-111713-35 | mg/L | (U) 0.000019 | (U) 0.000019 | (U) 0.000019 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000019 | (U) 0.00002 | (U) 0.000038 | (U) 0.000019 | (U) 0.000019 | (U) 0.000019 |
| | SW04-111813-39 | mg/L | (U) 0.000019 | (U) 0.000019 | (U) 0.000019 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000019 | (U) 0.00002 | (U) 0.000038 | (U) 0.000019 | (U) 0.000019 | (U) 0.000019 |
| | SW04-112613-49 | mg/L | (U) 0.000019 | (U) 0.000019 | (U) 0.000019 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000019 | (U) 0.00002 | (U) 0.000038 | (U) 0.000019 | (U) 0.000019 | (U) 0.000019 |
| | SW04-120213-55 | mg/L | (U) 0.000019 | (U) 0.000019 | (U) 0.000019 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000019 | (U) 0.00002 | (U) 0.000038 | (U) 0.000019 | (U) 0.000019 | (U) 0.000019 |
| | DUP-120913-61 | mg/L | (J) 0.0001 | (U) 0.000019 | (U) 0.000019 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (J) 0.00015 | (J) 0.000069 | (U) 0.000038 | (J) 0.00012 | (J) 0.00011 | (J) 0.00011 |
| | SW04-120913-60 | mg/L | (U) 0.000019 | (U) 0.000019 | (U) 0.000019 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000019 | (U) 0.00002 | (U) 0.000038 | (U) 0.000019 | (U) 0.000019 | (U) 0.000019 |
| | SW04-121613-66 | mg/L | (U) 0.000019 | (U) 0.000019 | (U) 0.000019 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000019 | (U) 0.00002 | (U) 0.000038 | (U) 0.000019 | (U) 0.000019 | (U) 0.000019 |
| | DUP-122313-72 | mg/L | (U) 0.000019 | (U) 0.000019 | (U) 0.000019 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (J) 0.00006 | (U) 0.00002 | (U) 0.000038 | (U) 0.000019 | (U) 0.000019 | (J) 0.00005 |
| | SW04-122313-71 | mg/L | (U) 0.000019 | (U) 0.000019 | (U) 0.000019 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000019 | (U) 0.00002 | (U) 0.000038 | (U) 0.000019 | (U) 0.000019 | (U) 0.000019 |
| | DUP-123013-78 | mg/L | (U) 0.000019 | (U) 0.000019 | (U) 0.000019 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000019 | (U) 0.00002 | (U) 0.000038 | (U) 0.000019 | (U) 0.000019 | (U) 0.000019 |
| SW04-011314-88 | mg/L | (U) 0.000019 | (U) 0.000019 | (U) 0.000019 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (U) 0.000038 | (J) 0.000019 | (U) 0.00002 | (U) 0.000038 | (U) 0.000019 | (U) 0.000019 | (U) 0.000019 | |
| DUP-012014-94 | mg/L | (U) 0.000021 | (U) 0.000021 | (U) 0.000032 | (U) 0.000037 | (U) 0.000036 | (U) 0.000034 | (U) 0.000038 | (U) 0.000058 | (U) 0.000026 | (U) 0.00005 | (J B) 0.000082 | (J) 0.000035 | (U) 0.000043 | (U) 0.000023 | (U) 0.000033 | (J B) 0.000065 | |
| SW04-012014-93 | mg/L | (U) 0.000021 | (U) 0.000021 | (U) 0.000032 | (U) 0.000037 | (U) 0.000036 | (U) 0.000034 | (U) 0.000038 | (U) 0.000058 | (U) 0.000026 | (U) 0.00005 | (J B) 0.000079 | (U) 0.000016 | (U) 0.000043 | (U) 0.000023 | (U) 0.000033 | (U) 0.000029 | |
| SW04-012714-99 | mg/L | (U) 0.000021 | (U) 0.000021 | (U) 0.000032 | (U) 0.000037 | (J) 0.00014 | (U) 0.000034 | (J) 0.0001 | (U) 0.000058 | (U) 0.000026 | (U) 0.00005 | (J) 0.00012 | (U) 0.000016 | (U) 0.000043 | (U) 0.000023 | (J) 0.000037 | (J) 0.000098 | |
| DUP-020614-105 | mg/L | (U) 0.000021 | (U) 0.000021 | (U) 0.000032 | (U) 0.000037 | (U) 0.000036 | (U) 0.000034 | (U) 0.000038 | (U) 0.000058 | (U) 0.000026 | (U) 0.00005 | (U) 0.00005 | (U) 0.000016 | (U) 0.000043 | (U) 0.000023 | (U) 0.000033 | (U) 0.000029 | |
| SW04-020614-104 | mg/L | (U) 0.000021 | (U) 0.000021 | (U) 0.000032 | (U) 0.000037 | (U) 0.000036 | (U) 0.000034 | (U) 0.000038 | (U) 0.000058 | (U) 0.000026 | (U) 0.00005 | (U) 0.00005 | (U) 0.000016 | (U) 0.000043 | (U) 0.000023 | (U) 0.000033 | (U) 0.000029 | |
| SW04-021114-110 | mg/L | (U) 0.000021 | (U) 0.000021 | (U) 0.000032 | (U) 0.000037 | (U) 0.000036 | (U) 0.000034 | (U) 0.000038 | (U) 0.000058 | (U) 0.000026 | (U) 0.00005 | (U) 0.00005 | (U) 0.000016 | (U) 0.000043 | (U) 0.000023 | (U) 0.000033 | (U) 0.000029 | |

Results highlighted orange indicate a compound was detected in the sample at or above the MDL.

Table 3: YSI Water Quality Data

| Location | Date | Parameter / Units | | | |
|----------|------------|-------------------|------------|---------------------------|-------------------|
| | | DO mg/L | pH s.u. | Sp. Conductivity mS/cm | Temperature °C |
| SW01 | 12/23/2013 | 3.60 | 5.79 | | 11.91 |
| | 12/30/2013 | 7.46 | 4.61 | 80.00 | 8.40 |
| | 1/7/2014 | 11.73 | 5.28 | 54.20 | 3.10 |
| | 1/13/2014 | 7.10 | 5.50 | 77.00 | 9.20 |
| | 1/20/2014 | 9.60 | 7.72 | 77.50 | 10.50 |
| | 1/27/2014 | 9.14 | 6.64 | 53.80 | 11.90 |
| | 2/6/2014 | 6.59 | 7.10 | 94.00 | 5.50 |
| | 2/11/2014 | 8.80 | 6.95 | 42.40 | 5.70 |
| SW02 | 12/23/2013 | 3.75 | 5.79 | | 11.33 |
| | 12/30/2013 | 7.42 | 4.61 | 76.00 | 8.12 |
| | 1/7/2014 | 8.40 | 5.28 | 52.00 | 0.70 |
| | 1/13/2014 | 6.90 | 5.50 | 68.00 | 8.90 |
| | 1/20/2014 | 9.70 | 7.72 | 44.80 | 6.80 |
| | 1/27/2014 | 9.52 | 6.64 | 49.80 | 8.30 |
| | 2/6/2014 | 11.62 | 7.10 | 36.50 | 4.70 |
| | 2/11/2014 | 7.69 | 6.95 | 38.00 | 5.80 |
| SW03 | 12/23/2013 | 4.07 | 5.86 | | 12.80 |
| | 12/30/2013 | 6.61 | 4.32 | 81.00 | 8.12 |
| | 1/7/2014 | 10.22 | 5.03 | 52.20 | 1.40 |
| | 1/13/2014 | 8.10 | 6.30 | 61.00 | 8.50 |
| | 1/20/2014 | 8.74 | 6.18 | 46.90 | 6.70 |
| | 1/27/2014 | 9.43 | 6.31 | 47.80 | 8.70 |
| | 2/6/2014 | 12.20 | 6.83 | 34.40 | 4.70 |
| | 2/11/2014 | 9.12 | 6.61 | 38.70 | 5.50 |
| SW04 | 12/23/2013 | 8.72 | 6.07 | | 11.09 |
| | 12/30/2013 | 8.43 | 5.60 | 64.00 | 8.21 |
| | 1/7/2014 | 9.59 | 5.02 | 36.60 | 1.00 |
| | 1/13/2014 | 9.30 | 6.20 | 40.00 | 8.80 |
| | 1/20/2014 | 11.80 | 6.51 | 37.90 | 10.10 |
| | 1/27/2014 | 11.82 | 6.07 | 40.30 | 12.00 |
| | 2/6/2014 | 11.30 | 6.67 | 33.00 | 5.10 |
| | 2/11/2014 | 10.98 | 6.34 | 27.10 | 5.90 |

-Water quality parameters reported as received by EnviroScience, Inc.

-Values in orange notate result may be suspect due to equipment error / tannins sediment