UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0221
Project: 21-0221, Piney Point - Phase 2 - Reported by Floyd Wellborn

April 20, 2021

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 21-0221, Piney Point - Phase 2

FROM: Floyd Wellborn
LSB Inorganic Chemistry Section Chief

THRU: Sandra Aker, Chief
Laboratory Services Branch

TO: Floyd Wellborn

This data report is being reissued. Some or all of these results were previously reported. Please substitute the corrected results for those results previously reported. Please refer to the Report Narrative for more details.

Attached are the final results for the analytical groups listed below. This report shall not be reproduced except in full without approval of the Region 4 laboratory. These analyses were performed in accordance with the Laboratory Services Branch's Laboratory Operations and Quality Assurance Manual (LSB LOQAM) found at www.epa.gov/region4/sesd/asbsop. Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the LSB LOQAM specifications and have been qualified by this laboratory if the applicable quality control criteria were not met. Verification is defined in Chapter 5 of the LSB LOQAM. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:	Method Used:	Accreditations:
Total Metals (TMTL)		
Total Metals	EPA 200.7 (Water)	ISO
Total Metals	EPA 200.7 (Water)	ISO/DW
Total Metals	EPA 200.8 (Water)	ISO/DW

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Report Narrative for Work Order: E211615 Analysis: TMTL

4/20/21 FW Metals: These results are being re-reported to include a Q-2 qualifier that was inadvertently omitted on certain analyte results from method 200.8. The relevant results are positive detections above the method detection limit but below the minimum reporting limit. The value of the results are unchanged. No other results or qualifiers were changed. This report replaces the report E211612,E211615 TMTL FINAL 04 19 21 1703.

Sample Disposal Policy

Due to limited space for long term sample storage, LSB's policy is to dispose of samples on a periodic schedule. Air samples collected in summa canisters will be disposed of 30 days following the issuance of this report. All other sample media including original samples, sample extracts and or digestates will be disposed of, in accordance with applicable regulations, 60 days from the date of this report.

This sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time. If samples require storage beyond the 60-day period, please contact the Sample Control Coordinator by e-mail at R4SampleCustody@epa.gov.

cc: Nardina Turner

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SAMPLES INCLUDED IN THIS REPORT

Project: 21-0221, Piney Point - Phase 2

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
Piney 9	E211612-01	Saline Water	4/14/21 12:45	4/15/21 11:20
Piney 8	E211612-02	Saline Water	4/14/21 12:10	4/15/21 11:20
Piney 6	E211612-03	Saline Water	4/14/21 11:25	4/15/21 11:20
Piney 3	E211612-04	Saline Water	4/14/21 10:35	4/15/21 11:20
Piney 18	E211612-05	Saline Water	4/14/21 10:10	4/15/21 11:20
Piney 17	E211612-06	Saline Water	4/14/21 11:25	4/15/21 11:20
Piney 7	E211612-07	Saline Water	4/14/21 12:00	4/15/21 11:20
Piney 7	E211615-01	Water	4/16/21 10:30	4/17/21 10:47
Piney 3	E211615-02	Water	4/16/21 11:25	4/17/21 10:47
Piney 6	E211615-03	Water	4/16/21 12:00	4/17/21 10:47
Piney 8	E211615-04	Water	4/16/21 12:35	4/17/21 10:47
Piney 9	E211615-05	Water	4/16/21 13:20	4/17/21 10:47
Piney 20	E211615-06	Water	4/16/21 09:55	4/17/21 10:47
Piney 19	E211615-07	Water	4/16/21 10:25	4/17/21 10:47
Piney 17	E211615-08	Water	4/16/21 10:55	4/17/21 10:47
Piney 18	E211615-09	Water	4/16/21 12:20	4/17/21 10:47

DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
B-2	Reporting level elevated due to trace amounts of analyte present in the method blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
Q-2	Result greater than MDL but less than MRL.
QI-1	Internal standard was outside of method control limits.
QM-1	Matrix Spike Recovery less than method control limits
QM-2	Matrix Spike Recovery greater than method control limits
QM-3	Matrix Spike Precision outside method control limits
QR-1	MRL verification recovery less than lower control limits.

ACRONYMS AND ABBREVIATIONS

CAS Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.

MRL Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.

TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

ACCREDITATIONS:

ISO Accredited to ISO/IEC 17025:2017 and accreditation requirements for Forensic Science Testing Laboratories.

Refer to the certificate and scope of accreditation FT-0330 at:
http://www.epa.gov/aboutepa/about-region-4s-science-and-ecosystem-support-division-sesd

NR Not accredited for this test.

DW Accredited for conformance with ISO/IEC 17025:2017 and testing elements in the Fifth Edition of the Manual for the Certification of Laboratories Analyzing Drinking Water, EPA 815-R-05-004, 2005.

Refer to the certificate and scope of accreditation AT-2628 at:
http://www.epa.gov/aboutepa/about-region-4s-science-and-ecosystem-support-division-sesd

ISO/DW Accredited to ISO/IEC 17025:2017 and accreditation requirements for Forensic Science Testing Labs, and conformance with ISO/IEC 17025:2017 and testing elements in the Manual for the Certification of Laboratories Analyzing Drinking Water.

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D.A.R.T. Id: 21-0221
Project: 21-0221, Piney Point - Phase 2 - Reported by Floyd Wellborn

Total Metals

Project: 21-0221, Piney Point - Phase 2

Sample ID: Piney 9 **Lab ID:** E211612-01

Station ID: PINEY 9 **Matrix:** Saline Water

Date Collected: 4/14/21 12:45

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	46	J, B-2, Q-2	ug/L	14 / 52	4/17/21 12:52	4/18/21 13:52	EPA 200.8
7440-36-0	Antimony	2.0	U, J, QI-1	ug/L	0.48 / 2.0	4/17/21 12:52	4/18/21 13:52	EPA 200.8
7440-38-2	Arsenic	3.4	J, QI-1	ug/L	1.3 / 2.0	4/17/21 12:52	4/18/21 13:52	EPA 200.8
7440-41-7	Beryllium	1.0	U	ug/L	0.33 / 1.0	4/17/21 12:52	4/18/21 13:52	EPA 200.8
7440-42-8	Boron	3300		ug/L	120 / 1200	4/17/21 12:48	4/18/21 13:32	EPA 200.7
7440-43-9	Cadmium	1.0	U, J, QI-1	ug/L	0.37 / 1.0	4/17/21 12:52	4/18/21 13:52	EPA 200.8
7440-70-2	Calcium	310000		ug/L	2100 / 6200	4/17/21 12:48	4/18/21 13:32	EPA 200.7
7440-47-3	Chromium	4.0	U	ug/L	2.4 / 4.0	4/17/21 12:52	4/18/21 13:52	EPA 200.8
7440-48-4	Cobalt	2.0	U, J, QI-1	ug/L	0.65 / 2.0	4/17/21 12:52	4/18/21 13:52	EPA 200.8
7440-50-8	Copper	2.0	U, J, QI-1	ug/L	0.95 / 2.0	4/17/21 12:52	4/18/21 13:52	EPA 200.8
7439-89-6	Iron	2500	U	ug/L	970 / 2500	4/17/21 12:48	4/18/21 13:32	EPA 200.7
7439-92-1	Lead	5.0	U	ug/L	0.63 / 5.0	4/17/21 12:52	4/18/21 13:59	EPA 200.8
7439-95-4	Magnesium	960000		ug/L	1500 / 6200	4/17/21 12:48	4/18/21 13:32	EPA 200.7
7439-96-5	Manganese	120	U	ug/L	22 / 120	4/17/21 12:48	4/18/21 13:32	EPA 200.7
7439-98-7	Molybdenum	12		ug/L	2.2 / 5.0	4/17/21 12:52	4/18/21 13:59	EPA 200.8
7440-02-0	Nickel	2.0	U, J, QI-1	ug/L	1.3 / 2.0	4/17/21 12:52	4/18/21 13:52	EPA 200.8
7440-09-7	Potassium	280000		ug/L	2100 / 25000	4/17/21 12:48	4/18/21 13:32	EPA 200.7
7782-49-2	Selenium	8.5	J, QI-1	ug/L	3.2 / 4.0	4/17/21 12:52	4/18/21 13:52	EPA 200.8
7440-22-4	Silver	1.0	U, J, QI-1	ug/L	0.20 / 1.0	4/17/21 12:52	4/18/21 13:52	EPA 200.8
7440-23-5	Sodium	7800000		ug/L	2600 / 25000	4/17/21 12:48	4/18/21 13:32	EPA 200.7
7440-24-6	Strontium	5600		ug/L	41 / 120	4/17/21 12:48	4/18/21 13:32	EPA 200.7
7440-28-0	Thallium	2.0	U	ug/L	0.24 / 2.0	4/17/21 12:52	4/18/21 13:52	EPA 200.8
7440-31-5	Tin	380	U	ug/L	38 / 380	4/17/21 12:48	4/18/21 13:32	EPA 200.7
7440-32-6	Titanium	120	U	ug/L	15 / 120	4/17/21 12:48	4/18/21 13:32	EPA 200.7
7440-61-1	Uranium	3.3		ug/L	0.42 / 2.0	4/17/21 12:52	4/18/21 13:52	EPA 200.8
7440-62-2	Vanadium	120	U	ug/L	47 / 120	4/17/21 12:48	4/18/21 13:32	EPA 200.7
7440-66-6	Zinc	250	U	ug/L	26 / 250	4/17/21 12:48	4/18/21 13:32	EPA 200.7

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Total Metals

Project: 21-0221, Piney Point - Phase 2

Sample ID: Piney 8 **Lab ID:** E211612-02

Station ID: PINEY 8 **Matrix:** Saline Water

Date Collected: 4/14/21 12:10

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	81	J, Q-2	ug/L	70 / 200	4/15/21 14:04	4/17/21 13:11	EPA 200.8
7440-36-0	Antimony	2.0	U, J, QI-1	ug/L	0.48 / 2.0	4/15/21 14:04	4/16/21 20:57	EPA 200.8
7440-38-2	Arsenic	2.9	J, QI-1	ug/L	1.3 / 2.0	4/15/21 14:04	4/16/21 20:57	EPA 200.8
7440-41-7	Beryllium	1.0	U, J, QI-1	ug/L	0.33 / 1.0	4/15/21 14:04	4/16/21 20:57	EPA 200.8
7440-42-8	Boron	3400	J, QM-1	ug/L	120 / 1200	4/15/21 13:52	4/16/21 12:52	EPA 200.7
7440-43-9	Cadmium	1.0	U, J, QI-1	ug/L	0.37 / 1.0	4/15/21 14:04	4/16/21 20:57	EPA 200.8
7440-70-2	Calcium	310000		ug/L	2100 / 6200	4/15/21 13:52	4/16/21 12:52	EPA 200.7
7440-47-3	Chromium	4.0	U, J, QI-1	ug/L	2.4 / 4.0	4/15/21 14:04	4/16/21 20:57	EPA 200.8
7440-48-4	Cobalt	2.0	U, J, QI-1	ug/L	0.65 / 2.0	4/15/21 14:04	4/16/21 20:57	EPA 200.8
7440-50-8	Copper	1.7	J, Q-2, QI-1	ug/L	0.95 / 2.0	4/15/21 14:04	4/16/21 20:57	EPA 200.8
7439-89-6	Iron	2500	U	ug/L	970 / 2300	4/15/21 13:52	4/16/21 12:52	EPA 200.7
7439-92-1	Lead	0.39	J, Q-2, QI-1	ug/L	0.25 / 2.0	4/15/21 14:04	4/16/21 20:57	EPA 200.8
7439-95-4	Magnesium	950000		ug/L	1500 / 6200	4/15/21 13:52	4/16/21 12:52	EPA 200.7
7439-96-5	Manganese	120	U	ug/L	22 / 120	4/15/21 13:52	4/16/21 12:52	EPA 200.7
7439-98-7	Molybdenum	13		ug/L	4.4 / 10	4/15/21 14:04	4/17/21 13:11	EPA 200.8
7440-02-0	Nickel	2.0	U, J, QI-1	ug/L	1.3 / 2.0	4/15/21 14:04	4/16/21 20:57	EPA 200.8
7440-09-7	Potassium	290000		ug/L	2100 / 25000	4/15/21 13:52	4/16/21 12:52	EPA 200.7
7782-49-2	Selenium	7.6	J, QI-1	ug/L	3.2 / 4.0	4/15/21 14:04	4/16/21 20:57	EPA 200.8
7440-22-4	Silver	1.0	U, J, QI-1	ug/L	0.20 / 1.0	4/15/21 14:04	4/16/21 20:57	EPA 200.8
7440-23-5	Sodium	7700000		ug/L	2600 / 25000	4/15/21 13:52	4/16/21 12:52	EPA 200.7
7440-24-6	Strontium	5500		ug/L	41 / 120	4/15/21 13:52	4/16/21 12:52	EPA 200.7
7440-28-0	Thallium	2.0	U, J, QI-1	ug/L	0.24 / 2.0	4/15/21 14:04	4/16/21 20:57	EPA 200.8
7440-31-5	Tin	380	U	ug/L	38 / 380	4/15/21 13:52	4/16/21 12:52	EPA 200.7
7440-32-6	Titanium	120	U, J, QM-1	ug/L	15 / 120	4/15/21 13:52	4/16/21 12:52	EPA 200.7
7440-61-1	Uranium	3.4	J, Q-2	ug/L	2.1 / 10	4/15/21 14:04	4/17/21 13:11	EPA 200.8
7440-62-2	Vanadium	120	U, J, QM-1, QR-1	ug/L	47 / 120	4/15/21 13:52	4/16/21 12:52	EPA 200.7
7440-66-6	Zinc	250	U, J, QM-1	ug/L	26 / 250	4/15/21 13:52	4/16/21 12:52	EPA 200.7

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Project: 21-0221, Piney Point - Phase 2 - Reported by Floyd Wellborn

Total Metals

Project: 21-0221, Piney Point - Phase 2

Sample ID: Piney 6 **Lab ID:** E211612-03

Station ID: PINEY 6 **Matrix:** Saline Water

Date Collected: 4/14/21 11:25

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	39	J, Q-2, QI-1	ug/L	14 / 40	4/15/21 14:04	4/16/21 21:19	EPA 200.8
7440-36-0	Antimony	2.0	U, J, QI-1	ug/L	0.48 / 2.0	4/15/21 14:04	4/16/21 21:19	EPA 200.8
7440-38-2	Arsenic	2.8	J, QI-1	ug/L	1.3 / 2.0	4/15/21 14:04	4/16/21 21:19	EPA 200.8
7440-41-7	Beryllium	1.0	U	ug/L	0.33 / 1.0	4/15/21 14:04	4/16/21 21:19	EPA 200.8
7440-42-8	Boron	3400		ug/L	120 / 1200	4/15/21 13:52	4/16/21 13:03	EPA 200.7
7440-43-9	Cadmium	1.0	U, J, QI-1	ug/L	0.37 / 1.0	4/15/21 14:04	4/16/21 21:19	EPA 200.8
7440-70-2	Calcium	320000		ug/L	2100 / 6200	4/15/21 13:52	4/16/21 13:03	EPA 200.7
7440-47-3	Chromium	4.0	U, J, QI-1	ug/L	2.4 / 4.0	4/15/21 14:04	4/16/21 21:19	EPA 200.8
7440-48-4	Cobalt	2.0	U, J, QI-1	ug/L	0.65 / 2.0	4/15/21 14:04	4/16/21 21:19	EPA 200.8
7440-50-8	Copper	4.4	J, QI-1	ug/L	0.95 / 2.0	4/15/21 14:04	4/16/21 21:19	EPA 200.8
7439-89-6	Iron	2500	U	ug/L	970 / 2300	4/15/21 13:52	4/16/21 13:03	EPA 200.7
7439-92-1	Lead	2.0	U, J, QI-1	ug/L	0.25 / 2.0	4/15/21 14:04	4/16/21 21:19	EPA 200.8
7439-95-4	Magnesium	970000		ug/L	1500 / 6200	4/15/21 13:52	4/16/21 13:03	EPA 200.7
7439-96-5	Manganese	120	U	ug/L	22 / 120	4/15/21 13:52	4/16/21 13:03	EPA 200.7
7439-98-7	Molybdenum	12		ug/L	4.4 / 10	4/15/21 14:04	4/17/21 13:32	EPA 200.8
7440-02-0	Nickel	2.0	U, J, QI-1	ug/L	1.3 / 2.0	4/15/21 14:04	4/16/21 21:19	EPA 200.8
7440-09-7	Potassium	290000		ug/L	2100 / 25000	4/15/21 13:52	4/16/21 13:03	EPA 200.7
7782-49-2	Selenium	9.0	J, QI-1	ug/L	3.2 / 4.0	4/15/21 14:04	4/16/21 21:19	EPA 200.8
7440-22-4	Silver	1.0	U, J, QI-1	ug/L	0.20 / 1.0	4/15/21 14:04	4/16/21 21:19	EPA 200.8
7440-23-5	Sodium	7800000		ug/L	2600 / 25000	4/15/21 13:52	4/16/21 13:03	EPA 200.7
7440-24-6	Strontium	5600		ug/L	41 / 120	4/15/21 13:52	4/16/21 13:03	EPA 200.7
7440-28-0	Thallium	2.0	U, J, QI-1	ug/L	0.24 / 2.0	4/15/21 14:04	4/16/21 21:19	EPA 200.8
7440-31-5	Tin	380	U	ug/L	38 / 380	4/15/21 13:52	4/16/21 13:03	EPA 200.7
7440-32-6	Titanium	120	U	ug/L	15 / 120	4/15/21 13:52	4/16/21 13:03	EPA 200.7
7440-61-1	Uranium	3.3	J, Q-2	ug/L	2.1 / 10	4/15/21 14:04	4/17/21 13:32	EPA 200.8
7440-62-2	Vanadium	120	U, J, QR-1	ug/L	47 / 120	4/15/21 13:52	4/16/21 13:03	EPA 200.7
7440-66-6	Zinc	250	U	ug/L	26 / 250	4/15/21 13:52	4/16/21 13:03	EPA 200.7

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Project: 21-0221, Piney Point - Phase 2 - Reported by Floyd Wellborn

Total Metals

Project: 21-0221, Piney Point - Phase 2

Sample ID: Piney 3 **Lab ID:** E211612-04

Station ID: PINEY 3 **Matrix:** Saline Water

Date Collected: 4/14/21 10:35

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	98	J, Q-2	ug/L	70 / 200	4/15/21 14:04	4/17/21 13:39	EPA 200.8
7440-36-0	Antimony	2.0	U, J, QI-1	ug/L	0.48 / 2.0	4/15/21 14:04	4/16/21 21:26	EPA 200.8
7440-38-2	Arsenic	2.6	J, QI-1	ug/L	1.3 / 2.0	4/15/21 14:04	4/16/21 21:26	EPA 200.8
7440-41-7	Beryllium	1.0	U	ug/L	0.33 / 1.0	4/15/21 14:04	4/16/21 21:26	EPA 200.8
7440-42-8	Boron	3200		ug/L	120 / 1200	4/15/21 13:52	4/16/21 13:07	EPA 200.7
7440-43-9	Cadmium	1.0	U, J, QI-1	ug/L	0.37 / 1.0	4/15/21 14:04	4/16/21 21:26	EPA 200.8
7440-70-2	Calcium	300000		ug/L	2100 / 6200	4/15/21 13:52	4/16/21 13:07	EPA 200.7
7440-47-3	Chromium	4.0	U, J, QI-1	ug/L	2.4 / 4.0	4/15/21 14:04	4/16/21 21:26	EPA 200.8
7440-48-4	Cobalt	2.0	U, J, QI-1	ug/L	0.65 / 2.0	4/15/21 14:04	4/16/21 21:26	EPA 200.8
7440-50-8	Copper	4.9	J, QI-1	ug/L	0.95 / 2.0	4/15/21 14:04	4/16/21 21:26	EPA 200.8
7439-89-6	Iron	2500	U	ug/L	970 / 2300	4/15/21 13:52	4/16/21 13:07	EPA 200.7
7439-92-1	Lead	2.0	U, J, QI-1	ug/L	0.25 / 2.0	4/15/21 14:04	4/16/21 21:26	EPA 200.8
7439-95-4	Magnesium	930000		ug/L	1500 / 6200	4/15/21 13:52	4/16/21 13:07	EPA 200.7
7439-96-5	Manganese	120	U	ug/L	22 / 120	4/15/21 13:52	4/16/21 13:07	EPA 200.7
7439-98-7	Molybdenum	11		ug/L	4.4 / 10	4/15/21 14:04	4/17/21 13:39	EPA 200.8
7440-02-0	Nickel	2.0	U, J, QI-1	ug/L	1.3 / 2.0	4/15/21 14:04	4/16/21 21:26	EPA 200.8
7440-09-7	Potassium	270000		ug/L	2100 / 25000	4/15/21 13:52	4/16/21 13:07	EPA 200.7
7782-49-2	Selenium	6.5	J, QI-1	ug/L	3.2 / 4.0	4/15/21 14:04	4/16/21 21:26	EPA 200.8
7440-22-4	Silver	1.0	U, J, QI-1	ug/L	0.20 / 1.0	4/15/21 14:04	4/16/21 21:26	EPA 200.8
7440-23-5	Sodium	7500000		ug/L	2600 / 25000	4/15/21 13:52	4/16/21 13:07	EPA 200.7
7440-24-6	Strontium	5300		ug/L	41 / 120	4/15/21 13:52	4/16/21 13:07	EPA 200.7
7440-28-0	Thallium	2.0	U, J, QI-1	ug/L	0.24 / 2.0	4/15/21 14:04	4/16/21 21:26	EPA 200.8
7440-31-5	Tin	380	U	ug/L	38 / 380	4/15/21 13:52	4/16/21 13:07	EPA 200.7
7440-32-6	Titanium	120	U	ug/L	15 / 120	4/15/21 13:52	4/16/21 13:07	EPA 200.7
7440-61-1	Uranium	3.2	J, Q-2	ug/L	2.1 / 10	4/15/21 14:04	4/17/21 13:39	EPA 200.8
7440-62-2	Vanadium	120	U, J, QR-1	ug/L	47 / 120	4/15/21 13:52	4/16/21 13:07	EPA 200.7
7440-66-6	Zinc	250	U	ug/L	26 / 250	4/15/21 13:52	4/16/21 13:07	EPA 200.7

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0221
Project: 21-0221, Piney Point - Phase 2 - Reported by Floyd Wellborn

Total Metals

Project: 21-0221, Piney Point - Phase 2

Sample ID: Piney 18 **Lab ID:** E211612-05

Station ID: PINEY 18 **Matrix:** Saline Water

Date Collected: 4/14/21 10:10

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	140	J, Q-2	ug/L	70 / 200	4/15/21 14:04	4/17/21 13:47	EPA 200.8
7440-36-0	Antimony	2.0	U, J, QI-1	ug/L	0.48 / 2.0	4/15/21 14:04	4/16/21 21:33	EPA 200.8
7440-38-2	Arsenic	2.7	J, QI-1	ug/L	1.3 / 2.0	4/15/21 14:04	4/16/21 21:33	EPA 200.8
7440-41-7	Beryllium	1.0	U	ug/L	0.33 / 1.0	4/15/21 14:04	4/16/21 21:33	EPA 200.8
7440-42-8	Boron	2700		ug/L	100 / 1000	4/15/21 13:52	4/16/21 13:11	EPA 200.7
7440-43-9	Cadmium	1.0	U, J, QI-1	ug/L	0.37 / 1.0	4/15/21 14:04	4/16/21 21:33	EPA 200.8
7440-70-2	Calcium	270000		ug/L	1700 / 5000	4/15/21 13:52	4/16/21 13:11	EPA 200.7
7440-47-3	Chromium	4.0	U	ug/L	2.4 / 4.0	4/15/21 14:04	4/16/21 21:33	EPA 200.8
7440-48-4	Cobalt	2.0	U, J, QI-1	ug/L	0.65 / 2.0	4/15/21 14:04	4/16/21 21:33	EPA 200.8
7440-50-8	Copper	5.0	J, QI-1	ug/L	0.95 / 2.0	4/15/21 14:04	4/16/21 21:33	EPA 200.8
7439-89-6	Iron	2000	U	ug/L	780 / 2000	4/15/21 13:52	4/16/21 13:11	EPA 200.7
7439-92-1	Lead	2.0	U, J, QI-1	ug/L	0.25 / 2.0	4/15/21 14:04	4/16/21 21:33	EPA 200.8
7439-95-4	Magnesium	780000		ug/L	1200 / 5000	4/15/21 13:52	4/16/21 13:11	EPA 200.7
7439-96-5	Manganese	100	U	ug/L	18 / 100	4/15/21 13:52	4/16/21 13:11	EPA 200.7
7439-98-7	Molybdenum	9.9	J, Q-2	ug/L	4.4 / 10	4/15/21 14:04	4/17/21 13:47	EPA 200.8
7440-02-0	Nickel	2.0	U, J, QI-1	ug/L	1.3 / 2.0	4/15/21 14:04	4/16/21 21:33	EPA 200.8
7440-09-7	Potassium	230000		ug/L	1700 / 20000	4/15/21 13:52	4/16/21 13:11	EPA 200.7
7782-49-2	Selenium	5.8	J, QI-1	ug/L	3.2 / 4.0	4/15/21 14:04	4/16/21 21:33	EPA 200.8
7440-22-4	Silver	1.0	U, J, QI-1	ug/L	0.20 / 1.0	4/15/21 14:04	4/16/21 21:33	EPA 200.8
7440-23-5	Sodium	6200000		ug/L	2000 / 20000	4/15/21 13:52	4/16/21 13:11	EPA 200.7
7440-24-6	Strontium	4700		ug/L	33 / 100	4/15/21 13:52	4/16/21 13:11	EPA 200.7
7440-28-0	Thallium	2.0	U, J, QI-1	ug/L	0.24 / 2.0	4/15/21 14:04	4/16/21 21:33	EPA 200.8
7440-31-5	Tin	300	U	ug/L	30 / 300	4/15/21 13:52	4/16/21 13:11	EPA 200.7
7440-32-6	Titanium	100	U	ug/L	12 / 100	4/15/21 13:52	4/16/21 13:11	EPA 200.7
7440-61-1	Uranium	2.6		ug/L	2.1 / 10	4/15/21 14:04	4/17/21 13:47	EPA 200.8
7440-62-2	Vanadium	100	U, J, QR-1	ug/L	37 / 100	4/15/21 13:52	4/16/21 13:11	EPA 200.7
7440-66-6	Zinc	200	U	ug/L	21 / 200	4/15/21 13:52	4/16/21 13:11	EPA 200.7

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0221
Project: 21-0221, Piney Point - Phase 2 - Reported by Floyd Wellborn

Total Metals

Project: 21-0221, Piney Point - Phase 2

Sample ID: Piney 17 **Lab ID:** E211612-06

Station ID: PINEY 17 **Matrix:** Saline Water

Date Collected: 4/14/21 11:25

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	30	J, Q-2	ug/L	14 / 40	4/15/21 14:04	4/16/21 21:40	EPA 200.8
7440-36-0	Antimony	2.0	U, J, QI-1	ug/L	0.48 / 2.0	4/15/21 14:04	4/16/21 21:40	EPA 200.8
7440-38-2	Arsenic	3.5	J, QI-1	ug/L	1.3 / 2.0	4/15/21 14:04	4/16/21 21:40	EPA 200.8
7440-41-7	Beryllium	1.0	U	ug/L	0.33 / 1.0	4/15/21 14:04	4/16/21 21:40	EPA 200.8
7440-42-8	Boron	3100		ug/L	120 / 1200	4/15/21 13:52	4/16/21 13:18	EPA 200.7
7440-43-9	Cadmium	1.0	U, J, QI-1	ug/L	0.37 / 1.0	4/15/21 14:04	4/16/21 21:40	EPA 200.8
7440-70-2	Calcium	290000		ug/L	2100 / 6200	4/15/21 13:52	4/16/21 13:18	EPA 200.7
7440-47-3	Chromium	4.0	U	ug/L	2.4 / 4.0	4/15/21 14:04	4/16/21 21:40	EPA 200.8
7440-48-4	Cobalt	2.0	U, J, QI-1	ug/L	0.65 / 2.0	4/15/21 14:04	4/16/21 21:40	EPA 200.8
7440-50-8	Copper	4.8	J, QI-1	ug/L	0.95 / 2.0	4/15/21 14:04	4/16/21 21:40	EPA 200.8
7439-89-6	Iron	2500	U	ug/L	970 / 2300	4/15/21 13:52	4/16/21 13:18	EPA 200.7
7439-92-1	Lead	2.0	U, J, QI-1	ug/L	0.25 / 2.0	4/15/21 14:04	4/16/21 21:40	EPA 200.8
7439-95-4	Magnesium	890000		ug/L	1500 / 6200	4/15/21 13:52	4/16/21 13:18	EPA 200.7
7439-96-5	Manganese	120	U	ug/L	22 / 120	4/15/21 13:52	4/16/21 13:18	EPA 200.7
7439-98-7	Molybdenum	11		ug/L	4.4 / 10	4/15/21 14:04	4/17/21 13:54	EPA 200.8
7440-02-0	Nickel	2.0	U, J, QI-1	ug/L	1.3 / 2.0	4/15/21 14:04	4/16/21 21:40	EPA 200.8
7440-09-7	Potassium	260000		ug/L	2100 / 25000	4/15/21 13:52	4/16/21 13:18	EPA 200.7
7782-49-2	Selenium	9.4	J, QI-1	ug/L	3.2 / 4.0	4/15/21 14:04	4/16/21 21:40	EPA 200.8
7440-22-4	Silver	1.0	U, J, QI-1	ug/L	0.20 / 1.0	4/15/21 14:04	4/16/21 21:40	EPA 200.8
7440-23-5	Sodium	7100000		ug/L	2600 / 25000	4/15/21 13:52	4/16/21 13:18	EPA 200.7
7440-24-6	Strontium	5200		ug/L	41 / 120	4/15/21 13:52	4/16/21 13:18	EPA 200.7
7440-28-0	Thallium	2.0	U, J, QI-1	ug/L	0.24 / 2.0	4/15/21 14:04	4/16/21 21:40	EPA 200.8
7440-31-5	Tin	380	U	ug/L	38 / 380	4/15/21 13:52	4/16/21 13:18	EPA 200.7
7440-32-6	Titanium	120	U	ug/L	15 / 120	4/15/21 13:52	4/16/21 13:18	EPA 200.7
7440-61-1	Uranium	3.1	J, Q-2	ug/L	2.1 / 10	4/15/21 14:04	4/17/21 13:54	EPA 200.8
7440-62-2	Vanadium	120	U, J, QR-1	ug/L	47 / 120	4/15/21 13:52	4/16/21 13:18	EPA 200.7
7440-66-6	Zinc	250	U	ug/L	26 / 250	4/15/21 13:52	4/16/21 13:18	EPA 200.7

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0221
Project: 21-0221, Piney Point - Phase 2 - Reported by Floyd Wellborn

Total Metals

Project: 21-0221, Piney Point - Phase 2

Sample ID: Piney 7 **Lab ID:** E211612-07

Station ID: PINEY 7 **Matrix:** Saline Water

Date Collected: 4/14/21 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	38	J, Q-2	ug/L	14 / 40	4/15/21 14:04	4/16/21 21:48	EPA 200.8
7440-36-0	Antimony	2.0	U, J, QI-1	ug/L	0.48 / 2.0	4/15/21 14:04	4/16/21 21:48	EPA 200.8
7440-38-2	Arsenic	3.8	J, QI-1	ug/L	1.3 / 2.0	4/15/21 14:04	4/16/21 21:48	EPA 200.8
7440-41-7	Beryllium	1.0	U	ug/L	0.33 / 1.0	4/15/21 14:04	4/16/21 21:48	EPA 200.8
7440-42-8	Boron	3200		ug/L	120 / 1200	4/15/21 13:52	4/16/21 13:22	EPA 200.7
7440-43-9	Cadmium	1.0	U, J, QI-1	ug/L	0.37 / 1.0	4/15/21 14:04	4/16/21 21:48	EPA 200.8
7440-70-2	Calcium	310000		ug/L	2100 / 6200	4/15/21 13:52	4/16/21 13:22	EPA 200.7
7440-47-3	Chromium	4.0	U	ug/L	2.4 / 4.0	4/15/21 14:04	4/16/21 21:48	EPA 200.8
7440-48-4	Cobalt	2.0	U, J, QI-1	ug/L	0.65 / 2.0	4/15/21 14:04	4/16/21 21:48	EPA 200.8
7440-50-8	Copper	5.3	J, QI-1	ug/L	0.95 / 2.0	4/15/21 14:04	4/16/21 21:48	EPA 200.8
7439-89-6	Iron	2500	U	ug/L	970 / 2300	4/15/21 13:52	4/16/21 13:22	EPA 200.7
7439-92-1	Lead	2.0	U, J, QI-1	ug/L	0.25 / 2.0	4/15/21 14:04	4/16/21 21:48	EPA 200.8
7439-95-4	Magnesium	940000		ug/L	1500 / 6200	4/15/21 13:52	4/16/21 13:22	EPA 200.7
7439-96-5	Manganese	120	U	ug/L	22 / 120	4/15/21 13:52	4/16/21 13:22	EPA 200.7
7439-98-7	Molybdenum	11		ug/L	4.4 / 10	4/15/21 14:04	4/17/21 14:01	EPA 200.8
7440-02-0	Nickel	2.0	U, J, QI-1	ug/L	1.3 / 2.0	4/15/21 14:04	4/16/21 21:48	EPA 200.8
7440-09-7	Potassium	270000		ug/L	2100 / 25000	4/15/21 13:52	4/16/21 13:22	EPA 200.7
7782-49-2	Selenium	9.6	J, QI-1	ug/L	3.2 / 4.0	4/15/21 14:04	4/16/21 21:48	EPA 200.8
7440-22-4	Silver	1.0	U, J, QI-1	ug/L	0.20 / 1.0	4/15/21 14:04	4/16/21 21:48	EPA 200.8
7440-23-5	Sodium	7500000		ug/L	2600 / 25000	4/15/21 13:52	4/16/21 13:22	EPA 200.7
7440-24-6	Strontium	5400		ug/L	41 / 120	4/15/21 13:52	4/16/21 13:22	EPA 200.7
7440-28-0	Thallium	2.0	U, J, QI-1	ug/L	0.24 / 2.0	4/15/21 14:04	4/16/21 21:48	EPA 200.8
7440-31-5	Tin	380	U	ug/L	38 / 380	4/15/21 13:52	4/16/21 13:22	EPA 200.7
7440-32-6	Titanium	120	U	ug/L	15 / 120	4/15/21 13:52	4/16/21 13:22	EPA 200.7
7440-61-1	Uranium	3.3	J, Q-2	ug/L	2.1 / 10	4/15/21 14:04	4/17/21 14:01	EPA 200.8
7440-62-2	Vanadium	120	U, J, QR-1	ug/L	47 / 120	4/15/21 13:52	4/16/21 13:22	EPA 200.7
7440-66-6	Zinc	250	U	ug/L	26 / 250	4/15/21 13:52	4/16/21 13:22	EPA 200.7

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0221
Project: 21-0221, Piney Point - Phase 2 - Reported by Floyd Wellborn

Total Metals

Project: 21-0221, Piney Point - Phase 2

Sample ID: Piney 7 **Lab ID:** E211615-01

Station ID: **Matrix:** Water

Date Collected: 4/16/21 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	16	J, Q-2	ug/L	14 / 40	4/17/21 12:52	4/18/21 14:06	EPA 200.8
7440-36-0	Antimony	2.0	U, J, QI-1	ug/L	0.48 / 2.0	4/17/21 12:52	4/18/21 14:06	EPA 200.8
7440-38-2	Arsenic	3.1	J, QI-1	ug/L	1.3 / 2.0	4/17/21 12:52	4/18/21 14:06	EPA 200.8
7440-41-7	Beryllium	1.0	U	ug/L	0.33 / 1.0	4/17/21 12:52	4/18/21 14:06	EPA 200.8
7440-42-8	Boron	3200		ug/L	120 / 1200	4/17/21 12:48	4/18/21 13:35	EPA 200.7
7440-43-9	Cadmium	1.0	U, J, QI-1	ug/L	0.37 / 1.0	4/17/21 12:52	4/18/21 14:06	EPA 200.8
7440-70-2	Calcium	290000		ug/L	2100 / 6200	4/17/21 12:48	4/18/21 13:35	EPA 200.7
7440-47-3	Chromium	4.0	U	ug/L	2.4 / 4.0	4/17/21 12:52	4/18/21 14:06	EPA 200.8
7440-48-4	Cobalt	2.0	U, J, QI-1	ug/L	0.65 / 2.0	4/17/21 12:52	4/18/21 14:06	EPA 200.8
7440-50-8	Copper	2.0	J, QI-1	ug/L	0.95 / 2.0	4/17/21 12:52	4/18/21 14:06	EPA 200.8
7439-89-6	Iron	2500	U	ug/L	970 / 2500	4/17/21 12:48	4/18/21 13:35	EPA 200.7
7439-92-1	Lead	5.0	U	ug/L	0.63 / 5.0	4/17/21 12:52	4/18/21 14:14	EPA 200.8
7439-95-4	Magnesium	910000		ug/L	1500 / 6200	4/17/21 12:48	4/18/21 13:35	EPA 200.7
7439-96-5	Manganese	120	U	ug/L	22 / 120	4/17/21 12:48	4/18/21 13:35	EPA 200.7
7439-98-7	Molybdenum	11		ug/L	2.2 / 5.0	4/17/21 12:52	4/18/21 14:14	EPA 200.8
7440-02-0	Nickel	2.0	U, J, QI-1	ug/L	1.3 / 2.0	4/17/21 12:52	4/18/21 14:06	EPA 200.8
7440-09-7	Potassium	270000		ug/L	2100 / 25000	4/17/21 12:48	4/18/21 13:35	EPA 200.7
7782-49-2	Selenium	5.0	J, QI-1	ug/L	3.2 / 4.0	4/17/21 12:52	4/18/21 14:06	EPA 200.8
7440-22-4	Silver	1.0	U, J, QI-1	ug/L	0.20 / 1.0	4/17/21 12:52	4/18/21 14:06	EPA 200.8
7440-23-5	Sodium	7300000		ug/L	2600 / 25000	4/17/21 12:48	4/18/21 13:35	EPA 200.7
7440-24-6	Strontium	5300		ug/L	41 / 120	4/17/21 12:48	4/18/21 13:35	EPA 200.7
7440-28-0	Thallium	2.0	U, J, QI-1	ug/L	0.24 / 2.0	4/17/21 12:52	4/18/21 14:06	EPA 200.8
7440-31-5	Tin	380	U	ug/L	38 / 380	4/17/21 12:48	4/18/21 13:35	EPA 200.7
7440-32-6	Titanium	120	U	ug/L	15 / 120	4/17/21 12:48	4/18/21 13:35	EPA 200.7
7440-61-1	Uranium	3.1	J, Q-2	ug/L	1.0 / 5.0	4/17/21 12:52	4/18/21 14:14	EPA 200.8
7440-62-2	Vanadium	53	J, Q-2	ug/L	47 / 120	4/17/21 12:48	4/18/21 13:35	EPA 200.7
7440-66-6	Zinc	250	U	ug/L	26 / 250	4/17/21 12:48	4/18/21 13:35	EPA 200.7

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0221
Project: 21-0221, Piney Point - Phase 2 - Reported by Floyd Wellborn

Total Metals

Project: 21-0221, Piney Point - Phase 2

Sample ID: Piney 3 **Lab ID:** E211615-02

Station ID: **Matrix:** Water

Date Collected: 4/16/21 11:25

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	24	J, Q-2	ug/L	14 / 40	4/17/21 12:52	4/18/21 14:21	EPA 200.8
7440-36-0	Antimony	2.0	U, J, QI-1	ug/L	0.48 / 2.0	4/17/21 12:52	4/18/21 14:21	EPA 200.8
7440-38-2	Arsenic	3.4	J, QI-1	ug/L	1.3 / 2.0	4/17/21 12:52	4/18/21 14:21	EPA 200.8
7440-41-7	Beryllium	1.0	U	ug/L	0.33 / 1.0	4/17/21 12:52	4/18/21 14:21	EPA 200.8
7440-42-8	Boron	3200		ug/L	120 / 1200	4/17/21 12:48	4/18/21 13:39	EPA 200.7
7440-43-9	Cadmium	1.0	U, J, QI-1	ug/L	0.37 / 1.0	4/17/21 12:52	4/18/21 14:21	EPA 200.8
7440-70-2	Calcium	290000		ug/L	2100 / 6200	4/17/21 12:48	4/18/21 13:39	EPA 200.7
7440-47-3	Chromium	4.0	U	ug/L	2.4 / 4.0	4/17/21 12:52	4/18/21 14:21	EPA 200.8
7440-48-4	Cobalt	2.0	U, J, QI-1	ug/L	0.65 / 2.0	4/17/21 12:52	4/18/21 14:21	EPA 200.8
7440-50-8	Copper	1.8	J, Q-2, QI-1	ug/L	0.95 / 2.0	4/17/21 12:52	4/18/21 14:21	EPA 200.8
7439-89-6	Iron	2500	U	ug/L	970 / 2500	4/17/21 12:48	4/18/21 13:39	EPA 200.7
7439-92-1	Lead	5.0	U	ug/L	0.63 / 5.0	4/17/21 12:52	4/18/21 14:28	EPA 200.8
7439-95-4	Magnesium	910000		ug/L	1500 / 6200	4/17/21 12:48	4/18/21 13:39	EPA 200.7
7439-96-5	Manganese	120	U	ug/L	22 / 120	4/17/21 12:48	4/18/21 13:39	EPA 200.7
7439-98-7	Molybdenum	11		ug/L	2.2 / 5.0	4/17/21 12:52	4/18/21 14:28	EPA 200.8
7440-02-0	Nickel	2.0	U, J, QI-1	ug/L	1.3 / 2.0	4/17/21 12:52	4/18/21 14:21	EPA 200.8
7440-09-7	Potassium	260000		ug/L	2100 / 25000	4/17/21 12:48	4/18/21 13:39	EPA 200.7
7782-49-2	Selenium	7.8	J, QI-1	ug/L	3.2 / 4.0	4/17/21 12:52	4/18/21 14:21	EPA 200.8
7440-22-4	Silver	1.0	U, J, QI-1	ug/L	0.20 / 1.0	4/17/21 12:52	4/18/21 14:21	EPA 200.8
7440-23-5	Sodium	7200000		ug/L	2600 / 25000	4/17/21 12:48	4/18/21 13:39	EPA 200.7
7440-24-6	Strontium	5300		ug/L	41 / 120	4/17/21 12:48	4/18/21 13:39	EPA 200.7
7440-28-0	Thallium	2.0	U, J, QI-1	ug/L	0.24 / 2.0	4/17/21 12:52	4/18/21 14:21	EPA 200.8
7440-31-5	Tin	380	U	ug/L	38 / 380	4/17/21 12:48	4/18/21 13:39	EPA 200.7
7440-32-6	Titanium	120	U	ug/L	15 / 120	4/17/21 12:48	4/18/21 13:39	EPA 200.7
7440-61-1	Uranium	2.9	J, Q-2	ug/L	1.0 / 5.0	4/17/21 12:52	4/18/21 14:28	EPA 200.8
7440-62-2	Vanadium	59	J, Q-2	ug/L	47 / 120	4/17/21 12:48	4/18/21 13:39	EPA 200.7
7440-66-6	Zinc	250	U	ug/L	26 / 250	4/17/21 12:48	4/18/21 13:39	EPA 200.7

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0221
Project: 21-0221, Piney Point - Phase 2 - Reported by Floyd Wellborn

Total Metals

Project: 21-0221, Piney Point - Phase 2

Sample ID: Piney 6 **Lab ID:** E211615-03

Station ID: **Matrix:** Water

Date Collected: 4/16/21 12:00

CAS Number	Analyte	Results Qualifiers	Units	MDL MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	41 J, B-2, Q-2	ug/L	14 44	4/17/21 12:52	4/18/21 14:50	EPA 200.8
7440-36-0	Antimony	2.0 U, J, QI-1	ug/L	0.48 2.0	4/17/21 12:52	4/18/21 14:50	EPA 200.8
7440-38-2	Arsenic	3.3 J, QI-1	ug/L	1.3 2.0	4/17/21 12:52	4/18/21 14:50	EPA 200.8
7440-41-7	Beryllium	1.0 U	ug/L	0.33 1.0	4/17/21 12:52	4/18/21 14:50	EPA 200.8
7440-42-8	Boron	3200 J, QM-2, QM-3	ug/L	120 1200	4/17/21 12:48	4/18/21 13:43	EPA 200.7
7440-43-9	Cadmium	1.0 U, J, QI-1	ug/L	0.37 1.0	4/17/21 12:52	4/18/21 14:50	EPA 200.8
7440-70-2	Calcium	290000 J, QM-3	ug/L	2100 6200	4/17/21 12:48	4/18/21 13:43	EPA 200.7
7440-47-3	Chromium	4.0 U	ug/L	2.4 4.0	4/17/21 12:52	4/18/21 14:50	EPA 200.8
7440-48-4	Cobalt	2.0 U, J, QI-1	ug/L	0.65 2.0	4/17/21 12:52	4/18/21 14:50	EPA 200.8
7440-50-8	Copper	1.6 J, Q-2, QI-1	ug/L	0.95 2.0	4/17/21 12:52	4/18/21 14:50	EPA 200.8
7439-89-6	Iron	2500 U, J, QM-3	ug/L	970 2300	4/17/21 12:48	4/18/21 13:43	EPA 200.7
7439-92-1	Lead	5.0 U	ug/L	0.63 5.0	4/17/21 12:52	4/18/21 14:57	EPA 200.8
7439-95-4	Magnesium	890000 J, QM-3	ug/L	1500 6200	4/17/21 12:48	4/18/21 13:43	EPA 200.7
7439-96-5	Manganese	120 U, J, QM-3	ug/L	22 120	4/17/21 12:48	4/18/21 13:43	EPA 200.7
7439-98-7	Molybdenum	11	ug/L	2.2 5.0	4/17/21 12:52	4/18/21 14:57	EPA 200.8
7440-02-0	Nickel	2.0 U, J, QI-1	ug/L	1.3 2.0	4/17/21 12:52	4/18/21 14:50	EPA 200.8
7440-09-7	Potassium	260000 J, QM-3	ug/L	2100 25000	4/17/21 12:48	4/18/21 13:43	EPA 200.7
7782-49-2	Selenium	6.0 J, QI-1	ug/L	3.2 4.0	4/17/21 12:52	4/18/21 14:50	EPA 200.8
7440-22-4	Silver	1.0 U, J, QI-1, QM-1	ug/L	0.20 1.0	4/17/21 12:52	4/18/21 14:50	EPA 200.8
7440-23-5	Sodium	7100000 J, QM-3	ug/L	2600 25000	4/17/21 12:48	4/18/21 13:43	EPA 200.7
7440-24-6	Strontium	5200 J, QM-3	ug/L	41 120	4/17/21 12:48	4/18/21 13:43	EPA 200.7
7440-28-0	Thallium	2.0 U	ug/L	0.24 2.0	4/17/21 12:52	4/18/21 14:50	EPA 200.8
7440-31-5	Tin	380 U, J, QM-2, QM-3	ug/L	38 380	4/17/21 12:48	4/18/21 13:43	EPA 200.7
7440-32-6	Titanium	120 U, J, QM-1	ug/L	15 120	4/17/21 12:48	4/18/21 13:43	EPA 200.7
7440-61-1	Uranium	3.0 J, Q-2	ug/L	1.0 5.0	4/17/21 12:52	4/18/21 14:57	EPA 200.8
7440-62-2	Vanadium	58 J, Q-2, QM-1, QM-3	ug/L	47 120	4/17/21 12:48	4/18/21 13:43	EPA 200.7

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0221
Project: 21-0221, Piney Point - Phase 2 - Reported by Floyd Wellborn

Total Metals

Project: 21-0221, Piney Point - Phase 2

Sample ID: Piney 6 **Lab ID:** E211615-03

Station ID: **Matrix:** Water

Date Collected: 4/16/21 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
7440-66-6	Zinc	250	U, J, QM-1, QM-3	ug/L	26 / 250	4/17/21 12:48	4/18/21 13:43	EPA 200.7

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0221
Project: 21-0221, Piney Point - Phase 2 - Reported by Floyd Wellborn

Total Metals

Project: 21-0221, Piney Point - Phase 2

Sample ID: Piney 8 **Lab ID:** E211615-04

Station ID: **Matrix:** Water

Date Collected: 4/16/21 12:35

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	48	J, B-2, Q-2	ug/L	14 / 52	4/17/21 12:52	4/18/21 15:33	EPA 200.8
7440-36-0	Antimony	2.0	U, J, QI-1	ug/L	0.48 / 2.0	4/17/21 12:52	4/18/21 15:33	EPA 200.8
7440-38-2	Arsenic	3.9	J, QI-1	ug/L	1.3 / 2.0	4/17/21 12:52	4/18/21 15:33	EPA 200.8
7440-41-7	Beryllium	1.0	U	ug/L	0.33 / 1.0	4/17/21 12:52	4/18/21 15:33	EPA 200.8
7440-42-8	Boron	3300		ug/L	120 / 1200	4/17/21 12:48	4/18/21 13:54	EPA 200.7
7440-43-9	Cadmium	1.0	U, J, QI-1	ug/L	0.37 / 1.0	4/17/21 12:52	4/18/21 15:33	EPA 200.8
7440-70-2	Calcium	300000		ug/L	2100 / 6200	4/17/21 12:48	4/18/21 13:54	EPA 200.7
7440-47-3	Chromium	4.0	U	ug/L	2.4 / 4.0	4/17/21 12:52	4/18/21 15:33	EPA 200.8
7440-48-4	Cobalt	2.0	U, J, QI-1	ug/L	0.65 / 2.0	4/17/21 12:52	4/18/21 15:33	EPA 200.8
7440-50-8	Copper	2.2	J, QI-1	ug/L	0.95 / 2.0	4/17/21 12:52	4/18/21 15:33	EPA 200.8
7439-89-6	Iron	2500	U	ug/L	970 / 2300	4/17/21 12:48	4/18/21 13:54	EPA 200.7
7439-92-1	Lead	5.0	U	ug/L	0.63 / 5.0	4/17/21 12:52	4/18/21 15:40	EPA 200.8
7439-95-4	Magnesium	930000		ug/L	1500 / 6200	4/17/21 12:48	4/18/21 13:54	EPA 200.7
7439-96-5	Manganese	120	U	ug/L	22 / 120	4/17/21 12:48	4/18/21 13:54	EPA 200.7
7439-98-7	Molybdenum	11		ug/L	2.2 / 5.0	4/17/21 12:52	4/18/21 15:40	EPA 200.8
7440-02-0	Nickel	2.0	U, J, QI-1	ug/L	1.3 / 2.0	4/17/21 12:52	4/18/21 15:33	EPA 200.8
7440-09-7	Potassium	270000		ug/L	2100 / 25000	4/17/21 12:48	4/18/21 13:54	EPA 200.7
7782-49-2	Selenium	8.1	J, QI-1	ug/L	3.2 / 4.0	4/17/21 12:52	4/18/21 15:33	EPA 200.8
7440-22-4	Silver	1.0	U, J, QI-1	ug/L	0.20 / 1.0	4/17/21 12:52	4/18/21 15:33	EPA 200.8
7440-23-5	Sodium	7400000		ug/L	2600 / 25000	4/17/21 12:48	4/18/21 13:54	EPA 200.7
7440-24-6	Strontium	5400		ug/L	41 / 120	4/17/21 12:48	4/18/21 13:54	EPA 200.7
7440-28-0	Thallium	2.0	U, J, QI-1	ug/L	0.24 / 2.0	4/17/21 12:52	4/18/21 15:33	EPA 200.8
7440-31-5	Tin	380	U	ug/L	38 / 380	4/17/21 12:48	4/18/21 13:54	EPA 200.7
7440-32-6	Titanium	120	U	ug/L	15 / 120	4/17/21 12:48	4/18/21 13:54	EPA 200.7
7440-61-1	Uranium	2.9	J, Q-2	ug/L	1.0 / 5.0	4/17/21 12:52	4/18/21 15:40	EPA 200.8
7440-62-2	Vanadium	74	J, Q-2	ug/L	47 / 120	4/17/21 12:48	4/18/21 13:54	EPA 200.7
7440-66-6	Zinc	250	U	ug/L	26 / 250	4/17/21 12:48	4/18/21 13:54	EPA 200.7

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0221
Project: 21-0221, Piney Point - Phase 2 - Reported by Floyd Wellborn

Total Metals

Project: 21-0221, Piney Point - Phase 2

Sample ID: Piney 9 **Lab ID:** E211615-05

Station ID: **Matrix:** Water

Date Collected: 4/16/21 13:20

CAS Number	Analyte	Results	Qualifiers	Units	MDL MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	43	J, B-2, Q-2	ug/L	14 48	4/17/21 12:52	4/18/21 15:47	EPA 200.8
7440-36-0	Antimony	2.0	U, J, QI-1	ug/L	0.48 2.0	4/17/21 12:52	4/18/21 15:47	EPA 200.8
7440-38-2	Arsenic	3.9	J, QI-1	ug/L	1.3 2.0	4/17/21 12:52	4/18/21 15:47	EPA 200.8
7440-41-7	Beryllium	1.0	U	ug/L	0.33 1.0	4/17/21 12:52	4/18/21 15:47	EPA 200.8
7440-42-8	Boron	3400		ug/L	120 1200	4/17/21 12:48	4/18/21 13:57	EPA 200.7
7440-43-9	Cadmium	1.0	U, J, QI-1	ug/L	0.37 1.0	4/17/21 12:52	4/18/21 15:47	EPA 200.8
7440-70-2	Calcium	300000		ug/L	2100 6200	4/17/21 12:48	4/18/21 13:57	EPA 200.7
7440-47-3	Chromium	4.0	U	ug/L	2.4 4.0	4/17/21 12:52	4/18/21 15:47	EPA 200.8
7440-48-4	Cobalt	2.0	U, J, QI-1	ug/L	0.65 2.0	4/17/21 12:52	4/18/21 15:47	EPA 200.8
7440-50-8	Copper	2.3	J, QI-1	ug/L	0.95 2.0	4/17/21 12:52	4/18/21 15:47	EPA 200.8
7439-89-6	Iron	2500	U	ug/L	970 2300	4/17/21 12:48	4/18/21 13:57	EPA 200.7
7439-92-1	Lead	5.0	U	ug/L	0.63 5.0	4/17/21 12:52	4/18/21 15:54	EPA 200.8
7439-95-4	Magnesium	930000		ug/L	1500 6200	4/17/21 12:48	4/18/21 13:57	EPA 200.7
7439-96-5	Manganese	120	U	ug/L	22 120	4/17/21 12:48	4/18/21 13:57	EPA 200.7
7439-98-7	Molybdenum	12		ug/L	2.2 5.0	4/17/21 12:52	4/18/21 15:54	EPA 200.8
7440-02-0	Nickel	2.0	U, J, QI-1	ug/L	1.3 2.0	4/17/21 12:52	4/18/21 15:47	EPA 200.8
7440-09-7	Potassium	280000		ug/L	2100 25000	4/17/21 12:48	4/18/21 13:57	EPA 200.7
7782-49-2	Selenium	7.4	J, QI-1	ug/L	3.2 4.0	4/17/21 12:52	4/18/21 15:47	EPA 200.8
7440-22-4	Silver	1.0	U, J, QI-1	ug/L	0.20 1.0	4/17/21 12:52	4/18/21 15:47	EPA 200.8
7440-23-5	Sodium	7500000		ug/L	2600 25000	4/17/21 12:48	4/18/21 13:57	EPA 200.7
7440-24-6	Strontium	5400		ug/L	41 120	4/17/21 12:48	4/18/21 13:57	EPA 200.7
7440-28-0	Thallium	2.0	U, J, QI-1	ug/L	0.24 2.0	4/17/21 12:52	4/18/21 15:47	EPA 200.8
7440-31-5	Tin	380	U	ug/L	38 380	4/17/21 12:48	4/18/21 13:57	EPA 200.7
7440-32-6	Titanium	120	U	ug/L	15 120	4/17/21 12:48	4/18/21 13:57	EPA 200.7
7440-61-1	Uranium	2.8	J, Q-2	ug/L	1.0 5.0	4/17/21 12:52	4/18/21 15:54	EPA 200.8
7440-62-2	Vanadium	52	J, Q-2	ug/L	47 120	4/17/21 12:48	4/18/21 13:57	EPA 200.7
7440-66-6	Zinc	250	U	ug/L	26 250	4/17/21 12:48	4/18/21 13:57	EPA 200.7

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0221
Project: 21-0221, Piney Point - Phase 2 - Reported by Floyd Wellborn

Total Metals

Project: 21-0221, Piney Point - Phase 2

Sample ID: Piney 20 **Lab ID:** E211615-06

Station ID: **Matrix:** Water

Date Collected: 4/16/21 9:55

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	100		ug/L	14 / 40	4/17/21 12:52	4/18/21 17:14	EPA 200.8
7440-36-0	Antimony	2.0	U, J, QI-1	ug/L	0.48 / 2.0	4/17/21 12:52	4/18/21 17:14	EPA 200.8
7440-38-2	Arsenic	3.7	J, QI-1	ug/L	1.3 / 2.0	4/17/21 12:52	4/18/21 17:14	EPA 200.8
7440-41-7	Beryllium	1.0	U	ug/L	0.33 / 1.0	4/17/21 12:52	4/18/21 17:14	EPA 200.8
7440-42-8	Boron	3000		ug/L	120 / 1200	4/17/21 12:48	4/18/21 14:01	EPA 200.7
7440-43-9	Cadmium	1.0	U, J, QI-1	ug/L	0.37 / 1.0	4/17/21 12:52	4/18/21 17:14	EPA 200.8
7440-70-2	Calcium	280000		ug/L	2100 / 6200	4/17/21 12:48	4/18/21 14:01	EPA 200.7
7440-47-3	Chromium	4.0	U	ug/L	2.4 / 4.0	4/17/21 12:52	4/18/21 17:14	EPA 200.8
7440-48-4	Cobalt	2.0	U, J, QI-1	ug/L	0.65 / 2.0	4/17/21 12:52	4/18/21 17:14	EPA 200.8
7440-50-8	Copper	1.6	J, Q-2, QI-1	ug/L	0.95 / 2.0	4/17/21 12:52	4/18/21 17:14	EPA 200.8
7439-89-6	Iron	2500	U	ug/L	970 / 2500	4/17/21 12:48	4/18/21 14:01	EPA 200.7
7439-92-1	Lead	5.0	U	ug/L	0.63 / 5.0	4/17/21 12:52	4/18/21 17:21	EPA 200.8
7439-95-4	Magnesium	840000		ug/L	1500 / 6200	4/17/21 12:48	4/18/21 14:01	EPA 200.7
7439-96-5	Manganese	120	U	ug/L	22 / 120	4/17/21 12:48	4/18/21 14:01	EPA 200.7
7439-98-7	Molybdenum	11		ug/L	2.2 / 5.0	4/17/21 12:52	4/18/21 17:21	EPA 200.8
7440-02-0	Nickel	1.6	J, Q-2, QI-1	ug/L	1.3 / 2.0	4/17/21 12:52	4/18/21 17:14	EPA 200.8
7440-09-7	Potassium	250000		ug/L	2100 / 25000	4/17/21 12:48	4/18/21 14:01	EPA 200.7
7782-49-2	Selenium	7.8	J, QI-1	ug/L	3.2 / 4.0	4/17/21 12:52	4/18/21 17:14	EPA 200.8
7440-22-4	Silver	1.0	U, J, QI-1	ug/L	0.20 / 1.0	4/17/21 12:52	4/18/21 17:14	EPA 200.8
7440-23-5	Sodium	6700000		ug/L	2600 / 25000	4/17/21 12:48	4/18/21 14:01	EPA 200.7
7440-24-6	Strontium	4900		ug/L	41 / 120	4/17/21 12:48	4/18/21 14:01	EPA 200.7
7440-28-0	Thallium	2.0	U, J, QI-1	ug/L	0.24 / 2.0	4/17/21 12:52	4/18/21 17:14	EPA 200.8
7440-31-5	Tin	44	J, Q-2	ug/L	38 / 380	4/17/21 12:48	4/18/21 14:01	EPA 200.7
7440-32-6	Titanium	120	U	ug/L	15 / 120	4/17/21 12:48	4/18/21 14:01	EPA 200.7
7440-61-1	Uranium	3.1		ug/L	0.42 / 2.0	4/17/21 12:52	4/18/21 20:17	EPA 200.8
7440-62-2	Vanadium	120	U	ug/L	47 / 120	4/17/21 12:48	4/18/21 14:01	EPA 200.7
7440-66-6	Zinc	250	U	ug/L	26 / 250	4/17/21 12:48	4/18/21 14:01	EPA 200.7

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0221
Project: 21-0221, Piney Point - Phase 2 - Reported by Floyd Wellborn

Total Metals

Project: 21-0221, Piney Point - Phase 2

Sample ID: Piney 19 **Lab ID:** E211615-07

Station ID: **Matrix:** Water

Date Collected: 4/16/21 10:25

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	56	J, B-2, Q-2	ug/L	14 / 60	4/17/21 12:52	4/18/21 17:29	EPA 200.8
7440-36-0	Antimony	2.0	U, J, QI-1	ug/L	0.48 / 2.0	4/17/21 12:52	4/18/21 17:29	EPA 200.8
7440-38-2	Arsenic	3.0	J, QI-1	ug/L	1.3 / 2.0	4/17/21 12:52	4/18/21 17:29	EPA 200.8
7440-41-7	Beryllium	1.0	U	ug/L	0.33 / 1.0	4/17/21 12:52	4/18/21 17:29	EPA 200.8
7440-42-8	Boron	3100		ug/L	120 / 1200	4/17/21 12:48	4/18/21 14:05	EPA 200.7
7440-43-9	Cadmium	1.0	U, J, QI-1	ug/L	0.37 / 1.0	4/17/21 12:52	4/18/21 17:29	EPA 200.8
7440-70-2	Calcium	290000		ug/L	2100 / 6200	4/17/21 12:48	4/18/21 14:05	EPA 200.7
7440-47-3	Chromium	4.0	U	ug/L	2.4 / 4.0	4/17/21 12:52	4/18/21 17:29	EPA 200.8
7440-48-4	Cobalt	2.0	U, J, QI-1	ug/L	0.65 / 2.0	4/17/21 12:52	4/18/21 17:29	EPA 200.8
7440-50-8	Copper	1.9	J, Q-2, QI-1	ug/L	0.95 / 2.0	4/17/21 12:52	4/18/21 17:29	EPA 200.8
7439-89-6	Iron	2500	U	ug/L	970 / 2500	4/17/21 12:48	4/18/21 14:05	EPA 200.7
7439-92-1	Lead	5.0	U	ug/L	0.63 / 5.0	4/17/21 12:52	4/18/21 17:36	EPA 200.8
7439-95-4	Magnesium	880000		ug/L	1500 / 6200	4/17/21 12:48	4/18/21 14:05	EPA 200.7
7439-96-5	Manganese	120	U	ug/L	22 / 120	4/17/21 12:48	4/18/21 14:05	EPA 200.7
7439-98-7	Molybdenum	11		ug/L	2.2 / 5.0	4/17/21 12:52	4/18/21 17:36	EPA 200.8
7440-02-0	Nickel	1.3	J, Q-2, QI-1	ug/L	1.3 / 2.0	4/17/21 12:52	4/18/21 17:29	EPA 200.8
7440-09-7	Potassium	260000		ug/L	2100 / 25000	4/17/21 12:48	4/18/21 14:05	EPA 200.7
7782-49-2	Selenium	8.4	J, QI-1	ug/L	3.2 / 4.0	4/17/21 12:52	4/18/21 17:29	EPA 200.8
7440-22-4	Silver	1.0	U, J, QI-1	ug/L	0.20 / 1.0	4/17/21 12:52	4/18/21 17:29	EPA 200.8
7440-23-5	Sodium	7100000		ug/L	2600 / 25000	4/17/21 12:48	4/18/21 14:05	EPA 200.7
7440-24-6	Strontium	5100		ug/L	41 / 120	4/17/21 12:48	4/18/21 14:05	EPA 200.7
7440-28-0	Thallium	2.0	U, J, QI-1	ug/L	0.24 / 2.0	4/17/21 12:52	4/18/21 17:29	EPA 200.8
7440-31-5	Tin	380	U	ug/L	38 / 380	4/17/21 12:48	4/18/21 14:05	EPA 200.7
7440-32-6	Titanium	120	U	ug/L	15 / 120	4/17/21 12:48	4/18/21 14:05	EPA 200.7
7440-61-1	Uranium	3.0		ug/L	0.42 / 2.0	4/17/21 12:52	4/18/21 20:24	EPA 200.8
7440-62-2	Vanadium	55	J, Q-2	ug/L	47 / 120	4/17/21 12:48	4/18/21 14:05	EPA 200.7
7440-66-6	Zinc	250	U	ug/L	26 / 250	4/17/21 12:48	4/18/21 14:05	EPA 200.7

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0221
Project: 21-0221, Piney Point - Phase 2 - Reported by Floyd Wellborn

Total Metals

Project: 21-0221, Piney Point - Phase 2

Sample ID: Piney 17 **Lab ID:** E211615-08

Station ID: **Matrix:** Water

Date Collected: 4/16/21 10:55

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	18	J, Q-2	ug/L	14 / 40	4/17/21 12:52	4/18/21 17:43	EPA 200.8
7440-36-0	Antimony	2.0	U, J, QI-1	ug/L	0.48 / 2.0	4/17/21 12:52	4/18/21 17:43	EPA 200.8
7440-38-2	Arsenic	3.1	J, QI-1	ug/L	1.3 / 2.0	4/17/21 12:52	4/18/21 17:43	EPA 200.8
7440-41-7	Beryllium	1.0	U	ug/L	0.33 / 1.0	4/17/21 12:52	4/18/21 17:43	EPA 200.8
7440-42-8	Boron	3100		ug/L	120 / 1200	4/17/21 12:48	4/18/21 14:08	EPA 200.7
7440-43-9	Cadmium	1.0	U, J, QI-1	ug/L	0.37 / 1.0	4/17/21 12:52	4/18/21 17:43	EPA 200.8
7440-70-2	Calcium	290000		ug/L	2100 / 6200	4/17/21 12:48	4/18/21 14:08	EPA 200.7
7440-47-3	Chromium	4.0	U	ug/L	2.4 / 4.0	4/17/21 12:52	4/18/21 17:43	EPA 200.8
7440-48-4	Cobalt	2.0	U, J, QI-1	ug/L	0.65 / 2.0	4/17/21 12:52	4/18/21 17:43	EPA 200.8
7440-50-8	Copper	2.0	J, QI-1	ug/L	0.95 / 2.0	4/17/21 12:52	4/18/21 17:43	EPA 200.8
7439-89-6	Iron	2500	U	ug/L	970 / 2500	4/17/21 12:48	4/18/21 14:08	EPA 200.7
7439-92-1	Lead	5.0	U	ug/L	0.63 / 5.0	4/17/21 12:52	4/18/21 17:50	EPA 200.8
7439-95-4	Magnesium	890000		ug/L	1500 / 6200	4/17/21 12:48	4/18/21 14:08	EPA 200.7
7439-96-5	Manganese	120	U	ug/L	22 / 120	4/17/21 12:48	4/18/21 14:08	EPA 200.7
7439-98-7	Molybdenum	11		ug/L	2.2 / 5.0	4/17/21 12:52	4/18/21 17:50	EPA 200.8
7440-02-0	Nickel	2.0	U, J, QI-1	ug/L	1.3 / 2.0	4/17/21 12:52	4/18/21 17:43	EPA 200.8
7440-09-7	Potassium	260000		ug/L	2100 / 25000	4/17/21 12:48	4/18/21 14:08	EPA 200.7
7782-49-2	Selenium	6.7	J, QI-1	ug/L	3.2 / 4.0	4/17/21 12:52	4/18/21 17:43	EPA 200.8
7440-22-4	Silver	1.0	U, J, QI-1	ug/L	0.20 / 1.0	4/17/21 12:52	4/18/21 17:43	EPA 200.8
7440-23-5	Sodium	7100000		ug/L	2600 / 25000	4/17/21 12:48	4/18/21 14:08	EPA 200.7
7440-24-6	Strontium	5200		ug/L	41 / 120	4/17/21 12:48	4/18/21 14:08	EPA 200.7
7440-28-0	Thallium	2.0	U, J, QI-1	ug/L	0.24 / 2.0	4/17/21 12:52	4/18/21 17:43	EPA 200.8
7440-31-5	Tin	380	U	ug/L	38 / 380	4/17/21 12:48	4/18/21 14:08	EPA 200.7
7440-32-6	Titanium	120	U	ug/L	15 / 120	4/17/21 12:48	4/18/21 14:08	EPA 200.7
7440-61-1	Uranium	3.1		ug/L	0.42 / 2.0	4/17/21 12:52	4/18/21 20:31	EPA 200.8
7440-62-2	Vanadium	69	J, Q-2	ug/L	47 / 120	4/17/21 12:48	4/18/21 14:08	EPA 200.7
7440-66-6	Zinc	250	U	ug/L	26 / 250	4/17/21 12:48	4/18/21 14:08	EPA 200.7

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0221
Project: 21-0221, Piney Point - Phase 2 - Reported by Floyd Wellborn

Total Metals

Project: 21-0221, Piney Point - Phase 2

Sample ID: Piney 18 **Lab ID:** E211615-09

Station ID: **Matrix:** Water

Date Collected: 4/16/21 12:20

CAS Number	Analyte	Results	Qualifiers	Units	MDL / MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	210		ug/L	14 / 40	4/17/21 12:52	4/18/21 17:57	EPA 200.8
7440-36-0	Antimony	2.0	U, J, QI-1	ug/L	0.48 / 2.0	4/17/21 12:52	4/18/21 17:57	EPA 200.8
7440-38-2	Arsenic	3.9	J, QI-1	ug/L	1.3 / 2.0	4/17/21 12:52	4/18/21 17:57	EPA 200.8
7440-41-7	Beryllium	1.0	U	ug/L	0.33 / 1.0	4/17/21 12:52	4/18/21 17:57	EPA 200.8
7440-42-8	Boron	2900		ug/L	120 / 1200	4/17/21 12:48	4/18/21 14:12	EPA 200.7
7440-43-9	Cadmium	1.0	U, J, QI-1	ug/L	0.37 / 1.0	4/17/21 12:52	4/18/21 17:57	EPA 200.8
7440-70-2	Calcium	280000		ug/L	2100 / 6200	4/17/21 12:48	4/18/21 14:12	EPA 200.7
7440-47-3	Chromium	4.0	U	ug/L	2.4 / 4.0	4/17/21 12:52	4/18/21 17:57	EPA 200.8
7440-48-4	Cobalt	2.0	U, J, QI-1	ug/L	0.65 / 2.0	4/17/21 12:52	4/18/21 17:57	EPA 200.8
7440-50-8	Copper	2.7	J, QI-1	ug/L	0.95 / 2.0	4/17/21 12:52	4/18/21 17:57	EPA 200.8
7439-89-6	Iron	2500	U	ug/L	970 / 2500	4/17/21 12:48	4/18/21 14:12	EPA 200.7
7439-92-1	Lead	5.0	U	ug/L	0.63 / 5.0	4/17/21 12:52	4/18/21 18:05	EPA 200.8
7439-95-4	Magnesium	820000		ug/L	1500 / 6200	4/17/21 12:48	4/18/21 14:12	EPA 200.7
7439-96-5	Manganese	120	U	ug/L	22 / 120	4/17/21 12:48	4/18/21 14:12	EPA 200.7
7439-98-7	Molybdenum	10		ug/L	2.2 / 5.0	4/17/21 12:52	4/18/21 18:05	EPA 200.8
7440-02-0	Nickel	2.0	U, J, QI-1	ug/L	1.3 / 2.0	4/17/21 12:52	4/18/21 17:57	EPA 200.8
7440-09-7	Potassium	240000		ug/L	2100 / 25000	4/17/21 12:48	4/18/21 14:12	EPA 200.7
7782-49-2	Selenium	8.3	J, QI-1	ug/L	3.2 / 4.0	4/17/21 12:52	4/18/21 17:57	EPA 200.8
7440-22-4	Silver	1.0	U, J, QI-1	ug/L	0.20 / 1.0	4/17/21 12:52	4/18/21 17:57	EPA 200.8
7440-23-5	Sodium	6500000		ug/L	2600 / 25000	4/17/21 12:48	4/18/21 14:12	EPA 200.7
7440-24-6	Strontium	5000		ug/L	41 / 120	4/17/21 12:48	4/18/21 14:12	EPA 200.7
7440-28-0	Thallium	2.0	U, J, QI-1	ug/L	0.24 / 2.0	4/17/21 12:52	4/18/21 17:57	EPA 200.8
7440-31-5	Tin	380	U	ug/L	38 / 380	4/17/21 12:48	4/18/21 14:12	EPA 200.7
7440-32-6	Titanium	120	U	ug/L	15 / 120	4/17/21 12:48	4/18/21 14:12	EPA 200.7
7440-61-1	Uranium	2.6		ug/L	0.42 / 2.0	4/17/21 12:52	4/18/21 20:38	EPA 200.8
7440-62-2	Vanadium	60	J, Q-2	ug/L	47 / 120	4/17/21 12:48	4/18/21 14:12	EPA 200.7
7440-66-6	Zinc	250	U	ug/L	26 / 250	4/17/21 12:48	4/18/21 14:12	EPA 200.7

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0221
Project: 21-0221, Piney Point - Phase 2 - Reported by Floyd Wellborn

Total Metals (TMTL) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2104057 - M 200.2 Metals Water										
Blank (2104057-BLK1)				Prepared: 04/15/21 Analyzed: 04/16/21						
EPA 200.7										
Boron	5.4849	50	ug/L							
Calcium	119.70	250	"							
Iron	U	100	"							U
Magnesium	U	250	"							U
Manganese	U	5.0	"							U
Potassium	U	1000	"							U
Sodium	112.41	1000	"							
Strontium	U	5.0	"							U
Tin	U	15	"							U
Titanium	U	5.0	"							U
Vanadium	U	5.0	"							U
Zinc	U	10	"							U
LCS (2104057-BS1)				Prepared: 04/15/21 Analyzed: 04/16/21						
EPA 200.7										
Boron	483.09	50	ug/L	500.00		96.6	85-115			
Calcium	5110.6	250	"	5000.0		102	85-115			
Iron	5149.6	100	"	5000.0		103	85-115			
Magnesium	5179.8	250	"	5000.0		104	85-115			
Manganese	509.80	5.0	"	500.00		102	85-115			
Potassium	9642.9	1000	"	10000		96.4	85-115			
Sodium	9987.0	1000	"	10000		99.9	85-115			
Strontium	99.797	5.0	"	100.00		99.8	85-115			
Tin	94.668	15	"	100.00		94.7	85-115			
Titanium	98.656	5.0	"	100.00		98.7	85-115			
Vanadium	90.880	5.0	"	100.00		90.9	85-115			
Zinc	193.04	10	"	200.00		96.5	85-115			
Matrix Spike (2104057-MS1)		**Source: E211612-02**		Prepared: 04/15/21 Analyzed: 04/16/21						
EPA 200.7										
Boron	3692.2	1200	ug/L	500.00	3362.3	66.0	70-130			QM-1
Calcium	306870	6200	"	5000.0	309080	-44.1	70-130			XM-1
Iron	4226.7	2500	"	5000.0	U	84.5	70-130			
Magnesium	942360	6200	"	5000.0	953460	-222	70-130			XM-1
Manganese	404.54	120	"	500.00	U	80.9	70-130			
Potassium	286890	25000	"	10000	286090	8.06	70-130			XM-1
Sodium	7632500	25000	"	10000	7722900	-904	70-130			XM-1
Strontium	5483.9	120	"	100.00	5528.4	-44.5	70-130			XM-1

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0221
Project: 21-0221, Piney Point - Phase 2 - Reported by Floyd Wellborn

Total Metals (TMTL) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2104057 - M 200.2 Metals Water										
Matrix Spike (2104057-MS1)		**Source: E211612-02**		Prepared: 04/15/21 Analyzed: 04/16/21						
Tin	96.369	380	ug/L	100.00	U	96.4	70-130			
Titanium	67.850	120	"	100.00	U	67.8	70-130			QM-1
Vanadium	57.716	120	"	100.00	U	57.7	70-130			QM-1
Zinc	112.75	250	"	200.00	U	56.4	70-130			QM-1
Matrix Spike Dup (2104057-MSD1)		**Source: E211612-02**		Prepared: 04/15/21 Analyzed: 04/16/21						
EPA 200.7										
Boron	3676.4	1200	ug/L	500.00	3362.3	62.8	70-130	0.430	20	QM-1
Calcium	308850	6200	"	5000.0	309080	-4.42	70-130	0.644	20	XM-1
Iron	4100.1	2500	"	5000.0	U	82.0	70-130	3.04	20	
Magnesium	939850	6200	"	5000.0	953460	-272	70-130	0.267	20	XM-1
Manganese	397.72	120	"	500.00	U	79.5	70-130	1.70	20	
Potassium	285710	25000	"	10000	286090	-3.79	70-130	0.414	20	XM-1
Sodium	7566400	25000	"	10000	7722900	-1560	70-130	0.869	20	XM-1
Strontium	5498.0	120	"	100.00	5528.4	-30.4	70-130	0.257	20	XM-1
Tin	88.258	380	"	100.00	U	88.3	70-130	8.79	20	
Titanium	68.777	120	"	100.00	U	68.8	70-130	1.36	20	QM-1
Vanadium	U	120	"	100.00	U		70-130		20	QM-1, U
Zinc	107.30	250	"	200.00	U	53.6	70-130	4.96	20	QM-1
MRL Verification (2104057-PS1)				Prepared: 04/15/21 Analyzed: 04/16/21						
EPA 200.7										
Boron	48.517	50	ug/L	50.000		97.0	70-130			MRL-2
Calcium	272.91	250	"	250.00		109	70-130			MRL-2
Iron	102.97	100	"	100.00		103	70-130			MRL-2
Magnesium	251.82	250	"	250.00		101	70-130			MRL-2
Manganese	5.1054	5.0	"	5.0000		102	70-130			MRL-2
Potassium	985.51	1000	"	1000.0		98.6	70-130			MRL-2
Sodium	984.98	1000	"	1000.0		98.5	70-130			MRL-2
Strontium	5.1979	5.0	"	5.0000		104	70-130			MRL-2
Tin	13.434	15	"	15.000		89.6	70-130			MRL-2
Titanium	5.0370	5.0	"	5.0000		101	70-130			MRL-2
Vanadium	2.4107	5.0	"	5.0000		48.2	70-130			MRL-2, QR-1
Zinc	9.7465	10	"	10.000		97.5	70-130			MRL-2

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2104058 - M 200.2 Metals Water										
Blank (2104058-BLK1)				Prepared: 04/15/21 Analyzed: 04/16/21						
EPA 200.8										
Aluminum	51.169	10	ug/L							B-4
Antimony	U	0.50	"							U
Arsenic	U	0.50	"							U
Beryllium	U	0.25	"							U
Cadmium	U	0.25	"							U
Chromium	U	1.0	"							U
Cobalt	U	0.50	"							U
Copper	U	0.50	"							U
Lead	U	0.50	"							U
Molybdenum	U	0.50	"							U
Nickel	U	0.50	"							U
Selenium	U	1.0	"							U
Silver	U	0.25	"							U
Thallium	U	0.50	"							U
Uranium	U	0.50	"							U
Blank (2104058-BLK2)				Prepared: 04/15/21 Analyzed: 04/17/21						
EPA 200.8										
Aluminum	51.922		ug/L	0.0000						B-3
Antimony	0.042060		"	0.0000						
Arsenic	0.11369		"	0.0000						
Beryllium	0.0034750		"	0.0000						
Cadmium	-0.0075900		"	0.0000						U
Chromium	0.062179		"	0.0000						
Cobalt	0.0023670		"	0.0000						
Copper	-0.00037200		"	0.0000						U
Lead	0.011700		"	0.0000						
Molybdenum	0.11298		"	0.0000						
Nickel	0.010346		"	0.0000						
Selenium	-0.043729		"	0.0000						U
Silver	0.0025730		"	0.0000						
Thallium	0.0046740		"	0.0000						
Uranium	0.0023650		"	0.0000						

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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0221
Project: 21-0221, Piney Point - Phase 2 - Reported by Floyd Wellborn

Total Metals (TMTL) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2104058 - M 200.2 Metals Water										
LCS (2104058-BS1)				Prepared: 04/15/21 Analyzed: 04/16/21						
EPA 200.8										
Aluminum	5270.5	40	ug/L	5000.0		105	85-115			
Antimony	196.32	2.0	"	200.00		98.2	85-115			
Arsenic	207.23	2.0	"	200.00		104	85-115			
Beryllium	50.516	1.0	"	50.000		101	85-115			
Cadmium	50.864	1.0	"	50.000		102	85-115			
Chromium	203.17	4.0	"	200.00		102	85-115			
Cobalt	101.06	2.0	"	100.00		101	85-115			
Copper	106.49	2.0	"	100.00		106	85-115			
Lead	211.68	2.0	"	200.00		106	85-115			
Molybdenum	98.427	2.0	"	100.00		98.4	85-115			
Nickel	205.18	2.0	"	200.00		103	85-115			
Selenium	209.02	4.0	"	200.00		105	85-115			
Silver	105.04	1.0	"	100.00		105	85-115			
Thallium	207.36	2.0	"	200.00		104	85-115			
Uranium	203.83	2.0	"	200.00		102	85-115			
LCS (2104058-BS2)				Prepared: 04/15/21 Analyzed: 04/17/21						
EPA 200.8										
Aluminum	5312.1	200	ug/L	5000.0		106	85-115			
Antimony	192.41	10	"	200.00		96.2	85-115			
Arsenic	197.57	10	"	200.00		98.8	85-115			
Beryllium	49.814	5.0	"	50.000		99.6	85-115			
Cadmium	49.544	5.0	"	50.000		99.1	85-115			
Chromium	201.30	20	"	200.00		101	85-115			
Cobalt	98.969	10	"	100.00		99.0	85-115			
Copper	104.10	10	"	100.00		104	85-115			
Lead	206.47	10	"	200.00		103	85-115			
Molybdenum	93.214	10	"	100.00		93.2	85-115			
Nickel	200.34	10	"	200.00		100	85-115			
Selenium	206.90	20	"	200.00		103	85-115			
Silver	101.47	5.0	"	100.00		101	85-115			
Thallium	199.81	10	"	200.00		99.9	85-115			
Uranium	194.45	10	"	200.00		97.2	85-115			

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2104058 - M 200.2 Metals Water										
Matrix Spike (2104058-MS1)		**Source: E211612-02**		Prepared: 04/15/21 Analyzed: 04/16/21						
EPA 200.8										
Aluminum	4606.8	40	ug/L	5000.0	65.134	90.8	70-130			
Antimony	169.64	2.0	"	200.00	U	84.8	70-130			
Arsenic	166.59	2.0	"	200.00	2.9027	81.8	70-130			
Beryllium	44.946	1.0	"	50.000	U	89.9	70-130			
Cadmium	37.363	1.0	"	50.000	U	74.7	70-130			
Chromium	184.57	4.0	"	200.00	U	92.3	70-130			
Cobalt	91.797	2.0	"	100.00	U	91.8	70-130			
Copper	81.120	2.0	"	100.00	1.6927	79.4	70-130			
Lead	170.65	2.0	"	200.00	0.39302	85.1	70-130			
Molybdenum	118.99	2.0	"	100.00	11.994	107	70-130			
Nickel	162.07	2.0	"	200.00	U	81.0	70-130			
Selenium	159.81	4.0	"	200.00	7.5779	76.1	70-130			
Silver	70.002	1.0	"	100.00	U	70.0	70-130			
Thallium	180.59	2.0	"	200.00	U	90.3	70-130			
Uranium	213.03	2.0	"	200.00	3.7096	105	70-130			
Matrix Spike (2104058-MS2)		**Source: E211612-02RE1**		Prepared: 04/15/21 Analyzed: 04/17/21						
EPA 200.8										
Aluminum	5051.6	200	ug/L	5000.0	80.753	99.4	70-130			
Antimony	182.04	10	"	200.00	U	91.0	70-130			
Arsenic	200.21	10	"	200.00	U	100	70-130			
Beryllium	46.143	5.0	"	50.000	U	92.3	70-130			
Cadmium	42.584	5.0	"	50.000	U	85.2	70-130			
Chromium	188.78	20	"	200.00	U	94.4	70-130			
Cobalt	100.35	10	"	100.00	U	100	70-130			
Copper	92.098	10	"	100.00	U	92.1	70-130			
Lead	173.15	10	"	200.00	U	86.6	70-130			
Molybdenum	112.48	10	"	100.00	12.699	99.8	70-130			
Nickel	187.76	10	"	200.00	U	93.9	70-130			
Selenium	198.94	20	"	200.00	U	99.5	70-130			
Silver	85.064	5.0	"	100.00	U	85.1	70-130			
Thallium	174.78	10	"	200.00	U	87.4	70-130			
Uranium	196.01	10	"	200.00	3.3542	96.3	70-130			

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0221
Project: 21-0221, Piney Point - Phase 2 - Reported by Floyd Wellborn

Total Metals (TMTL) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2104058 - M 200.2 Metals Water										
Matrix Spike Dup (2104058-MSD1)		**Source: E211612-02**		Prepared: 04/15/21 Analyzed: 04/16/21						
EPA 200.8										
Aluminum	4561.0	40	ug/L	5000.0	65.134	89.9	70-130	0.998	20	
Antimony	170.44	2.0	"	200.00	U	85.2	70-130	0.472	20	
Arsenic	164.63	2.0	"	200.00	2.9027	80.9	70-130	1.18	20	
Beryllium	43.744	1.0	"	50.000	U	87.5	70-130	2.71	20	
Cadmium	38.908	1.0	"	50.000	U	77.8	70-130	4.05	20	
Chromium	185.09	4.0	"	200.00	U	92.5	70-130	0.282	20	
Cobalt	92.637	2.0	"	100.00	U	92.6	70-130	0.912	20	
Copper	82.278	2.0	"	100.00	1.6927	80.6	70-130	1.42	20	
Lead	167.73	2.0	"	200.00	0.39302	83.7	70-130	1.73	20	
Molybdenum	120.89	2.0	"	100.00	11.994	109	70-130	1.58	20	
Nickel	165.08	2.0	"	200.00	U	82.5	70-130	1.84	20	
Selenium	164.99	4.0	"	200.00	7.5779	78.7	70-130	3.19	20	
Silver	71.849	1.0	"	100.00	U	71.8	70-130	2.60	20	
Thallium	177.78	2.0	"	200.00	U	88.9	70-130	1.57	20	
Uranium	204.75	2.0	"	200.00	3.7096	101	70-130	3.97	20	
Matrix Spike Dup (2104058-MSD2)		**Source: E211612-02RE1**		Prepared: 04/15/21 Analyzed: 04/17/21						
EPA 200.8										
Aluminum	5020.1	200	ug/L	5000.0	80.753	98.8	70-130	0.625	20	
Antimony	192.26	10	"	200.00	U	96.1	70-130	5.46	20	
Arsenic	191.14	10	"	200.00	U	95.6	70-130	4.63	20	
Beryllium	45.208	5.0	"	50.000	U	90.4	70-130	2.05	20	
Cadmium	42.927	5.0	"	50.000	U	85.9	70-130	0.803	20	
Chromium	187.00	20	"	200.00	U	93.5	70-130	0.948	20	
Cobalt	99.415	10	"	100.00	U	99.4	70-130	0.935	20	
Copper	91.391	10	"	100.00	U	91.4	70-130	0.771	20	
Lead	178.32	10	"	200.00	U	89.2	70-130	2.94	20	
Molybdenum	113.78	10	"	100.00	12.699	101	70-130	1.15	20	
Nickel	184.52	10	"	200.00	U	92.3	70-130	1.74	20	
Selenium	201.62	20	"	200.00	U	101	70-130	1.33	20	
Silver	86.078	5.0	"	100.00	U	86.1	70-130	1.18	20	
Thallium	177.78	10	"	200.00	U	88.9	70-130	1.70	20	
Uranium	200.20	10	"	200.00	3.3542	98.4	70-130	2.12	20	

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2104058 - M 200.2 Metals Water										
MRL Verification (2104058-PS1)				Prepared: 04/15/21 Analyzed: 04/16/21						
EPA 200.8										
Aluminum	27.746	10	ug/L	20.000		139	65-135			MRL-2
Antimony	0.49566	0.50	"	0.50000		99.1	65-135			MRL-2
Arsenic	1.0795	0.50	"	1.0000		108	65-135			MRL-2
Beryllium	0.54221	0.25	"	0.50000		108	65-135			MRL-2
Cadmium	0.49932	0.25	"	0.50000		99.9	65-135			MRL-2
Chromium	2.0853	1.0	"	2.0000		104	65-135			MRL-2
Cobalt	1.0136	0.50	"	1.0000		101	65-135			MRL-2
Copper	1.0429	0.50	"	1.0000		104	65-135			MRL-2
Lead	1.0765	0.50	"	1.0000		108	65-135			MRL-2
Molybdenum	0.49780	0.50	"	0.50000		99.6	65-135			MRL-2
Nickel	1.0276	0.50	"	1.0000		103	65-135			MRL-2
Selenium	2.3055	1.0	"	2.0000		115	65-135			MRL-2
Silver	0.51217	0.25	"	0.50000		102	65-135			MRL-2
Thallium	0.51835	0.50	"	0.50000		104	65-135			MRL-2
Uranium	1.0196	0.50	"	1.0000		102	65-135			MRL-2
MRL Verification (2104058-PS2)				Prepared: 04/15/21 Analyzed: 04/17/21						
EPA 200.8										
Aluminum	27.919		ug/L	0.0000			65-135			MRL-2, QR-2
Antimony	0.49696		"	0.0000			65-135			MRL-2
Arsenic	1.0336		"	0.0000			65-135			MRL-2
Beryllium	0.54095		"	0.0000			65-135			MRL-2
Cadmium	0.52019		"	0.0000			65-135			MRL-2
Chromium	2.1045		"	0.0000			65-135			MRL-2
Cobalt	1.0115		"	0.0000			65-135			MRL-2
Copper	1.0443		"	0.0000			65-135			MRL-2
Lead	1.0338		"	0.0000			65-135			MRL-2
Molybdenum	0.50699		"	0.0000			65-135			MRL-2
Nickel	1.0882		"	0.0000			65-135			MRL-2
Selenium	2.1540		"	0.0000			65-135			MRL-2
Silver	0.49766		"	0.0000			65-135			MRL-2
Thallium	0.49760		"	0.0000			65-135			MRL-2
Uranium	0.98276		"	0.0000			65-135			MRL-2

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0221
Project: 21-0221, Piney Point - Phase 2 - Reported by Floyd Wellborn

Total Metals (TMTL) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2104078 - M 200.2 Metals Water										
Blank (2104078-BLK1)				Prepared: 04/17/21 Analyzed: 04/18/21						
EPA 200.7										
Boron	U	50	ug/L							U
Calcium	U	250	"							U
Iron	U	100	"							U
Magnesium	U	250	"							U
Manganese	U	5.0	"							U
Potassium	U	1000	"							U
Sodium	U	1000	"							U
Strontium	U	5.0	"							U
Tin	U	15	"							U
Titanium	U	5.0	"							U
Vanadium	U	5.0	"							U
Zinc	U	10	"							U
LCS (2104078-BS1)				Prepared: 04/17/21 Analyzed: 04/18/21						
EPA 200.7										
Boron	481.34	50	ug/L	500.00		96.3	85-115			
Calcium	4989.2	250	"	5000.0		99.8	85-115			
Iron	5230.5	100	"	5000.0		105	85-115			
Magnesium	5148.3	250	"	5000.0		103	85-115			
Manganese	505.71	5.0	"	500.00		101	85-115			
Potassium	9614.4	1000	"	10000		96.1	85-115			
Sodium	9985.3	1000	"	10000		99.9	85-115			
Strontium	98.959	5.0	"	100.00		99.0	85-115			
Tin	96.462	15	"	100.00		96.5	85-115			
Titanium	98.908	5.0	"	100.00		98.9	85-115			
Vanadium	94.856	5.0	"	100.00		94.9	85-115			
Zinc	196.73	10	"	200.00		98.4	85-115			
Matrix Spike (2104078-MS1)		**Source: E211615-03**		Prepared: 04/17/21 Analyzed: 04/18/21						
EPA 200.7										
Boron	3544.7	1200	ug/L	500.00	3184.3	72.1	70-130			QM-3
Calcium	293140	6200	"	5000.0	286500	133	70-130			QM-3, XM-1
Iron	4137.0	2500	"	5000.0	U	82.7	70-130			QM-3
Magnesium	900440	6200	"	5000.0	889960	210	70-130			QM-3, XM-1
Manganese	388.19	120	"	500.00	U	77.6	70-130			QM-3
Potassium	269620	25000	"	10000	263610	60.1	70-130			QM-3, XM-1

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0221
Project: 21-0221, Piney Point - Phase 2 - Reported by Floyd Wellborn

Total Metals (TMTL) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2104078 - M 200.2 Metals Water										
Matrix Spike (2104078-MS1)		**Source: E211615-03**		Prepared: 04/17/21 Analyzed: 04/18/21						
Sodium	7241200	25000	ug/L	10000	7123000	1180	70-130			QM-3, XM-1
Strontium	5265.7	120	"	100.00	5164.4	101	70-130			QM-3, XM-1
Tin	95.840	380	"	100.00	U	95.8	70-130			QM-3
Titanium	69.804	120	"	100.00	U	69.8	70-130			QM-1
Vanadium	113.54	120	"	100.00	57.870	55.7	70-130			QM-1, QM-3
Zinc	103.18	250	"	200.00	U	51.6	70-130			QM-1, QM-3
Matrix Spike Dup (2104078-MSD1)		**Source: E211615-03**		Prepared: 04/17/21 Analyzed: 04/18/21						
EPA 200.7										
Boron	4592.6	1200	ug/L	500.00	3184.3	282	70-130	25.8	20	QM-2, QM-3
Calcium	375280	6200	"	5000.0	286500	1780	70-130	24.6	20	QM-3, XM-1
Iron	5157.9	2500	"	5000.0	U	103	70-130	22.0	20	QM-3
Magnesium	1147300	6200	"	5000.0	889960	5150	70-130	24.1	20	QM-3, XM-1
Manganese	487.93	120	"	500.00	U	97.6	70-130	22.8	20	QM-3
Potassium	346300	25000	"	10000	263610	827	70-130	24.9	20	QM-3, XM-1
Sodium	9189800	25000	"	10000	7123000	20700	70-130	23.7	20	QM-3, XM-1
Strontium	6776.2	120	"	100.00	5164.4	1610	70-130	25.1	20	QM-3, XM-1
Tin	141.82	380	"	100.00	U	142	70-130	38.7	20	QM-2, QM-3
Titanium	83.714	120	"	100.00	U	83.7	70-130	18.1	20	
Vanadium	170.86	120	"	100.00	57.870	113	70-130	40.3	20	QM-3
Zinc	130.16	250	"	200.00	U	65.1	70-130	23.1	20	QM-1, QM-3
MRL Verification (2104078-PS1)				Prepared: 04/17/21 Analyzed: 04/18/21						
EPA 200.7										
Boron	50.083	50	ug/L	50.000		100	70-130			MRL-2
Calcium	252.55	250	"	250.00		101	70-130			MRL-2
Iron	104.89	100	"	100.00		105	70-130			MRL-2
Magnesium	247.00	250	"	250.00		98.8	70-130			MRL-2
Manganese	5.1274	5.0	"	5.0000		103	70-130			MRL-2
Potassium	933.07	1000	"	1000.0		93.3	70-130			MRL-2
Sodium	986.72	1000	"	1000.0		98.7	70-130			MRL-2
Strontium	4.9918	5.0	"	5.0000		99.8	70-130			MRL-2

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2104078 - M 200.2 Metals Water										
MRL Verification (2104078-PS1)				Prepared: 04/17/21 Analyzed: 04/18/21						
Tin	14.082	15	ug/L	15.000		93.9	70-130			MRL-2
Titanium	5.1508	5.0	"	5.0000		103	70-130			MRL-2
Vanadium	5.2064	5.0	"	5.0000		104	70-130			MRL-2
Zinc	9.9203	10	"	10.000		99.2	70-130			MRL-2
Batch 2104079 - M 200.2 Metals Water										
Blank (2104079-BLK1)				Prepared: 04/17/21 Analyzed: 04/18/21						
EPA 200.8										
Aluminum	16.164	10	ug/L							B-4
Antimony	U	0.50	"							U
Arsenic	U	0.50	"							U
Beryllium	U	0.25	"							U
Cadmium	U	0.25	"							U
Chromium	U	1.0	"							U
Cobalt	U	0.50	"							U
Copper	U	0.50	"							U
Lead	U	0.50	"							U
Molybdenum	U	0.50	"							U
Nickel	U	0.50	"							U
Selenium	U	1.0	"							U
Silver	U	0.25	"							U
Thallium	U	0.50	"							U
Uranium	U	0.50	"							U
Blank (2104079-BLK2)				Prepared: 04/17/21 Analyzed: 04/18/21						
EPA 200.8										
Uranium	U	0.50	ug/L							U

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0221
Project: 21-0221, Piney Point - Phase 2 - Reported by Floyd Wellborn

Total Metals (TMTL) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2104079 - M 200.2 Metals Water										
LCS (2104079-BS1)				Prepared: 04/17/21 Analyzed: 04/18/21						
EPA 200.8										
Aluminum	5309.0	40	ug/L	5000.0		106	85-115			
Antimony	190.98	2.0	"	200.00		95.5	85-115			
Arsenic	201.01	2.0	"	200.00		101	85-115			
Beryllium	49.776	1.0	"	50.000		99.6	85-115			
Cadmium	48.930	1.0	"	50.000		97.9	85-115			
Chromium	205.17	4.0	"	200.00		103	85-115			
Cobalt	104.29	2.0	"	100.00		104	85-115			
Copper	108.20	2.0	"	100.00		108	85-115			
Lead	207.37	2.0	"	200.00		104	85-115			
Molybdenum	97.339	2.0	"	100.00		97.3	85-115			
Nickel	210.91	2.0	"	200.00		105	85-115			
Selenium	204.10	4.0	"	200.00		102	85-115			
Silver	101.40	1.0	"	100.00		101	85-115			
Thallium	199.85	2.0	"	200.00		99.9	85-115			
Uranium	197.54	2.0	"	200.00		98.8	85-115			
LCS (2104079-BS2)				Prepared: 04/17/21 Analyzed: 04/18/21						
EPA 200.8										
Aluminum	5204.6	100	ug/L	5000.0		104	85-115			
Antimony	187.18	5.0	"	200.00		93.6	85-115			
Arsenic	197.52	5.0	"	200.00		98.8	85-115			
Beryllium	48.808	2.5	"	50.000		97.6	85-115			
Cadmium	50.052	2.5	"	50.000		100	85-115			
Chromium	204.31	10	"	200.00		102	85-115			
Cobalt	101.36	5.0	"	100.00		101	85-115			
Copper	106.09	5.0	"	100.00		106	85-115			
Lead	205.96	5.0	"	200.00		103	85-115			
Molybdenum	95.565	5.0	"	100.00		95.6	85-115			
Nickel	205.63	5.0	"	200.00		103	85-115			
Selenium	191.09	10	"	200.00		95.5	85-115			
Silver	100.87	2.5	"	100.00		101	85-115			
Thallium	199.61	5.0	"	200.00		99.8	85-115			
Uranium	196.43	5.0	"	200.00		98.2	85-115			

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2104079 - M 200.2 Metals Water										
Matrix Spike (2104079-MS1)		**Source: E211615-03**		Prepared: 04/17/21 Analyzed: 04/18/21						
EPA 200.8										
Aluminum	4447.6	40	ug/L	5000.0	41.322	88.1	70-130			
Antimony	161.41	2.0	"	200.00	U	80.7	70-130			QI-1
Arsenic	159.48	2.0	"	200.00	3.3209	78.1	70-130			QI-1
Beryllium	40.421	1.0	"	50.000	U	80.8	70-130			
Cadmium	37.603	1.0	"	50.000	U	75.2	70-130			QI-1
Chromium	180.33	4.0	"	200.00	U	90.2	70-130			
Cobalt	94.294	2.0	"	100.00	U	94.3	70-130			QI-1
Copper	81.708	2.0	"	100.00	1.5651	80.1	70-130			QI-1
Lead	154.17	2.0	"	200.00	U	77.1	70-130			
Molybdenum	116.43	2.0	"	100.00	11.656	105	70-130			QI-1
Nickel	168.34	2.0	"	200.00	U	84.2	70-130			QI-1
Selenium	175.37	4.0	"	200.00	6.0357	84.7	70-130			QI-1
Silver	67.922	1.0	"	100.00	U	67.9	70-130			QI-1, QM-1
Thallium	161.69	2.0	"	200.00	U	80.8	70-130			
Uranium	178.93	2.0	"	200.00	2.9554	88.0	70-130			
Matrix Spike (2104079-MS2)		**Source: E211615-03**		Prepared: 04/17/21 Analyzed: 04/18/21						
EPA 200.8										
Aluminum	4676.4	100	ug/L	5000.0	41.322	92.7	70-130			
Antimony	171.61	5.0	"	200.00	U	85.8	70-130			
Arsenic	183.75	5.0	"	200.00	3.3209	90.2	70-130			
Beryllium	42.184	2.5	"	50.000	U	84.4	70-130			
Cadmium	41.155	2.5	"	50.000	U	82.3	70-130			
Chromium	185.23	10	"	200.00	U	92.6	70-130			
Cobalt	98.756	5.0	"	100.00	U	98.8	70-130			
Copper	91.079	5.0	"	100.00	U	91.1	70-130			
Lead	160.87	5.0	"	200.00	U	80.4	70-130			
Molybdenum	119.83	5.0	"	100.00	11.656	108	70-130			
Nickel	182.20	5.0	"	200.00	U	91.1	70-130			
Selenium	175.28	10	"	200.00	U	87.6	70-130			
Silver	78.184	2.5	"	100.00	U	78.2	70-130			
Thallium	164.72	5.0	"	200.00	U	82.4	70-130			
Uranium	174.56	5.0	"	200.00	2.9554	85.8	70-130			

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0221
Project: 21-0221, Piney Point - Phase 2 - Reported by Floyd Wellborn

Total Metals (TMTL) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2104079 - M 200.2 Metals Water										
Matrix Spike Dup (2104079-MSD1)		**Source: E211615-03**		Prepared: 04/17/21 Analyzed: 04/18/21						
EPA 200.8										
Aluminum	4459.2	40	ug/L	5000.0	41.322	88.4	70-130	0.262	20	
Antimony	166.87	2.0	"	200.00	U	83.4	70-130	3.33	20	QI-1
Arsenic	161.57	2.0	"	200.00	3.3209	79.1	70-130	1.31	20	QI-1
Beryllium	40.542	1.0	"	50.000	U	81.1	70-130	0.300	20	
Cadmium	37.181	1.0	"	50.000	U	74.4	70-130	1.13	20	QI-1
Chromium	182.08	4.0	"	200.00	U	91.0	70-130	0.966	20	
Cobalt	96.214	2.0	"	100.00	U	96.2	70-130	2.02	20	QI-1
Copper	84.143	2.0	"	100.00	1.5651	82.6	70-130	2.94	20	QI-1
Lead	153.99	2.0	"	200.00	U	77.0	70-130	0.115	20	
Molybdenum	118.99	2.0	"	100.00	11.656	107	70-130	2.18	20	QI-1
Nickel	171.44	2.0	"	200.00	U	85.7	70-130	1.83	20	QI-1
Selenium	182.51	4.0	"	200.00	6.0357	88.2	70-130	3.99	20	QI-1
Silver	68.872	1.0	"	100.00	U	68.9	70-130	1.39	20	QI-1, QM-1
Thallium	162.29	2.0	"	200.00	U	81.1	70-130	0.370	20	
Uranium	179.74	2.0	"	200.00	2.9554	88.4	70-130	0.450	20	
Matrix Spike Dup (2104079-MSD2)		**Source: E211615-03**		Prepared: 04/17/21 Analyzed: 04/18/21						
EPA 200.8										
Aluminum	4721.8	100	ug/L	5000.0	41.322	93.6	70-130	0.966	20	
Antimony	176.30	5.0	"	200.00	U	88.1	70-130	2.70	20	
Arsenic	178.70	5.0	"	200.00	3.3209	87.7	70-130	2.79	20	
Beryllium	43.048	2.5	"	50.000	U	86.1	70-130	2.03	20	
Cadmium	39.124	2.5	"	50.000	U	78.2	70-130	5.06	20	
Chromium	185.07	10	"	200.00	U	92.5	70-130	0.0893	20	
Cobalt	99.188	5.0	"	100.00	U	99.2	70-130	0.437	20	
Copper	89.910	5.0	"	100.00	U	89.9	70-130	1.29	20	
Lead	161.27	5.0	"	200.00	U	80.6	70-130	0.246	20	
Molybdenum	120.14	5.0	"	100.00	11.656	108	70-130	0.254	20	
Nickel	182.88	5.0	"	200.00	U	91.4	70-130	0.372	20	
Selenium	179.97	10	"	200.00	U	90.0	70-130	2.64	20	
Silver	78.160	2.5	"	100.00	U	78.2	70-130	0.0313	20	
Thallium	165.87	5.0	"	200.00	U	82.9	70-130	0.700	20	
Uranium	177.35	5.0	"	200.00	2.9554	87.2	70-130	1.59	20	

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Total Metals (TMTL) - Quality Control

US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2104079 - M 200.2 Metals Water										
MRL Verification (2104079-PS1)				Prepared: 04/17/21 Analyzed: 04/18/21						
EPA 200.8										
Aluminum	22.925	10	ug/L	20.000		115	65-135			MRL-2
Antimony	0.46053	0.50	"	0.50000		92.1	65-135			MRL-2
Arsenic	1.0305	0.50	"	1.0000		103	65-135			MRL-2
Beryllium	0.50539	0.25	"	0.50000		101	65-135			MRL-2
Cadmium	0.50692	0.25	"	0.50000		101	65-135			MRL-2
Chromium	2.0509	1.0	"	2.0000		103	65-135			MRL-2
Cobalt	1.0122	0.50	"	1.0000		101	65-135			MRL-2
Copper	1.0714	0.50	"	1.0000		107	65-135			MRL-2
Lead	1.0223	0.50	"	1.0000		102	65-135			MRL-2
Molybdenum	0.47987	0.50	"	0.50000		96.0	65-135			MRL-2
Nickel	1.0441	0.50	"	1.0000		104	65-135			MRL-2
Selenium	2.4387	1.0	"	2.0000		122	65-135			MRL-2
Silver	0.51640	0.25	"	0.50000		103	65-135			MRL-2
Thallium	0.50459	0.50	"	0.50000		101	65-135			MRL-2
Uranium	0.97908	0.50	"	1.0000		97.9	65-135			MRL-2
MRL Verification (2104079-PS2)				Prepared: 04/17/21 Analyzed: 04/18/21						
EPA 200.8										
Uranium	0.98871	0.50	ug/L	1.0000		98.9	65-135			MRL-2

Notes and Definitions for QC Samples

U	The analyte was not detected at or above the reporting limit.
B-3	Level in blank does not impact data quality
B-4	Level in blank impacts MRLs.
MRL-2	MRL verification for Non-Potable Water matrix
QI-1	Internal standard was outside of method control limits.
QM-1	Matrix Spike Recovery less than method control limits
QM-2	Matrix Spike Recovery greater than method control limits
QM-3	Matrix Spike Precision outside method control limits
QR-1	MRL verification recovery less than lower control limits.
QR-2	MRL verification recovery greater than upper control limits.
XM-1	Sample background/spike ratio higher than method evaluation criteria