



SITE CHARACTERIZATION, REMEDIATION AND CLOSURE REPORT

**COBALT RISER
UNIT G, SECTION 31, TOWNSHIP 24S, RANGE 34E
LEA COUNTY, NEW MEXICO
32.176232, -103.507151
RANGER REFERENCE NO. 5198**

PREPARED FOR:

**EOG RESOURCES, INC.
MIDLAND DIVISION
5509 CHAMPIONS DRIVE
MIDLAND, TEXAS 79706**

PREPARED BY:

**RANGER ENVIRONMENTAL SERVICES, INC.
P.O. BOX 201179
AUSTIN, TEXAS 78720**

MAY 26, 2022

A handwritten signature in blue ink, appearing to read "M. Cook", is positioned above a horizontal line.

**Max Cook, CAPM (TX)
Senior Project Manager**

A handwritten signature in blue ink, appearing to read "W. Kierdorf", is positioned above a horizontal line.

**William Kierdorf, REM
Project Manager**

TABLE OF CONTENTS

1.0	SITE LOCATION AND BACKGROUND	1
2.0	SITE CHARACTERIZATION.....	1
2.1	Depth-to-Groundwater	1
2.2	Wellhead Protection Area	2
2.3	Distance to Nearest Significant Watercourse	2
2.4	Closure Criteria.....	2
3.0	SITE REMEDIATION	2
3.1	March 29, 2022.....	2
3.2	April 9, 2022.....	3
3.3	May 4, 2022.....	4
3.4	Final Confirmation Sample Results	4
3.5	Waste Disposal.....	4
4.0	SITE CLOSURE	5
4.1	Site Backfill	5
4.2	Closure Request.....	5

FORM C-141**FIGURES**

- Topographic Map
- Area Map
- Water Well Location Map
- National Wetland Inventory Map
- Karst Topography Map
- Final Confirmation Soil Sample Location Map

TABLES

- Confirmation Soil Sample BTEX (EPA 8260), TPH (EPA 8015) & Chloride (EPA 300) Analytical Data

ATTACHMENTS

- Attachment 1 – Depth-to-Groundwater Data
- Attachment 2 – Photographic Documentation
- Attachment 3 – Laboratory Analytical Reports



**SITE CHARACTERIZATION, REMEDIATION AND CLOSURE REPORT
COBALT RISER
UNIT G, SECTION 31, TOWNSHIP 24S RANGE 34E
LEA COUNTY, NEW MEXICO
32.176232, -103.507151
RANGER REFERENCE NO. 5198**

1.0 SITE LOCATION AND BACKGROUND

On February 27, 2022, a release was discovered originating from the Cobalt Riser booster pump located approximately 25 miles west-northwest of Jal, within Lea County, New Mexico. The Site is situated in Unit G, Section 31, T24S-R34E at GPS coordinates 32.176232, -103.507151.

Due to gasket failures on the booster pump, approximately 153 barrels (bbls) of treated reuse water were released. Upon discovery, emergency vacuum trucks were dispatched to the location and were successful in recovering approximately 40 bbls of the released fluids. The incident was reported to the New Mexico Oil Conservation Division (NMOCD) (NMOCD Incident # nAPP2206048902).

EOG Resources, Inc. (EOG) engaged Ranger Environmental Services, Inc. (Ranger) to assist in the remediation efforts at the Site.

The following *Site Characterization, Remediation, and Closure Report* has been prepared to document the site characterization details of the site as well as the completed remediation activities and confirmation soil sampling activities.

A copy of the previously submitted Form C-141 Release Notification is attached. Additionally, current versions of the Assessment/Characterization, Remediation, and Closure sections of Form C-141 are attached. A Topographic Map and Area Map noting the location of the subject Site and surrounding areas, and a Site Map illustrating the Site features and sampling locations, are provided in the Figures section.

2.0 SITE CHARACTERIZATION

2.1 Depth-to-Groundwater

To determine the depth-to-groundwater in the vicinity of the Site, data available from the U.S. Geological Survey (USGS) and the New Mexico Office of the State Engineer (NMOSE) was reviewed. Based upon the reviewed information, water well information within a half-mile is limited. Based on the available information from the closest identified wells, depth-to-groundwater appears to be greater than 100 feet below ground surface (bgs). Copies of the reviewed depth-to-groundwater information are attached.

2.2 Wellhead Protection Area

Based upon the USGS and NMOSE information no water wells were identified within a half-mile of the Site.

Upon review of the National Wetland Inventory, a mapped wetland feature is located approximately 407 feet northwest of the site location. The feature is classified as a R4SBC, which is defined as a riverine, intermittent, streambed and seasonally flooded.

The Site and impacted area are outside of the FEMA 100-year flood plain and fall in the area of minimal flood hazard.

The Site is noted to be in an area of "Low Karst" probability.

2.3 Distance to Nearest Significant Watercourse

Based upon available online resources, no significant water courses are located within a half-mile of the site.

2.4 Closure Criteria

Based upon the Site characterization details, and per NMAC 19.15.29.12, the Site was remediated to Table 1 19.15.29.12 NMAC (groundwater ≤50 feet) criteria. Additionally, the remediation activities were conducted to bring the area into compliance with the Restoration, Reclamation and Re-Vegetation criteria detailed in 19.15.29.13 NMAC. The proposed closure criteria are detailed below:

REGULATORY STANDARD	CHLORIDE	TPH (GRO+DRO+MRO)	BTEX	BENZENE
19.15.29.12 NMAC Table 1 Closure Criteria for Soils Impacted by a Release (GW ≤50') & 19.15.29.13 NMAC Restoration, Reclamation and Re-Vegetation (Soils 0'-4')	600	100	50	10

All Values Presented in Parts Per Million (mg/Kg)

3.0 SITE REMEDIATION

To address the area impacted by the release, soil removal operations were conducted at the Site.

3.1 March 29, 2022

On March 29, 2022, Ranger personnel mobilized to the location to conduct site assessment of the excavated areas which included the collection of confirmation soil samples for laboratory analysis. At the time of the assessment, two excavations had been completed within the area impacted by the release. An area immediately north of the Cobalt Riser and release location was



noted to have dimensions of approximately 51 feet by 40 feet and had a maximum depth of approximately five feet below ground surface (bgs). An area immediately south of the Cobalt Riser and release location was noted to have maximum dimensions of approximately 230 feet by 117 feet and had a maximum depth of approximately five feet bgs.

To assess the excavated area and to confirm that the excavation areas had been completed to appropriate boundaries, confirmation soil samples were collected as five-part composite samples in accordance with NMAC 19.15.29.12(D), with each sample representing no more than 200 square feet. Within the excavation area north of the Cobalt Riser and release location, a total of 15 confirmation samples were collected from the excavation base and sidewalls. Due to extreme weather conditions at the time of the assessment, confirmation sampling was limited to the northern area of the excavation.

The confirmation soil samples were submitted to Eurofins Xenco laboratory in Carlsbad, New Mexico for analysis of total chloride using EPA Method 300. The samples were collected and managed using standard QA/QC and chain-of-custody procedures.

3.2 April 9, 2022

On April 9, 2022, Ranger personnel returned to the location to conduct additional site assessment activities which included the collection of confirmation soil samples for laboratory analysis. At the time of the April 9, 2022 assessment, additional removal operations were conducted at the Site which ultimately resulted in the two excavation areas being completed as one contiguous excavation. Upon completion of the additional removal activities, the excavated area had maximum dimensions of approximately 281 feet by 117 feet and had a maximum depth of approximately five feet bgs.

To assess the excavation area and to confirm that the excavation had been completed to appropriate boundaries, confirmation soil samples were collected as five-part composite samples in accordance with NMAC 19.15.29.12(D), with each sample representing no more than 200 square feet.

As previously stated, the northern excavation area was initially assessed and sampled during the initial March 29, 2022 site activities. At the time of the April 9, 2022 assessment, the laboratory analytical results for the samples had been received documenting that chloride concentrations were within the applicable regulatory criteria of 600 mg/Kg chloride. Based on the fact that laboratory analysis of the initial March 29, 2022 soil samples was limited to chloride, it was determined that additional samples from these locations were necessary to evaluate for total petroleum hydrocarbons (TPH) and benzene, toluene, ethylbenzene and xylenes (BTEX) concentrations; therefore, additional five part composite samples were collected from 14 of the 15 original sample locations and analyzed for TPH and BTEX. Due to the completed over-excavation activities, one of the samples collected along the excavation wall sample "E1-W4" was no longer present as the area had been over-excavated to conjoin the two excavation areas.

To assess the remaining areas not included in the March 29, 2022 sampling activities, an additional 88 confirmation soil samples were collected from the excavation base and sidewalls. The samples were also collected in accordance with NMAC 19.15.29.12(D), with each sample representing no more than 200 square feet.

In total, 102 five-part composite samples were collected during the April 9, 2022, site activities.



Upon collection the confirmation soil samples were submitted to Eurofins Xenco laboratory in Carlsbad, New Mexico for chemical analysis. The 14 soil samples collected from the previously assessed area were submitted for analysis of TPH using EPA method 8015, and BTEX using EPA Method 8021. The 88 samples collected from the remaining excavation area were submitted for analysis of BTEX, TPH, and total chloride using the aforementioned laboratory methods.

All samples selected for laboratory analysis were collected and managed using standard QA/QC and chain-of-custody procedures.

3.3 May 4, 2022

Upon review of the April 9, 2022, laboratory sample results, 4 sample areas were identified to have chloride concentrations in exceedance of the applicable 600 mg/Kg Table 1 Criteria. The remaining 98 samples were documented to have concentrations within the Table 1 Criteria.

To address the areas noted to have elevated chloride concentrations, representatives of EOG and Ranger personnel returned to the Site on May 4, 2022 to conduct additional soil removal operations. Utilizing field chloride titration kits, Ranger personnel assisted in assessing conditions within the areas and guiding the excavation to appropriate boundaries. Upon reaching a depth of approximately 9 feet bgs, readings indicating that acceptable chloride concentrations were encountered.

To confirm that the areas were in attainment of the applicable Table 1 criteria, additional confirmation soil samples were collected. Once again, the confirmation samples were collected in accordance with NMAC 19.15.29.12(D), with each sample representing no more than 200 square feet. Due to the completed depth and dimensions of the over-excavated area, a total of 6 soil samples were collected on May 4, 2022.

Upon collection, the confirmation soil samples were submitted to Eurofins Xenco laboratory in Carlsbad, New Mexico for analysis of BTEX, TPH, and total chloride using the aforementioned laboratory methods. The samples were collected and managed using standard QA/QC and chain-of-custody procedures.

A Site map depicting the final excavation boundaries and confirmation sample location areas is attached.

3.4 Final Confirmation Sample Results

Upon review of the final confirmation sample results, all areas have been brought into attainment of the Table 1 (groundwater ≤ 50 feet) criteria and the Restoration, Reclamation and Re-Vegetation criteria detailed in 19.15.29.13 NMAC. A comprehensive sample results table summarizing the laboratory sample results for all samples collected during the remediation process is attached. Copies of the laboratory analytical reports including chain-of-custody documentation are attached.

3.5 Waste Disposal

All soils generated during the remedial excavation activities were transported and disposed of at an approved disposal facility in New Mexico. Copies of the soil manifests can be obtained upon request.



4.0 SITE CLOSURE

4.1 Site Backfill

Based on the soil sample laboratory results the excavated area will be backfilled with clean fill material in accordance with NMAC 19.15.29.12 and NMAC 19.15.29.13.

4.2 Closure Request

Based on the results of the cleanup confirmation soil sampling events, the site has been properly addressed pursuant to NMAC 19.15.29 and EOG respectfully requests closure of the incident. A final C-141 form is attached.



FORM C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nAPP2206048902
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party EOG Resources	OGRID 7377
Contact Name Todd Wells	Contact Telephone (432) 686-3613
Contact email Todd_Wells@eogresources.com	Incident # (assigned by OCD) nAPP2206048902
Contact mailing address 5509 Champions Drive Midland, TX 79706	

Location of Release Source

Latitude 32.176232° Longitude -103.507151°
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Cobalt Riser	Site Type Reuse Water Pipeline Riser
Date Release Discovered 2/27/22	API# (if applicable)

Unit Letter	Section	Township	Range	County
G	31	24S	34E	Lea

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: Leta T Dillon Trust)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Reuse Water	Volume Released (bbls) 153	Volume Recovered (bbls) 40
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: The high line pressure at the Cobalt Riser booster pump caused a failure of the gasket, releasing approximately 153 bbls of treated reuse water around the riser, ROW and in the field with 40 bbls recovered.

Incident ID	NAPP2206048902
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? More than 25 bbls release
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, email notification to the OCD Enviro Inbox on 2/28/22.	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☒ The source of the release has been stopped. ☒ The impacted area has been secured to protect human health and the environment. ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. ☒ All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: <u>Todd Wells</u> Title: <u>Environmental Specialist</u> Signature: <u>Todd Wells</u> Date: <u>3/1/22</u> email: <u>Todd Wells@eogresources.com</u> Telephone: <u>(432) 686-3613</u>
<u>OCD Only</u> Received by: <u>Ramona Marcus</u> Date: <u>3/4/2022</u>

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>100</u> (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas not on an exploration, development, production, or storage site?	☒ Yes ☐ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Todd Wells Title: Environmental Specialist

Signature: Todd Wells Date: 5/26/2022

email: todd_wells@eogresources.com Telephone: (432) 686-3613

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate OCD District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Todd Wells Title: Environmental Specialist
Signature: Todd Wells Date: 5/26/2022
email: todd_wells@eogresources.com Telephone: (432) 686-3613

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Jennifer Nobui Date: 06/03/2022
Printed Name: Jennifer Nobui Title: Environmental Specialist A

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 85367

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 85367
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rmarcus	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141	3/4/2022

FIGURES

Topographic Map

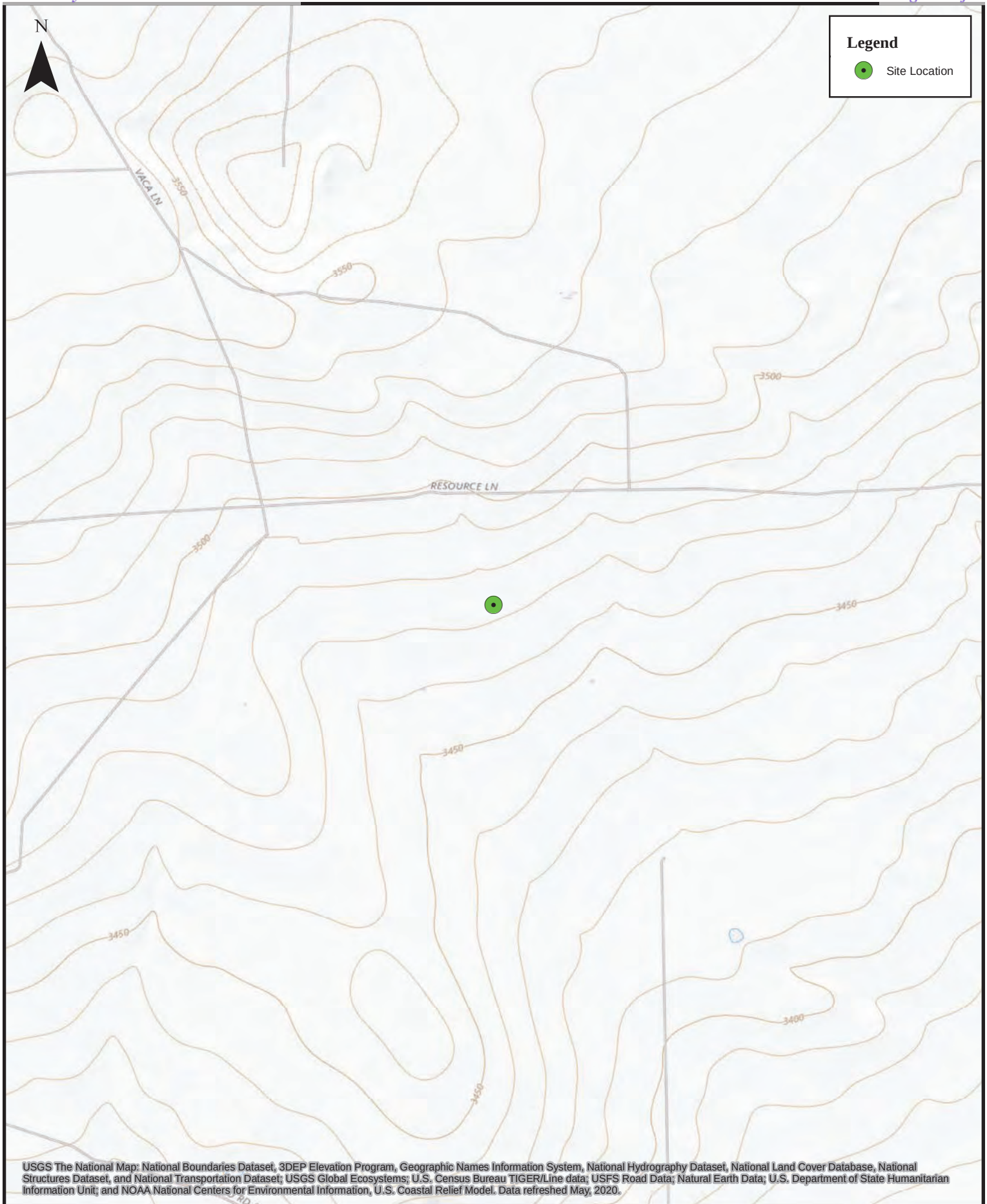
Area Map

Water Well Location Map

National Wetland Inventory Map

Karst Topography Map

Confirmation Soil Sample Location Map



0 600 1,200 2,400 3,600 4,800 Feet

1:24,000

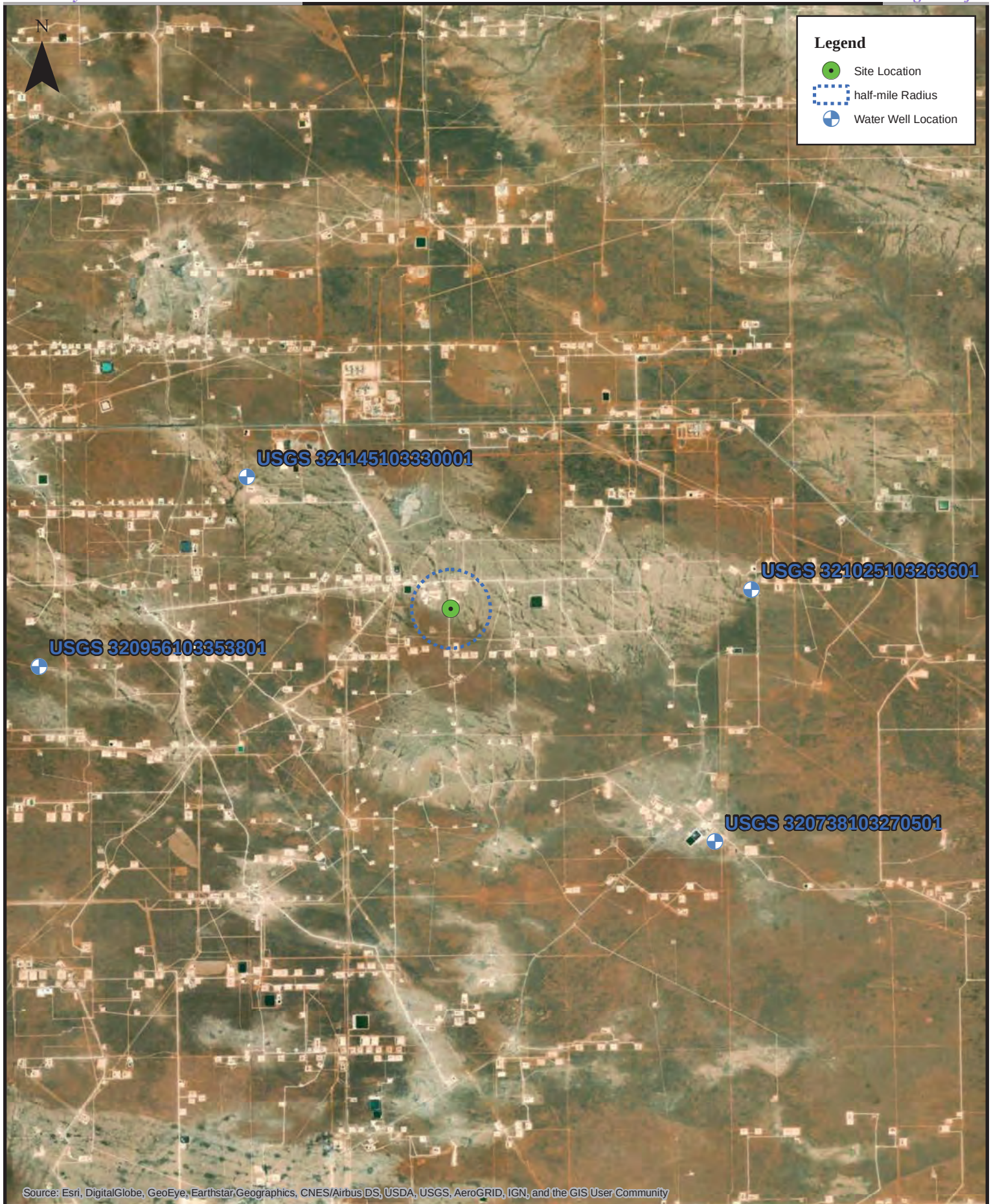
Topographic Map
Cobalt Riser
EOG Resources, Inc.



0 250 500 1,000 1,500 2,000 Feet

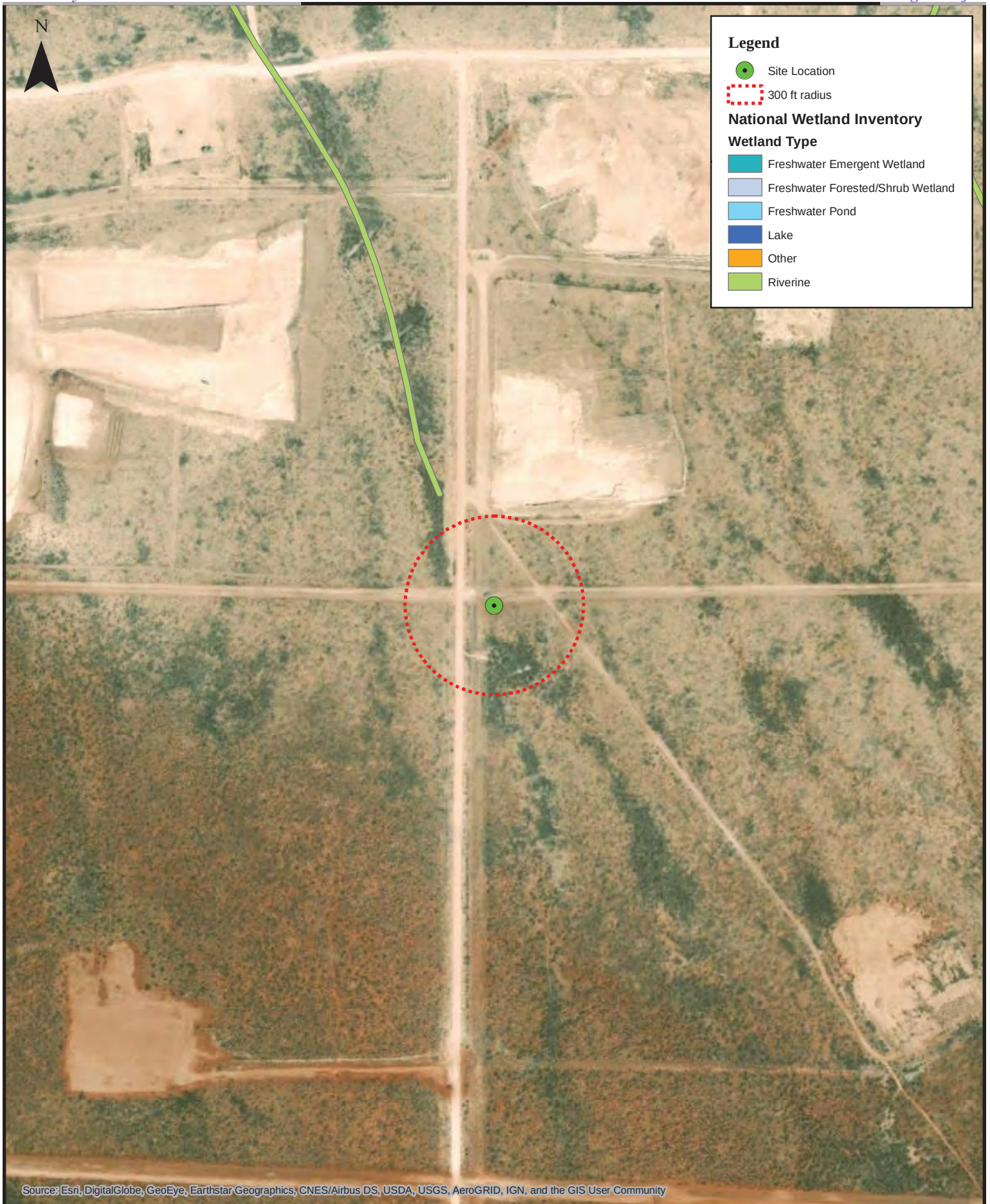
1:10,000

Area Map
Cobalt Riser
EOG Resources, Inc.



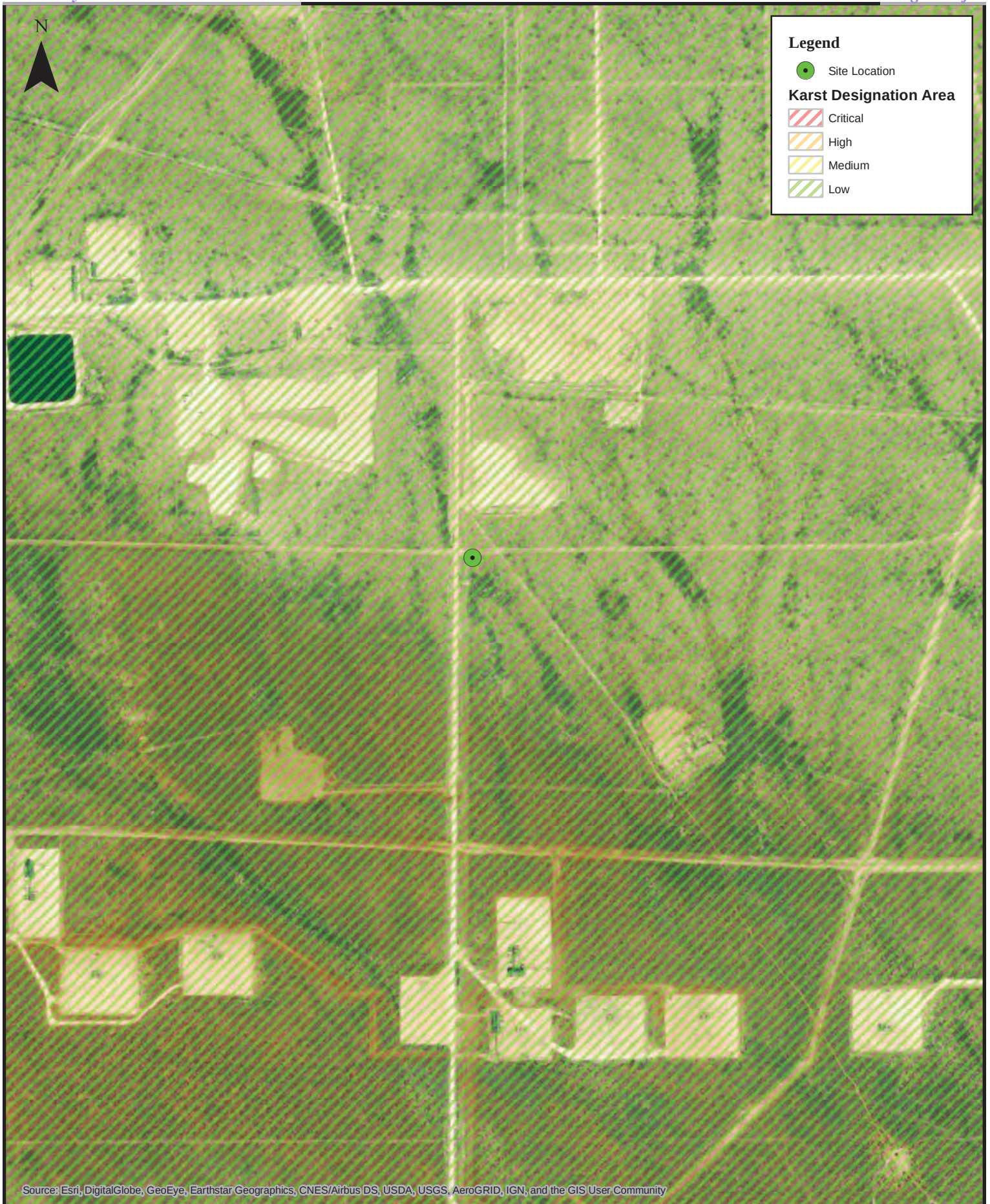
0 2,500 5,000 10,000 15,000 20,000 Feet
1:100,000

Water Well Location Map
Cobalt Riser
EOG Resources, Inc.



0 125 250 500 750 1,000 Feet
1:5,000

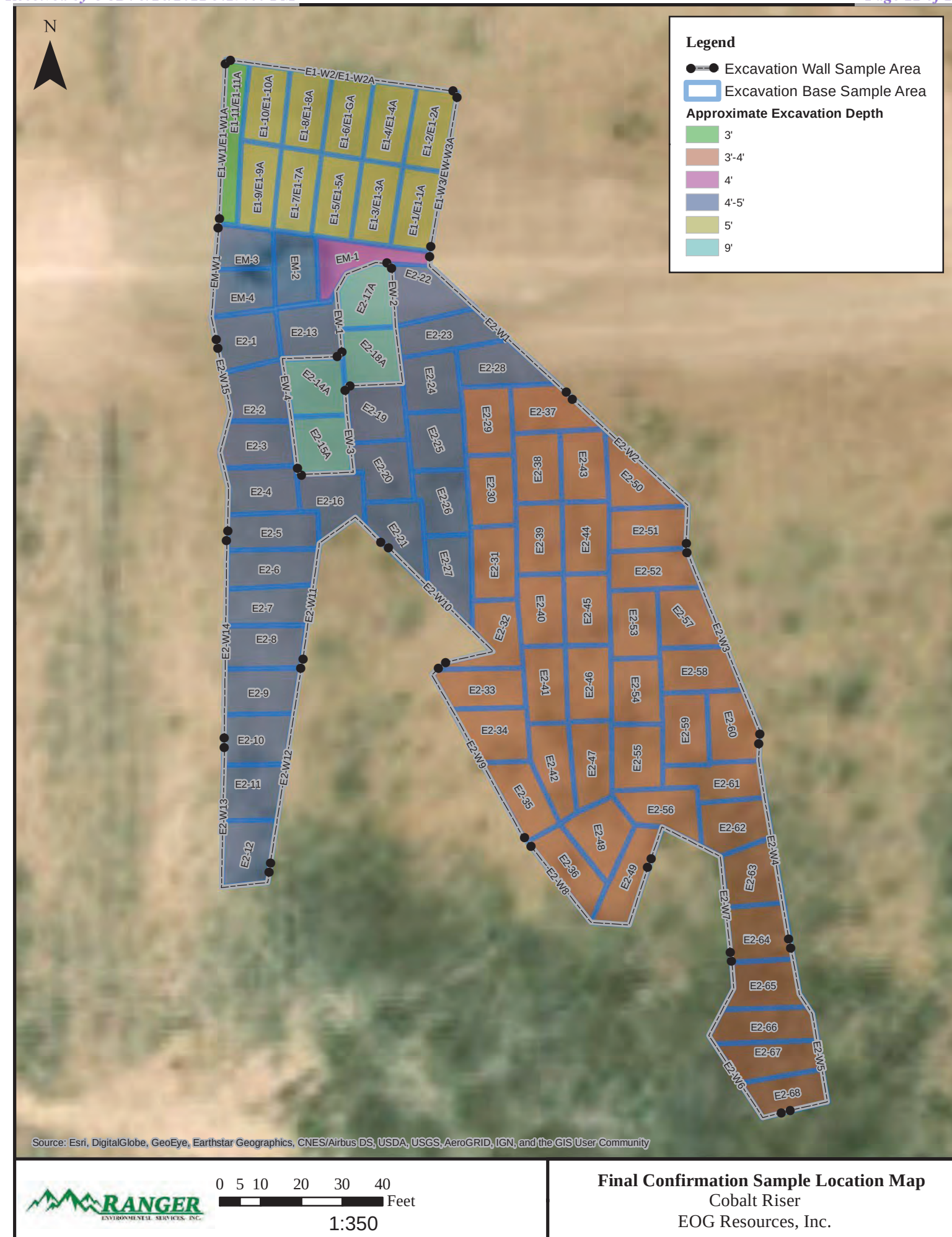
National Wetland Inventory Map
Cobalt Riser
EOG Resources, Inc.



0 250 500 1,000 1,500 2,000 Feet

1:10,000

Karst Topography Map
Cobalt Riser
EOG Resources, Inc.



TABLES

Confirmation Soil Sample BTEX (EPA 8260), TPH (EPA 8015) & Chloride (EPA 300) Analytical Data

CONFIRMATION SOIL SAMPLE BTEX (EPA 8021), TPH (SW 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA EOG MIDLAND COBALT RISER														
All values presented in parts per million (mg/Kg)														
SAMPLE ID	DATE	DEPTH (FT)	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	TOTAL BTEX	TPH GRO C6-C10	TPH DRO C10-C28	TPH MRO C28-C36	TPH (GRO+DRO)	TPH (GRO+DRO+MRO)	CHLORIDE	
Excavation Base Soil Samples														
E1-1	3/29/2022	5'	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	90.1	
E1-1A	4/9/2022	5'	<0.000383	<0.000453	<0.000562	<0.00100	<0.00100	<14.9	<14.9	<14.9	<14.9	<14.9	Not Analyzed	
E1-2	3/29/2022	5'	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	258	
E1-2A	4/9/2022	5'	<0.000386	<0.000457	<0.000566	<0.00101	<0.00101	<15.0	<15.0	<15.0	<15.0	<15.0	Not Analyzed	
E1-3	3/29/2022	5'	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	84.1	
E1-3A	4/9/2022	5'	<0.000386	<0.000457	<0.000566	<0.00101	<0.00101	<15.0	<15.0	<15.0	<15.0	<15.0	Not Analyzed	
E1-4	3/29/2022	5'	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	77.6	
E1-4A	4/9/2022	5'	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	<14.9	<14.9	<14.9	<14.9	<14.9	Not Analyzed	
E1-5	3/29/2022	5'	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	282	
E1-5A	4/9/2022	5'	<0.000383	<0.000453	<0.000562	<0.00100	<0.00100	<15.0	<15.0	<15.0	<15.0	<15.0	Not Analyzed	
E1-6	3/29/2022	5'	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	124	
E1-6A	4/9/2022	5'	<0.000383	<0.000454	<0.000563	<0.00101	<0.00101	<15.0	<15.0	<15.0	<15.0	<15.0	Not Analyzed	
E1-7	3/29/2022	5'	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	130	
E1-7A	4/9/2022	5'	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	<15.0	<15.0	<15.0	<15.0	<15.0	Not Analyzed	
E1-8	3/29/2022	5'	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	99.3	
E1-8A	4/9/2022	5'	<0.000382	<0.000452	<0.000561	<0.00100	<0.00100	<15.0	<15.0	<15.0	<15.0	<15.0	Not Analyzed	
E1-9	3/29/2022	5'	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	136	
E1-9A	4/9/2022	5'	<0.000383	<0.000453	<0.000562	<0.00100	<0.00100	<15.0	<15.0	<15.0	<15.0	<15.0	Not Analyzed	
E1-10	3/29/2022	5'	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	190	
E1-10A	4/9/2022	5'	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	<15.0	<15.0	<15.0	<15.0	<15.0	Not Analyzed	
E1-11	3/29/2022	3'	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	232	
E1-11A	4/9/2022	3'	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	<15.0	<15.0	<15.0	<15.0	<15.0	Not Analyzed	
E2-1	4/9/2022	4'-5'	<0.000386	<0.000457	<0.000566	<0.00101	<0.00101	<15.0	22.2J	<15.0	22.2J	22.2J	126	
E2-2	4/9/2022	4'-5'	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	<15.0	18.9J	<15.0	18.9J	18.9J	48.6	
E2-3	4/9/2022	4'-5'	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	<15.0	19.0J	<15.0	19.0J	19.0J	161	
E2-4	4/9/2022	4'-5'	<0.000383	0.000750J	<0.000563	<0.00101	<0.00101	<14.9	20.2J	<14.9	20.2J	20.2J	358	
E2-5	4/9/2022	4'-5'	<0.000386	<0.000457	<0.000566	<0.00101	<0.00101	<15.0	21.2J	<15.0	21.2J	21.2J	439	
E2-6	4/9/2022	4'-5'	<0.000389	0.00155J	<0.000571	<0.00102	0.00155J	<15.0	20.5J	<15.0	20.5J	20.5J	278	
E2-7	4/9/2022	4'-5'	<0.000384	0.000618J	<0.000564	<0.00101	<0.00101	<15.0	19.7J	<15.0	19.7J	19.7J	186	
E2-8	4/9/2022	4'-5'	<0.000386	<0.000457	<0.000566	<0.00101	<0.00101	<15.0	19.1J	<15.0	19.1J	19.1J	41.4	
E2-9	4/9/2022	4'-5'	<0.000387	0.00101J	<0.000567	<0.00101	0.00101J	<15.0	20.1J	<15.0	20.1J	20.1J	80.9	
E2-10	4/9/2022	4'-5'	<0.000385	0.000617J	<0.000565	<0.00101	<0.00101	<15.0	20.3J	<15.0	20.3J	20.3J	120	
E2-11	4/9/2022	4'-5'	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	<15.0	21.1J	<15.0	21.1J	21.1J	14	
E2-12	4/9/2022	4'-5'	<0.000383	<0.000454	<0.000563	<0.00101	<0.00101	<15.0	21.0J	<15.0	21.0J	21.0J	90.6	
E2-13	4/9/2022	4'-5'	<0.000383	<0.000453	<0.000562	<0.00100	<0.00101	<15.0	23.3J	<15.0	23.3J	23.3J	285	
E2-14	4/9/2022	4'-5'	<0.000386	<0.000456	<0.000565	<0.00101	<0.00101	<15.0	23.7J	<15.0	23.7J	23.7J	749	
E2-14A	5/4/2022	9'	<0.000388	<0.000460	<0.000570	<0.00102	<0.00102	<15.0	<15.0	<15.0	<15.0	<15.0	16.9	
E2-15	4/9/2022	4'-5'	<0.000386	<0.000457	<0.000566	<0.00101	<0.00101	<15.0	22.7J	<15.0	22.7J	22.7J	644	
E2-15A	5/4/2022	9'	<0.000383	<0.000453	<0.000562	<0.00100	<0.00100	<14.9	<14.9	<14.9	<14.9	<14.9	28.8	
E2-16	4/9/2022	4'-5'	<0.000387	<0.000458	<0.000567	<0.00101	<0.00101	<15.0	21.6J	<15.0	21.6J	21.6J	581	
E2-17	4/9/2022	4'-5'	<0.000387	<0.000459	<0.000568	<0.00102	<0.00101	<15.0	21.3J	<15.0	21.3J	21.3J	1,470	
E2-17A	5/4/2022	9'	<0.000387	<0.000459	<0.000568	<0.00102	<0.00102	<15.0	<15.0	<15.0	<15.0	<15.0	255.0	
E2-18	4/9/2022	4'-5'	<0.000388	<0.000460	<0.000570	<0.00102	<0.00101	<15.0	21.5J	<15.0	21.5J	21.5J	1,250	
E2-18A	5/4/2022	9'	<0.000383	<0.000454	<0.000563	<0.00101	<0.00101	<15.0	<15.0	<15.0	<15.0	<15.0	314.0	
E2-19	4/9/2022	4'-5'	<0.000389	<0.000461	<0.000571	<0.00102	<0.00101	<15.0	20.0J	<15.0	20.0J	20.0J	75.8	
E2-20	4/9/2022	4'-5'	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	<15.0	19.6J	<15.0	19.6J	19.6J	41.6	
E2-21	4/9/2022	4'-5'	<0.000381	<0.000451	0.00104J	<0.00100	0.00104J	<15.0	<15.0	<15.0	<15.0	<15.0	504	
E2-22	4/9/2022	4'-5'	<0.000383	<0.000453	<0.000562	<0.00100	<0.00101	<15.0	<15.0	<15.0	<15.0	<15.0	47	
E2-23	4/9/2022	4'-5'	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	<15.0	<15.0	<15.0	<15.0	<15.0	276	
E2-24	4/9/2022	4'-5'	<0.000383	<0.000454	<0.000563	<0.00101	<0.00101	<14.9	<14.9	<14.9	<14.9	<14.9	260	
E2-25	4/9/2022	4'-5'	<0.000383	<0.000453	<0.000562	<0.00100	<0.00101	<15.0	<15.0	<15.0	<15.0	<15.0	33.6	
E2-26	4/9/2022	4'-5'	<0.000383	<0.000454	<0.000563	<0.00101	<0.00101	<15.0	<15.0	<15.0	<15.0	<15.0	81.1	
E2-27	4/9/2022	4'-5'	<0.000386	<0.000457	<0.000566	<0.00101	<0.00101	<15.0	<15.0	<15.0	<15.0	<15.0	91.4	
E2-28	4/9/2022	4'-5'	<0.000387	<0.000458	<0.000567	<0.00101	<0.00101	<15.0	<15.0	<15.0	<15.0	<15.0	268	
E2-29	4/9/2022	3'-4'	<0.000388	<0.000460	<0.000570	<0.00102	<0.00101	<15.0	<15.0	<15.0	<15.0	<15.0	310	
E2-30	4/9/2022	3'-4'	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	<15.0	<15.0	<15.0	<15.0	<15.0	48.2	
E2-31	4/9/2022	3'-4'	0.000607J	<0.000454	<0.000563	<0.00101	<0.00101	<15.0	<15.0	<15.0	<15.0	<15.0	129	
E2-32	4/9/2022	3'-4'	<0.000383	<0.000453	<0.000562	<0.00100	<0.00101	<14.9	<14.9	<14.9	<14.9	<14.9	122	
E2-33	4/9/2022	3'-4'	<0.000384	0.000480J	<0.000564	<0.00101	<0.00101	<15.0	<15.0	<15.0	<15.0	<15.0	73.7	
E2-34	4/9/2022	3'-4'	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	<15.0	<15.0	<15.0	<15.0	<15.0	205	
E2-35	4/9/2022	3'-4'	0.000667J	0.000974J	<0.000565	<0.00101	0.00164J	<15.0	<15.0	<15.0	<15.0	<15.0	210	
E2-36	4/9/2022	3'-4'	<0.000386	<0.000457	<0.000566	<0.00101	<0.00101	<15.0	<15.0	<15.0	<15.0	<15.0	89.9	
E2-37	4/9/2022	3'-4'	0.000640J	<0.000458	<0.000567	<0.00101	<0.00101	<15.0	<15.0	<15.0	<15.0	<15.0	62.2	
E2-38	4/9/2022	3'-4'	<0.000387	<0.000459	<0.000568	<0.00102	<0.00101	<15.0	<15.0	<15.0	<15.0	<15.0	262	
E2-39	4/9/2022	3'-4'	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	<15.0	<15.0	<15.0	<15.0	<1		

CONFIRMATION SOIL SAMPLE BTEX (EPA 8021), TPH (SW 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA EOG MIDLAND COBALT RISER													
All values presented in parts per million (mg/Kg)													
SAMPLE ID	DATE	DEPTH (FT)	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	TOTAL BTEX	TPH GRO C6-C10	TPH DRO C10-C28	TPH MRO C28-C36	TPH (GRO+DRO)	TPH (GRO+DRO+MRO)	CHLORIDE
E2-54	4/9/2022	3'-4'	<0.000386	<0.000457	<0.000566	<0.00101	<0.00101	17.3J	22.0J	<15.0	39.3J	39.3J	136
E2-55	4/9/2022	3'-4'	<0.000387	<0.000458	<0.000567	<0.00101	<0.00101	<15.0	19.4J	<15.0	19.4J	19.4J	46
E2-56	4/9/2022	3'-4'	<0.000388	<0.000460	<0.000570	<0.00102	<0.00101	40.4J	25.2J	<15.0	65.6	65.6	18.3
E2-57	4/9/2022	3'-4'	<0.000389	<0.000461	<0.000571	<0.00102	<0.00101	18.8J	19.5J	<15.0	38.3J	38.3J	18.1
E2-58	4/9/2022	3'-4'	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	<15.0	16.5J	<15.0	16.5J	16.5J	120
E2-59	4/9/2022	3'-4'	<0.000383	<0.000454	<0.000563	<0.00101	<0.00101	30.0J	20.3J	<15.0	50.3	50.3	45.9
E2-60	4/9/2022	3'-4'	<0.000383	<0.000453	<0.000562	<0.00100	<0.00101	31.6J	20.4J	<15.0	52	52	33.3
E2-61	4/9/2022	3'-4'	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	<15.0	18.9J	<15.0	18.9J	18.9J	24.8
E2-62	4/9/2022	3'-4'	<0.000383	<0.000453	<0.000562	<0.00100	<0.00101	<15.0	17.5J	<15.0	17.5J	17.5J	31.3
E2-63	4/9/2022	3'-4'	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	<15.0	18.0J	<15.0	18.0J	18.0J	14.9
E2-64	4/9/2022	3'-4'	<0.000387	<0.000458	<0.000567	<0.00101	<0.00101	<15.0	18.3J	<15.0	18.3J	18.3J	11.4
E2-65	4/9/2022	3'-4'	<0.000387	<0.000459	<0.000568	<0.00102	<0.00101	<15.0	18.1J	<15.0	18.1J	18.1J	43.5
E2-66	4/9/2022	3'-4'	<0.000386	<0.000457	<0.000566	<0.00101	<0.00101	<15.0	18.5J	<15.0	18.5J	18.5J	29.7
E2-67	4/9/2022	3'-4'	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	<15.0	18.9J	<15.0	18.9J	18.9J	21.3
E2-68	4/9/2022	3'-4'	<0.000383	<0.000453	<0.000562	<0.00100	<0.00101	<15.0	18.6J	<15.0	18.6J	18.6J	15.7
EM-1	4/9/2022	4'	<0.000387	<0.000458	<0.000567	<0.00101	<0.00101	<15.0	<15.0	<15.0	<15.0	<15.0	16.4
EM-2	4/9/2022	4'-5'	<0.000387	<0.000458	<0.000567	<0.00101	<0.00101	<15.0	<15.0	<15.0	<15.0	<15.0	137
EM-3	4/9/2022	4'-5'	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	<15.0	<15.0	<15.0	<15.0	<15.0	38.7
EM-4	4/9/2022	4'-5'	<0.000383	<0.000454	<0.000563	<0.00101	<0.00101	<15.0	20.9J	<15.0	20.9J	20.9J	52.1
Excavation Wall Soil Samples													
E1-W1	3/29/2022	0'-5'	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	100
E1-W1A	4/9/2022	0'-5'	<0.000386	<0.000457	<0.000566	<0.00101	<0.00101	<15.0	<15.0	<15.0	<15.0	<15.0	Not Analyzed
E1-W2	3/29/2022	0'-5'	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	90.9
E1-W2A	4/9/2022	0'-5'	<0.000387	<0.000459	<0.000568	<0.00102	<0.00102	<15.0	<15.0	<15.0	<15.0	<15.0	Not Analyzed
E1-W3	3/29/2022	0'-3'	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	202
E1-W3A	4/9/2022	0'-3'	<0.000389	<0.000461	<0.000571	<0.00102	<0.00102	<15.0	<15.0	<15.0	<15.0	<15.0	Not Analyzed
E1-W4	3/29/2022	0'-5'	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	91.6
E2-W1	4/9/2022	0'-4'	<0.000387	<0.000459	<0.000568	<0.00102	<0.00101	<15.0	17.8J	<15.0	17.8J	17.8J	17.8
E2-W2	4/9/2022	0'-4'	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	<15.0	18.2J	<15.0	18.2J	18.2J	18.7
E2-W3	4/9/2022	0'-4'	<0.000383	<0.000454	<0.000563	<0.00101	<0.00101	<15.0	18.2J	<15.0	18.2J	18.2J	208
E2-W4	4/9/2022	0'-4'	<0.000383	<0.000453	<0.000562	<0.00100	<0.00101	<15.0	18.9J	<15.0	18.9J	18.9J	220
E2-W5	4/9/2022	0'-4'	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	<15.0	18.8J	<15.0	18.8J	18.8J	23.7
E2-W6	4/9/2022	0'-4'	<0.000383	<0.000454	<0.000563	<0.00101	<0.00101	<15.0	19.9J	<15.0	19.9J	19.9J	127
E2-W7	4/9/2022	0'-4'	<0.000383	<0.000453	<0.000562	<0.00100	<0.00101	<15.0	18.9J	<15.0	18.9J	18.9J	68
E2-W8	4/9/2022	0'-4'	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	<15.0	18.3J	<15.0	18.3J	18.3J	52.5
E2-W9	4/9/2022	0'-4'	0.000618J	0.00173J	<0.000563	<0.00101	0.00235J	<15.0	18.9J	<15.0	18.9J	18.9J	257
E2-W10	4/9/2022	0'-4'	<0.000386	<0.000457	<0.000566	<0.00101	<0.00101	<15.0	18.1J	<15.0	18.1J	18.1J	77.4
E2-W11	4/9/2022	0'-4'	<0.000383	<0.000453	<0.000562	<0.00100	<0.00101	<15.0	18.6J	<15.0	18.6J	18.6J	93.4
E2-W12	4/9/2022	0'-4'	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	<14.9	18.3J	<14.9	18.3J	18.3J	46.5
E2-W13	4/9/2022	0'-4'	<0.000383	<0.000454	<0.000563	<0.00101	<0.00101	<15.0	<15.0	<15.0	<15.0	<15.0	55.5
E2-W14	4/9/2022	0'-4'	<0.000385	<0.000456	<0.000565	<0.00101	<0.00101	<15.0	<15.0	<15.0	<15.0	<15.0	70.9
E2-W15	4/9/2022	0'-4'	<0.000386	<0.000457	<0.000566	<0.00101	<0.00101	<15.0	<15.0	<15.0	<15.0	<15.0	116
EM-W1	4/9/2022	0'-5'	<0.000383	<0.000453	<0.000562	<0.00100	<0.00101	18.1J	18.4J	<15.0	36.5 J	36.5J	59.9
EW-1	5/4/2022	9'	<0.000382	<0.000452	<0.000561	<0.00100	<0.00100	<15.0	<15.0	<15.0	<15.0	<15.0	503.0
EW-2	5/4/2022	9'	<0.000385	<0.000456	<0.000565	<0.00101	<0.00101	<15.0	<15.0	<15.0	<15.0	<15.0	18.8
EW-3	5/4/2022	9'	<0.000386	<0.000457	<0.000566	<0.00101	<0.00101	<15.0	<15.0	<15.0	<15.0	<15.0	21.0
EW-4	5/4/2022	9'	<0.000389	<0.000461	<0.000571	<0.00102	<0.00102	<15.0	<15.0	<15.0	<15.0	<15.0	12.5
19.15.29.12 NMAC Table 1 Closure Criteria for Soils Impacted by a Release (GW < 5')			10	---	---	---	50	---	---	---	---	100	600
19.15.29.13 NMAC Reclamation Criteria (0'-4' Soils Only)			10	---	---	---	50	---	---	---	---	100	600
Notes:													
1. Results exceeding the Table 1 Closure Criteria are presented in bold red font with orange highlighting. Results in the 0'-4' depth interval that are in excess of the Reclamation Criteria are presented in bold blue font with orange highlighting.													
2. Strikethrough indicates sample area was overexcavated and disposed off-site.													
Laboratory Report Qualifiers:													
B = Compound was found in blank and sample													
J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value													
F1 = Matrix spike and/or matrix spike duplicate recovery exceeds control limits													
*1 = Laboratory control sample/laboratory control sample duplicate relative percent difference exceeds control limits													

ATTACHMENT 1 – DEPTH-TO-GROUNDWATER DATA



[USGS Home](#)
[Contact USGS](#)
[Search USGS](#)

National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater



Geographic Area:

United States



GO

Click to hide News Bulletins

- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#)

Groundwater levels for the Nation



Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

site_no list =

- 321145103330001

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 321145103330001 24S.33E.23.31322

Available data for this site

Groundwater: Field measurements



GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°12'03.2", Longitude 103°33'03.20" NAD83

Land-surface elevation 3,567.00 feet above NGVD29

The depth of the well is 232 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Ogallala Formation (121OGLL) local aquifer.

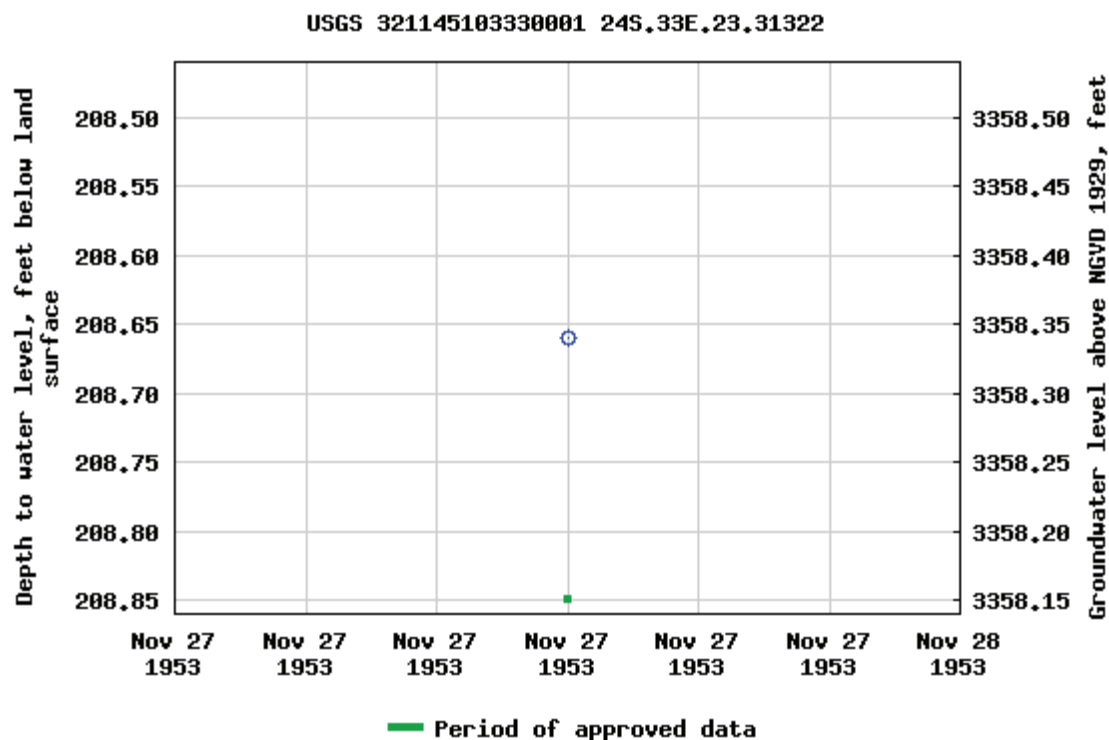
Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)



Breaks in the plot represent a gap of at least one year between field measurements.

[Download a presentation-quality graph](#)

[Questions about sites/data?](#)

[Feedback on this web site](#)

[Automated retrievals](#)

[Help](#)

[Data Tips](#)

[Explanation of terms](#)

[Subscribe for system changes](#)

[News](#)

[Accessibility](#)

[FOIA](#)

[Privacy](#)

[Policies and Notices](#)

[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater for USA: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2022-04-28 14:43:41 EDT

0.67 0.58 nadww01



[USGS Home](#)
[Contact USGS](#)
[Search USGS](#)

National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater



Geographic Area:

United States



GO

Click to hide News Bulletins

- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#)

Groundwater levels for the Nation



Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

site_no list =

- 320738103270501

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 320738103270501 25S.34E.15.24234

Available data for this site

Groundwater: Field measurements



GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°07'57.1", Longitude 103°27'02.4" NAD83

Land-surface elevation 3,345.00 feet above NGVD29

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Ogallala Formation (121OGLL) local aquifer.

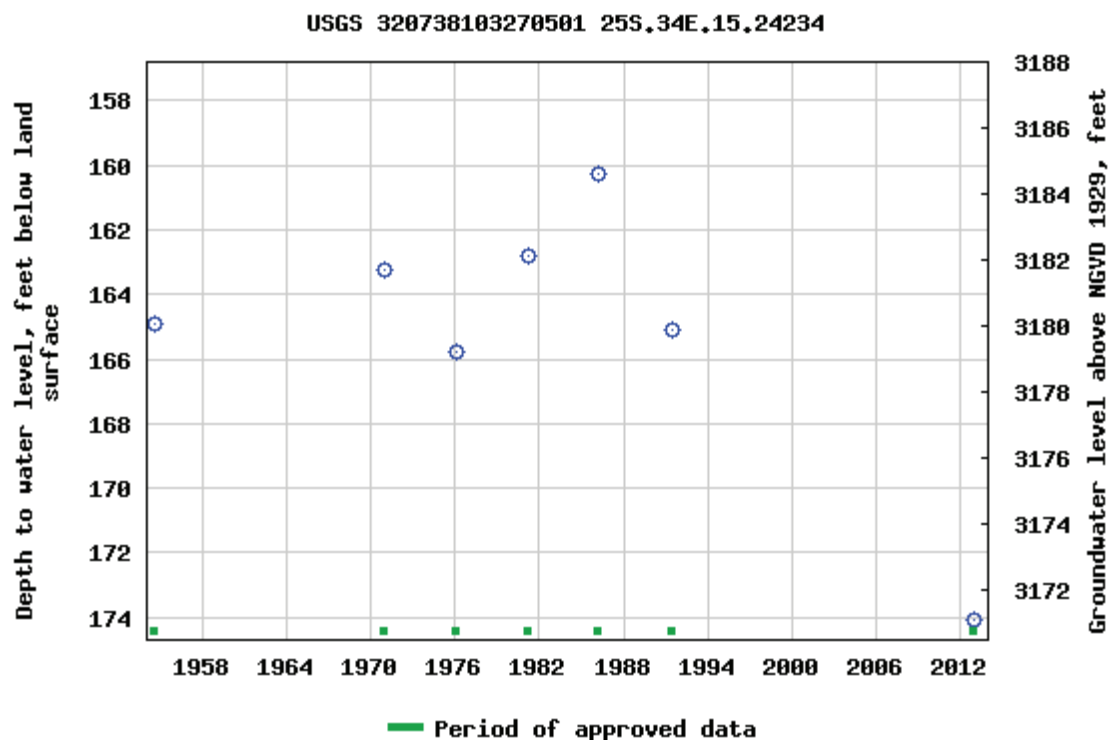
Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)



Breaks in the plot represent a gap of at least one year between field measurements.
[Download a presentation-quality graph](#)

[Questions about sites/data?](#)

[Feedback on this web site](#)

[Automated retrievals](#)

[Help](#)

[Data Tips](#)

[Explanation of terms](#)

[Subscribe for system changes](#)

[News](#)

[Accessibility](#)

[FOIA](#)

[Privacy](#)

[Policies and Notices](#)

[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater for USA: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>

Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2022-04-28 14:17:45 EDT

0.66 0.6 nadww01





[USGS Home](#)
[Contact USGS](#)
[Search USGS](#)

National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater



Geographic Area:

United States



GO

Click to hide News Bulletins

- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#)

Groundwater levels for the Nation



Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

site_no list =

- 320956103353801

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 320956103353801 25S.33E.05.12122

Available data for this site

Groundwater: Field measurements



GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°09'59.4", Longitude 103°35'47.2" NAD83

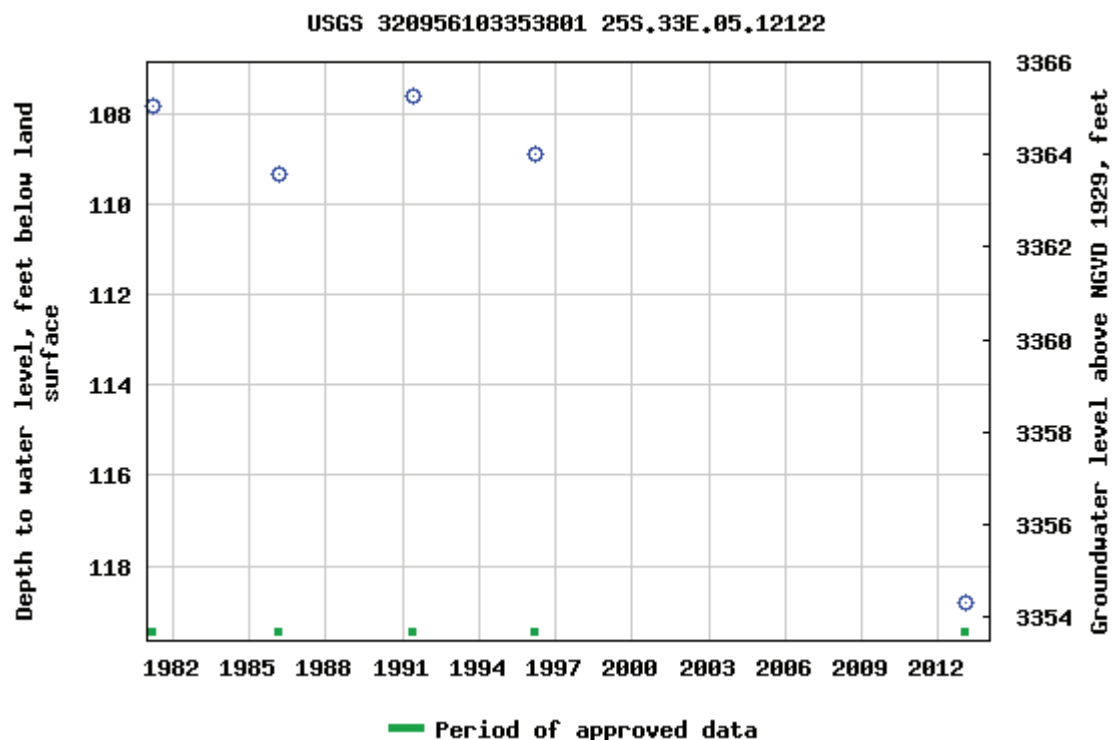
Land-surface elevation 3,473.00 feet above NGVD29

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period



Breaks in the plot represent a gap of at least one year between field measurements.

[Download a presentation-quality graph](#)

[Questions about sites/data?](#)

[Feedback on this web site](#)

[Automated retrievals](#)

[Help](#)

[Data Tips](#)

[Explanation of terms](#)

[Subscribe for system changes](#)

[News](#)

[Accessibility](#)

[FOIA](#)

[Privacy](#)

[Policies and Notices](#)

[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater for USA: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>

Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2022-04-28 14:16:04 EDT

0.68 0.59 nadww01





[USGS Home](#)
[Contact USGS](#)
[Search USGS](#)

National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater



Geographic Area:

United States



GO

Click to hide News Bulletins

- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#)

Groundwater levels for the Nation



Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

site_no list =

- 321025103263601

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 321025103263601 24S.34E.35.12411

Available data for this site

Groundwater: Field measurements



GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°10'44.0", Longitude 103°26'31.2" NAD83

Land-surface elevation 3,409.00 feet above NGVD29

The depth of the well is 257 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Ogallala Formation (121OGLL) local aquifer.

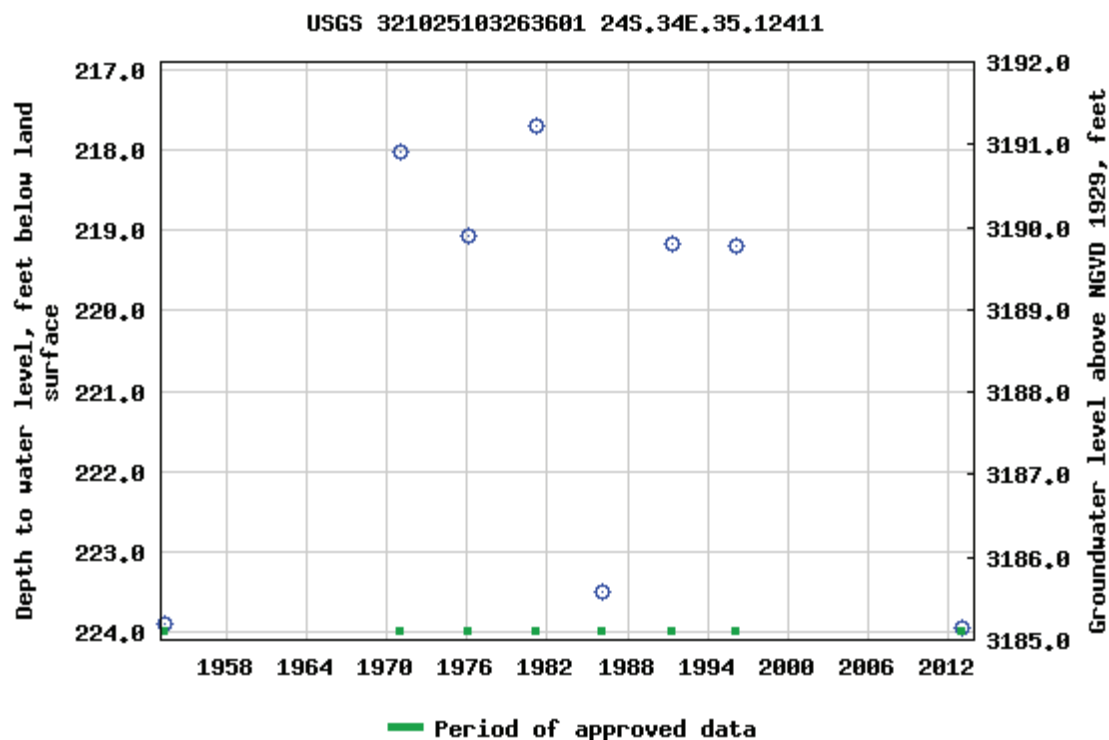
Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)



Breaks in the plot represent a gap of at least one year between field measurements.
[Download a presentation-quality graph](#)

[Questions about sites/data?](#)

[Feedback on this web site](#)

[Automated retrievals](#)

[Help](#)

[Data Tips](#)

[Explanation of terms](#)

[Subscribe for system changes](#)

[News](#)

[Accessibility](#)

[FOIA](#)

[Privacy](#)

[Policies and Notices](#)

[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater for USA: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2022-04-28 14:18:14 EDT

0.7 0.6 nadww01

ATTACHMENT 2 – PHOTOGRAPHIC DOCUMENTATION



PHOTOGRAPH NO. 1 – A view of the northern excavation/remediation area at the Site during the March 29, 2022 confirmation sampling activities. The view is towards the southwest.

(Approximate GPS Coordinates: 32.176344, -103.507042)



PHOTOGRAPH NO. 2 – A view of the excavation/remediation area at the Site during the April 9, 2022 confirmation sampling activities. The view is towards the south-southeast.

(Approximate GPS Coordinates: 32.176384, -103.507255)



PHOTOGRAPH NO. 3 – An additional view of the excavation/remediation area at the Site. during the April 9, 2022 confirmation sampling activities. The view is towards the southeast.

(Approximate GPS Coordinates: 32.176178, -103.507285)



PHOTOGRAPH NO. 4 – An additional view of the excavation/remediation area at the Site. during the April 9, 2022 confirmation sampling activities. The view is towards the north.

(Approximate GPS Coordinates: 32.175785, -103.507261)



**PHOTOGRAPH NO. 5 – A view of the over-excavated area upon completion on May 4, 2022.
The view is towards the west.**

(Approximate GPS Coordinates: 32.176185, -103.507016)

ATTACHMENT 3 – LABORATORY ANALYTICAL REPORTS



Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-2160-1
Laboratory Sample Delivery Group: J198
Client Project/Site: Cobalt Riser

For:
Ranger Environmental Services, Inc
PO BOX 201179
Austin, Texas 78729

Attn: Max Cook

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
4/7/2022 2:46:36 PM

Holly Taylor, Project Manager
(806)794-1296
Holly.Taylor@et.eurofinsus.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Laboratory Job ID: 890-2160-1
SDG: J198

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
QC Sample Results	8
QC Association Summary	9
Lab Chronicle	11
Certification Summary	14
Method Summary	15
Sample Summary	16
Chain of Custody	17
Receipt Checklists	20

1
2
3
4
5
6
7
8
9
10
11
12
13

Definitions/Glossary

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2160-1
SDG: J198

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2160-1
SDG: J198

Job ID: 890-2160-1

Laboratory: Eurofins Carlsbad

Narrative	
	Job Narrative 890-2160-1

Receipt

The samples were received on 3/31/2022 4:38 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.4°C

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

1
2
3
4
5
6
7
8
9
10
11
12
13

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2160-1
SDG: J198

Client Sample ID: E1-1

Lab Sample ID: 890-2160-1

Date Collected: 03/29/22 13:22

Matrix: Solid

Date Received: 03/31/22 16:38

Sample Depth: 5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	90.1		4.96	0.851	mg/Kg			04/06/22 10:52	1

Client Sample ID: E1-2

Lab Sample ID: 890-2160-2

Date Collected: 03/29/22 13:24

Matrix: Solid

Date Received: 03/31/22 16:38

Sample Depth: 5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	258		5.00	0.858	mg/Kg			04/06/22 11:00	1

Client Sample ID: E1-3

Lab Sample ID: 890-2160-3

Date Collected: 03/29/22 13:26

Matrix: Solid

Date Received: 03/31/22 16:38

Sample Depth: 5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	84.1		4.99	0.857	mg/Kg			04/06/22 11:09	1

Client Sample ID: E1-4

Lab Sample ID: 890-2160-4

Date Collected: 03/29/22 13:28

Matrix: Solid

Date Received: 03/31/22 16:38

Sample Depth: 5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	77.6		5.01	0.860	mg/Kg			04/06/22 11:35	1

Client Sample ID: E1-5

Lab Sample ID: 890-2160-5

Date Collected: 03/29/22 13:30

Matrix: Solid

Date Received: 03/31/22 16:38

Sample Depth: 5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	282		4.99	0.857	mg/Kg			04/06/22 11:44	1

Client Sample ID: E1-6

Lab Sample ID: 890-2160-6

Date Collected: 03/29/22 13:32

Matrix: Solid

Date Received: 03/31/22 16:38

Sample Depth: 5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	124		5.05	0.867	mg/Kg			04/06/22 11:53	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2160-1
SDG: J198

Client Sample ID: E1-7

Lab Sample ID: 890-2160-7

Date Collected: 03/29/22 13:34

Matrix: Solid

Date Received: 03/31/22 16:38

Sample Depth: 5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	130		5.00	0.858	mg/Kg			04/05/22 21:17	1

Client Sample ID: E1-8

Lab Sample ID: 890-2160-8

Date Collected: 03/29/22 13:36

Matrix: Solid

Date Received: 03/31/22 16:38

Sample Depth: 5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	99.3		5.00	0.858	mg/Kg			04/05/22 21:43	1

Client Sample ID: E1-9

Lab Sample ID: 890-2160-9

Date Collected: 03/29/22 13:38

Matrix: Solid

Date Received: 03/31/22 16:38

Sample Depth: 5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	136		4.99	0.857	mg/Kg			04/05/22 21:52	1

Client Sample ID: E1-10

Lab Sample ID: 890-2160-10

Date Collected: 03/29/22 13:40

Matrix: Solid

Date Received: 03/31/22 16:38

Sample Depth: 5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	190		4.95	0.850	mg/Kg			04/05/22 22:01	1

Client Sample ID: E1-11

Lab Sample ID: 890-2160-11

Date Collected: 03/29/22 13:42

Matrix: Solid

Date Received: 03/31/22 16:38

Sample Depth: 3

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	232		4.98	0.855	mg/Kg			04/05/22 22:10	1

Client Sample ID: E1-W1

Lab Sample ID: 890-2160-12

Date Collected: 03/29/22 13:42

Matrix: Solid

Date Received: 03/31/22 16:38

Sample Depth: 0 - 5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	100		5.00	0.858	mg/Kg			04/05/22 22:36	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2160-1
SDG: J198

Client Sample ID: E1-W2**Lab Sample ID: 890-2160-13**

Date Collected: 03/29/22 13:44

Matrix: Solid

Date Received: 03/31/22 16:38

Sample Depth: 0 - 5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	90.9		4.97	0.853	mg/Kg			04/06/22 22:42	1

Client Sample ID: E1-W3**Lab Sample ID: 890-2160-14**

Date Collected: 03/29/22 13:46

Matrix: Solid

Date Received: 03/31/22 16:38

Sample Depth: 0 - 5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	202		5.00	0.858	mg/Kg			04/05/22 22:53	1

Client Sample ID: E1-W4**Lab Sample ID: 890-2160-15**

Date Collected: 03/29/22 13:48

Matrix: Solid

Date Received: 03/31/22 16:38

Sample Depth: 0 - 5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	91.6		4.99	0.857	mg/Kg			04/05/22 23:02	1

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2160-1
SDG: J198

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-22961/1-A

Matrix: Solid

Analysis Batch: 23033

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.858	mg/Kg			04/06/22 09:51	1

Lab Sample ID: LCS 880-22961/2-A

Matrix: Solid

Analysis Batch: 23033

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	245.4		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-22961/3-A

Matrix: Solid

Analysis Batch: 23033

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	245.6		mg/Kg		98	90 - 110	0	20

Lab Sample ID: MB 880-22962/1-A

Matrix: Solid

Analysis Batch: 23035

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.858	mg/Kg			04/05/22 20:51	1

Lab Sample ID: LCS 880-22962/2-A

Matrix: Solid

Analysis Batch: 23035

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	254.9		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-22962/3-A

Matrix: Solid

Analysis Batch: 23035

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	250.6		mg/Kg		100	90 - 110	2	20

Lab Sample ID: 890-2160-7 MS

Matrix: Solid

Analysis Batch: 23035

Client Sample ID: E1-7

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	130		250	376.7		mg/Kg		99	90 - 110

Lab Sample ID: 890-2160-7 MSD

Matrix: Solid

Analysis Batch: 23035

Client Sample ID: E1-7

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	130		250	376.6		mg/Kg		99	90 - 110	0	20

Eurofins Carlsbad

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2160-1
SDG: J198

HPLC/IC

Leach Batch: 22961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2160-1	E1-1	Soluble	Solid	DI Leach	
890-2160-2	E1-2	Soluble	Solid	DI Leach	
890-2160-3	E1-3	Soluble	Solid	DI Leach	
890-2160-4	E1-4	Soluble	Solid	DI Leach	
890-2160-5	E1-5	Soluble	Solid	DI Leach	
890-2160-6	E1-6	Soluble	Solid	DI Leach	
MB 880-22961/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-22961/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-22961/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 22962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2160-7	E1-7	Soluble	Solid	DI Leach	
890-2160-8	E1-8	Soluble	Solid	DI Leach	
890-2160-9	E1-9	Soluble	Solid	DI Leach	
890-2160-10	E1-10	Soluble	Solid	DI Leach	
890-2160-11	E1-11	Soluble	Solid	DI Leach	
890-2160-12	E1-W1	Soluble	Solid	DI Leach	
890-2160-13	E1-W2	Soluble	Solid	DI Leach	
890-2160-14	E1-W3	Soluble	Solid	DI Leach	
890-2160-15	E1-W4	Soluble	Solid	DI Leach	
MB 880-22962/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-22962/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-22962/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2160-7 MS	E1-7	Soluble	Solid	DI Leach	
890-2160-7 MSD	E1-7	Soluble	Solid	DI Leach	

Analysis Batch: 23033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2160-1	E1-1	Soluble	Solid	300.0	22961
890-2160-2	E1-2	Soluble	Solid	300.0	22961
890-2160-3	E1-3	Soluble	Solid	300.0	22961
890-2160-4	E1-4	Soluble	Solid	300.0	22961
890-2160-5	E1-5	Soluble	Solid	300.0	22961
890-2160-6	E1-6	Soluble	Solid	300.0	22961
MB 880-22961/1-A	Method Blank	Soluble	Solid	300.0	22961
LCS 880-22961/2-A	Lab Control Sample	Soluble	Solid	300.0	22961
LCSD 880-22961/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	22961

Analysis Batch: 23035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2160-7	E1-7	Soluble	Solid	300.0	22962
890-2160-8	E1-8	Soluble	Solid	300.0	22962
890-2160-9	E1-9	Soluble	Solid	300.0	22962
890-2160-10	E1-10	Soluble	Solid	300.0	22962
890-2160-11	E1-11	Soluble	Solid	300.0	22962
890-2160-12	E1-W1	Soluble	Solid	300.0	22962
890-2160-13	E1-W2	Soluble	Solid	300.0	22962
890-2160-14	E1-W3	Soluble	Solid	300.0	22962
890-2160-15	E1-W4	Soluble	Solid	300.0	22962
MB 880-22962/1-A	Method Blank	Soluble	Solid	300.0	22962

Eurofins Carlsbad

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2160-1
SDG: J198

HPLC/IC (Continued)

Analysis Batch: 23035 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-22962/2-A	Lab Control Sample	Soluble	Solid	300.0	22962
LCSD 880-22962/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	22962
890-2160-7 MS	E1-7	Soluble	Solid	300.0	22962
890-2160-7 MSD	E1-7	Soluble	Solid	300.0	22962

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2160-1
SDG: J198

Client Sample ID: E1-1

Lab Sample ID: 890-2160-1

Date Collected: 03/29/22 13:22

Matrix: Solid

Date Received: 03/31/22 16:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	22961	04/04/22 14:42	SC	XEN MID
Soluble	Analysis	300.0		1			23033	04/06/22 10:52	CH	XEN MID

Client Sample ID: E1-2

Lab Sample ID: 890-2160-2

Date Collected: 03/29/22 13:24

Matrix: Solid

Date Received: 03/31/22 16:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	22961	04/04/22 14:42	SC	XEN MID
Soluble	Analysis	300.0		1			23033	04/06/22 11:00	CH	XEN MID

Client Sample ID: E1-3

Lab Sample ID: 890-2160-3

Date Collected: 03/29/22 13:26

Matrix: Solid

Date Received: 03/31/22 16:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	22961	04/04/22 14:42	SC	XEN MID
Soluble	Analysis	300.0		1			23033	04/06/22 11:09	CH	XEN MID

Client Sample ID: E1-4

Lab Sample ID: 890-2160-4

Date Collected: 03/29/22 13:28

Matrix: Solid

Date Received: 03/31/22 16:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	22961	04/04/22 14:42	SC	XEN MID
Soluble	Analysis	300.0		1			23033	04/06/22 11:35	CH	XEN MID

Client Sample ID: E1-5

Lab Sample ID: 890-2160-5

Date Collected: 03/29/22 13:30

Matrix: Solid

Date Received: 03/31/22 16:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	22961	04/04/22 14:42	SC	XEN MID
Soluble	Analysis	300.0		1			23033	04/06/22 11:44	CH	XEN MID

Client Sample ID: E1-6

Lab Sample ID: 890-2160-6

Date Collected: 03/29/22 13:32

Matrix: Solid

Date Received: 03/31/22 16:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	22961	04/04/22 14:42	SC	XEN MID
Soluble	Analysis	300.0		1			23033	04/06/22 11:53	CH	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2160-1
SDG: J198

Client Sample ID: E1-7

Lab Sample ID: 890-2160-7

Date Collected: 03/29/22 13:34

Matrix: Solid

Date Received: 03/31/22 16:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	22962	04/04/22 15:04	SC	XEN MID
Soluble	Analysis	300.0		1			23035	04/05/22 21:17	CH	XEN MID

Client Sample ID: E1-8

Lab Sample ID: 890-2160-8

Date Collected: 03/29/22 13:36

Matrix: Solid

Date Received: 03/31/22 16:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	22962	04/04/22 15:04	SC	XEN MID
Soluble	Analysis	300.0		1			23035	04/05/22 21:43	CH	XEN MID

Client Sample ID: E1-9

Lab Sample ID: 890-2160-9

Date Collected: 03/29/22 13:38

Matrix: Solid

Date Received: 03/31/22 16:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	22962	04/04/22 15:04	SC	XEN MID
Soluble	Analysis	300.0		1			23035	04/05/22 21:52	CH	XEN MID

Client Sample ID: E1-10

Lab Sample ID: 890-2160-10

Date Collected: 03/29/22 13:40

Matrix: Solid

Date Received: 03/31/22 16:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	22962	04/04/22 15:04	SC	XEN MID
Soluble	Analysis	300.0		1			23035	04/05/22 22:01	CH	XEN MID

Client Sample ID: E1-11

Lab Sample ID: 890-2160-11

Date Collected: 03/29/22 13:42

Matrix: Solid

Date Received: 03/31/22 16:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	22962	04/04/22 15:04	SC	XEN MID
Soluble	Analysis	300.0		1			23035	04/05/22 22:10	CH	XEN MID

Client Sample ID: E1-W1

Lab Sample ID: 890-2160-12

Date Collected: 03/29/22 13:42

Matrix: Solid

Date Received: 03/31/22 16:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	22962	04/04/22 15:04	SC	XEN MID
Soluble	Analysis	300.0		1			23035	04/05/22 22:36	CH	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2160-1
SDG: J198

Client Sample ID: E1-W2

Date Collected: 03/29/22 13:44

Date Received: 03/31/22 16:38

Lab Sample ID: 890-2160-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	22962	04/04/22 15:04	SC	XEN MID
Soluble	Analysis	300.0		1			23035	04/06/22 22:42	CH	XEN MID

Client Sample ID: E1-W3

Date Collected: 03/29/22 13:46

Date Received: 03/31/22 16:38

Lab Sample ID: 890-2160-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	22962	04/04/22 15:04	SC	XEN MID
Soluble	Analysis	300.0		1			23035	04/05/22 22:53	CH	XEN MID

Client Sample ID: E1-W4

Date Collected: 03/29/22 13:48

Date Received: 03/31/22 16:38

Lab Sample ID: 890-2160-15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	22962	04/04/22 15:04	SC	XEN MID
Soluble	Analysis	300.0		1			23035	04/05/22 23:02	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2160-1
SDG: J198

Laboratory: Eurofins Midland

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

Method Summary

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2160-1
SDG: J198

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

- ASTM = ASTM International
- MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

Laboratory References:

- XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2160-1
SDG: J198

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2160-1	E1-1	Solid	03/29/22 13:22	03/31/22 16:38	5
890-2160-2	E1-2	Solid	03/29/22 13:24	03/31/22 16:38	5
890-2160-3	E1-3	Solid	03/29/22 13:26	03/31/22 16:38	5
890-2160-4	E1-4	Solid	03/29/22 13:28	03/31/22 16:38	5
890-2160-5	E1-5	Solid	03/29/22 13:30	03/31/22 16:38	5
890-2160-6	E1-6	Solid	03/29/22 13:32	03/31/22 16:38	5
890-2160-7	E1-7	Solid	03/29/22 13:34	03/31/22 16:38	5
890-2160-8	E1-8	Solid	03/29/22 13:36	03/31/22 16:38	5
890-2160-9	E1-9	Solid	03/29/22 13:38	03/31/22 16:38	5
890-2160-10	E1-10	Solid	03/29/22 13:40	03/31/22 16:38	5
890-2160-11	E1-11	Solid	03/29/22 13:42	03/31/22 16:38	3
890-2160-12	E1-W1	Solid	03/29/22 13:42	03/31/22 16:38	0 - 5
890-2160-13	E1-W2	Solid	03/29/22 13:44	03/31/22 16:38	0 - 5
890-2160-14	E1-W3	Solid	03/29/22 13:46	03/31/22 16:38	0 - 5
890-2160-15	E1-W4	Solid	03/29/22 13:48	03/31/22 16:38	0 - 5



Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No: _____

www.xenco.com Page 1 of 2

Project Manager:	Mick Cook	Bill to: (if different)	EOG Resources Inc
Company Name:	Ranger Environmental	Company Name:	40 Klein Street
Address:	P.O. Box 201179	Address:	Channing St
City, State ZIP:	Austin TX 78720	City, State ZIP:	Midland TX 79706
Phone:	512-325-1705	Email:	max@rangerenv.com

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project: New Mexico	
Reporting: Level I ☐ Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADAPT ☐ Other:	

Project Name:	Abuelo Rise	Turn Around	Pre-Analysis Code
Project Number:	5199	☐ Routine ☒ Rush	216
Project Location:	Edgely County	Due Date:	
Sampler's Name:	W. Kennedy	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			
SAMPLE RECEIPT	Temp Blank: ☒ No ☐ Yes	Well Ice: ☒ No ☐ Yes	
Samples Received Inact:	☒ No ☐ Yes	Thermometer ID:	TK-101
Cooler Custody Seals:	☒ No ☐ Yes	Correction Factor:	7.6
Sample Custody Seals:	☒ No ☐ Yes	Temperature Reading:	5.6
Total Containers:		Corrected Temperature:	5.4
Sample Identification	Matrix	Date Sampled	Time
Depth	Grb/Comp	# of Cont	



890-2160 Chain of Custody

Sample Comments

Preservative Codes	
None: NO	DI Water: H ₂ O
Cool: Cool	MeOH: Me
HCL: HCL	HNO ₃ : HN
H ₂ SO ₄ : H ₂	NaOH: Na
H ₃ PO ₄ : HP	
NaHSO ₄ : NABIS	
Na ₂ S ₂ O ₃ : NaSO ₃	
Zn Acetate+NaOH: Zn	
NaOH+Ascorbic Acid: SAPC	

Sample Identification	Matrix	Date Sampled	Time	Depth	Grb/Comp	# of Cont	Parameters
E1-1	Soil	3/2/22	1322	5'		1	Chloride (EPA 300)
E1-2			1324				
E1-3			1326				
E1-4			1328				
E1-5			1330				
E1-6			1332				
E1-7			1334				
E1-8			1336				
E1-9			1338				
E1-10			1340				

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$55.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
W. Kennedy	W. Kennedy	3/1/22 4:38			



Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No: _____

www.xenco.com

Page

2 of 2

Project Manager:	Yves Looik	Bill to: (if different)	EDG Belarova, TX
Company Name:	Ranger Environmental	Company Name:	40 Kern Blvd
Address:	PO Box 201179	Address:	Champions Dr
City, State ZIP:	Austin, TX 78720	City, State ZIP:	Midland, TX 79706
Phone:	512-335-1988	Email:	Max@RangerEnv.com

Program: USTPST	PRP	Brownfields	RRC	Superfund
State of Project:	New Mexico			
Reporting: Level II	Level III	PST/UST	TRRP	Level IV
Deliverables: EDD	Adapt	Other:		

Project Name:	Chabalt River	Turn Around	Pres. Code	ANALYSIS REQUEST	Preservative Codes
Project Number:	579	☐ Routine ☒ Rush			None: NO DI Water: H ₂ O
Project Location:	Edley County	Due Date:			Cool: Cool MeOH: Me
Sampler's Name:	W. Kennedy	TAT starts the day received by the lab, if received by 4:30pm			HCL: HCl HNO ₃ : HN
PO #:					H ₂ SO ₄ : H ₂ NaOH: Na
SAMPLE RECEIPT	Temp Blank:	☒ Yes ☐ No	Wet Ice:	☒ Yes ☐ No	H ₃ PO ₄ : HP
Samples Received Intact:	☒ Yes ☐ No	Thermometer ID:			NaHSO ₄ : NABIS
Cooler Custody Seals:	☒ Yes ☐ No	Correction Factor:			Na ₂ S ₂ O ₃ : NaSO ₃
Sample Custody Seals:	☒ Yes ☐ No	Temperature Reading:			Zn Acetate+NaOH: Zn
Total Containers:		Corrected Temperature:			NaOH+Ascorbic Acid: SACP

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	Sample Comments
E1-21	Soil	3/29/22	1342	3'		1	Chloride (EPA 300)	
E1-22			1342	0'-5'				
E1-23			1344	0'-5'				
E1-24			1346	0'-3'				
E1-25			1348	0'-5'				

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed: TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notes: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$35.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
W. Kennedy		3/22/22 4:30			

1

2

3

4

5

6

7

8

9

10

11

12

13

Login Sample Receipt Checklist

Client: Ranger Environmental Services, Inc

Job Number: 890-2160-1

SDG Number: J198

Login Number: 2160

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ranger Environmental Services, Inc

Job Number: 890-2160-1

SDG Number: J198

Login Number: 2160

List Number: 2

Creator: Teel, Brianna

List Source: Eurofins Midland

List Creation: 04/04/22 07:46 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	



Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-2176-1
Laboratory Sample Delivery Group: 5198
Client Project/Site: Cobalt Riser
Revision: 1

For:
Ranger Environmental Services, Inc
PO BOX 201179
Austin, Texas 78729

Attn: Max Cook

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
4/26/2022 9:51:56 AM

Holly Taylor, Project Manager
(806)794-1296
Holly.Taylor@et.eurofinsus.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Laboratory Job ID: 890-2176-1
SDG: 5198

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	15
QC Sample Results	17
QC Association Summary	21
Lab Chronicle	24
Certification Summary	28
Method Summary	29
Sample Summary	30
Chain of Custody	31
Receipt Checklists	33

1
2
3
4
5
6
7
8
9
10
11
12
13
14

Definitions/Glossary

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2176-1
SDG: 5198

Qualifiers

GC VOA

Qualifier	Qualifier Description
-----------	-----------------------

U	Indicates the analyte was analyzed for but not detected.
---	--

GC Semi VOA

Qualifier	Qualifier Description
-----------	-----------------------

U	Indicates the analyte was analyzed for but not detected.
---	--

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2176-1
SDG: 5198

Job ID: 890-2176-1

Laboratory: Eurofins Carlsbad**Narrative**

**Job Narrative
890-2176-1****Comments**

No additional comments.

Revision

The report being provided is a revision of the original report sent on 4/13/2022. The report (revision 1) is being revised to change the Formatter to show results to the MDL per Will Kierdorf (email).

Receipt

The samples were received on 4/11/2022 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.4° C.

GC VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2176-1
SDG: 5198

Client Sample ID: E1-1A

Lab Sample ID: 890-2176-1

Date Collected: 04/09/22 10:43

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		04/11/22 17:03	04/12/22 17:22	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		04/11/22 17:03	04/12/22 17:22	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		04/11/22 17:03	04/12/22 17:22	1
m,p-Xylenes	<0.00100	U	0.00398	0.00100	mg/Kg		04/11/22 17:03	04/12/22 17:22	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		04/11/22 17:03	04/12/22 17:22	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		04/11/22 17:03	04/12/22 17:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	04/11/22 17:03	04/12/22 17:22	1
1,4-Difluorobenzene (Surr)	103		70 - 130	04/11/22 17:03	04/12/22 17:22	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00398	0.00100	mg/Kg			04/13/22 11:39	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<14.9	U	49.8	14.9	mg/Kg			04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.9	U	49.8	14.9	mg/Kg		04/11/22 15:10	04/11/22 20:57	1
Diesel Range Organics (Over C10-C28)	<14.9	U	49.8	14.9	mg/Kg		04/11/22 15:10	04/11/22 20:57	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.8	14.9	mg/Kg		04/11/22 15:10	04/11/22 20:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	04/11/22 15:10	04/11/22 20:57	1
o-Terphenyl	105		70 - 130	04/11/22 15:10	04/11/22 20:57	1

Client Sample ID: E1-2A

Lab Sample ID: 890-2176-2

Date Collected: 04/09/22 10:45

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00200	0.000386	mg/Kg		04/11/22 17:03	04/12/22 17:42	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg		04/11/22 17:03	04/12/22 17:42	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		04/11/22 17:03	04/12/22 17:42	1
m,p-Xylenes	<0.00101	U	0.00401	0.00101	mg/Kg		04/11/22 17:03	04/12/22 17:42	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg		04/11/22 17:03	04/12/22 17:42	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		04/11/22 17:03	04/12/22 17:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	04/11/22 17:03	04/12/22 17:42	1
1,4-Difluorobenzene (Surr)	102		70 - 130	04/11/22 17:03	04/12/22 17:42	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2176-1
SDG: 5198

Client Sample ID: E1-2A

Date Collected: 04/09/22 10:45

Date Received: 04/11/22 08:00

Sample Depth: 5

Lab Sample ID: 890-2176-2

Matrix: Solid

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00401	0.00101	mg/Kg	-		04/13/22 11:39	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.0	mg/Kg	-		04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 15:10	04/11/22 21:57	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 15:10	04/11/22 21:57	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 15:10	04/11/22 21:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				04/11/22 15:10	04/11/22 21:57	1
o-Terphenyl	116		70 - 130				04/11/22 15:10	04/11/22 21:57	1

Client Sample ID: E1-3A

Date Collected: 04/09/22 10:47

Date Received: 04/11/22 08:00

Sample Depth: 5

Lab Sample ID: 890-2176-3

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00200	0.000386	mg/Kg	-	04/11/22 17:03	04/12/22 18:03	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg	-	04/11/22 17:03	04/12/22 18:03	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg	-	04/11/22 17:03	04/12/22 18:03	1
m,p-Xylenes	<0.00101	U	0.00401	0.00101	mg/Kg	-	04/11/22 17:03	04/12/22 18:03	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg	-	04/11/22 17:03	04/12/22 18:03	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg	-	04/11/22 17:03	04/12/22 18:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				04/11/22 17:03	04/12/22 18:03	1
1,4-Difluorobenzene (Surr)	105		70 - 130				04/11/22 17:03	04/12/22 18:03	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00401	0.00101	mg/Kg	-		04/13/22 11:39	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.9	15.0	mg/Kg	-		04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg	-	04/11/22 15:10	04/11/22 22:17	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg	-	04/11/22 15:10	04/11/22 22:17	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg	-	04/11/22 15:10	04/11/22 22:17	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2176-1
SDG: 5198

Client Sample ID: E1-3A

Date Collected: 04/09/22 10:47

Date Received: 04/11/22 08:00

Sample Depth: 5

Lab Sample ID: 890-2176-3

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	04/11/22 15:10	04/11/22 22:17	1
o-Terphenyl	125		70 - 130	04/11/22 15:10	04/11/22 22:17	1

Client Sample ID: E1-4A

Date Collected: 04/09/22 10:50

Date Received: 04/11/22 08:00

Sample Depth: 5

Lab Sample ID: 890-2176-4

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg		04/11/22 17:03	04/12/22 18:23	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		04/11/22 17:03	04/12/22 18:23	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		04/11/22 17:03	04/12/22 18:23	1
m,p-Xylenes	<0.00101	U	0.00399	0.00101	mg/Kg		04/11/22 17:03	04/12/22 18:23	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		04/11/22 17:03	04/12/22 18:23	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		04/11/22 17:03	04/12/22 18:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				04/11/22 17:03	04/12/22 18:23	1
1,4-Difluorobenzene (Surr)	102		70 - 130				04/11/22 17:03	04/12/22 18:23	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00399	0.00101	mg/Kg			04/13/22 11:39	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<14.9	U	49.8	14.9	mg/Kg			04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.9	U	49.8	14.9	mg/Kg		04/11/22 15:10	04/11/22 22:37	1
Diesel Range Organics (Over C10-C28)	<14.9	U	49.8	14.9	mg/Kg		04/11/22 15:10	04/11/22 22:37	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.8	14.9	mg/Kg		04/11/22 15:10	04/11/22 22:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				04/11/22 15:10	04/11/22 22:37	1
o-Terphenyl	104		70 - 130				04/11/22 15:10	04/11/22 22:37	1

Client Sample ID: E1-5A

Date Collected: 04/09/22 10:53

Date Received: 04/11/22 08:00

Sample Depth: 5

Lab Sample ID: 890-2176-5

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		04/11/22 17:03	04/12/22 18:44	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		04/11/22 17:03	04/12/22 18:44	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		04/11/22 17:03	04/12/22 18:44	1
m,p-Xylenes	<0.00100	U	0.00398	0.00100	mg/Kg		04/11/22 17:03	04/12/22 18:44	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2176-1
SDG: 5198

Client Sample ID: E1-5A

Lab Sample ID: 890-2176-5

Date Collected: 04/09/22 10:53

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg	-	04/11/22 17:03	04/12/22 18:44	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg	-	04/11/22 17:03	04/12/22 18:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				04/11/22 17:03	04/12/22 18:44	1
1,4-Difluorobenzene (Surr)	99		70 - 130				04/11/22 17:03	04/12/22 18:44	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00398	0.00100	mg/Kg	-		04/13/22 11:39	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.9	15.0	mg/Kg	-		04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg	-	04/11/22 15:10	04/11/22 22:57	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg	-	04/11/22 15:10	04/11/22 22:57	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg	-	04/11/22 15:10	04/11/22 22:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				04/11/22 15:10	04/11/22 22:57	1
o-Terphenyl	108		70 - 130				04/11/22 15:10	04/11/22 22:57	1

Client Sample ID: E1-6A

Lab Sample ID: 890-2176-6

Date Collected: 04/09/22 10:55

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg	-	04/11/22 17:03	04/12/22 19:04	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg	-	04/11/22 17:03	04/12/22 19:04	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg	-	04/11/22 17:03	04/12/22 19:04	1
m,p-Xylenes	<0.00101	U	0.00398	0.00101	mg/Kg	-	04/11/22 17:03	04/12/22 19:04	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg	-	04/11/22 17:03	04/12/22 19:04	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg	-	04/11/22 17:03	04/12/22 19:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				04/11/22 17:03	04/12/22 19:04	1
1,4-Difluorobenzene (Surr)	100		70 - 130				04/11/22 17:03	04/12/22 19:04	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00398	0.00101	mg/Kg	-		04/13/22 11:39	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2176-1
SDG: 5198

Client Sample ID: E1-6A

Date Collected: 04/09/22 10:55

Date Received: 04/11/22 08:00

Sample Depth: 5

Lab Sample ID: 890-2176-6

Matrix: Solid

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.0	mg/Kg			04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		04/11/22 15:10	04/11/22 23:18	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		04/11/22 15:10	04/11/22 23:18	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/11/22 15:10	04/11/22 23:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				04/11/22 15:10	04/11/22 23:18	1
o-Terphenyl	111		70 - 130				04/11/22 15:10	04/11/22 23:18	1

Client Sample ID: E1-7A

Date Collected: 04/09/22 10:58

Date Received: 04/11/22 08:00

Sample Depth: 5

Lab Sample ID: 890-2176-7

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg		04/11/22 17:03	04/12/22 19:25	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		04/11/22 17:03	04/12/22 19:25	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		04/11/22 17:03	04/12/22 19:25	1
m,p-Xylenes	<0.00101	U	0.00399	0.00101	mg/Kg		04/11/22 17:03	04/12/22 19:25	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		04/11/22 17:03	04/12/22 19:25	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		04/11/22 17:03	04/12/22 19:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				04/11/22 17:03	04/12/22 19:25	1
1,4-Difluorobenzene (Surr)	101		70 - 130				04/11/22 17:03	04/12/22 19:25	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00399	0.00101	mg/Kg			04/13/22 11:39	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.0	mg/Kg			04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		04/11/22 15:10	04/11/22 23:38	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		04/11/22 15:10	04/11/22 23:38	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/11/22 15:10	04/11/22 23:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				04/11/22 15:10	04/11/22 23:38	1
o-Terphenyl	112		70 - 130				04/11/22 15:10	04/11/22 23:38	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2176-1
SDG: 5198

Client Sample ID: E1-8A

Lab Sample ID: 890-2176-8

Date Collected: 04/09/22 11:00

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000382	U	0.00198	0.000382	mg/Kg		04/11/22 17:03	04/12/22 19:45	1
Toluene	<0.000452	U	0.00198	0.000452	mg/Kg		04/11/22 17:03	04/12/22 19:45	1
Ethylbenzene	<0.000561	U	0.00198	0.000561	mg/Kg		04/11/22 17:03	04/12/22 19:45	1
m,p-Xylenes	<0.00100	U	0.00397	0.00100	mg/Kg		04/11/22 17:03	04/12/22 19:45	1
o-Xylene	<0.000341	U	0.00198	0.000341	mg/Kg		04/11/22 17:03	04/12/22 19:45	1
Xylenes, Total	<0.00100	U	0.00397	0.00100	mg/Kg		04/11/22 17:03	04/12/22 19:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	04/11/22 17:03	04/12/22 19:45	1
1,4-Difluorobenzene (Surr)	103		70 - 130	04/11/22 17:03	04/12/22 19:45	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00397	0.00100	mg/Kg			04/13/22 11:39	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.9	15.0	mg/Kg			04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg		04/11/22 15:10	04/11/22 23:58	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		04/11/22 15:10	04/11/22 23:58	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		04/11/22 15:10	04/11/22 23:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	04/11/22 15:10	04/11/22 23:58	1
o-Terphenyl	116		70 - 130	04/11/22 15:10	04/11/22 23:58	1

Client Sample ID: E1-9A

Lab Sample ID: 890-2176-9

Date Collected: 04/09/22 11:02

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		04/11/22 17:03	04/12/22 20:11	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		04/11/22 17:03	04/12/22 20:11	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		04/11/22 17:03	04/12/22 20:11	1
m,p-Xylenes	<0.00100	U	0.00398	0.00100	mg/Kg		04/11/22 17:03	04/12/22 20:11	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		04/11/22 17:03	04/12/22 20:11	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		04/11/22 17:03	04/12/22 20:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	04/11/22 17:03	04/12/22 20:11	1
1,4-Difluorobenzene (Surr)	98		70 - 130	04/11/22 17:03	04/12/22 20:11	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2176-1
SDG: 5198

Client Sample ID: E1-9A

Lab Sample ID: 890-2176-9

Date Collected: 04/09/22 11:02

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 5

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00398	0.00100	mg/Kg	-		04/13/22 11:39	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.9	15.0	mg/Kg	-		04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg	-	04/11/22 15:10	04/12/22 00:18	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg	-	04/11/22 15:10	04/12/22 00:18	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg	-	04/11/22 15:10	04/12/22 00:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				04/11/22 15:10	04/12/22 00:18	1
o-Terphenyl	102		70 - 130				04/11/22 15:10	04/12/22 00:18	1

Client Sample ID: E1-10A

Lab Sample ID: 890-2176-10

Date Collected: 04/09/22 11:03

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg	-	04/11/22 17:03	04/12/22 20:40	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg	-	04/11/22 17:03	04/12/22 20:40	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg	-	04/11/22 17:03	04/12/22 20:40	1
m,p-Xylenes	<0.00101	U	0.00399	0.00101	mg/Kg	-	04/11/22 17:03	04/12/22 20:40	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg	-	04/11/22 17:03	04/12/22 20:40	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg	-	04/11/22 17:03	04/12/22 20:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				04/11/22 17:03	04/12/22 20:40	1
1,4-Difluorobenzene (Surr)	100		70 - 130				04/11/22 17:03	04/12/22 20:40	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00399	0.00101	mg/Kg	-		04/13/22 11:39	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.0	mg/Kg	-		04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 15:10	04/12/22 00:38	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 15:10	04/12/22 00:38	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 15:10	04/12/22 00:38	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2176-1
SDG: 5198

Client Sample ID: E1-10A

Date Collected: 04/09/22 11:03

Date Received: 04/11/22 08:00

Sample Depth: 5

Lab Sample ID: 890-2176-10

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	04/11/22 15:10	04/12/22 00:38	1
o-Terphenyl	108		70 - 130	04/11/22 15:10	04/12/22 00:38	1

Client Sample ID: E1-11A

Date Collected: 04/09/22 11:05

Date Received: 04/11/22 08:00

Sample Depth: 4.5

Lab Sample ID: 890-2176-11

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg		04/12/22 14:43	04/13/22 00:38	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		04/12/22 14:43	04/13/22 00:38	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		04/12/22 14:43	04/13/22 00:38	1
m,p-Xylenes	<0.00101	U	0.00399	0.00101	mg/Kg		04/12/22 14:43	04/13/22 00:38	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		04/12/22 14:43	04/13/22 00:38	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		04/12/22 14:43	04/13/22 00:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				04/12/22 14:43	04/13/22 00:38	1
1,4-Difluorobenzene (Surr)	95		70 - 130				04/12/22 14:43	04/13/22 00:38	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00399	0.00101	mg/Kg			04/13/22 11:39	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.9	15.0	mg/Kg			04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg		04/11/22 15:10	04/12/22 01:19	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		04/11/22 15:10	04/12/22 01:19	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		04/11/22 15:10	04/12/22 01:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				04/11/22 15:10	04/12/22 01:19	1
o-Terphenyl	122		70 - 130				04/11/22 15:10	04/12/22 01:19	1

Client Sample ID: E1-W1A

Date Collected: 04/09/22 11:10

Date Received: 04/11/22 08:00

Sample Depth: 0 - 5

Lab Sample ID: 890-2176-12

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00200	0.000386	mg/Kg		04/12/22 14:43	04/13/22 00:59	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg		04/12/22 14:43	04/13/22 00:59	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		04/12/22 14:43	04/13/22 00:59	1
m,p-Xylenes	<0.00101	U	0.00401	0.00101	mg/Kg		04/12/22 14:43	04/13/22 00:59	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2176-1
SDG: 5198

Client Sample ID: E1-W1A

Lab Sample ID: 890-2176-12

Date Collected: 04/09/22 11:10

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 0 - 5

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg	-	04/12/22 14:43	04/13/22 00:59	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg	-	04/12/22 14:43	04/13/22 00:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130				04/12/22 14:43	04/13/22 00:59	1
1,4-Difluorobenzene (Surr)	94		70 - 130				04/12/22 14:43	04/13/22 00:59	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00401	0.00101	mg/Kg	-		04/13/22 11:39	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.0	mg/Kg	-		04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 15:10	04/12/22 01:39	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 15:10	04/12/22 01:39	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 15:10	04/12/22 01:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				04/11/22 15:10	04/12/22 01:39	1
o-Terphenyl	110		70 - 130				04/11/22 15:10	04/12/22 01:39	1

Client Sample ID: E1-W2A

Lab Sample ID: 890-2176-13

Date Collected: 04/09/22 11:12

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 0 - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00201	0.000387	mg/Kg	-	04/12/22 14:43	04/13/22 01:19	1
Toluene	<0.000459	U	0.00201	0.000459	mg/Kg	-	04/12/22 14:43	04/13/22 01:19	1
Ethylbenzene	<0.000568	U	0.00201	0.000568	mg/Kg	-	04/12/22 14:43	04/13/22 01:19	1
m,p-Xylenes	<0.00102	U	0.00402	0.00102	mg/Kg	-	04/12/22 14:43	04/13/22 01:19	1
o-Xylene	<0.000346	U	0.00201	0.000346	mg/Kg	-	04/12/22 14:43	04/13/22 01:19	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg	-	04/12/22 14:43	04/13/22 01:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				04/12/22 14:43	04/13/22 01:19	1
1,4-Difluorobenzene (Surr)	98		70 - 130				04/12/22 14:43	04/13/22 01:19	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00402	0.00102	mg/Kg	-		04/13/22 11:39	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2176-1
SDG: 5198

Client Sample ID: E1-W2A

Date Collected: 04/09/22 11:12

Date Received: 04/11/22 08:00

Sample Depth: 0 - 5

Lab Sample ID: 890-2176-13

Matrix: Solid

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.0	mg/Kg			04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		04/11/22 15:10	04/12/22 01:59	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		04/11/22 15:10	04/12/22 01:59	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/11/22 15:10	04/12/22 01:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				04/11/22 15:10	04/12/22 01:59	1
o-Terphenyl	109		70 - 130				04/11/22 15:10	04/12/22 01:59	1

Client Sample ID: E1-W3A

Date Collected: 04/09/22 11:15

Date Received: 04/11/22 08:00

Sample Depth: 0 - 5

Lab Sample ID: 890-2176-14

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000389	U	0.00202	0.000389	mg/Kg		04/12/22 14:43	04/13/22 01:39	1
Toluene	<0.000461	U	0.00202	0.000461	mg/Kg		04/12/22 14:43	04/13/22 01:39	1
Ethylbenzene	<0.000571	U	0.00202	0.000571	mg/Kg		04/12/22 14:43	04/13/22 01:39	1
m,p-Xylenes	<0.00102	U	0.00404	0.00102	mg/Kg		04/12/22 14:43	04/13/22 01:39	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg		04/12/22 14:43	04/13/22 01:39	1
Xylenes, Total	<0.00102	U	0.00404	0.00102	mg/Kg		04/12/22 14:43	04/13/22 01:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				04/12/22 14:43	04/13/22 01:39	1
1,4-Difluorobenzene (Surr)	94		70 - 130				04/12/22 14:43	04/13/22 01:39	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00404	0.00102	mg/Kg			04/13/22 11:39	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.0	mg/Kg			04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		04/11/22 15:10	04/12/22 02:20	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		04/11/22 15:10	04/12/22 02:20	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/11/22 15:10	04/12/22 02:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				04/11/22 15:10	04/12/22 02:20	1
o-Terphenyl	108		70 - 130				04/11/22 15:10	04/12/22 02:20	1

Eurofins Carlsbad

Surrogate Summary

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2176-1
SDG: 5198

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
890-2176-1	E1-1A	98	103
890-2176-2	E1-2A	98	102
890-2176-3	E1-3A	107	105
890-2176-4	E1-4A	107	102
890-2176-5	E1-5A	101	99
890-2176-6	E1-6A	102	100
890-2176-7	E1-7A	105	101
890-2176-8	E1-8A	109	103
890-2176-9	E1-9A	95	98
890-2176-10	E1-10A	103	100
890-2176-11	E1-11A	110	95
890-2176-11 MS	E1-11A	97	102
890-2176-11 MSD	E1-11A	98	90
890-2176-12	E1-W1A	92	94
890-2176-13	E1-W2A	104	98
890-2176-14	E1-W3A	102	94
LCS 880-23328/1-A	Lab Control Sample	96	104
LCS 880-23399/1-A	Lab Control Sample	99	103
LCSD 880-23328/2-A	Lab Control Sample Dup	94	102
LCSD 880-23399/2-A	Lab Control Sample Dup	100	102
MB 880-23328/5-A	Method Blank	97	100
MB 880-23399/5-A	Method Blank	100	96
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
890-2176-1	E1-1A	95	105
890-2176-1 MS	E1-1A	94	97
890-2176-1 MSD	E1-1A	89	89
890-2176-2	E1-2A	102	116
890-2176-3	E1-3A	102	125
890-2176-4	E1-4A	96	104
890-2176-5	E1-5A	97	108
890-2176-6	E1-6A	96	111
890-2176-7	E1-7A	96	112
890-2176-8	E1-8A	99	116
890-2176-9	E1-9A	91	102
890-2176-10	E1-10A	95	108
890-2176-11	E1-11A	100	122
890-2176-12	E1-W1A	94	110
890-2176-13	E1-W2A	95	109
890-2176-14	E1-W3A	92	108
LCS 880-23312/2-A	Lab Control Sample	85	89

Eurofins Carlsbad

Surrogate Summary

Client: Ranger Environmental Services, Inc

Job ID: 890-2176-1

Project/Site: Cobalt Riser

SDG: 5198

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
LCSD 880-23312/3-A	Lab Control Sample Dup	86	85
MB 880-23312/1-A	Method Blank	108	127
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2176-1
SDG: 5198

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-23328/5-A

Matrix: Solid

Analysis Batch: 23365

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23328

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		04/11/22 17:03	04/12/22 11:58	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		04/11/22 17:03	04/12/22 11:58	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		04/11/22 17:03	04/12/22 11:58	1
m,p-Xylenes	<0.00101	U	0.00400	0.00101	mg/Kg		04/11/22 17:03	04/12/22 11:58	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		04/11/22 17:03	04/12/22 11:58	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		04/11/22 17:03	04/12/22 11:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		87 - 017	743003 / 0821	7430 / 3 / 002 ,	0
0,0-di-fluorobenzene (Surr)	077		87 - 017	743003 / 0821	7430 / 3 / 002 ,	0

Lab Sample ID: LCS 880-23328/1-A

Matrix: Solid

Analysis Batch: 23365

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 23328

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08329		mg/Kg		83	70 - 130
Toluene	0.100	0.09279		mg/Kg		93	70 - 130
Ethylbenzene	0.100	0.09605		mg/Kg		96	70 - 130
m,p-Xylenes	0.200	0.1926		mg/Kg		96	70 - 130
o-Xylene	0.100	0.09385		mg/Kg		94	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	9h		87 - 017
0,0-di-fluorobenzene (Surr)	074		87 - 017

Lab Sample ID: LCSD 880-23328/2-A

Matrix: Solid

Analysis Batch: 23365

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 23328

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.08654		mg/Kg		87	70 - 130	4	35
Toluene	0.100	0.09625		mg/Kg		96	70 - 130	4	35
Ethylbenzene	0.100	0.09917		mg/Kg		99	70 - 130	3	35
m,p-Xylenes	0.200	0.1983		mg/Kg		99	70 - 130	3	35
o-Xylene	0.100	0.09711		mg/Kg		97	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		87 - 017
0,0-di-fluorobenzene (Surr)	071		87 - 017

Lab Sample ID: MB 880-23399/5-A

Matrix: Solid

Analysis Batch: 23365

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23399

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		04/12/22 14:43	04/13/22 00:09	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		04/12/22 14:43	04/13/22 00:09	1

Eurofins Carlsbad

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2176-1
SDG: 5198

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-23399/5-A

Matrix: Solid

Analysis Batch: 23365

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23399

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		04/12/22 14:43	04/13/22 00:09	1
m,p-Xylenes	<0.00101	U	0.00400	0.00101	mg/Kg		04/12/22 14:43	04/13/22 00:09	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		04/12/22 14:43	04/13/22 00:09	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		04/12/22 14:43	04/13/22 00:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	077		87 - 017	7430/3/04241	743013/7729	0
014-i Fluorobenzene (Surr)	9h		87 - 017	7430/3/04241	743013/7729	0

Lab Sample ID: LCS 880-23399/1-A

Matrix: Solid

Analysis Batch: 23365

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 23399

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08430		mg/Kg		84	70 - 130
Toluene	0.100	0.09329		mg/Kg		93	70 - 130
Ethylbenzene	0.100	0.09666		mg/Kg		97	70 - 130
m,p-Xylenes	0.200	0.1931		mg/Kg		97	70 - 130
o-Xylene	0.100	0.09657		mg/Kg		97	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		87 - 017
014-i Fluorobenzene (Surr)	071		87 - 017

Lab Sample ID: LCSD 880-23399/2-A

Matrix: Solid

Analysis Batch: 23365

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 23399

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.08654		mg/Kg		87	70 - 130	3	35
Toluene	0.100	0.09685		mg/Kg		97	70 - 130	4	35
Ethylbenzene	0.100	0.1007		mg/Kg		101	70 - 130	4	35
m,p-Xylenes	0.200	0.2012		mg/Kg		101	70 - 130	4	35
o-Xylene	0.100	0.1001		mg/Kg		100	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	077		87 - 017
014-i Fluorobenzene (Surr)	071		87 - 017

Lab Sample ID: 890-2176-11 MS

Matrix: Solid

Analysis Batch: 23365

Client Sample ID: E1-11A

Prep Type: Total/NA

Prep Batch: 23399

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.000384	U	0.100	0.1241		mg/Kg		124	70 - 130
Toluene	<0.000455	U	0.100	0.1247		mg/Kg		124	70 - 130
Ethylbenzene	<0.000564	U	0.100	0.1125		mg/Kg		112	70 - 130
m,p-Xylenes	<0.00101	U	0.200	0.2328		mg/Kg		116	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2176-1
SDG: 5198

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-2176-11 MS

Matrix: Solid

Analysis Batch: 23365

Client Sample ID: E1-11A

Prep Type: Total/NA

Prep Batch: 23399

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	<0.000343	U	0.100	0.1091		mg/Kg		109	70 - 130

Surrogate	MS %Recovery	MS Qualifier	MS Limits
4-Bromofluorobenzene (Surr)	98		87 - 017
0,4-di Fluorobenzene (Surr)	07/		87 - 017

Lab Sample ID: 890-2176-11 MSD

Matrix: Solid

Analysis Batch: 23365

Client Sample ID: E1-11A

Prep Type: Total/NA

Prep Batch: 23399

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.000384	U	0.101	0.09602		mg/Kg		95	70 - 130	26	35
Toluene	<0.000455	U	0.101	0.1114		mg/Kg		111	70 - 130	11	35
Ethylbenzene	<0.000564	U	0.101	0.1028		mg/Kg		102	70 - 130	9	35
m,p-Xylenes	<0.00101	U	0.202	0.2151		mg/Kg		107	70 - 130	8	35
o-Xylene	<0.000343	U	0.101	0.1007		mg/Kg		100	70 - 130	8	35

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
4-Bromofluorobenzene (Surr)	9,		87 - 017
0,4-di Fluorobenzene (Surr)	97		87 - 017

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-23312/1-A

Matrix: Solid

Analysis Batch: 23281

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23312

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		04/11/22 15:10	04/11/22 19:55	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		04/11/22 15:10	04/11/22 19:55	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/11/22 15:10	04/11/22 19:55	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
0-c t l o r o o a 5 T n e	07,		87 - 017	743003 / 0: 207	743003 / 092 :	0
o-p e r y t e n d l	0/ 8		87 - 017	743003 / 0: 207	743003 / 092 :	0

Lab Sample ID: LCS 880-23312/2-A

Matrix: Solid

Analysis Batch: 23281

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 23312

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	700.4		mg/Kg		70	70 - 130
Diesel Range Organics (Over C10-C28)	1000	806.5		mg/Kg		81	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2176-1
SDG: 5198

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-23312/2-A

Matrix: Solid

Analysis Batch: 23281

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 23312

Surrogate	LCS %Recovery	LCS Qualifier	Limits
0-c t l o r o o a 5 T n e	, :		87 - 017
o-p e r y t e n 6 l	, 9		87 - 017

Lab Sample ID: LCSD 880-23312/3-A

Matrix: Solid

Analysis Batch: 23281

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 23312

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	743.4		mg/Kg		74	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	1000	823.4		mg/Kg		82	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
0-c t l o r o o a 5 T n e	, h		87 - 017
o-p e r y t e n 6 l	, :		87 - 017

Lab Sample ID: 890-2176-1 MS

Matrix: Solid

Analysis Batch: 23281

Client Sample ID: E1-1A

Prep Type: Total/NA

Prep Batch: 23312

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<14.9	U	998	921.6		mg/Kg		92	70 - 130
Diesel Range Organics (Over C10-C28)	<14.9	U	998	876.0		mg/Kg		88	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
0-c t l o r o o a 5 T n e	94		87 - 017
o-p e r y t e n 6 l	98		87 - 017

Lab Sample ID: 890-2176-1 MSD

Matrix: Solid

Analysis Batch: 23281

Client Sample ID: E1-1A

Prep Type: Total/NA

Prep Batch: 23312

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<14.9	U	999	943.6		mg/Kg		94	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<14.9	U	999	806.1		mg/Kg		81	70 - 130	8	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
0-c t l o r o o a 5 T n e	, 9		87 - 017
o-p e r y t e n 6 l	, 9		87 - 017

Eurofins Carlsbad

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2176-1
SDG: 5198

GC VOA

Prep Batch: 23328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2176-1	E1-1A	Total/NA	Solid	5035	
890-2176-2	E1-2A	Total/NA	Solid	5035	
890-2176-3	E1-3A	Total/NA	Solid	5035	
890-2176-4	E1-4A	Total/NA	Solid	5035	
890-2176-5	E1-5A	Total/NA	Solid	5035	
890-2176-6	E1-6A	Total/NA	Solid	5035	
890-2176-7	E1-7A	Total/NA	Solid	5035	
890-2176-8	E1-8A	Total/NA	Solid	5035	
890-2176-9	E1-9A	Total/NA	Solid	5035	
890-2176-10	E1-10A	Total/NA	Solid	5035	
MB 880-23328/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-23328/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-23328/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 23365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2176-1	E1-1A	Total/NA	Solid	8021B	23328
890-2176-2	E1-2A	Total/NA	Solid	8021B	23328
890-2176-3	E1-3A	Total/NA	Solid	8021B	23328
890-2176-4	E1-4A	Total/NA	Solid	8021B	23328
890-2176-5	E1-5A	Total/NA	Solid	8021B	23328
890-2176-6	E1-6A	Total/NA	Solid	8021B	23328
890-2176-7	E1-7A	Total/NA	Solid	8021B	23328
890-2176-8	E1-8A	Total/NA	Solid	8021B	23328
890-2176-9	E1-9A	Total/NA	Solid	8021B	23328
890-2176-10	E1-10A	Total/NA	Solid	8021B	23328
890-2176-11	E1-11A	Total/NA	Solid	8021B	23399
890-2176-12	E1-W1A	Total/NA	Solid	8021B	23399
890-2176-13	E1-W2A	Total/NA	Solid	8021B	23399
890-2176-14	E1-W3A	Total/NA	Solid	8021B	23399
MB 880-23328/5-A	Method Blank	Total/NA	Solid	8021B	23328
MB 880-23399/5-A	Method Blank	Total/NA	Solid	8021B	23399
LCS 880-23328/1-A	Lab Control Sample	Total/NA	Solid	8021B	23328
LCS 880-23399/1-A	Lab Control Sample	Total/NA	Solid	8021B	23399
LCSD 880-23328/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	23328
LCSD 880-23399/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	23399
890-2176-11 MS	E1-11A	Total/NA	Solid	8021B	23399
890-2176-11 MSD	E1-11A	Total/NA	Solid	8021B	23399

Prep Batch: 23399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2176-11	E1-11A	Total/NA	Solid	5035	
890-2176-12	E1-W1A	Total/NA	Solid	5035	
890-2176-13	E1-W2A	Total/NA	Solid	5035	
890-2176-14	E1-W3A	Total/NA	Solid	5035	
MB 880-23399/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-23399/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-23399/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2176-11 MS	E1-11A	Total/NA	Solid	5035	
890-2176-11 MSD	E1-11A	Total/NA	Solid	5035	

Eurofins Carlsbad

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2176-1
SDG: 5198

GC VOA

Analysis Batch: 23462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2176-1	E1-1A	Total/NA	Solid	Total BTEX	
890-2176-2	E1-2A	Total/NA	Solid	Total BTEX	
890-2176-3	E1-3A	Total/NA	Solid	Total BTEX	
890-2176-4	E1-4A	Total/NA	Solid	Total BTEX	
890-2176-5	E1-5A	Total/NA	Solid	Total BTEX	
890-2176-6	E1-6A	Total/NA	Solid	Total BTEX	
890-2176-7	E1-7A	Total/NA	Solid	Total BTEX	
890-2176-8	E1-8A	Total/NA	Solid	Total BTEX	
890-2176-9	E1-9A	Total/NA	Solid	Total BTEX	
890-2176-10	E1-10A	Total/NA	Solid	Total BTEX	
890-2176-11	E1-11A	Total/NA	Solid	Total BTEX	
890-2176-12	E1-W1A	Total/NA	Solid	Total BTEX	
890-2176-13	E1-W2A	Total/NA	Solid	Total BTEX	
890-2176-14	E1-W3A	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 23281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2176-1	E1-1A	Total/NA	Solid	8015B NM	23312
890-2176-2	E1-2A	Total/NA	Solid	8015B NM	23312
890-2176-3	E1-3A	Total/NA	Solid	8015B NM	23312
890-2176-4	E1-4A	Total/NA	Solid	8015B NM	23312
890-2176-5	E1-5A	Total/NA	Solid	8015B NM	23312
890-2176-6	E1-6A	Total/NA	Solid	8015B NM	23312
890-2176-7	E1-7A	Total/NA	Solid	8015B NM	23312
890-2176-8	E1-8A	Total/NA	Solid	8015B NM	23312
890-2176-9	E1-9A	Total/NA	Solid	8015B NM	23312
890-2176-10	E1-10A	Total/NA	Solid	8015B NM	23312
890-2176-11	E1-11A	Total/NA	Solid	8015B NM	23312
890-2176-12	E1-W1A	Total/NA	Solid	8015B NM	23312
890-2176-13	E1-W2A	Total/NA	Solid	8015B NM	23312
890-2176-14	E1-W3A	Total/NA	Solid	8015B NM	23312
MB 880-23312/1-A	Method Blank	Total/NA	Solid	8015B NM	23312
LCS 880-23312/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	23312
LCSD 880-23312/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	23312
890-2176-1 MS	E1-1A	Total/NA	Solid	8015B NM	23312
890-2176-1 MSD	E1-1A	Total/NA	Solid	8015B NM	23312

Prep Batch: 23312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2176-1	E1-1A	Total/NA	Solid	8015NM Prep	
890-2176-2	E1-2A	Total/NA	Solid	8015NM Prep	
890-2176-3	E1-3A	Total/NA	Solid	8015NM Prep	
890-2176-4	E1-4A	Total/NA	Solid	8015NM Prep	
890-2176-5	E1-5A	Total/NA	Solid	8015NM Prep	
890-2176-6	E1-6A	Total/NA	Solid	8015NM Prep	
890-2176-7	E1-7A	Total/NA	Solid	8015NM Prep	
890-2176-8	E1-8A	Total/NA	Solid	8015NM Prep	
890-2176-9	E1-9A	Total/NA	Solid	8015NM Prep	
890-2176-10	E1-10A	Total/NA	Solid	8015NM Prep	

Eurofins Carlsbad

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2176-1
SDG: 5198

GC Semi VOA (Continued)

Prep Batch: 23312 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2176-11	E1-11A	Total/NA	Solid	8015NM Prep	
890-2176-12	E1-W1A	Total/NA	Solid	8015NM Prep	
890-2176-13	E1-W2A	Total/NA	Solid	8015NM Prep	
890-2176-14	E1-W3A	Total/NA	Solid	8015NM Prep	
MB 880-23312/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-23312/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-23312/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2176-1 MS	E1-1A	Total/NA	Solid	8015NM Prep	
890-2176-1 MSD	E1-1A	Total/NA	Solid	8015NM Prep	

Analysis Batch: 23372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2176-1	E1-1A	Total/NA	Solid	8015 NM	
890-2176-2	E1-2A	Total/NA	Solid	8015 NM	
890-2176-3	E1-3A	Total/NA	Solid	8015 NM	
890-2176-4	E1-4A	Total/NA	Solid	8015 NM	
890-2176-5	E1-5A	Total/NA	Solid	8015 NM	
890-2176-6	E1-6A	Total/NA	Solid	8015 NM	
890-2176-7	E1-7A	Total/NA	Solid	8015 NM	
890-2176-8	E1-8A	Total/NA	Solid	8015 NM	
890-2176-9	E1-9A	Total/NA	Solid	8015 NM	
890-2176-10	E1-10A	Total/NA	Solid	8015 NM	
890-2176-11	E1-11A	Total/NA	Solid	8015 NM	
890-2176-12	E1-W1A	Total/NA	Solid	8015 NM	
890-2176-13	E1-W2A	Total/NA	Solid	8015 NM	
890-2176-14	E1-W3A	Total/NA	Solid	8015 NM	

Eurofins Carlsbad

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2176-1
SDG: 5198

Client Sample ID: E1-1A

Date Collected: 04/09/22 10:43

Date Received: 04/11/22 08:00

Lab Sample ID: 890-2176-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	23328	04/11/22 17:03	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23365	04/12/22 17:22	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23462	04/13/22 11:39	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23372	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	23312	04/11/22 15:10	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23281	04/11/22 20:57	AJ	XEN MID

Client Sample ID: E1-2A

Date Collected: 04/09/22 10:45

Date Received: 04/11/22 08:00

Lab Sample ID: 890-2176-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	23328	04/11/22 17:03	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23365	04/12/22 17:42	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23462	04/13/22 11:39	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23372	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23312	04/11/22 15:10	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23281	04/11/22 21:57	AJ	XEN MID

Client Sample ID: E1-3A

Date Collected: 04/09/22 10:47

Date Received: 04/11/22 08:00

Lab Sample ID: 890-2176-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	23328	04/11/22 17:03	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23365	04/12/22 18:03	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23462	04/13/22 11:39	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23372	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23312	04/11/22 15:10	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23281	04/11/22 22:17	AJ	XEN MID

Client Sample ID: E1-4A

Date Collected: 04/09/22 10:50

Date Received: 04/11/22 08:00

Lab Sample ID: 890-2176-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	23328	04/11/22 17:03	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23365	04/12/22 18:23	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23462	04/13/22 11:39	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23372	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	23312	04/11/22 15:10	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23281	04/11/22 22:37	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2176-1
SDG: 5198

Client Sample ID: E1-5A

Date Collected: 04/09/22 10:53

Date Received: 04/11/22 08:00

Lab Sample ID: 890-2176-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	23328	04/11/22 17:03	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23365	04/12/22 18:44	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23462	04/13/22 11:39	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23372	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	23312	04/11/22 15:10	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23281	04/11/22 22:57	AJ	XEN MID

Client Sample ID: E1-6A

Date Collected: 04/09/22 10:55

Date Received: 04/11/22 08:00

Lab Sample ID: 890-2176-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	23328	04/11/22 17:03	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23365	04/12/22 19:04	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23462	04/13/22 11:39	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23372	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	23312	04/11/22 15:10	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23281	04/11/22 23:18	AJ	XEN MID

Client Sample ID: E1-7A

Date Collected: 04/09/22 10:58

Date Received: 04/11/22 08:00

Lab Sample ID: 890-2176-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	23328	04/11/22 17:03	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23365	04/12/22 19:25	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23462	04/13/22 11:39	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23372	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23312	04/11/22 15:10	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23281	04/11/22 23:38	AJ	XEN MID

Client Sample ID: E1-8A

Date Collected: 04/09/22 11:00

Date Received: 04/11/22 08:00

Lab Sample ID: 890-2176-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	23328	04/11/22 17:03	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23365	04/12/22 19:45	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23462	04/13/22 11:39	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23372	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23312	04/11/22 15:10	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23281	04/11/22 23:58	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2176-1
SDG: 5198

Client Sample ID: E1-9A

Date Collected: 04/09/22 11:02

Date Received: 04/11/22 08:00

Lab Sample ID: 890-2176-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	23328	04/11/22 17:03	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23365	04/12/22 20:11	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23462	04/13/22 11:39	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23372	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23312	04/11/22 15:10	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23281	04/12/22 00:18	AJ	XEN MID

Client Sample ID: E1-10A

Date Collected: 04/09/22 11:03

Date Received: 04/11/22 08:00

Lab Sample ID: 890-2176-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	23328	04/11/22 17:03	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23365	04/12/22 20:40	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23462	04/13/22 11:39	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23372	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23312	04/11/22 15:10	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23281	04/12/22 00:38	AJ	XEN MID

Client Sample ID: E1-11A

Date Collected: 04/09/22 11:05

Date Received: 04/11/22 08:00

Lab Sample ID: 890-2176-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	23399	04/12/22 14:43	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23365	04/13/22 00:38	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23462	04/13/22 11:39	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23372	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	23312	04/11/22 15:10	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23281	04/12/22 01:19	AJ	XEN MID

Client Sample ID: E1-W1A

Date Collected: 04/09/22 11:10

Date Received: 04/11/22 08:00

Lab Sample ID: 890-2176-12

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	23399	04/12/22 14:43	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23365	04/13/22 00:59	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23462	04/13/22 11:39	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23372	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23312	04/11/22 15:10	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23281	04/12/22 01:39	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2176-1
SDG: 5198

Client Sample ID: E1-W2A

Lab Sample ID: 890-2176-13

Date Collected: 04/09/22 11:12

Matrix: Solid

Date Received: 04/11/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	23399	04/12/22 14:43	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23365	04/13/22 01:19	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23462	04/13/22 11:39	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23372	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	23312	04/11/22 15:10	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23281	04/12/22 01:59	AJ	XEN MID

Client Sample ID: E1-W3A

Lab Sample ID: 890-2176-14

Date Collected: 04/09/22 11:15

Matrix: Solid

Date Received: 04/11/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	23399	04/12/22 14:43	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23365	04/13/22 01:39	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23462	04/13/22 11:39	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23372	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23312	04/11/22 15:10	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23281	04/12/22 02:20	AJ	XEN MID

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2176-1
SDG: 5198

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2176-1
SDG: 5198

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2176-1
SDG: 5198

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2176-1	E1-1A	Solid	04/09/22 10:43	04/11/22 08:00	5
890-2176-2	E1-2A	Solid	04/09/22 10:45	04/11/22 08:00	5
890-2176-3	E1-3A	Solid	04/09/22 10:47	04/11/22 08:00	5
890-2176-4	E1-4A	Solid	04/09/22 10:50	04/11/22 08:00	5
890-2176-5	E1-5A	Solid	04/09/22 10:53	04/11/22 08:00	5
890-2176-6	E1-6A	Solid	04/09/22 10:55	04/11/22 08:00	5
890-2176-7	E1-7A	Solid	04/09/22 10:58	04/11/22 08:00	5
890-2176-8	E1-8A	Solid	04/09/22 11:00	04/11/22 08:00	5
890-2176-9	E1-9A	Solid	04/09/22 11:02	04/11/22 08:00	5
890-2176-10	E1-10A	Solid	04/09/22 11:03	04/11/22 08:00	5
890-2176-11	E1-11A	Solid	04/09/22 11:05	04/11/22 08:00	4.5
890-2176-12	E1-W1A	Solid	04/09/22 11:10	04/11/22 08:00	0 - 5
890-2176-13	E1-W2A	Solid	04/09/22 11:12	04/11/22 08:00	0 - 5
890-2176-14	E1-W3A	Solid	04/09/22 11:15	04/11/22 08:00	0 - 5



Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Environment Testing

Xenco

Work Order No:

www.xenco.com Page 1 of 2

Project Manager: **MAX GORR**
Company Name: **RANGER ENV**
Address: **PO BOX 301179**
City, State ZIP: **AUSTIN TX 78729**
Phone: **512-335-1785**

Bill to: (if different)
Company Name: **ATM MA KEVIN BLACH**
Address: **5509 CAMPENNS DR**
City, State ZIP: **MIDLAND TX 79705**
Email: **MAX@DANGERENV.COM**

Program: ☐ UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project: ☐ Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Reporting: ☐ Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: ☐ EDD ☐ ADAPT ☐ Other:

Project Name: **COALR AREA**
Project Number: **S198**
Project Location: **LEA CO NM**
Sampler's Name: **W. KIERONCE**
PO #: **1**

Turn Around: ☒ Routine ☐ Rush
Due Date: **10-2**
TAT starts the day received by the lab, if received by 4:30pm

Temp Blank: ☒ Yes ☐ No
Thermometer ID: **10002**
Correction Factor: **-0.2**
Temperature Reading: **1.8**
Corrected Temperature: **1.4**

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters		Pres. Code	ANALYSIS REQUEST		Preservative Codes
							Temp	PH				
E1-1A	SOIL	4/19/22	1043	5'	OMP	1						None: NO Cool: Cool HCL: HC H ₂ SO ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₅ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC
E1-2A			1045									
E1-3A			1047									
E1-4A			1050									
E1-5A			1053									
E1-6A			1055									
E1-7A			1058									
E1-8A			1100									
E1-9A			1102									
E1-10A			1103									

Barcode: 890-2176 Chain of Custody

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	4/11/22 0800			

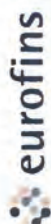
Revised Date 08/25/2020 Rev. 2020.2

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Environment Testing

Xenco



Work Order No:

www.xenco.com Page 2 of 2

Project Manager: _____

Company Name: _____

Address: _____

City, State ZIP: _____

Phone: _____

Bill to: (if different)
Company Name: _____
Address: _____
City, State ZIP: _____
Email: _____

Work Order Comments
Program: ☐ UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project: _____
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADAPT ☐ Other: _____

Project Name: Capitol Hill

Project Number: 5198

Project Location: LEA Co NM

Sampler's Name: W. KICCOUSE

PO #: _____

Turn Around
☒ Routine ☐ Rush

Due Date: _____

TAT starts the day received by the lab, if received by 4:30pm

Temp Blank: Yes ☐ No ☐ Wet Ice: Yes ☐ No ☐

Samples Received Intact: Yes ☐ No ☐ Thermometer ID: _____

Cooler Custody Seals: Yes ☐ No ☐ Correction Factor: _____

Sample Custody Seals: Yes ☐ No ☐ Temperature Reading: _____

Total Containers: _____

SAMPLE RECEIPT				ANALYSIS REQUEST				Preservative Codes	
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Pres. Code		
E1-11A	SOIL	4/9/22	1105	4.5'	Comp	1		None: NO	DI Water: H ₂ O
E1-11A			1110	0.5'				Cool: Cool	MeOH: Me
E1-11A			1112	0.5'				HCL: HC	HNO ₃ : HN
E1-11A			1115	0.5'				H ₂ SO ₄ : H ₂	NaOH: Na
								H ₃ PO ₄ : HP	
								NaHSO ₄ : NABIS	
								Na ₂ S ₂ O ₃ : NaSO ₃	
								Zn Acetate+NaOH: Zn	
								NaOH+Ascorbic Acid: SAPC	
								Sample Comments	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<u>[Signature]</u>	<u>[Signature]</u>	4/11/22 0800

Revised Date: 06/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ranger Environmental Services, Inc

Job Number: 890-2176-1

SDG Number: 5198

Login Number: 2176**List Number: 1****Creator: Clifton, Cloe****List Source: Eurofins Carlsbad**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ranger Environmental Services, Inc

Job Number: 890-2176-1

SDG Number: 5198

Login Number: 2176**List Number: 2****Creator: Rodriguez, Leticia****List Source: Eurofins Midland****List Creation: 04/11/22 02:33 PM**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-2178-1
Laboratory Sample Delivery Group: 5198
Client Project/Site: Cobalt Riser
Revision: 1

For:
Ranger Environmental Services, Inc
PO BOX 201179
Austin, Texas 78729

Attn: Max Cook

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
4/25/2022 5:12:14 PM

Holly Taylor, Project Manager
(806)794-1296
Holly.Taylor@et.eurofinsus.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Laboratory Job ID: 890-2178-1
SDG: 5198

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	5
Client Sample Results	7
Surrogate Summary	78
QC Sample Results	84
QC Association Summary	105
Lab Chronicle	125
Certification Summary	152
Method Summary	153
Sample Summary	154
Chain of Custody	156
Receipt Checklists	174

1
2
3
4
5
6
7
8
9
10
11
12
13
14

Definitions/Glossary

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points

Eurofins Carlsbad

Definitions/Glossary

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

1
2
3
4
5
6
7
8
9
10
11
12
13
14

Case Narrative

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Job ID: 890-2178-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2178-1

Comments

No additional comments.

Revision

The report being provided is a revision of the original report sent on 4/20/2022. The report (revision 1) is being revised to give all results to the MDL per Max Cook (email)..

Receipt

The samples were received on 4/11/2022 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.6° C.

GC VOA

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-23477 and 880-23479 and analytical batch 880-23476 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-23779 and analytical batch 880-23768 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method 8015B NM: Surrogate recovery for the following sample was outside control limits: EM-3 (890-2178-86). Evidence of matrix interferences is not obvious.

Method 8015B NM: The method blank for preparation batch 880-23325 and analytical batch 880-23357 contained Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015B NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-23325 and analytical batch 880-23357 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28)

Method 8015B NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-23325/3-A). Evidence of matrix interferences is not obvious.

Method 8015B NM: The method blank for preparation batch 880-23324 and analytical batch 880-23359 contained <AffectedAnalytes> above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-23374 and analytical batch 880-23559 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Case Narrative

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Job ID: 890-2178-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-1

Lab Sample ID: 890-2178-1

Date Collected: 04/09/22 07:43

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 4 - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U F1	0.00200	0.000386	mg/Kg	-	04/12/22 14:39	04/12/22 22:20	1
Toluene	<0.000457	U F1	0.00200	0.000457	mg/Kg	-	04/12/22 14:39	04/12/22 22:20	1
Ethylbenzene	<0.000566	U F1	0.00200	0.000566	mg/Kg	-	04/12/22 14:39	04/12/22 22:20	1
m,p-Xylenes	<0.00101	U F1	0.00401	0.00101	mg/Kg	-	04/12/22 14:39	04/12/22 22:20	1
o-Xylene	<0.000345	U F1	0.00200	0.000345	mg/Kg	-	04/12/22 14:39	04/12/22 22:20	1
Xylenes, Total	<0.00101	U F1	0.00401	0.00101	mg/Kg	-	04/12/22 14:39	04/12/22 22:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	04/12/22 14:39	04/12/22 22:20	1
1,4-Difluorobenzene (Surr)	86		70 - 130	04/12/22 14:39	04/12/22 22:20	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg	-		04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	22.2	J	49.9	15.0	mg/Kg	-		04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg	-	04/11/22 16:37	04/11/22 21:05	1
Diesel Range Organics (Over C10-C28)	22.2	J B	49.9	15.0	mg/Kg	-	04/11/22 16:37	04/11/22 21:05	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg	-	04/11/22 16:37	04/11/22 21:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	04/11/22 16:37	04/11/22 21:05	1
o-Terphenyl	110		70 - 130	04/11/22 16:37	04/11/22 21:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	126		5.04	0.865	mg/Kg	-		04/14/22 23:34	1

Client Sample ID: E2-2

Lab Sample ID: 890-2178-2

Date Collected: 04/09/22 07:44

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 4 - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg	-	04/12/22 14:39	04/12/22 22:41	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg	-	04/12/22 14:39	04/12/22 22:41	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg	-	04/12/22 14:39	04/12/22 22:41	1
m,p-Xylenes	<0.00101	U	0.00399	0.00101	mg/Kg	-	04/12/22 14:39	04/12/22 22:41	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg	-	04/12/22 14:39	04/12/22 22:41	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg	-	04/12/22 14:39	04/12/22 22:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	04/12/22 14:39	04/12/22 22:41	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-2

Lab Sample ID: 890-2178-2

Date Collected: 04/09/22 07:44

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 4 - 5

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	98		70 - 130	04/12/22 14:39	04/12/22 22:41	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg			04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	18.9	J	50.0	15.0	mg/Kg			04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		04/11/22 16:37	04/11/22 22:07	1
Diesel Range Organics (Over C10-C28)	18.9	J B	50.0	15.0	mg/Kg		04/11/22 16:37	04/11/22 22:07	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/11/22 16:37	04/11/22 22:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				04/11/22 16:37	04/11/22 22:07	1
o-Terphenyl	112		70 - 130				04/11/22 16:37	04/11/22 22:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48.6		4.97	0.853	mg/Kg			04/14/22 23:40	1

Client Sample ID: E2-3

Lab Sample ID: 890-2178-3

Date Collected: 04/09/22 07:46

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 4 - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg		04/12/22 14:39	04/12/22 23:01	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		04/12/22 14:39	04/12/22 23:01	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		04/12/22 14:39	04/12/22 23:01	1
m,p-Xylenes	<0.00101	U	0.00399	0.00101	mg/Kg		04/12/22 14:39	04/12/22 23:01	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		04/12/22 14:39	04/12/22 23:01	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		04/12/22 14:39	04/12/22 23:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	04/12/22 14:39	04/12/22 23:01	1
1,4-Difluorobenzene (Surr)	88		70 - 130	04/12/22 14:39	04/12/22 23:01	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg			04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	19.0	J	50.0	15.0	mg/Kg			04/12/22 10:58	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-3

Date Collected: 04/09/22 07:46

Date Received: 04/11/22 08:00

Sample Depth: 4 - 5

Lab Sample ID: 890-2178-3

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:37	04/11/22 22:27	1
Diesel Range Organics (Over C10-C28)	19.0	J B	50.0	15.0	mg/Kg	-	04/11/22 16:37	04/11/22 22:27	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:37	04/11/22 22:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				04/11/22 16:37	04/11/22 22:27	1
o-Terphenyl	108		70 - 130				04/11/22 16:37	04/11/22 22:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	161		5.00	0.858	mg/Kg	-		04/14/22 23:46	1

Client Sample ID: E2-4

Date Collected: 04/09/22 07:48

Date Received: 04/11/22 08:00

Sample Depth: 4 - 5

Lab Sample ID: 890-2178-4

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg	-	04/12/22 14:39	04/12/22 23:22	1
Toluene	0.000750	J	0.00199	0.000454	mg/Kg	-	04/12/22 14:39	04/12/22 23:22	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg	-	04/12/22 14:39	04/12/22 23:22	1
m,p-Xylenes	<0.00101	U	0.00398	0.00101	mg/Kg	-	04/12/22 14:39	04/12/22 23:22	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg	-	04/12/22 14:39	04/12/22 23:22	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg	-	04/12/22 14:39	04/12/22 23:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				04/12/22 14:39	04/12/22 23:22	1
1,4-Difluorobenzene (Surr)	88		70 - 130				04/12/22 14:39	04/12/22 23:22	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg	-		04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	20.2	J	49.8	14.9	mg/Kg	-		04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.9	U	49.8	14.9	mg/Kg	-	04/11/22 16:37	04/11/22 22:48	1
Diesel Range Organics (Over C10-C28)	20.2	J B	49.8	14.9	mg/Kg	-	04/11/22 16:37	04/11/22 22:48	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.8	14.9	mg/Kg	-	04/11/22 16:37	04/11/22 22:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				04/11/22 16:37	04/11/22 22:48	1
o-Terphenyl	105		70 - 130				04/11/22 16:37	04/11/22 22:48	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-4

Date Collected: 04/09/22 07:48

Date Received: 04/11/22 08:00

Sample Depth: 4 - 5

Lab Sample ID: 890-2178-4

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	358		4.98	0.855	mg/Kg	-		04/15/22 00:05	1

Client Sample ID: E2-5

Date Collected: 04/09/22 07:51

Date Received: 04/11/22 08:00

Sample Depth: 4 - 5

Lab Sample ID: 890-2178-5

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00200	0.000386	mg/Kg	-	04/12/22 14:39	04/12/22 23:42	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg	-	04/12/22 14:39	04/12/22 23:42	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg	-	04/12/22 14:39	04/12/22 23:42	1
m,p-Xylenes	<0.00101	U	0.00401	0.00101	mg/Kg	-	04/12/22 14:39	04/12/22 23:42	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg	-	04/12/22 14:39	04/12/22 23:42	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg	-	04/12/22 14:39	04/12/22 23:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			-	04/12/22 14:39	04/12/22 23:42	1
1,4-Difluorobenzene (Surr)	88		70 - 130			-	04/12/22 14:39	04/12/22 23:42	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg	-		04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	21.2	J	50.0	15.0	mg/Kg	-		04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:37	04/11/22 23:09	1
Diesel Range Organics (Over C10-C28)	21.2	J B	50.0	15.0	mg/Kg	-	04/11/22 16:37	04/11/22 23:09	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:37	04/11/22 23:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130			-	04/11/22 16:37	04/11/22 23:09	1
o-Terphenyl	101		70 - 130			-	04/11/22 16:37	04/11/22 23:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	439		4.99	0.857	mg/Kg	-		04/15/22 00:11	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-6

Lab Sample ID: 890-2178-6

Date Collected: 04/09/22 07:52

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 4 - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000389	U	0.00202	0.000389	mg/Kg		04/12/22 14:39	04/13/22 00:02	1
Toluene	0.00155	J	0.00202	0.000461	mg/Kg		04/12/22 14:39	04/13/22 00:02	1
Ethylbenzene	<0.000571	U	0.00202	0.000571	mg/Kg		04/12/22 14:39	04/13/22 00:02	1
m,p-Xylenes	<0.00102	U	0.00404	0.00102	mg/Kg		04/12/22 14:39	04/13/22 00:02	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg		04/12/22 14:39	04/13/22 00:02	1
Xylenes, Total	<0.00102	U	0.00404	0.00102	mg/Kg		04/12/22 14:39	04/13/22 00:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				04/12/22 14:39	04/13/22 00:02	1
1,4-Difluorobenzene (Surr)	75		70 - 130				04/12/22 14:39	04/13/22 00:02	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00155	J	0.00400	0.00101	mg/Kg			04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	20.5	J	50.0	15.0	mg/Kg			04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		04/11/22 16:37	04/11/22 23:29	1
Diesel Range Organics (Over C10-C28)	20.5	J B	50.0	15.0	mg/Kg		04/11/22 16:37	04/11/22 23:29	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/11/22 16:37	04/11/22 23:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				04/11/22 16:37	04/11/22 23:29	1
o-Terphenyl	103		70 - 130				04/11/22 16:37	04/11/22 23:29	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	278		4.97	0.853	mg/Kg			04/15/22 00:18	1

Client Sample ID: E2-7

Lab Sample ID: 890-2178-7

Date Collected: 04/09/22 07:56

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 4 - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg		04/12/22 14:39	04/13/22 00:23	1
Toluene	0.000618	J	0.00200	0.000455	mg/Kg		04/12/22 14:39	04/13/22 00:23	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		04/12/22 14:39	04/13/22 00:23	1
m,p-Xylenes	<0.00101	U	0.00399	0.00101	mg/Kg		04/12/22 14:39	04/13/22 00:23	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		04/12/22 14:39	04/13/22 00:23	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		04/12/22 14:39	04/13/22 00:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				04/12/22 14:39	04/13/22 00:23	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-7

Lab Sample ID: 890-2178-7

Date Collected: 04/09/22 07:56

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 4 - 5

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	88		70 - 130	04/12/22 14:39	04/13/22 00:23	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg			04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	19.7	J	49.9	15.0	mg/Kg			04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg		04/11/22 16:37	04/11/22 23:49	1
Diesel Range Organics (Over C10-C28)	19.7	J B	49.9	15.0	mg/Kg		04/11/22 16:37	04/11/22 23:49	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		04/11/22 16:37	04/11/22 23:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				04/11/22 16:37	04/11/22 23:49	1
o-Terphenyl	112		70 - 130				04/11/22 16:37	04/11/22 23:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	186		4.96	0.851	mg/Kg			04/15/22 00:24	1

Client Sample ID: E2-8

Lab Sample ID: 890-2178-8

Date Collected: 04/09/22 07:58

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 4 - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00200	0.000386	mg/Kg		04/12/22 14:39	04/13/22 00:43	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg		04/12/22 14:39	04/13/22 00:43	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		04/12/22 14:39	04/13/22 00:43	1
m,p-Xylenes	<0.00101	U	0.00401	0.00101	mg/Kg		04/12/22 14:39	04/13/22 00:43	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg		04/12/22 14:39	04/13/22 00:43	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		04/12/22 14:39	04/13/22 00:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	04/12/22 14:39	04/13/22 00:43	1
1,4-Difluorobenzene (Surr)	90		70 - 130	04/12/22 14:39	04/13/22 00:43	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg			04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	19.1	J	49.9	15.0	mg/Kg			04/12/22 10:58	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-8

Date Collected: 04/09/22 07:58

Date Received: 04/11/22 08:00

Sample Depth: 4 - 5

Lab Sample ID: 890-2178-8

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg	-	04/11/22 16:37	04/12/22 00:10	1
Diesel Range Organics (Over C10-C28)	19.1	J B	49.9	15.0	mg/Kg	-	04/11/22 16:37	04/12/22 00:10	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg	-	04/11/22 16:37	04/12/22 00:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				04/11/22 16:37	04/12/22 00:10	1
o-Terphenyl	114		70 - 130				04/11/22 16:37	04/12/22 00:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41.4		5.01	0.860	mg/Kg	-		04/15/22 00:30	1

Client Sample ID: E2-9

Date Collected: 04/09/22 08:00

Date Received: 04/11/22 08:00

Sample Depth: 4 - 5

Lab Sample ID: 890-2178-9

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00201	0.000387	mg/Kg	-	04/12/22 14:39	04/13/22 01:04	1
Toluene	0.00101	J	0.00201	0.000458	mg/Kg	-	04/12/22 14:39	04/13/22 01:04	1
Ethylbenzene	<0.000567	U	0.00201	0.000567	mg/Kg	-	04/12/22 14:39	04/13/22 01:04	1
m,p-Xylenes	<0.00101	U	0.00402	0.00101	mg/Kg	-	04/12/22 14:39	04/13/22 01:04	1
o-Xylene	<0.000345	U	0.00201	0.000345	mg/Kg	-	04/12/22 14:39	04/13/22 01:04	1
Xylenes, Total	<0.00101	U	0.00402	0.00101	mg/Kg	-	04/12/22 14:39	04/13/22 01:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				04/12/22 14:39	04/13/22 01:04	1
1,4-Difluorobenzene (Surr)	85		70 - 130				04/12/22 14:39	04/13/22 01:04	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00101	J	0.00400	0.00101	mg/Kg	-		04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	20.1	J	50.0	15.0	mg/Kg	-		04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:37	04/12/22 00:30	1
Diesel Range Organics (Over C10-C28)	20.1	J B	50.0	15.0	mg/Kg	-	04/11/22 16:37	04/12/22 00:30	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:37	04/12/22 00:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				04/11/22 16:37	04/12/22 00:30	1
o-Terphenyl	106		70 - 130				04/11/22 16:37	04/12/22 00:30	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-9

Date Collected: 04/09/22 08:00

Date Received: 04/11/22 08:00

Sample Depth: 4 - 5

Lab Sample ID: 890-2178-9

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	80.9	F1	4.98	0.855	mg/Kg	-		04/15/22 00:37	1

Client Sample ID: E2-10

Date Collected: 04/09/22 08:03

Date Received: 04/11/22 08:00

Sample Depth: 4 - 5

Lab Sample ID: 890-2178-10

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg	-	04/12/22 14:39	04/13/22 01:24	1
Toluene	0.000617	J	0.00200	0.000456	mg/Kg	-	04/12/22 14:39	04/13/22 01:24	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg	-	04/12/22 14:39	04/13/22 01:24	1
m,p-Xylenes	<0.00101	U	0.00400	0.00101	mg/Kg	-	04/12/22 14:39	04/13/22 01:24	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg	-	04/12/22 14:39	04/13/22 01:24	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg	-	04/12/22 14:39	04/13/22 01:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				04/12/22 14:39	04/13/22 01:24	1
1,4-Difluorobenzene (Surr)	88		70 - 130				04/12/22 14:39	04/13/22 01:24	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg	-		04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	20.3	J	50.0	15.0	mg/Kg	-		04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:37	04/12/22 00:51	1
Diesel Range Organics (Over C10-C28)	20.3	J B	50.0	15.0	mg/Kg	-	04/11/22 16:37	04/12/22 00:51	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:37	04/12/22 00:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				04/11/22 16:37	04/12/22 00:51	1
o-Terphenyl	104		70 - 130				04/11/22 16:37	04/12/22 00:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	120		5.00	0.858	mg/Kg	-		04/15/22 00:56	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-11

Lab Sample ID: 890-2178-11

Date Collected: 04/09/22 08:05

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 4 - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U **	0.00200	0.000384	mg/Kg	-	04/13/22 13:23	04/13/22 16:58	1
Toluene	<0.000455	U **	0.00200	0.000455	mg/Kg	-	04/13/22 13:23	04/13/22 16:58	1
Ethylbenzene	<0.000564	U **	0.00200	0.000564	mg/Kg	-	04/13/22 13:23	04/13/22 16:58	1
m,p-Xylenes	<0.00101	U **	0.00399	0.00101	mg/Kg	-	04/13/22 13:23	04/13/22 16:58	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg	-	04/13/22 13:23	04/13/22 16:58	1
Xylenes, Total	<0.00101	U **	0.00399	0.00101	mg/Kg	-	04/13/22 13:23	04/13/22 16:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	04/13/22 13:23	04/13/22 16:58	1
1,4-Difluorobenzene (Surr)	87		70 - 130	04/13/22 13:23	04/13/22 16:58	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg	-		04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	21.1	J	49.9	15.0	mg/Kg	-		04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg	-	04/11/22 16:37	04/12/22 01:32	1
Diesel Range Organics (Over C10-C28)	21.1	J B	49.9	15.0	mg/Kg	-	04/11/22 16:37	04/12/22 01:32	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg	-	04/11/22 16:37	04/12/22 01:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	04/11/22 16:37	04/12/22 01:32	1
o-Terphenyl	109		70 - 130	04/11/22 16:37	04/12/22 01:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.0		4.96	0.851	mg/Kg	-		04/15/22 01:02	1

Client Sample ID: E2-12

Lab Sample ID: 890-2178-12

Date Collected: 04/09/22 08:08

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 4 - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U **	0.00199	0.000383	mg/Kg	-	04/13/22 13:23	04/13/22 17:25	1
Toluene	<0.000454	U **	0.00199	0.000454	mg/Kg	-	04/13/22 13:23	04/13/22 17:25	1
Ethylbenzene	<0.000563	U **	0.00199	0.000563	mg/Kg	-	04/13/22 13:23	04/13/22 17:25	1
m,p-Xylenes	<0.00101	U **	0.00398	0.00101	mg/Kg	-	04/13/22 13:23	04/13/22 17:25	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg	-	04/13/22 13:23	04/13/22 17:25	1
Xylenes, Total	<0.00101	U **	0.00398	0.00101	mg/Kg	-	04/13/22 13:23	04/13/22 17:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	04/13/22 13:23	04/13/22 17:25	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-12

Lab Sample ID: 890-2178-12

Date Collected: 04/09/22 08:08

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 4 - 5

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	85		70 - 130	04/13/22 13:23	04/13/22 17:25	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg			04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	21.0	J	50.0	15.0	mg/Kg			04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		04/11/22 16:37	04/12/22 01:52	1
Diesel Range Organics (Over C10-C28)	21.0	J B	50.0	15.0	mg/Kg		04/11/22 16:37	04/12/22 01:52	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/11/22 16:37	04/12/22 01:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				04/11/22 16:37	04/12/22 01:52	1
o-Terphenyl	107		70 - 130				04/11/22 16:37	04/12/22 01:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	90.6		5.04	0.865	mg/Kg			04/15/22 01:21	1

Client Sample ID: E2-13

Lab Sample ID: 890-2178-13

Date Collected: 04/09/22 08:11

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 4 - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U **	0.00199	0.000383	mg/Kg		04/13/22 13:23	04/13/22 17:52	1
Toluene	<0.000453	U **	0.00199	0.000453	mg/Kg		04/13/22 13:23	04/13/22 17:52	1
Ethylbenzene	<0.000562	U **	0.00199	0.000562	mg/Kg		04/13/22 13:23	04/13/22 17:52	1
m,p-Xylenes	<0.00100	U **	0.00398	0.00100	mg/Kg		04/13/22 13:23	04/13/22 17:52	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		04/13/22 13:23	04/13/22 17:52	1
Xylenes, Total	<0.00100	U **	0.00398	0.00100	mg/Kg		04/13/22 13:23	04/13/22 17:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	04/13/22 13:23	04/13/22 17:52	1
1,4-Difluorobenzene (Surr)	84		70 - 130	04/13/22 13:23	04/13/22 17:52	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg			04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	23.3	J	50.0	15.0	mg/Kg			04/12/22 10:58	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-13

Date Collected: 04/09/22 08:11

Date Received: 04/11/22 08:00

Sample Depth: 4 - 5

Lab Sample ID: 890-2178-13

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:37	04/12/22 02:13	1
Diesel Range Organics (Over C10-C28)	23.3	J B	50.0	15.0	mg/Kg	-	04/11/22 16:37	04/12/22 02:13	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:37	04/12/22 02:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				04/11/22 16:37	04/12/22 02:13	1
o-Terphenyl	109		70 - 130				04/11/22 16:37	04/12/22 02:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	285		5.00	0.858	mg/Kg	-		04/15/22 01:27	1

Client Sample ID: E2-14

Date Collected: 04/09/22 08:13

Date Received: 04/11/22 08:00

Sample Depth: 4 - 5

Lab Sample ID: 890-2178-14

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U *	0.00200	0.000385	mg/Kg	-	04/13/22 13:23	04/13/22 18:19	1
Toluene	<0.000456	U *	0.00200	0.000456	mg/Kg	-	04/13/22 13:23	04/13/22 18:19	1
Ethylbenzene	<0.000565	U *	0.00200	0.000565	mg/Kg	-	04/13/22 13:23	04/13/22 18:19	1
m,p-Xylenes	<0.00101	U *	0.00400	0.00101	mg/Kg	-	04/13/22 13:23	04/13/22 18:19	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg	-	04/13/22 13:23	04/13/22 18:19	1
Xylenes, Total	<0.00101	U *	0.00400	0.00101	mg/Kg	-	04/13/22 13:23	04/13/22 18:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				04/13/22 13:23	04/13/22 18:19	1
1,4-Difluorobenzene (Surr)	87		70 - 130				04/13/22 13:23	04/13/22 18:19	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg	-		04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	23.7	J	49.9	15.0	mg/Kg	-		04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg	-	04/11/22 16:37	04/12/22 02:34	1
Diesel Range Organics (Over C10-C28)	23.7	J B	49.9	15.0	mg/Kg	-	04/11/22 16:37	04/12/22 02:34	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg	-	04/11/22 16:37	04/12/22 02:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				04/11/22 16:37	04/12/22 02:34	1
o-Terphenyl	107		70 - 130				04/11/22 16:37	04/12/22 02:34	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-14

Date Collected: 04/09/22 08:13

Date Received: 04/11/22 08:00

Sample Depth: 4 - 5

Lab Sample ID: 890-2178-14

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	749		5.00	0.858	mg/Kg			04/15/22 01:34	1

Client Sample ID: E2-15

Date Collected: 04/09/22 08:15

Date Received: 04/11/22 08:00

Sample Depth: 4 - 5

Lab Sample ID: 890-2178-15

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U *	0.00200	0.000386	mg/Kg		04/13/22 13:23	04/13/22 18:46	1
Toluene	<0.000457	U *	0.00200	0.000457	mg/Kg		04/13/22 13:23	04/13/22 18:46	1
Ethylbenzene	<0.000566	U *	0.00200	0.000566	mg/Kg		04/13/22 13:23	04/13/22 18:46	1
m,p-Xylenes	<0.00101	U *	0.00401	0.00101	mg/Kg		04/13/22 13:23	04/13/22 18:46	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg		04/13/22 13:23	04/13/22 18:46	1
Xylenes, Total	<0.00101	U *	0.00401	0.00101	mg/Kg		04/13/22 13:23	04/13/22 18:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130				04/13/22 13:23	04/13/22 18:46	1
1,4-Difluorobenzene (Surr)	90		70 - 130				04/13/22 13:23	04/13/22 18:46	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg			04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	22.7	J	50.0	15.0	mg/Kg			04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		04/11/22 16:37	04/12/22 02:54	1
Diesel Range Organics (Over C10-C28)	22.7	J B	50.0	15.0	mg/Kg		04/11/22 16:37	04/12/22 02:54	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/11/22 16:37	04/12/22 02:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				04/11/22 16:37	04/12/22 02:54	1
o-Terphenyl	108		70 - 130				04/11/22 16:37	04/12/22 02:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	644		4.95	0.850	mg/Kg			04/15/22 01:40	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-16

Lab Sample ID: 890-2178-16

Date Collected: 04/09/22 08:17

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 4 - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U *	0.00201	0.000387	mg/Kg	-	04/13/22 13:23	04/13/22 19:13	1
Toluene	<0.000458	U *	0.00201	0.000458	mg/Kg	-	04/13/22 13:23	04/13/22 19:13	1
Ethylbenzene	<0.000567	U *	0.00201	0.000567	mg/Kg	-	04/13/22 13:23	04/13/22 19:13	1
m,p-Xylenes	<0.00101	U *	0.00402	0.00101	mg/Kg	-	04/13/22 13:23	04/13/22 19:13	1
o-Xylene	<0.000345	U	0.00201	0.000345	mg/Kg	-	04/13/22 13:23	04/13/22 19:13	1
Xylenes, Total	<0.00101	U *	0.00402	0.00101	mg/Kg	-	04/13/22 13:23	04/13/22 19:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	04/13/22 13:23	04/13/22 19:13	1
1,4-Difluorobenzene (Surr)	92		70 - 130	04/13/22 13:23	04/13/22 19:13	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg	-		04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	21.6	J	49.9	15.0	mg/Kg	-		04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg	-	04/11/22 16:37	04/12/22 03:15	1
Diesel Range Organics (Over C10-C28)	21.6	J B	49.9	15.0	mg/Kg	-	04/11/22 16:37	04/12/22 03:15	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg	-	04/11/22 16:37	04/12/22 03:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	04/11/22 16:37	04/12/22 03:15	1
o-Terphenyl	110		70 - 130	04/11/22 16:37	04/12/22 03:15	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	581		4.97	0.853	mg/Kg	-		04/15/22 01:46	1

Client Sample ID: E2-17

Lab Sample ID: 890-2178-17

Date Collected: 04/09/22 08:18

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 4 - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U *	0.00201	0.000387	mg/Kg	-	04/13/22 13:23	04/13/22 19:40	1
Toluene	<0.000459	U *	0.00201	0.000459	mg/Kg	-	04/13/22 13:23	04/13/22 19:40	1
Ethylbenzene	<0.000568	U *	0.00201	0.000568	mg/Kg	-	04/13/22 13:23	04/13/22 19:40	1
m,p-Xylenes	<0.00102	U *	0.00402	0.00102	mg/Kg	-	04/13/22 13:23	04/13/22 19:40	1
o-Xylene	<0.000346	U	0.00201	0.000346	mg/Kg	-	04/13/22 13:23	04/13/22 19:40	1
Xylenes, Total	<0.00102	U *	0.00402	0.00102	mg/Kg	-	04/13/22 13:23	04/13/22 19:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	04/13/22 13:23	04/13/22 19:40	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-17

Lab Sample ID: 890-2178-17

Date Collected: 04/09/22 08:18

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 4 - 5

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	92		70 - 130	04/13/22 13:23	04/13/22 19:40	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg			04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	21.3	J	50.0	15.0	mg/Kg			04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		04/11/22 16:37	04/12/22 03:35	1
Diesel Range Organics (Over C10-C28)	21.3	J B	50.0	15.0	mg/Kg		04/11/22 16:37	04/12/22 03:35	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/11/22 16:37	04/12/22 03:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				04/11/22 16:37	04/12/22 03:35	1
o-Terphenyl	106		70 - 130				04/11/22 16:37	04/12/22 03:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1470		25.2	4.33	mg/Kg			04/15/22 01:53	5

Client Sample ID: E2-18

Lab Sample ID: 890-2178-18

Date Collected: 04/09/22 08:19

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 4 - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000388	U **	0.00202	0.000388	mg/Kg		04/13/22 13:23	04/13/22 20:07	1
Toluene	<0.000460	U **	0.00202	0.000460	mg/Kg		04/13/22 13:23	04/13/22 20:07	1
Ethylbenzene	<0.000570	U **	0.00202	0.000570	mg/Kg		04/13/22 13:23	04/13/22 20:07	1
m,p-Xylenes	<0.00102	U **	0.00403	0.00102	mg/Kg		04/13/22 13:23	04/13/22 20:07	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg		04/13/22 13:23	04/13/22 20:07	1
Xylenes, Total	<0.00102	U **	0.00403	0.00102	mg/Kg		04/13/22 13:23	04/13/22 20:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	12	S1-	70 - 130	04/13/22 13:23	04/13/22 20:07	1
1,4-Difluorobenzene (Surr)	10	S1-	70 - 130	04/13/22 13:23	04/13/22 20:07	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg			04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	21.5	J	50.0	15.0	mg/Kg			04/12/22 10:58	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-18

Lab Sample ID: 890-2178-18

Date Collected: 04/09/22 08:19

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 4 - 5

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:37	04/12/22 03:56	1
Diesel Range Organics (Over C10-C28)	21.5	J B	50.0	15.0	mg/Kg	-	04/11/22 16:37	04/12/22 03:56	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:37	04/12/22 03:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				04/11/22 16:37	04/12/22 03:56	1
o-Terphenyl	108		70 - 130				04/11/22 16:37	04/12/22 03:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1250		24.9	4.27	mg/Kg	-		04/15/22 01:59	5

Client Sample ID: E2-19

Lab Sample ID: 890-2178-19

Date Collected: 04/09/22 08:20

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 4 - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000389	U *	0.00202	0.000389	mg/Kg	-	04/13/22 13:23	04/13/22 20:34	1
Toluene	<0.000461	U *	0.00202	0.000461	mg/Kg	-	04/13/22 13:23	04/13/22 20:34	1
Ethylbenzene	<0.000571	U *	0.00202	0.000571	mg/Kg	-	04/13/22 13:23	04/13/22 20:34	1
m,p-Xylenes	<0.00102	U *	0.00404	0.00102	mg/Kg	-	04/13/22 13:23	04/13/22 20:34	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg	-	04/13/22 13:23	04/13/22 20:34	1
Xylenes, Total	<0.00102	U *	0.00404	0.00102	mg/Kg	-	04/13/22 13:23	04/13/22 20:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				04/13/22 13:23	04/13/22 20:34	1
1,4-Difluorobenzene (Surr)	90		70 - 130				04/13/22 13:23	04/13/22 20:34	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg	-		04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	20.0	J	49.9	15.0	mg/Kg	-		04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg	-	04/11/22 16:37	04/12/22 04:16	1
Diesel Range Organics (Over C10-C28)	20.0	J B	49.9	15.0	mg/Kg	-	04/11/22 16:37	04/12/22 04:16	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg	-	04/11/22 16:37	04/12/22 04:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				04/11/22 16:37	04/12/22 04:16	1
o-Terphenyl	111		70 - 130				04/11/22 16:37	04/12/22 04:16	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-19

Date Collected: 04/09/22 08:20

Date Received: 04/11/22 08:00

Sample Depth: 4 - 5

Lab Sample ID: 890-2178-19

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	75.8	F1	4.96	0.851	mg/Kg	-		04/15/22 02:50	1

Client Sample ID: E2-20

Date Collected: 04/09/22 08:21

Date Received: 04/11/22 08:00

Sample Depth: 4 - 5

Lab Sample ID: 890-2178-20

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U *	0.00200	0.000384	mg/Kg	-	04/13/22 13:23	04/13/22 21:01	1
Toluene	<0.000455	U *	0.00200	0.000455	mg/Kg	-	04/13/22 13:23	04/13/22 21:01	1
Ethylbenzene	<0.000564	U *	0.00200	0.000564	mg/Kg	-	04/13/22 13:23	04/13/22 21:01	1
m,p-Xylenes	<0.00101	U *	0.00399	0.00101	mg/Kg	-	04/13/22 13:23	04/13/22 21:01	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg	-	04/13/22 13:23	04/13/22 21:01	1
Xylenes, Total	<0.00101	U *	0.00399	0.00101	mg/Kg	-	04/13/22 13:23	04/13/22 21:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			-	04/13/22 13:23	04/13/22 21:01	1
1,4-Difluorobenzene (Surr)	86		70 - 130			-	04/13/22 13:23	04/13/22 21:01	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg	-		04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	19.6	J	49.9	15.0	mg/Kg	-		04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg	-	04/11/22 16:37	04/12/22 04:37	1
Diesel Range Organics (Over C10-C28)	19.6	J B	49.9	15.0	mg/Kg	-	04/11/22 16:37	04/12/22 04:37	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg	-	04/11/22 16:37	04/12/22 04:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130			-	04/11/22 16:37	04/12/22 04:37	1
o-Terphenyl	118		70 - 130			-	04/11/22 16:37	04/12/22 04:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41.6		5.00	0.858	mg/Kg	-		04/15/22 03:09	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-21

Lab Sample ID: 890-2178-21

Date Collected: 04/09/22 08:23

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 4 - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000381	U **	0.00198	0.000381	mg/Kg	-	04/13/22 13:23	04/13/22 22:47	1
Toluene	<0.000451	U **	0.00198	0.000451	mg/Kg	-	04/13/22 13:23	04/13/22 22:47	1
Ethylbenzene	0.00104	J **	0.00198	0.000559	mg/Kg	-	04/13/22 13:23	04/13/22 22:47	1
m,p-Xylenes	<0.00100	U **	0.00396	0.00100	mg/Kg	-	04/13/22 13:23	04/13/22 22:47	1
o-Xylene	<0.000341	U	0.00198	0.000341	mg/Kg	-	04/13/22 13:23	04/13/22 22:47	1
Xylenes, Total	<0.00100	U **	0.00396	0.00100	mg/Kg	-	04/13/22 13:23	04/13/22 22:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	04/13/22 13:23	04/13/22 22:47	1
1,4-Difluorobenzene (Surr)	0.06	S1-	70 - 130	04/13/22 13:23	04/13/22 22:47	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00104	J	0.00400	0.00101	mg/Kg	-		04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.9	15.0	mg/Kg	-		04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg	-	04/11/22 16:41	04/12/22 11:57	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg	-	04/11/22 16:41	04/12/22 11:57	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg	-	04/11/22 16:41	04/12/22 11:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	04/11/22 16:41	04/12/22 11:57	1
o-Terphenyl	101		70 - 130	04/11/22 16:41	04/12/22 11:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	504		4.99	0.857	mg/Kg	-		04/15/22 03:15	1

Client Sample ID: E2-22

Lab Sample ID: 890-2178-22

Date Collected: 04/09/22 08:25

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 4 - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U **	0.00199	0.000383	mg/Kg	-	04/13/22 13:23	04/13/22 23:14	1
Toluene	<0.000453	U **	0.00199	0.000453	mg/Kg	-	04/13/22 13:23	04/13/22 23:14	1
Ethylbenzene	<0.000562	U **	0.00199	0.000562	mg/Kg	-	04/13/22 13:23	04/13/22 23:14	1
m,p-Xylenes	<0.00100	U **	0.00398	0.00100	mg/Kg	-	04/13/22 13:23	04/13/22 23:14	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg	-	04/13/22 13:23	04/13/22 23:14	1
Xylenes, Total	<0.00100	U **	0.00398	0.00100	mg/Kg	-	04/13/22 13:23	04/13/22 23:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	04/13/22 13:23	04/13/22 23:14	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-22

Lab Sample ID: 890-2178-22

Date Collected: 04/09/22 08:25

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 4 - 5

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	89		70 - 130	04/13/22 13:23	04/13/22 23:14	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg			04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.0	mg/Kg			04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		04/11/22 16:41	04/12/22 13:01	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		04/11/22 16:41	04/12/22 13:01	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/11/22 16:41	04/12/22 13:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				04/11/22 16:41	04/12/22 13:01	1
o-Terphenyl	103		70 - 130				04/11/22 16:41	04/12/22 13:01	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	47.0		5.05	0.867	mg/Kg			04/15/22 03:21	1

Client Sample ID: E2-23

Lab Sample ID: 890-2178-23

Date Collected: 04/09/22 08:27

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 4 - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U **	0.00200	0.000384	mg/Kg		04/13/22 13:23	04/13/22 23:41	1
Toluene	<0.000455	U **	0.00200	0.000455	mg/Kg		04/13/22 13:23	04/13/22 23:41	1
Ethylbenzene	<0.000564	U **	0.00200	0.000564	mg/Kg		04/13/22 13:23	04/13/22 23:41	1
m,p-Xylenes	<0.00101	U **	0.00399	0.00101	mg/Kg		04/13/22 13:23	04/13/22 23:41	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		04/13/22 13:23	04/13/22 23:41	1
Xylenes, Total	<0.00101	U **	0.00399	0.00101	mg/Kg		04/13/22 13:23	04/13/22 23:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	04/13/22 13:23	04/13/22 23:41	1
1,4-Difluorobenzene (Surr)	99		70 - 130	04/13/22 13:23	04/13/22 23:41	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg			04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.0	mg/Kg			04/12/22 10:58	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-23

Date Collected: 04/09/22 08:27

Date Received: 04/11/22 08:00

Sample Depth: 4 - 5

Lab Sample ID: 890-2178-23

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:41	04/12/22 13:22	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:41	04/12/22 13:22	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:41	04/12/22 13:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				04/11/22 16:41	04/12/22 13:22	1
o-Terphenyl	99		70 - 130				04/11/22 16:41	04/12/22 13:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	276		4.97	0.853	mg/Kg	-		04/15/22 03:28	1

Client Sample ID: E2-24

Date Collected: 04/09/22 08:31

Date Received: 04/11/22 08:00

Sample Depth: 4 - 5

Lab Sample ID: 890-2178-24

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U *	0.00199	0.000383	mg/Kg	-	04/13/22 13:23	04/14/22 00:06	1
Toluene	<0.000454	U *	0.00199	0.000454	mg/Kg	-	04/13/22 13:23	04/14/22 00:06	1
Ethylbenzene	<0.000563	U *	0.00199	0.000563	mg/Kg	-	04/13/22 13:23	04/14/22 00:06	1
m,p-Xylenes	<0.00101	U *	0.00398	0.00101	mg/Kg	-	04/13/22 13:23	04/14/22 00:06	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg	-	04/13/22 13:23	04/14/22 00:06	1
Xylenes, Total	<0.00101	U *	0.00398	0.00101	mg/Kg	-	04/13/22 13:23	04/14/22 00:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				04/13/22 13:23	04/14/22 00:06	1
1,4-Difluorobenzene (Surr)	91		70 - 130				04/13/22 13:23	04/14/22 00:06	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg	-		04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<14.9	U	49.8	14.9	mg/Kg	-		04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.9	U	49.8	14.9	mg/Kg	-	04/11/22 16:41	04/12/22 13:44	1
Diesel Range Organics (Over C10-C28)	<14.9	U	49.8	14.9	mg/Kg	-	04/11/22 16:41	04/12/22 13:44	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.8	14.9	mg/Kg	-	04/11/22 16:41	04/12/22 13:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				04/11/22 16:41	04/12/22 13:44	1
o-Terphenyl	96		70 - 130				04/11/22 16:41	04/12/22 13:44	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-24

Date Collected: 04/09/22 08:31

Date Received: 04/11/22 08:00

Sample Depth: 4 - 5

Lab Sample ID: 890-2178-24

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	260		4.98	0.855	mg/Kg			04/15/22 03:46	1

Client Sample ID: E2-25

Date Collected: 04/09/22 08:34

Date Received: 04/11/22 08:00

Sample Depth: 4 - 5

Lab Sample ID: 890-2178-25

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U *	0.00199	0.000383	mg/Kg		04/13/22 13:23	04/14/22 00:33	1
Toluene	<0.000453	U *	0.00199	0.000453	mg/Kg		04/13/22 13:23	04/14/22 00:33	1
Ethylbenzene	<0.000562	U *	0.00199	0.000562	mg/Kg		04/13/22 13:23	04/14/22 00:33	1
m,p-Xylenes	<0.00100	U *	0.00398	0.00100	mg/Kg		04/13/22 13:23	04/14/22 00:33	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		04/13/22 13:23	04/14/22 00:33	1
Xylenes, Total	<0.00100	U *	0.00398	0.00100	mg/Kg		04/13/22 13:23	04/14/22 00:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				04/13/22 13:23	04/14/22 00:33	1
1,4-Difluorobenzene (Surr)	89		70 - 130				04/13/22 13:23	04/14/22 00:33	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg			04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.0	mg/Kg			04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		04/11/22 16:41	04/12/22 14:05	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		04/11/22 16:41	04/12/22 14:05	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/11/22 16:41	04/12/22 14:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				04/11/22 16:41	04/12/22 14:05	1
o-Terphenyl	102		70 - 130				04/11/22 16:41	04/12/22 14:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.6		5.00	0.858	mg/Kg			04/15/22 03:53	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-26

Lab Sample ID: 890-2178-26

Date Collected: 04/09/22 08:36

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 4 - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U **	0.00199	0.000383	mg/Kg	-	04/13/22 13:23	04/14/22 00:59	1
Toluene	<0.000454	U **	0.00199	0.000454	mg/Kg	-	04/13/22 13:23	04/14/22 00:59	1
Ethylbenzene	<0.000563	U **	0.00199	0.000563	mg/Kg	-	04/13/22 13:23	04/14/22 00:59	1
m,p-Xylenes	<0.00101	U **	0.00398	0.00101	mg/Kg	-	04/13/22 13:23	04/14/22 00:59	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg	-	04/13/22 13:23	04/14/22 00:59	1
Xylenes, Total	<0.00101	U **	0.00398	0.00101	mg/Kg	-	04/13/22 13:23	04/14/22 00:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	04/13/22 13:23	04/14/22 00:59	1
1,4-Difluorobenzene (Surr)	82		70 - 130	04/13/22 13:23	04/14/22 00:59	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg	-		04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.0	mg/Kg	-		04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:41	04/12/22 14:27	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:41	04/12/22 14:27	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:41	04/12/22 14:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	04/11/22 16:41	04/12/22 14:27	1
o-Terphenyl	99		70 - 130	04/11/22 16:41	04/12/22 14:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	81.1		5.05	0.867	mg/Kg	-		04/15/22 03:59	1

Client Sample ID: E2-27

Lab Sample ID: 890-2178-27

Date Collected: 04/09/22 08:38

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 4 - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U **	0.00200	0.000386	mg/Kg	-	04/13/22 13:23	04/14/22 01:25	1
Toluene	<0.000457	U **	0.00200	0.000457	mg/Kg	-	04/13/22 13:23	04/14/22 01:25	1
Ethylbenzene	<0.000566	U **	0.00200	0.000566	mg/Kg	-	04/13/22 13:23	04/14/22 01:25	1
m,p-Xylenes	<0.00101	U **	0.00401	0.00101	mg/Kg	-	04/13/22 13:23	04/14/22 01:25	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg	-	04/13/22 13:23	04/14/22 01:25	1
Xylenes, Total	<0.00101	U **	0.00401	0.00101	mg/Kg	-	04/13/22 13:23	04/14/22 01:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	04/13/22 13:23	04/14/22 01:25	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-27

Lab Sample ID: 890-2178-27

Date Collected: 04/09/22 08:38

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 4 - 5

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	91		70 - 130	04/13/22 13:23	04/14/22 01:25	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg			04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.9	15.0	mg/Kg			04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg		04/11/22 16:41	04/12/22 14:49	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		04/11/22 16:41	04/12/22 14:49	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		04/11/22 16:41	04/12/22 14:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				04/11/22 16:41	04/12/22 14:49	1
o-Terphenyl	97		70 - 130				04/11/22 16:41	04/12/22 14:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	91.4		5.00	0.858	mg/Kg			04/15/22 04:05	1

Client Sample ID: E2-28

Lab Sample ID: 890-2178-28

Date Collected: 04/09/22 08:40

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 4 - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U **	0.00201	0.000387	mg/Kg		04/13/22 13:23	04/14/22 01:51	1
Toluene	<0.000458	U **	0.00201	0.000458	mg/Kg		04/13/22 13:23	04/14/22 01:51	1
Ethylbenzene	<0.000567	U **	0.00201	0.000567	mg/Kg		04/13/22 13:23	04/14/22 01:51	1
m,p-Xylenes	<0.00101	U **	0.00402	0.00101	mg/Kg		04/13/22 13:23	04/14/22 01:51	1
o-Xylene	<0.000345	U	0.00201	0.000345	mg/Kg		04/13/22 13:23	04/14/22 01:51	1
Xylenes, Total	<0.00101	U **	0.00402	0.00101	mg/Kg		04/13/22 13:23	04/14/22 01:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	04/13/22 13:23	04/14/22 01:51	1
1,4-Difluorobenzene (Surr)	76		70 - 130	04/13/22 13:23	04/14/22 01:51	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg			04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.9	15.0	mg/Kg			04/12/22 10:58	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-28

Date Collected: 04/09/22 08:40

Date Received: 04/11/22 08:00

Sample Depth: 4 - 5

Lab Sample ID: 890-2178-28

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg		04/11/22 16:41	04/12/22 15:11	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		04/11/22 16:41	04/12/22 15:11	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		04/11/22 16:41	04/12/22 15:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130				04/11/22 16:41	04/12/22 15:11	1
o-Terphenyl	117		70 - 130				04/11/22 16:41	04/12/22 15:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	268		4.95	0.850	mg/Kg			04/15/22 04:12	1

Client Sample ID: E2-29

Date Collected: 04/09/22 09:02

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Lab Sample ID: 890-2178-29

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000388	U *	0.00202	0.000388	mg/Kg		04/13/22 13:23	04/14/22 02:18	1
Toluene	<0.000460	U *	0.00202	0.000460	mg/Kg		04/13/22 13:23	04/14/22 02:18	1
Ethylbenzene	<0.000570	U *	0.00202	0.000570	mg/Kg		04/13/22 13:23	04/14/22 02:18	1
m,p-Xylenes	<0.00102	U *	0.00403	0.00102	mg/Kg		04/13/22 13:23	04/14/22 02:18	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg		04/13/22 13:23	04/14/22 02:18	1
Xylenes, Total	<0.00102	U *	0.00403	0.00102	mg/Kg		04/13/22 13:23	04/14/22 02:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				04/13/22 13:23	04/14/22 02:18	1
1,4-Difluorobenzene (Surr)	85		70 - 130				04/13/22 13:23	04/14/22 02:18	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg			04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.0	mg/Kg			04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		04/11/22 16:41	04/12/22 15:33	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		04/11/22 16:41	04/12/22 15:33	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/11/22 16:41	04/12/22 15:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				04/11/22 16:41	04/12/22 15:33	1
o-Terphenyl	94		70 - 130				04/11/22 16:41	04/12/22 15:33	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-29

Date Collected: 04/09/22 09:02

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Lab Sample ID: 890-2178-29

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	310	F1	4.99	0.857	mg/Kg	-		04/15/22 04:18	1

Client Sample ID: E2-30

Date Collected: 04/09/22 09:04

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Lab Sample ID: 890-2178-30

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U *	0.00200	0.000384	mg/Kg	-	04/13/22 13:23	04/14/22 02:44	1
Toluene	<0.000455	U *	0.00200	0.000455	mg/Kg	-	04/13/22 13:23	04/14/22 02:44	1
Ethylbenzene	<0.000564	U *	0.00200	0.000564	mg/Kg	-	04/13/22 13:23	04/14/22 02:44	1
m,p-Xylenes	<0.00101	U *	0.00399	0.00101	mg/Kg	-	04/13/22 13:23	04/14/22 02:44	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg	-	04/13/22 13:23	04/14/22 02:44	1
Xylenes, Total	<0.00101	U *	0.00399	0.00101	mg/Kg	-	04/13/22 13:23	04/14/22 02:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130				04/13/22 13:23	04/14/22 02:44	1
1,4-Difluorobenzene (Surr)	88		70 - 130				04/13/22 13:23	04/14/22 02:44	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg	-		04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.0	mg/Kg	-		04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:41	04/12/22 15:54	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:41	04/12/22 15:54	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:41	04/12/22 15:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				04/11/22 16:41	04/12/22 15:54	1
o-Terphenyl	119		70 - 130				04/11/22 16:41	04/12/22 15:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48.2		5.01	0.860	mg/Kg	-		04/15/22 04:37	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-31

Lab Sample ID: 890-2178-31

Date Collected: 04/09/22 09:07

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000607	J	0.00199	0.000383	mg/Kg	-	04/13/22 13:29	04/13/22 20:30	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg	-	04/13/22 13:29	04/13/22 20:30	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg	-	04/13/22 13:29	04/13/22 20:30	1
m,p-Xylenes	<0.00101	U	0.00398	0.00101	mg/Kg	-	04/13/22 13:29	04/13/22 20:30	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg	-	04/13/22 13:29	04/13/22 20:30	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg	-	04/13/22 13:29	04/13/22 20:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	04/13/22 13:29	04/13/22 20:30	1
1,4-Difluorobenzene (Surr)	99		70 - 130	04/13/22 13:29	04/13/22 20:30	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg	-		04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.0	mg/Kg	-		04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:41	04/12/22 16:39	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:41	04/12/22 16:39	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:41	04/12/22 16:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	04/11/22 16:41	04/12/22 16:39	1
o-Terphenyl	93		70 - 130	04/11/22 16:41	04/12/22 16:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	129		4.98	0.855	mg/Kg	-		04/15/22 04:43	1

Client Sample ID: E2-32

Lab Sample ID: 890-2178-32

Date Collected: 04/09/22 09:10

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg	-	04/13/22 13:29	04/13/22 20:50	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg	-	04/13/22 13:29	04/13/22 20:50	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg	-	04/13/22 13:29	04/13/22 20:50	1
m,p-Xylenes	<0.00100	U	0.00398	0.00100	mg/Kg	-	04/13/22 13:29	04/13/22 20:50	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg	-	04/13/22 13:29	04/13/22 20:50	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg	-	04/13/22 13:29	04/13/22 20:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	04/13/22 13:29	04/13/22 20:50	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-32

Lab Sample ID: 890-2178-32

Date Collected: 04/09/22 09:10

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	99		70 - 130	04/13/22 13:29	04/13/22 20:50	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg			04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<14.9	U	49.8	14.9	mg/Kg			04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.9	U	49.8	14.9	mg/Kg		04/11/22 16:41	04/12/22 17:01	1
Diesel Range Organics (Over C10-C28)	<14.9	U	49.8	14.9	mg/Kg		04/11/22 16:41	04/12/22 17:01	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.8	14.9	mg/Kg		04/11/22 16:41	04/12/22 17:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				04/11/22 16:41	04/12/22 17:01	1
o-Terphenyl	91		70 - 130				04/11/22 16:41	04/12/22 17:01	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	122		5.00	0.858	mg/Kg			04/15/22 05:02	1

Client Sample ID: E2-33

Lab Sample ID: 890-2178-33

Date Collected: 04/09/22 09:13

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg		04/13/22 13:29	04/13/22 21:10	1
Toluene	0.000480	J	0.00200	0.000455	mg/Kg		04/13/22 13:29	04/13/22 21:10	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		04/13/22 13:29	04/13/22 21:10	1
m,p-Xylenes	<0.00101	U	0.00399	0.00101	mg/Kg		04/13/22 13:29	04/13/22 21:10	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		04/13/22 13:29	04/13/22 21:10	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		04/13/22 13:29	04/13/22 21:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	04/13/22 13:29	04/13/22 21:10	1
1,4-Difluorobenzene (Surr)	103		70 - 130	04/13/22 13:29	04/13/22 21:10	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg			04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.9	15.0	mg/Kg			04/12/22 10:58	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-33

Lab Sample ID: 890-2178-33

Date Collected: 04/09/22 09:13

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg	-	04/11/22 16:41	04/12/22 17:25	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg	-	04/11/22 16:41	04/12/22 17:25	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg	-	04/11/22 16:41	04/12/22 17:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				04/11/22 16:41	04/12/22 17:25	1
o-Terphenyl	85		70 - 130				04/11/22 16:41	04/12/22 17:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73.7		4.95	0.850	mg/Kg	-		04/15/22 05:09	1

Client Sample ID: E2-34

Lab Sample ID: 890-2178-34

Date Collected: 04/09/22 09:15

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg	-	04/13/22 13:29	04/13/22 21:31	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg	-	04/13/22 13:29	04/13/22 21:31	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg	-	04/13/22 13:29	04/13/22 21:31	1
m,p-Xylenes	<0.00101	U	0.00399	0.00101	mg/Kg	-	04/13/22 13:29	04/13/22 21:31	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg	-	04/13/22 13:29	04/13/22 21:31	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg	-	04/13/22 13:29	04/13/22 21:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				04/13/22 13:29	04/13/22 21:31	1
1,4-Difluorobenzene (Surr)	97		70 - 130				04/13/22 13:29	04/13/22 21:31	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg	-		04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.9	15.0	mg/Kg	-		04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg	-	04/11/22 16:41	04/12/22 17:47	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg	-	04/11/22 16:41	04/12/22 17:47	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg	-	04/11/22 16:41	04/12/22 17:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				04/11/22 16:41	04/12/22 17:47	1
o-Terphenyl	109		70 - 130				04/11/22 16:41	04/12/22 17:47	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-34

Date Collected: 04/09/22 09:15

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Lab Sample ID: 890-2178-34

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	205		4.95	0.850	mg/Kg			04/15/22 05:15	1

Client Sample ID: E2-35

Date Collected: 04/09/22 09:16

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Lab Sample ID: 890-2178-35

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000667	J	0.00200	0.000385	mg/Kg		04/13/22 13:29	04/13/22 21:51	1
Toluene	0.000974	J	0.00200	0.000456	mg/Kg		04/13/22 13:29	04/13/22 21:51	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		04/13/22 13:29	04/13/22 21:51	1
m,p-Xylenes	<0.00101	U	0.00400	0.00101	mg/Kg		04/13/22 13:29	04/13/22 21:51	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		04/13/22 13:29	04/13/22 21:51	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		04/13/22 13:29	04/13/22 21:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				04/13/22 13:29	04/13/22 21:51	1
1,4-Difluorobenzene (Surr)	99		70 - 130				04/13/22 13:29	04/13/22 21:51	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00164	J	0.00400	0.00101	mg/Kg			04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.0	mg/Kg			04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		04/11/22 16:41	04/12/22 18:09	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		04/11/22 16:41	04/12/22 18:09	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/11/22 16:41	04/12/22 18:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				04/11/22 16:41	04/12/22 18:09	1
o-Terphenyl	85		70 - 130				04/11/22 16:41	04/12/22 18:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	210		5.01	0.860	mg/Kg			04/15/22 05:21	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-36

Lab Sample ID: 890-2178-36

Date Collected: 04/09/22 09:18

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00200	0.000386	mg/Kg	-	04/13/22 13:29	04/13/22 22:12	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg	-	04/13/22 13:29	04/13/22 22:12	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg	-	04/13/22 13:29	04/13/22 22:12	1
m,p-Xylenes	<0.00101	U	0.00401	0.00101	mg/Kg	-	04/13/22 13:29	04/13/22 22:12	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg	-	04/13/22 13:29	04/13/22 22:12	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg	-	04/13/22 13:29	04/13/22 22:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	04/13/22 13:29	04/13/22 22:12	1
1,4-Difluorobenzene (Surr)	96		70 - 130	04/13/22 13:29	04/13/22 22:12	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg	-		04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.0	mg/Kg	-		04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:41	04/12/22 18:30	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:41	04/12/22 18:30	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:41	04/12/22 18:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	04/11/22 16:41	04/12/22 18:30	1
o-Terphenyl	90		70 - 130	04/11/22 16:41	04/12/22 18:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	89.9		4.98	0.855	mg/Kg	-		04/15/22 05:28	1

Client Sample ID: E2-37

Lab Sample ID: 890-2178-37

Date Collected: 04/09/22 09:20

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000640	J	0.00201	0.000387	mg/Kg	-	04/13/22 13:29	04/13/22 22:32	1
Toluene	<0.000458	U	0.00201	0.000458	mg/Kg	-	04/13/22 13:29	04/13/22 22:32	1
Ethylbenzene	<0.000567	U	0.00201	0.000567	mg/Kg	-	04/13/22 13:29	04/13/22 22:32	1
m,p-Xylenes	<0.00101	U	0.00402	0.00101	mg/Kg	-	04/13/22 13:29	04/13/22 22:32	1
o-Xylene	<0.000345	U	0.00201	0.000345	mg/Kg	-	04/13/22 13:29	04/13/22 22:32	1
Xylenes, Total	<0.00101	U	0.00402	0.00101	mg/Kg	-	04/13/22 13:29	04/13/22 22:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	04/13/22 13:29	04/13/22 22:32	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-37

Lab Sample ID: 890-2178-37

Date Collected: 04/09/22 09:20

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	97		70 - 130	04/13/22 13:29	04/13/22 22:32	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg			04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.9	15.0	mg/Kg			04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg		04/11/22 16:41	04/12/22 18:50	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		04/11/22 16:41	04/12/22 18:50	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		04/11/22 16:41	04/12/22 18:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				04/11/22 16:41	04/12/22 18:50	1
o-Terphenyl	91		70 - 130				04/11/22 16:41	04/12/22 18:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	62.2		5.00	0.858	mg/Kg			04/15/22 05:34	1

Client Sample ID: E2-38

Lab Sample ID: 890-2178-38

Date Collected: 04/09/22 09:22

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00201	0.000387	mg/Kg		04/13/22 13:29	04/13/22 22:52	1
Toluene	<0.000459	U	0.00201	0.000459	mg/Kg		04/13/22 13:29	04/13/22 22:52	1
Ethylbenzene	<0.000568	U	0.00201	0.000568	mg/Kg		04/13/22 13:29	04/13/22 22:52	1
m,p-Xylenes	<0.00102	U	0.00402	0.00102	mg/Kg		04/13/22 13:29	04/13/22 22:52	1
o-Xylene	<0.000346	U	0.00201	0.000346	mg/Kg		04/13/22 13:29	04/13/22 22:52	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg		04/13/22 13:29	04/13/22 22:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	04/13/22 13:29	04/13/22 22:52	1
1,4-Difluorobenzene (Surr)	100		70 - 130	04/13/22 13:29	04/13/22 22:52	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg			04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.0	mg/Kg			04/12/22 10:58	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-38

Lab Sample ID: 890-2178-38

Date Collected: 04/09/22 09:22

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:41	04/12/22 19:11	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:41	04/12/22 19:11	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:41	04/12/22 19:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				04/11/22 16:41	04/12/22 19:11	1
o-Terphenyl	100		70 - 130				04/11/22 16:41	04/12/22 19:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	262		4.99	0.857	mg/Kg	-		04/15/22 05:40	1

Client Sample ID: E2-39

Lab Sample ID: 890-2178-39

Date Collected: 04/09/22 09:30

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg	-	04/13/22 13:29	04/14/22 00:42	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg	-	04/13/22 13:29	04/14/22 00:42	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg	-	04/13/22 13:29	04/14/22 00:42	1
m,p-Xylenes	<0.00101	U	0.00399	0.00101	mg/Kg	-	04/13/22 13:29	04/14/22 00:42	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg	-	04/13/22 13:29	04/14/22 00:42	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg	-	04/13/22 13:29	04/14/22 00:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				04/13/22 13:29	04/14/22 00:42	1
1,4-Difluorobenzene (Surr)	97		70 - 130				04/13/22 13:29	04/14/22 00:42	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg	-		04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.9	15.0	mg/Kg	-		04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg	-	04/11/22 16:41	04/12/22 19:32	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg	-	04/11/22 16:41	04/12/22 19:32	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg	-	04/11/22 16:41	04/12/22 19:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				04/11/22 16:41	04/12/22 19:32	1
o-Terphenyl	118		70 - 130				04/11/22 16:41	04/12/22 19:32	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-39

Date Collected: 04/09/22 09:30

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Lab Sample ID: 890-2178-39

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	223		4.96	0.851	mg/Kg			04/16/22 04:05	1

Client Sample ID: E2-40

Date Collected: 04/09/22 09:32

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Lab Sample ID: 890-2178-40

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00200	0.000386	mg/Kg		04/13/22 13:29	04/14/22 01:03	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg		04/13/22 13:29	04/14/22 01:03	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		04/13/22 13:29	04/14/22 01:03	1
m,p-Xylenes	<0.00101	U	0.00401	0.00101	mg/Kg		04/13/22 13:29	04/14/22 01:03	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg		04/13/22 13:29	04/14/22 01:03	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		04/13/22 13:29	04/14/22 01:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				04/13/22 13:29	04/14/22 01:03	1
1,4-Difluorobenzene (Surr)	98		70 - 130				04/13/22 13:29	04/14/22 01:03	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg			04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.9	15.0	mg/Kg			04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg		04/11/22 16:41	04/12/22 19:52	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		04/11/22 16:41	04/12/22 19:52	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		04/11/22 16:41	04/12/22 19:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				04/11/22 16:41	04/12/22 19:52	1
o-Terphenyl	100		70 - 130				04/11/22 16:41	04/12/22 19:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	297		5.05	0.867	mg/Kg			04/16/22 04:25	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-41

Lab Sample ID: 890-2178-41

Date Collected: 04/09/22 09:34

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00201	0.000387	mg/Kg	-	04/13/22 13:29	04/14/22 01:23	1
Toluene	<0.000458	U	0.00201	0.000458	mg/Kg	-	04/13/22 13:29	04/14/22 01:23	1
Ethylbenzene	<0.000567	U	0.00201	0.000567	mg/Kg	-	04/13/22 13:29	04/14/22 01:23	1
m,p-Xylenes	<0.00101	U	0.00402	0.00101	mg/Kg	-	04/13/22 13:29	04/14/22 01:23	1
o-Xylene	<0.000345	U	0.00201	0.000345	mg/Kg	-	04/13/22 13:29	04/14/22 01:23	1
Xylenes, Total	<0.00101	U	0.00402	0.00101	mg/Kg	-	04/13/22 13:29	04/14/22 01:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	04/13/22 13:29	04/14/22 01:23	1
1,4-Difluorobenzene (Surr)	98		70 - 130	04/13/22 13:29	04/14/22 01:23	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg	-		04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	16.5	J	49.9	15.0	mg/Kg	-		04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg	-	04/11/22 16:48	04/12/22 11:57	1
Diesel Range Organics (Over C10-C28)	16.5	J B	49.9	15.0	mg/Kg	-	04/11/22 16:48	04/12/22 11:57	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg	-	04/11/22 16:48	04/12/22 11:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130	04/11/22 16:48	04/12/22 11:57	1
o-Terphenyl	72		70 - 130	04/11/22 16:48	04/12/22 11:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	222		5.01	0.860	mg/Kg	-		04/16/22 04:31	1

Client Sample ID: E2-42

Lab Sample ID: 890-2178-42

Date Collected: 04/09/22 09:36

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg	-	04/13/22 13:29	04/14/22 01:43	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg	-	04/13/22 13:29	04/14/22 01:43	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg	-	04/13/22 13:29	04/14/22 01:43	1
m,p-Xylenes	<0.00101	U	0.00399	0.00101	mg/Kg	-	04/13/22 13:29	04/14/22 01:43	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg	-	04/13/22 13:29	04/14/22 01:43	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg	-	04/13/22 13:29	04/14/22 01:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	04/13/22 13:29	04/14/22 01:43	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-42

Lab Sample ID: 890-2178-42

Date Collected: 04/09/22 09:36

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	97		70 - 130	04/13/22 13:29	04/14/22 01:43	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg	-		04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.0	mg/Kg	-		04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:48	04/12/22 13:01	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:48	04/12/22 13:01	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:48	04/12/22 13:01	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1-Chlorooctane	93		70 - 130	04/11/22 16:48	04/12/22 13:01	1			
o-Terphenyl	94		70 - 130	04/11/22 16:48	04/12/22 13:01	1			

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	170		4.97	0.853	mg/Kg	-		04/16/22 04:37	1

Client Sample ID: E2-43

Lab Sample ID: 890-2178-43

Date Collected: 04/09/22 09:37

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg	-	04/13/22 13:29	04/14/22 02:04	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg	-	04/13/22 13:29	04/14/22 02:04	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg	-	04/13/22 13:29	04/14/22 02:04	1
m,p-Xylenes	<0.00100	U	0.00398	0.00100	mg/Kg	-	04/13/22 13:29	04/14/22 02:04	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg	-	04/13/22 13:29	04/14/22 02:04	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg	-	04/13/22 13:29	04/14/22 02:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	04/13/22 13:29	04/14/22 02:04	1
1,4-Difluorobenzene (Surr)	98		70 - 130	04/13/22 13:29	04/14/22 02:04	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg	-		04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	15.1	J	50.0	15.0	mg/Kg	-		04/12/22 10:58	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-43

Date Collected: 04/09/22 09:37

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Lab Sample ID: 890-2178-43

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	15.1	J	50.0	15.0	mg/Kg	-	04/11/22 16:48	04/12/22 13:22	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:48	04/12/22 13:22	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:48	04/12/22 13:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				04/11/22 16:48	04/12/22 13:22	1
o-Terphenyl	94		70 - 130				04/11/22 16:48	04/12/22 13:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	150		4.99	0.857	mg/Kg	-		04/16/22 04:44	1

Client Sample ID: E2-44

Date Collected: 04/09/22 09:39

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Lab Sample ID: 890-2178-44

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg	-	04/13/22 13:29	04/14/22 02:24	1
Toluene	0.000679	J	0.00200	0.000455	mg/Kg	-	04/13/22 13:29	04/14/22 02:24	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg	-	04/13/22 13:29	04/14/22 02:24	1
m,p-Xylenes	<0.00101	U	0.00399	0.00101	mg/Kg	-	04/13/22 13:29	04/14/22 02:24	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg	-	04/13/22 13:29	04/14/22 02:24	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg	-	04/13/22 13:29	04/14/22 02:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				04/13/22 13:29	04/14/22 02:24	1
1,4-Difluorobenzene (Surr)	101		70 - 130				04/13/22 13:29	04/14/22 02:24	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg	-		04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	19.2	J	49.8	14.9	mg/Kg	-		04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.9	U	49.8	14.9	mg/Kg	-	04/11/22 16:48	04/12/22 13:44	1
Diesel Range Organics (Over C10-C28)	19.2	J B	49.8	14.9	mg/Kg	-	04/11/22 16:48	04/12/22 13:44	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.8	14.9	mg/Kg	-	04/11/22 16:48	04/12/22 13:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				04/11/22 16:48	04/12/22 13:44	1
o-Terphenyl	83		70 - 130				04/11/22 16:48	04/12/22 13:44	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-44

Date Collected: 04/09/22 09:39

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Lab Sample ID: 890-2178-44

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	207		4.95	0.850	mg/Kg			04/16/22 05:02	1

Client Sample ID: E2-45

Date Collected: 04/09/22 09:40

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Lab Sample ID: 890-2178-45

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000520	J	0.00199	0.000383	mg/Kg		04/13/22 13:29	04/14/22 02:45	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		04/13/22 13:29	04/14/22 02:45	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		04/13/22 13:29	04/14/22 02:45	1
m,p-Xylenes	<0.00101	U	0.00398	0.00101	mg/Kg		04/13/22 13:29	04/14/22 02:45	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg		04/13/22 13:29	04/14/22 02:45	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		04/13/22 13:29	04/14/22 02:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130				04/13/22 13:29	04/14/22 02:45	1
1,4-Difluorobenzene (Surr)	94		70 - 130				04/13/22 13:29	04/14/22 02:45	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg			04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	19.1	J	50.0	15.0	mg/Kg			04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		04/11/22 16:48	04/12/22 14:05	1
Diesel Range Organics (Over C10-C28)	19.1	J B	50.0	15.0	mg/Kg		04/11/22 16:48	04/12/22 14:05	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/11/22 16:48	04/12/22 14:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				04/11/22 16:48	04/12/22 14:05	1
o-Terphenyl	91		70 - 130				04/11/22 16:48	04/12/22 14:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	178		4.97	0.853	mg/Kg			04/16/22 05:09	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-46

Lab Sample ID: 890-2178-46

Date Collected: 04/09/22 09:41

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg	-	04/13/22 13:29	04/14/22 03:05	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg	-	04/13/22 13:29	04/14/22 03:05	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg	-	04/13/22 13:29	04/14/22 03:05	1
m,p-Xylenes	<0.00100	U	0.00398	0.00100	mg/Kg	-	04/13/22 13:29	04/14/22 03:05	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg	-	04/13/22 13:29	04/14/22 03:05	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg	-	04/13/22 13:29	04/14/22 03:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	04/13/22 13:29	04/14/22 03:05	1
1,4-Difluorobenzene (Surr)	97		70 - 130	04/13/22 13:29	04/14/22 03:05	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg	-		04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	22.5	J	50.0	15.0	mg/Kg	-		04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	22.5	J	50.0	15.0	mg/Kg	-	04/11/22 16:48	04/12/22 14:27	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:48	04/12/22 14:27	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:48	04/12/22 14:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	04/11/22 16:48	04/12/22 14:27	1
o-Terphenyl	102		70 - 130	04/11/22 16:48	04/12/22 14:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32.5		4.95	0.850	mg/Kg	-		04/16/22 05:15	1

Client Sample ID: E2-47

Lab Sample ID: 890-2178-47

Date Collected: 04/09/22 09:42

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00200	0.000386	mg/Kg	-	04/13/22 13:29	04/14/22 03:25	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg	-	04/13/22 13:29	04/14/22 03:25	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg	-	04/13/22 13:29	04/14/22 03:25	1
m,p-Xylenes	<0.00101	U	0.00401	0.00101	mg/Kg	-	04/13/22 13:29	04/14/22 03:25	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg	-	04/13/22 13:29	04/14/22 03:25	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg	-	04/13/22 13:29	04/14/22 03:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	04/13/22 13:29	04/14/22 03:25	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-47

Lab Sample ID: 890-2178-47

Date Collected: 04/09/22 09:42

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	105		70 - 130	04/13/22 13:29	04/14/22 03:25	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg			04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	35.7	J	49.9	15.0	mg/Kg			04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	20.3	J	49.9	15.0	mg/Kg		04/11/22 16:48	04/12/22 14:49	1
Diesel Range Organics (Over C10-C28)	15.4	J B	49.9	15.0	mg/Kg		04/11/22 16:48	04/12/22 14:49	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		04/11/22 16:48	04/12/22 14:49	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1-Chlorooctane	99		70 - 130	04/11/22 16:48	04/12/22 14:49	1			
o-Terphenyl	100		70 - 130	04/11/22 16:48	04/12/22 14:49	1			

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.2		5.00	0.858	mg/Kg			04/16/22 05:21	1

Client Sample ID: E2-48

Lab Sample ID: 890-2178-48

Date Collected: 04/09/22 09:43

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00201	0.000387	mg/Kg		04/13/22 13:29	04/14/22 03:46	1
Toluene	<0.000458	U	0.00201	0.000458	mg/Kg		04/13/22 13:29	04/14/22 03:46	1
Ethylbenzene	<0.000567	U	0.00201	0.000567	mg/Kg		04/13/22 13:29	04/14/22 03:46	1
m,p-Xylenes	<0.00101	U	0.00402	0.00101	mg/Kg		04/13/22 13:29	04/14/22 03:46	1
o-Xylene	<0.000345	U	0.00201	0.000345	mg/Kg		04/13/22 13:29	04/14/22 03:46	1
Xylenes, Total	<0.00101	U	0.00402	0.00101	mg/Kg		04/13/22 13:29	04/14/22 03:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	04/13/22 13:29	04/14/22 03:46	1
1,4-Difluorobenzene (Surr)	101		70 - 130	04/13/22 13:29	04/14/22 03:46	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg			04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	34.2	J	49.9	15.0	mg/Kg			04/12/22 10:58	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-48

Lab Sample ID: 890-2178-48

Date Collected: 04/09/22 09:43

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	17.4	J	49.9	15.0	mg/Kg	-	04/11/22 16:48	04/12/22 15:11	1
Diesel Range Organics (Over C10-C28)	16.8	J B	49.9	15.0	mg/Kg	-	04/11/22 16:48	04/12/22 15:11	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg	-	04/11/22 16:48	04/12/22 15:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				04/11/22 16:48	04/12/22 15:11	1
o-Terphenyl	98		70 - 130				04/11/22 16:48	04/12/22 15:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.9		4.99	0.857	mg/Kg	-		04/16/22 05:28	1

Client Sample ID: E2-49

Lab Sample ID: 890-2178-49

Date Collected: 04/09/22 09:47

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000388	U ** *1	0.00202	0.000388	mg/Kg	-	04/13/22 13:36	04/14/22 06:42	1
Toluene	0.000755	J ** *1	0.00202	0.000460	mg/Kg	-	04/13/22 13:36	04/14/22 06:42	1
Ethylbenzene	<0.000570	U	0.00202	0.000570	mg/Kg	-	04/13/22 13:36	04/14/22 06:42	1
m,p-Xylenes	<0.00102	U **	0.00403	0.00102	mg/Kg	-	04/13/22 13:36	04/14/22 06:42	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg	-	04/13/22 13:36	04/14/22 06:42	1
Xylenes, Total	<0.00102	U	0.00403	0.00102	mg/Kg	-	04/13/22 13:36	04/14/22 06:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				04/13/22 13:36	04/14/22 06:42	1
1,4-Difluorobenzene (Surr)	87		70 - 130				04/13/22 13:36	04/14/22 06:42	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg	-		04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	28.4	J	50.0	15.0	mg/Kg	-		04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	28.4	J	50.0	15.0	mg/Kg	-	04/11/22 16:48	04/12/22 15:33	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:48	04/12/22 15:33	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:48	04/12/22 15:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				04/11/22 16:48	04/12/22 15:33	1
o-Terphenyl	82		70 - 130				04/11/22 16:48	04/12/22 15:33	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-49

Lab Sample ID: 890-2178-49

Date Collected: 04/09/22 09:47

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.8		4.96	0.851	mg/Kg			04/16/22 05:34	1

Client Sample ID: E2-50

Lab Sample ID: 890-2178-50

Date Collected: 04/09/22 09:49

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U ** *1	0.00200	0.000384	mg/Kg		04/13/22 13:36	04/14/22 07:08	1
Toluene	<0.000455	U ** *1	0.00200	0.000455	mg/Kg		04/13/22 13:36	04/14/22 07:08	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		04/13/22 13:36	04/14/22 07:08	1
m,p-Xylenes	<0.00101	U **	0.00399	0.00101	mg/Kg		04/13/22 13:36	04/14/22 07:08	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		04/13/22 13:36	04/14/22 07:08	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		04/13/22 13:36	04/14/22 07:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130				04/13/22 13:36	04/14/22 07:08	1
1,4-Difluorobenzene (Surr)	87		70 - 130				04/13/22 13:36	04/14/22 07:08	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg			04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	18.0	J	50.0	15.0	mg/Kg			04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		04/11/22 16:48	04/12/22 15:54	1
Diesel Range Organics (Over C10-C28)	18.0	J B	50.0	15.0	mg/Kg		04/11/22 16:48	04/12/22 15:54	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/11/22 16:48	04/12/22 15:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				04/11/22 16:48	04/12/22 15:54	1
o-Terphenyl	79		70 - 130				04/11/22 16:48	04/12/22 15:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	59.1		5.00	0.858	mg/Kg			04/16/22 05:53	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-51

Lab Sample ID: 890-2178-51

Date Collected: 04/09/22 09:53

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U ** *1	0.00199	0.000383	mg/Kg	-	04/13/22 13:36	04/14/22 07:34	1
Toluene	0.000760	J ** *1	0.00199	0.000454	mg/Kg	-	04/13/22 13:36	04/14/22 07:34	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg	-	04/13/22 13:36	04/14/22 07:34	1
m,p-Xylenes	<0.00101	U **	0.00398	0.00101	mg/Kg	-	04/13/22 13:36	04/14/22 07:34	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg	-	04/13/22 13:36	04/14/22 07:34	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg	-	04/13/22 13:36	04/14/22 07:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130				04/13/22 13:36	04/14/22 07:34	1
1,4-Difluorobenzene (Surr)	86		70 - 130				04/13/22 13:36	04/14/22 07:34	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg	-		04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	17.0	J	49.9	15.0	mg/Kg	-		04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg	-	04/11/22 16:48	04/12/22 16:39	1
Diesel Range Organics (Over C10-C28)	17.0	J B	49.9	15.0	mg/Kg	-	04/11/22 16:48	04/12/22 16:39	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg	-	04/11/22 16:48	04/12/22 16:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130				04/11/22 16:48	04/12/22 16:39	1
o-Terphenyl	71		70 - 130				04/11/22 16:48	04/12/22 16:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70.1		4.95	0.850	mg/Kg	-		04/16/22 05:59	1

Client Sample ID: E2-52

Lab Sample ID: 890-2178-52

Date Collected: 04/09/22 10:00

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U ** *1	0.00200	0.000384	mg/Kg	-	04/13/22 13:36	04/14/22 08:01	1
Toluene	<0.000455	U ** *1	0.00200	0.000455	mg/Kg	-	04/13/22 13:36	04/14/22 08:01	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg	-	04/13/22 13:36	04/14/22 08:01	1
m,p-Xylenes	<0.00101	U **	0.00399	0.00101	mg/Kg	-	04/13/22 13:36	04/14/22 08:01	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg	-	04/13/22 13:36	04/14/22 08:01	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg	-	04/13/22 13:36	04/14/22 08:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130				04/13/22 13:36	04/14/22 08:01	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-52

Lab Sample ID: 890-2178-52

Date Collected: 04/09/22 10:00

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	85		70 - 130	04/13/22 13:36	04/14/22 08:01	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg			04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	24.1	J	50.0	15.0	mg/Kg			04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		04/11/22 16:48	04/12/22 17:01	1
Diesel Range Organics (Over C10-C28)	24.1	J B	50.0	15.0	mg/Kg		04/11/22 16:48	04/12/22 17:01	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/11/22 16:48	04/12/22 17:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				04/11/22 16:48	04/12/22 17:01	1
o-Terphenyl	92		70 - 130				04/11/22 16:48	04/12/22 17:01	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41.2		4.97	0.853	mg/Kg			04/16/22 06:18	1

Client Sample ID: E2-53

Lab Sample ID: 890-2178-53

Date Collected: 04/09/22 10:02

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U *+ *1	0.00199	0.000383	mg/Kg		04/13/22 13:36	04/14/22 08:29	1
Toluene	<0.000453	U *+ *1	0.00199	0.000453	mg/Kg		04/13/22 13:36	04/14/22 08:29	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		04/13/22 13:36	04/14/22 08:29	1
m,p-Xylenes	<0.00100	U *+	0.00398	0.00100	mg/Kg		04/13/22 13:36	04/14/22 08:29	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		04/13/22 13:36	04/14/22 08:29	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		04/13/22 13:36	04/14/22 08:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	04/13/22 13:36	04/14/22 08:29	1
1,4-Difluorobenzene (Surr)	86		70 - 130	04/13/22 13:36	04/14/22 08:29	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg			04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	19.4	J	49.9	15.0	mg/Kg			04/12/22 10:58	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-53

Date Collected: 04/09/22 10:02

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Lab Sample ID: 890-2178-53

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg	-	04/11/22 16:48	04/12/22 17:25	1
Diesel Range Organics (Over C10-C28)	19.4	J B	49.9	15.0	mg/Kg	-	04/11/22 16:48	04/12/22 17:25	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg	-	04/11/22 16:48	04/12/22 17:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				04/11/22 16:48	04/12/22 17:25	1
o-Terphenyl	83		70 - 130				04/11/22 16:48	04/12/22 17:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	87.9		5.01	0.860	mg/Kg	-		04/16/22 06:25	1

Client Sample ID: E2-54

Date Collected: 04/09/22 10:05

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Lab Sample ID: 890-2178-54

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U ** *1	0.00200	0.000386	mg/Kg	-	04/13/22 13:36	04/14/22 08:56	1
Toluene	<0.000457	U ** *1	0.00200	0.000457	mg/Kg	-	04/13/22 13:36	04/14/22 08:56	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg	-	04/13/22 13:36	04/14/22 08:56	1
m,p-Xylenes	<0.00101	U **	0.00401	0.00101	mg/Kg	-	04/13/22 13:36	04/14/22 08:56	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg	-	04/13/22 13:36	04/14/22 08:56	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg	-	04/13/22 13:36	04/14/22 08:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130				04/13/22 13:36	04/14/22 08:56	1
1,4-Difluorobenzene (Surr)	87		70 - 130				04/13/22 13:36	04/14/22 08:56	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg	-		04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	39.3	J	50.0	15.0	mg/Kg	-		04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	17.3	J	50.0	15.0	mg/Kg	-	04/11/22 16:48	04/12/22 17:47	1
Diesel Range Organics (Over C10-C28)	22.0	J B	50.0	15.0	mg/Kg	-	04/11/22 16:48	04/12/22 17:47	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:48	04/12/22 17:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				04/11/22 16:48	04/12/22 17:47	1
o-Terphenyl	91		70 - 130				04/11/22 16:48	04/12/22 17:47	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-54

Date Collected: 04/09/22 10:05

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Lab Sample ID: 890-2178-54

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	136		4.99	0.857	mg/Kg			04/16/22 06:31	1

Client Sample ID: E2-55

Date Collected: 04/09/22 10:07

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Lab Sample ID: 890-2178-55

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U *+ *1	0.00201	0.000387	mg/Kg		04/13/22 13:36	04/14/22 09:23	1
Toluene	<0.000458	U *+ *1	0.00201	0.000458	mg/Kg		04/13/22 13:36	04/14/22 09:23	1
Ethylbenzene	<0.000567	U	0.00201	0.000567	mg/Kg		04/13/22 13:36	04/14/22 09:23	1
m,p-Xylenes	<0.00101	U *+	0.00402	0.00101	mg/Kg		04/13/22 13:36	04/14/22 09:23	1
o-Xylene	<0.000345	U	0.00201	0.000345	mg/Kg		04/13/22 13:36	04/14/22 09:23	1
Xylenes, Total	<0.00101	U	0.00402	0.00101	mg/Kg		04/13/22 13:36	04/14/22 09:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130				04/13/22 13:36	04/14/22 09:23	1
1,4-Difluorobenzene (Surr)	90		70 - 130				04/13/22 13:36	04/14/22 09:23	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg			04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	19.4	J	49.9	15.0	mg/Kg			04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg		04/11/22 16:48	04/12/22 18:09	1
Diesel Range Organics (Over C10-C28)	19.4	J B	49.9	15.0	mg/Kg		04/11/22 16:48	04/12/22 18:09	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		04/11/22 16:48	04/12/22 18:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				04/11/22 16:48	04/12/22 18:09	1
o-Terphenyl	90		70 - 130				04/11/22 16:48	04/12/22 18:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46.0		5.05	0.867	mg/Kg			04/16/22 06:37	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-56

Lab Sample ID: 890-2178-56

Date Collected: 04/09/22 10:08

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000388	U *+ *1	0.00202	0.000388	mg/Kg	-	04/13/22 13:36	04/14/22 09:50	1
Toluene	<0.000460	U *+ *1	0.00202	0.000460	mg/Kg	-	04/13/22 13:36	04/14/22 09:50	1
Ethylbenzene	<0.000570	U	0.00202	0.000570	mg/Kg	-	04/13/22 13:36	04/14/22 09:50	1
m,p-Xylenes	<0.00102	U *+	0.00403	0.00102	mg/Kg	-	04/13/22 13:36	04/14/22 09:50	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg	-	04/13/22 13:36	04/14/22 09:50	1
Xylenes, Total	<0.00102	U	0.00403	0.00102	mg/Kg	-	04/13/22 13:36	04/14/22 09:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	04/13/22 13:36	04/14/22 09:50	1
1,4-Difluorobenzene (Surr)	88		70 - 130	04/13/22 13:36	04/14/22 09:50	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg	-		04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	65.6		50.0	15.0	mg/Kg	-		04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	40.4	J	50.0	15.0	mg/Kg	-	04/11/22 16:48	04/12/22 18:30	1
Diesel Range Organics (Over C10-C28)	25.2	J B	50.0	15.0	mg/Kg	-	04/11/22 16:48	04/12/22 18:30	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:48	04/12/22 18:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	04/11/22 16:48	04/12/22 18:30	1
o-Terphenyl	93		70 - 130	04/11/22 16:48	04/12/22 18:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.3		4.97	0.853	mg/Kg	-		04/16/22 06:44	1

Client Sample ID: E2-57

Lab Sample ID: 890-2178-57

Date Collected: 04/09/22 10:11

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000389	U *+ *1	0.00202	0.000389	mg/Kg	-	04/13/22 13:36	04/14/22 10:17	1
Toluene	<0.000461	U *+ *1	0.00202	0.000461	mg/Kg	-	04/13/22 13:36	04/14/22 10:17	1
Ethylbenzene	<0.000571	U	0.00202	0.000571	mg/Kg	-	04/13/22 13:36	04/14/22 10:17	1
m,p-Xylenes	<0.00102	U *+	0.00404	0.00102	mg/Kg	-	04/13/22 13:36	04/14/22 10:17	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg	-	04/13/22 13:36	04/14/22 10:17	1
Xylenes, Total	<0.00102	U	0.00404	0.00102	mg/Kg	-	04/13/22 13:36	04/14/22 10:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	04/13/22 13:36	04/14/22 10:17	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-57

Lab Sample ID: 890-2178-57

Date Collected: 04/09/22 10:11

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	89		70 - 130	04/13/22 13:36	04/14/22 10:17	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg			04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	38.3	J	50.0	15.0	mg/Kg			04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	18.8	J	50.0	15.0	mg/Kg		04/11/22 16:48	04/12/22 18:50	1
Diesel Range Organics (Over C10-C28)	19.5	J B	50.0	15.0	mg/Kg		04/11/22 16:48	04/12/22 18:50	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/11/22 16:48	04/12/22 18:50	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1-Chlorooctane	94		70 - 130	04/11/22 16:48	04/12/22 18:50	1			
o-Terphenyl	94		70 - 130	04/11/22 16:48	04/12/22 18:50	1			

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.1		4.95	0.850	mg/Kg			04/16/22 06:50	1

Client Sample ID: E2-58

Lab Sample ID: 890-2178-58

Date Collected: 04/09/22 10:14

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U *+ *1	0.00200	0.000384	mg/Kg		04/13/22 13:36	04/14/22 10:45	1
Toluene	<0.000455	U *+ *1	0.00200	0.000455	mg/Kg		04/13/22 13:36	04/14/22 10:45	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		04/13/22 13:36	04/14/22 10:45	1
m,p-Xylenes	<0.00101	U *+	0.00399	0.00101	mg/Kg		04/13/22 13:36	04/14/22 10:45	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		04/13/22 13:36	04/14/22 10:45	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		04/13/22 13:36	04/14/22 10:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130	04/13/22 13:36	04/14/22 10:45	1
1,4-Difluorobenzene (Surr)	91		70 - 130	04/13/22 13:36	04/14/22 10:45	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg			04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	16.5	J	50.0	15.0	mg/Kg			04/12/22 10:58	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-58

Lab Sample ID: 890-2178-58

Date Collected: 04/09/22 10:14

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:48	04/12/22 19:11	1
Diesel Range Organics (Over C10-C28)	16.5	J B	50.0	15.0	mg/Kg	-	04/11/22 16:48	04/12/22 19:11	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:48	04/12/22 19:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				04/11/22 16:48	04/12/22 19:11	1
o-Terphenyl	88		70 - 130				04/11/22 16:48	04/12/22 19:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	120		4.99	0.857	mg/Kg	-		04/16/22 06:56	1

Client Sample ID: E2-59

Lab Sample ID: 890-2178-59

Date Collected: 04/09/22 10:17

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U ** *1	0.00199	0.000383	mg/Kg	-	04/13/22 13:36	04/14/22 12:32	1
Toluene	<0.000454	U ** *1	0.00199	0.000454	mg/Kg	-	04/13/22 13:36	04/14/22 12:32	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg	-	04/13/22 13:36	04/14/22 12:32	1
m,p-Xylenes	<0.00101	U **	0.00398	0.00101	mg/Kg	-	04/13/22 13:36	04/14/22 12:32	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg	-	04/13/22 13:36	04/14/22 12:32	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg	-	04/13/22 13:36	04/14/22 12:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				04/13/22 13:36	04/14/22 12:32	1
1,4-Difluorobenzene (Surr)	86		70 - 130				04/13/22 13:36	04/14/22 12:32	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg	-		04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	50.3		49.9	15.0	mg/Kg	-		04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	30.0	J	49.9	15.0	mg/Kg	-	04/11/22 16:48	04/12/22 19:32	1
Diesel Range Organics (Over C10-C28)	20.3	J B	49.9	15.0	mg/Kg	-	04/11/22 16:48	04/12/22 19:32	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg	-	04/11/22 16:48	04/12/22 19:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				04/11/22 16:48	04/12/22 19:32	1
o-Terphenyl	95		70 - 130				04/11/22 16:48	04/12/22 19:32	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-59

Date Collected: 04/09/22 10:17

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Lab Sample ID: 890-2178-59

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45.9		4.95	0.850	mg/Kg	-		04/16/22 07:47	1

Client Sample ID: E2-60

Date Collected: 04/09/22 10:20

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Lab Sample ID: 890-2178-60

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U *+ *1	0.00199	0.000383	mg/Kg	-	04/13/22 13:36	04/14/22 12:59	1
Toluene	<0.000453	U *+ *1	0.00199	0.000453	mg/Kg	-	04/13/22 13:36	04/14/22 12:59	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg	-	04/13/22 13:36	04/14/22 12:59	1
m,p-Xylenes	<0.00100	U *+	0.00398	0.00100	mg/Kg	-	04/13/22 13:36	04/14/22 12:59	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg	-	04/13/22 13:36	04/14/22 12:59	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg	-	04/13/22 13:36	04/14/22 12:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			-	04/13/22 13:36	04/14/22 12:59	1
1,4-Difluorobenzene (Surr)	86		70 - 130			-	04/13/22 13:36	04/14/22 12:59	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg	-		04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	52.0		49.9	15.0	mg/Kg	-		04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	31.6	J	49.9	15.0	mg/Kg	-	04/11/22 16:48	04/12/22 19:52	1
Diesel Range Organics (Over C10-C28)	20.4	J B	49.9	15.0	mg/Kg	-	04/11/22 16:48	04/12/22 19:52	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg	-	04/11/22 16:48	04/12/22 19:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130			-	04/11/22 16:48	04/12/22 19:52	1
o-Terphenyl	91		70 - 130			-	04/11/22 16:48	04/12/22 19:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.3		4.98	0.855	mg/Kg	-		04/16/22 08:06	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-61

Lab Sample ID: 890-2178-61

Date Collected: 04/09/22 10:22

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U *+ *1	0.00200	0.000384	mg/Kg	-	04/13/22 13:36	04/14/22 13:26	1
Toluene	<0.000455	U *+ *1	0.00200	0.000455	mg/Kg	-	04/13/22 13:36	04/14/22 13:26	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg	-	04/13/22 13:36	04/14/22 13:26	1
m,p-Xylenes	<0.00101	U *+	0.00399	0.00101	mg/Kg	-	04/13/22 13:36	04/14/22 13:26	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg	-	04/13/22 13:36	04/14/22 13:26	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg	-	04/13/22 13:36	04/14/22 13:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	04/13/22 13:36	04/14/22 13:26	1
1,4-Difluorobenzene (Surr)	88		70 - 130	04/13/22 13:36	04/14/22 13:26	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg	-		04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	18.9	J	49.9	15.0	mg/Kg	-		04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg	-	04/11/22 16:52	04/12/22 11:33	1
Diesel Range Organics (Over C10-C28)	18.9	J B *1	49.9	15.0	mg/Kg	-	04/11/22 16:52	04/12/22 11:33	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg	-	04/11/22 16:52	04/12/22 11:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	04/11/22 16:52	04/12/22 11:33	1
o-Terphenyl	100		70 - 130	04/11/22 16:52	04/12/22 11:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.8		4.99	0.857	mg/Kg	-		04/16/22 08:12	1

Client Sample ID: E2-62

Lab Sample ID: 890-2178-62

Date Collected: 04/09/22 10:27

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U *+ *1	0.00199	0.000383	mg/Kg	-	04/13/22 13:36	04/14/22 13:53	1
Toluene	<0.000453	U *+ *1	0.00199	0.000453	mg/Kg	-	04/13/22 13:36	04/14/22 13:53	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg	-	04/13/22 13:36	04/14/22 13:53	1
m,p-Xylenes	<0.00100	U *+	0.00398	0.00100	mg/Kg	-	04/13/22 13:36	04/14/22 13:53	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg	-	04/13/22 13:36	04/14/22 13:53	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg	-	04/13/22 13:36	04/14/22 13:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	04/13/22 13:36	04/14/22 13:53	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-62

Lab Sample ID: 890-2178-62

Date Collected: 04/09/22 10:27

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	87		70 - 130	04/13/22 13:36	04/14/22 13:53	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg			04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	17.5	J	50.0	15.0	mg/Kg			04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		04/11/22 16:52	04/12/22 12:36	1
Diesel Range Organics (Over C10-C28)	17.5	J B *1	50.0	15.0	mg/Kg		04/11/22 16:52	04/12/22 12:36	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/11/22 16:52	04/12/22 12:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				04/11/22 16:52	04/12/22 12:36	1
o-Terphenyl	103		70 - 130				04/11/22 16:52	04/12/22 12:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31.3		5.00	0.858	mg/Kg			04/16/22 08:18	1

Client Sample ID: E2-63

Lab Sample ID: 890-2178-63

Date Collected: 04/09/22 10:28

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U *+ *1	0.00200	0.000384	mg/Kg		04/13/22 13:36	04/14/22 14:20	1
Toluene	<0.000455	U *+ *1	0.00200	0.000455	mg/Kg		04/13/22 13:36	04/14/22 14:20	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		04/13/22 13:36	04/14/22 14:20	1
m,p-Xylenes	<0.00101	U *+	0.00399	0.00101	mg/Kg		04/13/22 13:36	04/14/22 14:20	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		04/13/22 13:36	04/14/22 14:20	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		04/13/22 13:36	04/14/22 14:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	04/13/22 13:36	04/14/22 14:20	1
1,4-Difluorobenzene (Surr)	85		70 - 130	04/13/22 13:36	04/14/22 14:20	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg			04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	18.0	J	50.0	15.0	mg/Kg			04/12/22 10:58	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-63

Lab Sample ID: 890-2178-63

Date Collected: 04/09/22 10:28

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:52	04/12/22 12:57	1
Diesel Range Organics (Over C10-C28)	18.0	J B *1	50.0	15.0	mg/Kg	-	04/11/22 16:52	04/12/22 12:57	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:52	04/12/22 12:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				04/11/22 16:52	04/12/22 12:57	1
o-Terphenyl	97		70 - 130				04/11/22 16:52	04/12/22 12:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.9		4.99	0.857	mg/Kg	-		04/16/22 08:25	1

Client Sample ID: E2-64

Lab Sample ID: 890-2178-64

Date Collected: 04/09/22 10:30

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U *+ *1	0.00201	0.000387	mg/Kg	-	04/13/22 13:36	04/14/22 14:47	1
Toluene	<0.000458	U *+ *1	0.00201	0.000458	mg/Kg	-	04/13/22 13:36	04/14/22 14:47	1
Ethylbenzene	<0.000567	U	0.00201	0.000567	mg/Kg	-	04/13/22 13:36	04/14/22 14:47	1
m,p-Xylenes	<0.00101	U *+	0.00402	0.00101	mg/Kg	-	04/13/22 13:36	04/14/22 14:47	1
o-Xylene	<0.000345	U	0.00201	0.000345	mg/Kg	-	04/13/22 13:36	04/14/22 14:47	1
Xylenes, Total	<0.00101	U	0.00402	0.00101	mg/Kg	-	04/13/22 13:36	04/14/22 14:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130				04/13/22 13:36	04/14/22 14:47	1
1,4-Difluorobenzene (Surr)	84		70 - 130				04/13/22 13:36	04/14/22 14:47	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg	-		04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	18.3	J	50.0	15.0	mg/Kg	-		04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:52	04/12/22 13:18	1
Diesel Range Organics (Over C10-C28)	18.3	J B *1	50.0	15.0	mg/Kg	-	04/11/22 16:52	04/12/22 13:18	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:52	04/12/22 13:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				04/11/22 16:52	04/12/22 13:18	1
o-Terphenyl	103		70 - 130				04/11/22 16:52	04/12/22 13:18	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-64

Date Collected: 04/09/22 10:30

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Lab Sample ID: 890-2178-64

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.4		5.04	0.865	mg/Kg			04/16/22 08:44	1

Client Sample ID: E2-65

Date Collected: 04/09/22 10:32

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Lab Sample ID: 890-2178-65

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U *+ *1	0.00201	0.000387	mg/Kg		04/13/22 13:36	04/14/22 15:14	1
Toluene	<0.000459	U *+ *1	0.00201	0.000459	mg/Kg		04/13/22 13:36	04/14/22 15:14	1
Ethylbenzene	<0.000568	U	0.00201	0.000568	mg/Kg		04/13/22 13:36	04/14/22 15:14	1
m,p-Xylenes	<0.00102	U *+	0.00402	0.00102	mg/Kg		04/13/22 13:36	04/14/22 15:14	1
o-Xylene	<0.000346	U	0.00201	0.000346	mg/Kg		04/13/22 13:36	04/14/22 15:14	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg		04/13/22 13:36	04/14/22 15:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130				04/13/22 13:36	04/14/22 15:14	1
1,4-Difluorobenzene (Surr)	84		70 - 130				04/13/22 13:36	04/14/22 15:14	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg			04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	18.1	J	49.9	15.0	mg/Kg			04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg		04/11/22 16:52	04/12/22 13:39	1
Diesel Range Organics (Over C10-C28)	18.1	J B *1	49.9	15.0	mg/Kg		04/11/22 16:52	04/12/22 13:39	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		04/11/22 16:52	04/12/22 13:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				04/11/22 16:52	04/12/22 13:39	1
o-Terphenyl	102		70 - 130				04/11/22 16:52	04/12/22 13:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43.5		4.99	0.857	mg/Kg			04/16/22 08:50	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-66

Lab Sample ID: 890-2178-66

Date Collected: 04/09/22 10:35

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U *+ *1	0.00200	0.000386	mg/Kg	-	04/13/22 13:36	04/14/22 16:33	1
Toluene	<0.000457	U *+ *1	0.00200	0.000457	mg/Kg	-	04/13/22 13:36	04/14/22 16:33	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg	-	04/13/22 13:36	04/14/22 16:33	1
m,p-Xylenes	<0.00101	U *+	0.00401	0.00101	mg/Kg	-	04/13/22 13:36	04/14/22 16:33	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg	-	04/13/22 13:36	04/14/22 16:33	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg	-	04/13/22 13:36	04/14/22 16:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	04/13/22 13:36	04/14/22 16:33	1
1,4-Difluorobenzene (Surr)	86		70 - 130	04/13/22 13:36	04/14/22 16:33	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg	-		04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	18.5	J	49.9	15.0	mg/Kg	-		04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg	-	04/11/22 16:52	04/12/22 14:00	1
Diesel Range Organics (Over C10-C28)	18.5	J B *1	49.9	15.0	mg/Kg	-	04/11/22 16:52	04/12/22 14:00	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg	-	04/11/22 16:52	04/12/22 14:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	04/11/22 16:52	04/12/22 14:00	1
o-Terphenyl	113		70 - 130	04/11/22 16:52	04/12/22 14:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.7		4.95	0.850	mg/Kg	-		04/16/22 08:56	1

Client Sample ID: E2-67

Lab Sample ID: 890-2178-67

Date Collected: 04/09/22 10:37

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U *+ *1	0.00200	0.000384	mg/Kg	-	04/13/22 13:36	04/14/22 15:40	1
Toluene	<0.000455	U *+ *1	0.00200	0.000455	mg/Kg	-	04/13/22 13:36	04/14/22 15:40	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg	-	04/13/22 13:36	04/14/22 15:40	1
m,p-Xylenes	<0.00101	U *+	0.00399	0.00101	mg/Kg	-	04/13/22 13:36	04/14/22 15:40	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg	-	04/13/22 13:36	04/14/22 15:40	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg	-	04/13/22 13:36	04/14/22 15:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	04/13/22 13:36	04/14/22 15:40	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-67

Lab Sample ID: 890-2178-67

Date Collected: 04/09/22 10:37

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	91		70 - 130	04/13/22 13:36	04/14/22 15:40	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg	-		04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	18.9	J	50.0	15.0	mg/Kg	-		04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:52	04/12/22 14:21	1
Diesel Range Organics (Over C10-C28)	18.9	J B *1	50.0	15.0	mg/Kg	-	04/11/22 16:52	04/12/22 14:21	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:52	04/12/22 14:21	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1-Chlorooctane	97		70 - 130	04/11/22 16:52	04/12/22 14:21	1			
o-Terphenyl	114		70 - 130	04/11/22 16:52	04/12/22 14:21	1			

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.3		4.95	0.850	mg/Kg	-		04/16/22 09:03	1

Client Sample ID: E2-68

Lab Sample ID: 890-2178-68

Date Collected: 04/09/22 10:38

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U *+ *1	0.00199	0.000383	mg/Kg	-	04/13/22 13:36	04/14/22 16:07	1
Toluene	<0.000453	U *+ *1	0.00199	0.000453	mg/Kg	-	04/13/22 13:36	04/14/22 16:07	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg	-	04/13/22 13:36	04/14/22 16:07	1
m,p-Xylenes	<0.00100	U *+	0.00398	0.00100	mg/Kg	-	04/13/22 13:36	04/14/22 16:07	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg	-	04/13/22 13:36	04/14/22 16:07	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg	-	04/13/22 13:36	04/14/22 16:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	04/13/22 13:36	04/14/22 16:07	1
1,4-Difluorobenzene (Surr)	85		70 - 130	04/13/22 13:36	04/14/22 16:07	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg	-		04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	18.6	J	50.0	15.0	mg/Kg	-		04/12/22 10:58	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-68

Date Collected: 04/09/22 10:38

Date Received: 04/11/22 08:00

Sample Depth: 3 - 4

Lab Sample ID: 890-2178-68

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:52	04/12/22 14:42	1
Diesel Range Organics (Over C10-C28)	18.6	J B *1	50.0	15.0	mg/Kg	-	04/11/22 16:52	04/12/22 14:42	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:52	04/12/22 14:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				04/11/22 16:52	04/12/22 14:42	1
o-Terphenyl	98		70 - 130				04/11/22 16:52	04/12/22 14:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.7		4.97	0.853	mg/Kg	-		04/16/22 09:09	1

Client Sample ID: E2-W1

Date Collected: 04/09/22 11:43

Date Received: 04/11/22 08:00

Sample Depth: 0 - 4

Lab Sample ID: 890-2178-69

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00201	0.000387	mg/Kg	-	04/13/22 13:39	04/15/22 03:39	1
Toluene	<0.000459	U	0.00201	0.000459	mg/Kg	-	04/13/22 13:39	04/15/22 03:39	1
Ethylbenzene	<0.000568	U	0.00201	0.000568	mg/Kg	-	04/13/22 13:39	04/15/22 03:39	1
m,p-Xylenes	<0.00102	U	0.00402	0.00102	mg/Kg	-	04/13/22 13:39	04/15/22 03:39	1
o-Xylene	<0.000346	U	0.00201	0.000346	mg/Kg	-	04/13/22 13:39	04/15/22 03:39	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg	-	04/13/22 13:39	04/15/22 03:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				04/13/22 13:39	04/15/22 03:39	1
1,4-Difluorobenzene (Surr)	103		70 - 130				04/13/22 13:39	04/15/22 03:39	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg	-		04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	17.8	J	50.0	15.0	mg/Kg	-		04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:52	04/12/22 15:03	1
Diesel Range Organics (Over C10-C28)	17.8	J B *1	50.0	15.0	mg/Kg	-	04/11/22 16:52	04/12/22 15:03	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:52	04/12/22 15:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				04/11/22 16:52	04/12/22 15:03	1
o-Terphenyl	100		70 - 130				04/11/22 16:52	04/12/22 15:03	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-W1

Date Collected: 04/09/22 11:43

Date Received: 04/11/22 08:00

Sample Depth: 0 - 4

Lab Sample ID: 890-2178-69

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.8		4.99	0.857	mg/Kg			04/16/22 09:15	1

Client Sample ID: E2-W2

Date Collected: 04/09/22 11:47

Date Received: 04/11/22 08:00

Sample Depth: 0 - 4

Lab Sample ID: 890-2178-70

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg		04/13/22 13:39	04/15/22 04:00	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		04/13/22 13:39	04/15/22 04:00	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		04/13/22 13:39	04/15/22 04:00	1
m,p-Xylenes	<0.00101	U	0.00399	0.00101	mg/Kg		04/13/22 13:39	04/15/22 04:00	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		04/13/22 13:39	04/15/22 04:00	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		04/13/22 13:39	04/15/22 04:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				04/13/22 13:39	04/15/22 04:00	1
1,4-Difluorobenzene (Surr)	103		70 - 130				04/13/22 13:39	04/15/22 04:00	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg			04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	18.2	J	49.9	15.0	mg/Kg			04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg		04/11/22 16:52	04/12/22 15:24	1
Diesel Range Organics (Over C10-C28)	18.2	J B *1	49.9	15.0	mg/Kg		04/11/22 16:52	04/12/22 15:24	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		04/11/22 16:52	04/12/22 15:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				04/11/22 16:52	04/12/22 15:24	1
o-Terphenyl	99		70 - 130				04/11/22 16:52	04/12/22 15:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.7		5.00	0.858	mg/Kg			04/16/22 09:34	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-W3

Lab Sample ID: 890-2178-71

Date Collected: 04/09/22 11:50

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg	-	04/13/22 13:39	04/15/22 04:20	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg	-	04/13/22 13:39	04/15/22 04:20	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg	-	04/13/22 13:39	04/15/22 04:20	1
m,p-Xylenes	<0.00101	U	0.00398	0.00101	mg/Kg	-	04/13/22 13:39	04/15/22 04:20	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg	-	04/13/22 13:39	04/15/22 04:20	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg	-	04/13/22 13:39	04/15/22 04:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	04/13/22 13:39	04/15/22 04:20	1
1,4-Difluorobenzene (Surr)	103		70 - 130	04/13/22 13:39	04/15/22 04:20	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg	-		04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	18.2	J	49.9	15.0	mg/Kg	-		04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg	-	04/11/22 16:52	04/12/22 16:07	1
Diesel Range Organics (Over C10-C28)	18.2	J B *1	49.9	15.0	mg/Kg	-	04/11/22 16:52	04/12/22 16:07	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg	-	04/11/22 16:52	04/12/22 16:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130	04/11/22 16:52	04/12/22 16:07	1
o-Terphenyl	93		70 - 130	04/11/22 16:52	04/12/22 16:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	208		4.95	0.850	mg/Kg	-		04/16/22 09:41	1

Client Sample ID: E2-W4

Lab Sample ID: 890-2178-72

Date Collected: 04/09/22 11:53

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg	-	04/13/22 13:39	04/15/22 04:40	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg	-	04/13/22 13:39	04/15/22 04:40	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg	-	04/13/22 13:39	04/15/22 04:40	1
m,p-Xylenes	<0.00100	U	0.00398	0.00100	mg/Kg	-	04/13/22 13:39	04/15/22 04:40	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg	-	04/13/22 13:39	04/15/22 04:40	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg	-	04/13/22 13:39	04/15/22 04:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	04/13/22 13:39	04/15/22 04:40	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-W4

Lab Sample ID: 890-2178-72

Date Collected: 04/09/22 11:53

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	101		70 - 130	04/13/22 13:39	04/15/22 04:40	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg			04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	18.9	J	50.0	15.0	mg/Kg			04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		04/11/22 16:52	04/12/22 16:28	1
Diesel Range Organics (Over C10-C28)	18.9	J B *1	50.0	15.0	mg/Kg		04/11/22 16:52	04/12/22 16:28	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/11/22 16:52	04/12/22 16:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				04/11/22 16:52	04/12/22 16:28	1
o-Terphenyl	90		70 - 130				04/11/22 16:52	04/12/22 16:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	220		5.00	0.858	mg/Kg			04/16/22 10:00	1

Client Sample ID: E2-W5

Lab Sample ID: 890-2178-73

Date Collected: 04/09/22 11:57

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg		04/13/22 13:39	04/15/22 05:01	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		04/13/22 13:39	04/15/22 05:01	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		04/13/22 13:39	04/15/22 05:01	1
m,p-Xylenes	<0.00101	U	0.00399	0.00101	mg/Kg		04/13/22 13:39	04/15/22 05:01	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		04/13/22 13:39	04/15/22 05:01	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		04/13/22 13:39	04/15/22 05:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	04/13/22 13:39	04/15/22 05:01	1
1,4-Difluorobenzene (Surr)	104		70 - 130	04/13/22 13:39	04/15/22 05:01	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg			04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	18.8	J	50.0	15.0	mg/Kg			04/12/22 10:58	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-W5

Date Collected: 04/09/22 11:57

Date Received: 04/11/22 08:00

Sample Depth: 0 - 4

Lab Sample ID: 890-2178-73

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:52	04/12/22 16:50	1
Diesel Range Organics (Over C10-C28)	18.8	J B *1	50.0	15.0	mg/Kg	-	04/11/22 16:52	04/12/22 16:50	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:52	04/12/22 16:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				04/11/22 16:52	04/12/22 16:50	1
o-Terphenyl	95		70 - 130				04/11/22 16:52	04/12/22 16:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.7		5.05	0.867	mg/Kg	-		04/16/22 10:06	1

Client Sample ID: E2-W6

Date Collected: 04/09/22 12:00

Date Received: 04/11/22 08:00

Sample Depth: 0 - 4

Lab Sample ID: 890-2178-74

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg	-	04/13/22 13:39	04/15/22 05:21	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg	-	04/13/22 13:39	04/15/22 05:21	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg	-	04/13/22 13:39	04/15/22 05:21	1
m,p-Xylenes	<0.00101	U	0.00398	0.00101	mg/Kg	-	04/13/22 13:39	04/15/22 05:21	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg	-	04/13/22 13:39	04/15/22 05:21	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg	-	04/13/22 13:39	04/15/22 05:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				04/13/22 13:39	04/15/22 05:21	1
1,4-Difluorobenzene (Surr)	103		70 - 130				04/13/22 13:39	04/15/22 05:21	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg	-		04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	19.9	J	50.0	15.0	mg/Kg	-		04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:52	04/12/22 17:11	1
Diesel Range Organics (Over C10-C28)	19.9	J B *1	50.0	15.0	mg/Kg	-	04/11/22 16:52	04/12/22 17:11	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:52	04/12/22 17:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				04/11/22 16:52	04/12/22 17:11	1
o-Terphenyl	85		70 - 130				04/11/22 16:52	04/12/22 17:11	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-W6

Date Collected: 04/09/22 12:00

Date Received: 04/11/22 08:00

Sample Depth: 0 - 4

Lab Sample ID: 890-2178-74

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	127		4.99	0.857	mg/Kg			04/16/22 10:12	1

Client Sample ID: E2-W7

Date Collected: 04/09/22 12:04

Date Received: 04/11/22 08:00

Sample Depth: 0 - 4

Lab Sample ID: 890-2178-75

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		04/13/22 13:39	04/15/22 05:42	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		04/13/22 13:39	04/15/22 05:42	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		04/13/22 13:39	04/15/22 05:42	1
m,p-Xylenes	<0.00100	U	0.00398	0.00100	mg/Kg		04/13/22 13:39	04/15/22 05:42	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		04/13/22 13:39	04/15/22 05:42	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		04/13/22 13:39	04/15/22 05:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				04/13/22 13:39	04/15/22 05:42	1
1,4-Difluorobenzene (Surr)	102		70 - 130				04/13/22 13:39	04/15/22 05:42	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg			04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	18.9	J	50.0	15.0	mg/Kg			04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		04/11/22 16:52	04/12/22 17:32	1
Diesel Range Organics (Over C10-C28)	18.9	J B *1	50.0	15.0	mg/Kg		04/11/22 16:52	04/12/22 17:32	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/11/22 16:52	04/12/22 17:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				04/11/22 16:52	04/12/22 17:32	1
o-Terphenyl	96		70 - 130				04/11/22 16:52	04/12/22 17:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	68.0		4.98	0.855	mg/Kg			04/16/22 10:19	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-W8

Lab Sample ID: 890-2178-76

Date Collected: 04/09/22 12:07

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg	-	04/13/22 13:39	04/15/22 06:02	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg	-	04/13/22 13:39	04/15/22 06:02	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg	-	04/13/22 13:39	04/15/22 06:02	1
m,p-Xylenes	<0.00101	U	0.00399	0.00101	mg/Kg	-	04/13/22 13:39	04/15/22 06:02	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg	-	04/13/22 13:39	04/15/22 06:02	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg	-	04/13/22 13:39	04/15/22 06:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	04/13/22 13:39	04/15/22 06:02	1
1,4-Difluorobenzene (Surr)	104		70 - 130	04/13/22 13:39	04/15/22 06:02	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg	-		04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	18.3	J	49.9	15.0	mg/Kg	-		04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg	-	04/11/22 16:52	04/12/22 17:54	1
Diesel Range Organics (Over C10-C28)	18.3	J B *1	49.9	15.0	mg/Kg	-	04/11/22 16:52	04/12/22 17:54	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg	-	04/11/22 16:52	04/12/22 17:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130	04/11/22 16:52	04/12/22 17:54	1
o-Terphenyl	97		70 - 130	04/11/22 16:52	04/12/22 17:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	52.5		4.99	0.857	mg/Kg	-		04/16/22 10:25	1

Client Sample ID: E2-W9

Lab Sample ID: 890-2178-77

Date Collected: 04/09/22 12:10

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000618	J	0.00199	0.000383	mg/Kg	-	04/13/22 13:39	04/15/22 06:22	1
Toluene	0.00173	J	0.00199	0.000454	mg/Kg	-	04/13/22 13:39	04/15/22 06:22	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg	-	04/13/22 13:39	04/15/22 06:22	1
m,p-Xylenes	<0.00101	U	0.00398	0.00101	mg/Kg	-	04/13/22 13:39	04/15/22 06:22	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg	-	04/13/22 13:39	04/15/22 06:22	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg	-	04/13/22 13:39	04/15/22 06:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	04/13/22 13:39	04/15/22 06:22	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-W9

Lab Sample ID: 890-2178-77

Date Collected: 04/09/22 12:10

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	102		70 - 130	04/13/22 13:39	04/15/22 06:22	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00235	J	0.00400	0.00101	mg/Kg			04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	18.9	J	49.9	15.0	mg/Kg			04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg		04/11/22 16:52	04/12/22 18:15	1
Diesel Range Organics (Over C10-C28)	18.9	J B *1	49.9	15.0	mg/Kg		04/11/22 16:52	04/12/22 18:15	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		04/11/22 16:52	04/12/22 18:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				04/11/22 16:52	04/12/22 18:15	1
o-Terphenyl	90		70 - 130				04/11/22 16:52	04/12/22 18:15	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	257		4.95	0.850	mg/Kg			04/16/22 10:31	1

Client Sample ID: E2-W10

Lab Sample ID: 890-2178-78

Date Collected: 04/09/22 12:15

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00200	0.000386	mg/Kg		04/13/22 13:39	04/15/22 06:43	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg		04/13/22 13:39	04/15/22 06:43	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		04/13/22 13:39	04/15/22 06:43	1
m,p-Xylenes	<0.00101	U	0.00401	0.00101	mg/Kg		04/13/22 13:39	04/15/22 06:43	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg		04/13/22 13:39	04/15/22 06:43	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		04/13/22 13:39	04/15/22 06:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	04/13/22 13:39	04/15/22 06:43	1
1,4-Difluorobenzene (Surr)	104		70 - 130	04/13/22 13:39	04/15/22 06:43	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg			04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	18.1	J	50.0	15.0	mg/Kg			04/12/22 10:58	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-W10

Date Collected: 04/09/22 12:15

Date Received: 04/11/22 08:00

Sample Depth: 0 - 4

Lab Sample ID: 890-2178-78

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:52	04/12/22 18:35	1
Diesel Range Organics (Over C10-C28)	18.1	J B *1	50.0	15.0	mg/Kg	-	04/11/22 16:52	04/12/22 18:35	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 16:52	04/12/22 18:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				04/11/22 16:52	04/12/22 18:35	1
o-Terphenyl	107		70 - 130				04/11/22 16:52	04/12/22 18:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	77.4		4.95	0.850	mg/Kg	-		04/16/22 10:38	1

Client Sample ID: E2-W11

Date Collected: 04/09/22 12:19

Date Received: 04/11/22 08:00

Sample Depth: 0 - 4

Lab Sample ID: 890-2178-79

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg	-	04/19/22 10:22	04/19/22 17:47	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg	-	04/19/22 10:22	04/19/22 17:47	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg	-	04/19/22 10:22	04/19/22 17:47	1
m,p-Xylenes	<0.00100	U	0.00398	0.00100	mg/Kg	-	04/19/22 10:22	04/19/22 17:47	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg	-	04/19/22 10:22	04/19/22 17:47	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg	-	04/19/22 10:22	04/19/22 17:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				04/19/22 10:22	04/19/22 17:47	1
1,4-Difluorobenzene (Surr)	107		70 - 130				04/19/22 10:22	04/19/22 17:47	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg	-		04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	18.6	J	49.9	15.0	mg/Kg	-		04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg	-	04/11/22 16:52	04/12/22 18:56	1
Diesel Range Organics (Over C10-C28)	18.6	J B *1	49.9	15.0	mg/Kg	-	04/11/22 16:52	04/12/22 18:56	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg	-	04/11/22 16:52	04/12/22 18:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				04/11/22 16:52	04/12/22 18:56	1
o-Terphenyl	96		70 - 130				04/11/22 16:52	04/12/22 18:56	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-W11

Lab Sample ID: 890-2178-79

Date Collected: 04/09/22 12:19

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 0 - 4

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	93.4		5.00	0.858	mg/Kg			04/15/22 21:48	1

Client Sample ID: E2-W12

Lab Sample ID: 890-2178-80

Date Collected: 04/09/22 12:24

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg		04/19/22 10:22	04/19/22 18:08	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		04/19/22 10:22	04/19/22 18:08	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		04/19/22 10:22	04/19/22 18:08	1
m,p-Xylenes	<0.00101	U	0.00399	0.00101	mg/Kg		04/19/22 10:22	04/19/22 18:08	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		04/19/22 10:22	04/19/22 18:08	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		04/19/22 10:22	04/19/22 18:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				04/19/22 10:22	04/19/22 18:08	1
1,4-Difluorobenzene (Surr)	102		70 - 130				04/19/22 10:22	04/19/22 18:08	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg			04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	18.3	J	49.8	14.9	mg/Kg			04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.9	U	49.8	14.9	mg/Kg		04/11/22 16:52	04/12/22 19:17	1
Diesel Range Organics (Over C10-C28)	18.3	J B *1	49.8	14.9	mg/Kg		04/11/22 16:52	04/12/22 19:17	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.8	14.9	mg/Kg		04/11/22 16:52	04/12/22 19:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				04/11/22 16:52	04/12/22 19:17	1
o-Terphenyl	88		70 - 130				04/11/22 16:52	04/12/22 19:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46.5		5.01	0.860	mg/Kg			04/15/22 22:16	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-W13

Lab Sample ID: 890-2178-81

Date Collected: 04/09/22 12:27

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg	-	04/19/22 10:22	04/19/22 18:28	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg	-	04/19/22 10:22	04/19/22 18:28	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg	-	04/19/22 10:22	04/19/22 18:28	1
m,p-Xylenes	<0.00101	U	0.00398	0.00101	mg/Kg	-	04/19/22 10:22	04/19/22 18:28	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg	-	04/19/22 10:22	04/19/22 18:28	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg	-	04/19/22 10:22	04/19/22 18:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	04/19/22 10:22	04/19/22 18:28	1
1,4-Difluorobenzene (Surr)	105		70 - 130	04/19/22 10:22	04/19/22 18:28	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg	-		04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.0	mg/Kg	-		04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 15:10	04/12/22 02:40	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 15:10	04/12/22 02:40	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 15:10	04/12/22 02:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	04/11/22 15:10	04/12/22 02:40	1
o-Terphenyl	109		70 - 130	04/11/22 15:10	04/12/22 02:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	55.5		4.99	0.857	mg/Kg	-		04/15/22 22:25	1

Client Sample ID: E2-W14

Lab Sample ID: 890-2178-82

Date Collected: 04/09/22 12:31

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg	-	04/19/22 10:22	04/19/22 18:49	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg	-	04/19/22 10:22	04/19/22 18:49	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg	-	04/19/22 10:22	04/19/22 18:49	1
m,p-Xylenes	<0.00101	U	0.00400	0.00101	mg/Kg	-	04/19/22 10:22	04/19/22 18:49	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg	-	04/19/22 10:22	04/19/22 18:49	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg	-	04/19/22 10:22	04/19/22 18:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	04/19/22 10:22	04/19/22 18:49	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-W14

Lab Sample ID: 890-2178-82

Date Collected: 04/09/22 12:31

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	109		70 - 130	04/19/22 10:22	04/19/22 18:49	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg			04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.9	15.0	mg/Kg			04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg		04/11/22 15:10	04/12/22 03:00	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		04/11/22 15:10	04/12/22 03:00	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		04/11/22 15:10	04/12/22 03:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				04/11/22 15:10	04/12/22 03:00	1
o-Terphenyl	112		70 - 130				04/11/22 15:10	04/12/22 03:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70.9		4.97	0.853	mg/Kg			04/15/22 22:34	1

Client Sample ID: E2-W15

Lab Sample ID: 890-2178-83

Date Collected: 04/09/22 12:35

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00200	0.000386	mg/Kg		04/19/22 10:22	04/19/22 19:09	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg		04/19/22 10:22	04/19/22 19:09	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		04/19/22 10:22	04/19/22 19:09	1
m,p-Xylenes	<0.00101	U	0.00401	0.00101	mg/Kg		04/19/22 10:22	04/19/22 19:09	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg		04/19/22 10:22	04/19/22 19:09	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		04/19/22 10:22	04/19/22 19:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	04/19/22 10:22	04/19/22 19:09	1
1,4-Difluorobenzene (Surr)	109		70 - 130	04/19/22 10:22	04/19/22 19:09	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg			04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.0	mg/Kg			04/12/22 10:58	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E2-W15

Date Collected: 04/09/22 12:35

Date Received: 04/11/22 08:00

Sample Depth: 0 - 4

Lab Sample ID: 890-2178-83

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 15:10	04/12/22 03:21	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 15:10	04/12/22 03:21	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 15:10	04/12/22 03:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				04/11/22 15:10	04/12/22 03:21	1
o-Terphenyl	106		70 - 130				04/11/22 15:10	04/12/22 03:21	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	116		4.95	0.850	mg/Kg	-		04/15/22 22:43	1

Client Sample ID: EM-1

Date Collected: 04/09/22 15:10

Date Received: 04/11/22 08:00

Sample Depth: 5

Lab Sample ID: 890-2178-84

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00201	0.000387	mg/Kg	-	04/19/22 10:22	04/19/22 19:29	1
Toluene	<0.000458	U	0.00201	0.000458	mg/Kg	-	04/19/22 10:22	04/19/22 19:29	1
Ethylbenzene	<0.000567	U	0.00201	0.000567	mg/Kg	-	04/19/22 10:22	04/19/22 19:29	1
m,p-Xylenes	<0.00101	U	0.00402	0.00101	mg/Kg	-	04/19/22 10:22	04/19/22 19:29	1
o-Xylene	<0.000345	U	0.00201	0.000345	mg/Kg	-	04/19/22 10:22	04/19/22 19:29	1
Xylenes, Total	<0.00101	U	0.00402	0.00101	mg/Kg	-	04/19/22 10:22	04/19/22 19:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				04/19/22 10:22	04/19/22 19:29	1
1,4-Difluorobenzene (Surr)	108		70 - 130				04/19/22 10:22	04/19/22 19:29	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg	-		04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.9	15.0	mg/Kg	-		04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg	-	04/11/22 15:10	04/12/22 03:41	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg	-	04/11/22 15:10	04/12/22 03:41	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg	-	04/11/22 15:10	04/12/22 03:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				04/11/22 15:10	04/12/22 03:41	1
o-Terphenyl	129		70 - 130				04/11/22 15:10	04/12/22 03:41	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: EM-1

Date Collected: 04/09/22 15:10

Date Received: 04/11/22 08:00

Sample Depth: 5

Lab Sample ID: 890-2178-84

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.4		4.98	0.855	mg/Kg			04/15/22 23:11	1

Client Sample ID: EM-2

Date Collected: 04/09/22 15:12

Date Received: 04/11/22 08:00

Sample Depth: 5

Lab Sample ID: 890-2178-85

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00201	0.000387	mg/Kg		04/19/22 10:22	04/19/22 19:50	1
Toluene	<0.000458	U	0.00201	0.000458	mg/Kg		04/19/22 10:22	04/19/22 19:50	1
Ethylbenzene	<0.000567	U	0.00201	0.000567	mg/Kg		04/19/22 10:22	04/19/22 19:50	1
m,p-Xylenes	<0.00101	U	0.00402	0.00101	mg/Kg		04/19/22 10:22	04/19/22 19:50	1
o-Xylene	<0.000345	U	0.00201	0.000345	mg/Kg		04/19/22 10:22	04/19/22 19:50	1
Xylenes, Total	<0.00101	U	0.00402	0.00101	mg/Kg		04/19/22 10:22	04/19/22 19:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				04/19/22 10:22	04/19/22 19:50	1
1,4-Difluorobenzene (Surr)	109		70 - 130				04/19/22 10:22	04/19/22 19:50	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg			04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.0	mg/Kg			04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		04/11/22 15:10	04/12/22 04:01	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		04/11/22 15:10	04/12/22 04:01	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/11/22 15:10	04/12/22 04:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				04/11/22 15:10	04/12/22 04:01	1
o-Terphenyl	121		70 - 130				04/11/22 15:10	04/12/22 04:01	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	137		4.96	0.851	mg/Kg			04/15/22 23:20	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: EM-3

Lab Sample ID: 890-2178-86

Date Collected: 04/09/22 15:14

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg	-	04/19/22 10:22	04/19/22 20:10	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg	-	04/19/22 10:22	04/19/22 20:10	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg	-	04/19/22 10:22	04/19/22 20:10	1
m,p-Xylenes	<0.00101	U	0.00399	0.00101	mg/Kg	-	04/19/22 10:22	04/19/22 20:10	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg	-	04/19/22 10:22	04/19/22 20:10	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg	-	04/19/22 10:22	04/19/22 20:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	04/19/22 10:22	04/19/22 20:10	1
1,4-Difluorobenzene (Surr)	108		70 - 130	04/19/22 10:22	04/19/22 20:10	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg	-		04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.0	mg/Kg	-		04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 15:10	04/12/22 04:21	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 15:10	04/12/22 04:21	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 15:10	04/12/22 04:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	04/11/22 15:10	04/12/22 04:21	1
o-Terphenyl	133	S1+	70 - 130	04/11/22 15:10	04/12/22 04:21	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38.7		5.04	0.865	mg/Kg	-		04/15/22 23:29	1

Client Sample ID: EM-4

Lab Sample ID: 890-2178-87

Date Collected: 04/09/22 15:16

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg	-	04/19/22 10:22	04/19/22 20:37	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg	-	04/19/22 10:22	04/19/22 20:37	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg	-	04/19/22 10:22	04/19/22 20:37	1
m,p-Xylenes	<0.00101	U	0.00398	0.00101	mg/Kg	-	04/19/22 10:22	04/19/22 20:37	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg	-	04/19/22 10:22	04/19/22 20:37	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg	-	04/19/22 10:22	04/19/22 20:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	04/19/22 10:22	04/19/22 20:37	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: EM-4

Lab Sample ID: 890-2178-87

Date Collected: 04/09/22 15:16

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	103		70 - 130	04/19/22 10:22	04/19/22 20:37	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg			04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	20.9	J	49.9	15.0	mg/Kg			04/12/22 10:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg		04/11/22 15:16	04/12/22 03:00	1
Diesel Range Organics (Over C10-C28)	20.9	J	49.9	15.0	mg/Kg		04/11/22 15:16	04/12/22 03:00	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		04/11/22 15:16	04/12/22 03:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				04/11/22 15:16	04/12/22 03:00	1
o-Terphenyl	110		70 - 130				04/11/22 15:16	04/12/22 03:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	52.1		5.00	0.858	mg/Kg			04/15/22 23:38	1

Client Sample ID: EM-W1

Lab Sample ID: 890-2178-88

Date Collected: 04/09/22 15:18

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 0 - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		04/19/22 10:22	04/19/22 21:05	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		04/19/22 10:22	04/19/22 21:05	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		04/19/22 10:22	04/19/22 21:05	1
m,p-Xylenes	<0.00100	U	0.00398	0.00100	mg/Kg		04/19/22 10:22	04/19/22 21:05	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		04/19/22 10:22	04/19/22 21:05	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		04/19/22 10:22	04/19/22 21:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	04/19/22 10:22	04/19/22 21:05	1
1,4-Difluorobenzene (Surr)	107		70 - 130	04/19/22 10:22	04/19/22 21:05	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg			04/13/22 10:19	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	36.5	J	50.0	15.0	mg/Kg			04/12/22 10:58	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: EM-W1

Lab Sample ID: 890-2178-88

Date Collected: 04/09/22 15:18

Matrix: Solid

Date Received: 04/11/22 08:00

Sample Depth: 0 - 5

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	18.1	J	50.0	15.0	mg/Kg	-	04/11/22 15:16	04/12/22 03:21	1
Diesel Range Organics (Over C10-C28)	18.4	J	50.0	15.0	mg/Kg	-	04/11/22 15:16	04/12/22 03:21	1
OII Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg	-	04/11/22 15:16	04/12/22 03:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				04/11/22 15:16	04/12/22 03:21	1
o-Terphenyl	117		70 - 130				04/11/22 15:16	04/12/22 03:21	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	59.9		4.99	0.857	mg/Kg	-		04/15/22 23:48	1

Surrogate Summary

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
890-2178-1	E2-1	97	86
890-2178-1 MS	E2-1	111	94
890-2178-1 MSD	E2-1	92	87
890-2178-2	E2-2	100	98
890-2178-3	E2-3	104	88
890-2178-4	E2-4	100	88
890-2178-5	E2-5	101	88
890-2178-6	E2-6	97	75
890-2178-7	E2-7	102	88
890-2178-8	E2-8	109	90
890-2178-9	E2-9	97	85
890-2178-10	E2-10	102	88
890-2178-11	E2-11	113	87
890-2178-11 MS	E2-11	98	73
890-2178-11 MSD	E2-11	109	89
890-2178-12	E2-12	106	85
890-2178-13	E2-13	104	84
890-2178-14	E2-14	117	87
890-2178-15	E2-15	122	90
890-2178-16	E2-16	129	92
890-2178-17	E2-17	118	92
890-2178-18	E2-18	12 S1-	10 S1-
890-2178-19	E2-19	123	90
890-2178-20	E2-20	107	86
890-2178-21	E2-21	113	0.06 S1-
890-2178-22	E2-22	128	89
890-2178-23	E2-23	112	99
890-2178-24	E2-24	123	91
890-2178-25	E2-25	119	89
890-2178-26	E2-26	101	82
890-2178-27	E2-27	111	91
890-2178-28	E2-28	103	76
890-2178-29	E2-29	102	85
890-2178-30	E2-30	126	88
890-2178-31	E2-31	105	99
890-2178-32	E2-32	95	99
890-2178-33	E2-33	99	103
890-2178-34	E2-34	100	97
890-2178-35	E2-35	88	99
890-2178-36	E2-36	101	96
890-2178-37	E2-37	100	97
890-2178-38	E2-38	100	100
890-2178-39	E2-39	111	97
890-2178-40	E2-40	106	98
890-2178-41	E2-41	104	98
890-2178-42	E2-42	102	97
890-2178-43	E2-43	102	98
890-2178-44	E2-44	96	101
890-2178-45	E2-45	92	94

Eurofins Carlsbad

Surrogate Summary

Client: Ranger Environmental Services, Inc
 Project/Site: Cobalt Riser

Job ID: 890-2178-1
 SDG: 5198

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-2178-46	E2-46	103	97
890-2178-47	E2-47	105	105
890-2178-48	E2-48	91	101
890-2178-49	E2-49	116	87
890-2178-49 MS	E2-49	125	85
890-2178-49 MSD	E2-49	126	88
890-2178-50	E2-50	121	87
890-2178-51	E2-51	129	86
890-2178-52	E2-52	122	85
890-2178-53	E2-53	128	86
890-2178-54	E2-54	126	87
890-2178-55	E2-55	134 S1+	90
890-2178-56	E2-56	122	88
890-2178-57	E2-57	126	89
890-2178-58	E2-58	134 S1+	91
890-2178-59	E2-59	115	86
890-2178-60	E2-60	108	86
890-2178-61	E2-61	128	88
890-2178-62	E2-62	124	87
890-2178-63	E2-63	117	85
890-2178-64	E2-64	130	84
890-2178-65	E2-65	127	84
890-2178-66	E2-66	119	86
890-2178-67	E2-67	121	91
890-2178-68	E2-68	123	85
890-2178-69	E2-W1	100	103
890-2178-69 MS	E2-W1	100	106
890-2178-69 MSD	E2-W1	96	104
890-2178-70	E2-W2	98	103
890-2178-71	E2-W3	101	103
890-2178-72	E2-W4	100	101
890-2178-73	E2-W5	104	104
890-2178-74	E2-W6	105	103
890-2178-75	E2-W7	105	102
890-2178-76	E2-W8	106	104
890-2178-77	E2-W9	103	102
890-2178-78	E2-W10	107	104
890-2178-79	E2-W11	101	107
890-2178-80	E2-W12	103	102
890-2178-81	E2-W13	98	105
890-2178-82	E2-W14	108	109
890-2178-83	E2-W15	108	109
890-2178-84	EM-1	109	108
890-2178-85	EM-2	110	109
890-2178-86	EM-3	108	108
890-2178-87	EM-4	95	103
890-2178-88	EM-W1	101	107
LCS 880-23398/1-A	Lab Control Sample	103	101
LCS 880-23477/1-A	Lab Control Sample	110	96
LCS 880-23478/1-A	Lab Control Sample	110	101

Eurofins Carlsbad

Surrogate Summary

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
LCS 880-23479/1-A	Lab Control Sample	123	95
LCS 880-23480/1-A	Lab Control Sample	95	103
LCS 880-23779/1-A	Lab Control Sample	95	102
LCSD 880-23398/2-A	Lab Control Sample Dup	98	99
LCSD 880-23477/2-A	Lab Control Sample Dup	120	101
LCSD 880-23478/2-A	Lab Control Sample Dup	94	104
LCSD 880-23479/2-A	Lab Control Sample Dup	123	91
LCSD 880-23480/2-A	Lab Control Sample Dup	98	104
LCSD 880-23779/2-A	Lab Control Sample Dup	97	105
MB 880-23368/5-A	Method Blank	99	93
MB 880-23398/5-A	Method Blank	101	94
MB 880-23441/8	Method Blank	95	102
MB 880-23477/5-A	Method Blank	80	79
MB 880-23478/5-A	Method Blank	95	101
MB 880-23479/5-A	Method Blank	84	82
MB 880-23480/5-A	Method Blank	94	99
MB 880-23499/8	Method Blank	93	102
MB 880-23779/5-A	Method Blank	97	102

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-2178-1	E2-1	87	110
890-2178-1 MS	E2-1	80	89
890-2178-1 MSD	E2-1	81	90
890-2178-2	E2-2	88	112
890-2178-3	E2-3	87	108
890-2178-4	E2-4	87	105
890-2178-5	E2-5	86	101
890-2178-6	E2-6	88	103
890-2178-7	E2-7	92	112
890-2178-8	E2-8	93	114
890-2178-9	E2-9	89	106
890-2178-10	E2-10	88	104
890-2178-11	E2-11	90	109
890-2178-12	E2-12	89	107
890-2178-13	E2-13	88	109
890-2178-14	E2-14	88	107
890-2178-15	E2-15	90	108
890-2178-16	E2-16	93	110
890-2178-17	E2-17	88	106
890-2178-18	E2-18	89	108
890-2178-19	E2-19	92	111
890-2178-20	E2-20	96	118

Eurofins Carlsbad

Surrogate Summary

Client: Ranger Environmental Services, Inc
 Project/Site: Cobalt Riser

Job ID: 890-2178-1
 SDG: 5198

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
890-2178-21	E2-21	97	101
890-2178-21 MS	E2-21	89	81
890-2178-21 MSD	E2-21	100	93
890-2178-22	E2-22	100	103
890-2178-23	E2-23	97	99
890-2178-24	E2-24	95	96
890-2178-25	E2-25	100	102
890-2178-26	E2-26	96	99
890-2178-27	E2-27	95	97
890-2178-28	E2-28	115	117
890-2178-29	E2-29	92	94
890-2178-30	E2-30	113	119
890-2178-31	E2-31	91	93
890-2178-32	E2-32	92	91
890-2178-33	E2-33	87	85
890-2178-34	E2-34	105	109
890-2178-35	E2-35	86	85
890-2178-36	E2-36	90	90
890-2178-37	E2-37	93	91
890-2178-38	E2-38	97	100
890-2178-39	E2-39	113	118
890-2178-40	E2-40	98	100
890-2178-41	E2-41	74	72
890-2178-41 MS	E2-41	89	74
890-2178-41 MSD	E2-41	87	74
890-2178-42	E2-42	93	94
890-2178-43	E2-43	93	94
890-2178-44	E2-44	80	83
890-2178-45	E2-45	90	91
890-2178-46	E2-46	103	102
890-2178-47	E2-47	99	100
890-2178-48	E2-48	97	98
890-2178-49	E2-49	85	82
890-2178-50	E2-50	83	79
890-2178-51	E2-51	72	71
890-2178-52	E2-52	91	92
890-2178-53	E2-53	84	83
890-2178-54	E2-54	95	91
890-2178-55	E2-55	92	90
890-2178-56	E2-56	95	93
890-2178-57	E2-57	94	94
890-2178-58	E2-58	89	88
890-2178-59	E2-59	95	95
890-2178-60	E2-60	90	91
890-2178-61	E2-61	85	100
890-2178-61 MS	E2-61	81	88
890-2178-61 MSD	E2-61	82	89
890-2178-62	E2-62	89	103
890-2178-63	E2-63	84	97
890-2178-64	E2-64	89	103

Eurofins Carlsbad

Surrogate Summary

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-2178-65	E2-65	88	102
890-2178-66	E2-66	96	113
890-2178-67	E2-67	97	114
890-2178-68	E2-68	85	98
890-2178-69	E2-W1	85	100
890-2178-70	E2-W2	85	99
890-2178-71	E2-W3	82	93
890-2178-72	E2-W4	81	90
890-2178-73	E2-W5	84	95
890-2178-74	E2-W6	79	85
890-2178-75	E2-W7	84	96
890-2178-76	E2-W8	83	97
890-2178-77	E2-W9	81	90
890-2178-78	E2-W10	95	107
890-2178-79	E2-W11	85	96
890-2178-80	E2-W12	80	88
890-2178-81	E2-W13	92	109
890-2178-82	E2-W14	94	112
890-2178-83	E2-W15	91	106
890-2178-84	EM-1	106	129
890-2178-85	EM-2	108	121
890-2178-86	EM-3	112	133 S1+
890-2178-87	EM-4	98	110
890-2178-88	EM-W1	101	117
LCS 880-23312/2-A	Lab Control Sample	85	89
LCS 880-23313/2-A	Lab Control Sample	86	78
LCS 880-23321/2-A	Lab Control Sample	104	92
LCS 880-23324/2-A	Lab Control Sample	88	74
LCSD 880-23312/3-A	Lab Control Sample Dup	86	85
LCSD 880-23313/3-A	Lab Control Sample Dup	91	83
LCSD 880-23321/3-A	Lab Control Sample Dup	103	93
LCSD 880-23324/3-A	Lab Control Sample Dup	103	91
MB 880-23312/1-A	Method Blank	108	127
MB 880-23313/1-A	Method Blank	99	106
MB 880-23321/1-A	Method Blank	97	101
MB 880-23324/1-A	Method Blank	103	106
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO2 (70-130)	OTPH2 (70-130)
LCS 880-23320/2-A	Lab Control Sample	89	114
LCS 880-23325/2-A	Lab Control Sample	87	101
LCSD 880-23320/3-A	Lab Control Sample Dup	88	104
LCSD 880-23325/3-A	Lab Control Sample Dup	115	136 S1+

Eurofins Carlsbad

Surrogate Summary

Client: Ranger Environmental Services, Inc

Project/Site: Cobalt Riser

Job ID: 890-2178-1

SDG: 5198

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO2 (70-130)	OTPH2 (70-130)
MB 880-23320/1-A	Method Blank	87	103
MB 880-23325/1-A	Method Blank	87	102
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-23368/5-A

Matrix: Solid

Analysis Batch: 23364

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23368

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		04/12/22 10:28	04/12/22 11:24	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		04/12/22 10:28	04/12/22 11:24	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		04/12/22 10:28	04/12/22 11:24	1
m,p-Xylenes	<0.00101	U	0.00400	0.00101	mg/Kg		04/12/22 10:28	04/12/22 11:24	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		04/12/22 10:28	04/12/22 11:24	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		04/12/22 10:28	04/12/22 11:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	04/12/22 10:28	04/12/22 11:24	1
1,4-Difluorobenzene (Surr)	93		70 - 130	04/12/22 10:28	04/12/22 11:24	1

Lab Sample ID: MB 880-23398/5-A

Matrix: Solid

Analysis Batch: 23364

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23398

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		04/12/22 14:39	04/12/22 21:59	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		04/12/22 14:39	04/12/22 21:59	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		04/12/22 14:39	04/12/22 21:59	1
m,p-Xylenes	<0.00101	U	0.00400	0.00101	mg/Kg		04/12/22 14:39	04/12/22 21:59	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		04/12/22 14:39	04/12/22 21:59	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		04/12/22 14:39	04/12/22 21:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	04/12/22 14:39	04/12/22 21:59	1
1,4-Difluorobenzene (Surr)	94		70 - 130	04/12/22 14:39	04/12/22 21:59	1

Lab Sample ID: LCS 880-23398/1-A

Matrix: Solid

Analysis Batch: 23364

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 23398

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08711		mg/Kg		87	70 - 130
Toluene	0.100	0.08910		mg/Kg		89	70 - 130
Ethylbenzene	0.100	0.09094		mg/Kg		91	70 - 130
m,p-Xylenes	0.200	0.1814		mg/Kg		91	70 - 130
o-Xylene	0.100	0.09375		mg/Kg		94	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-23398/2-A

Matrix: Solid

Analysis Batch: 23364

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 23398

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08416		mg/Kg		84	70 - 130	3	35

Eurofins Carlsbad

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-23398/2-A

Matrix: Solid

Analysis Batch: 23364

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 23398

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.08527		mg/Kg		85	70 - 130	4	35
Ethylbenzene	0.100	0.08789		mg/Kg		88	70 - 130	3	35
m,p-Xylenes	0.200	0.1752		mg/Kg		88	70 - 130	3	35
o-Xylene	0.100	0.08928		mg/Kg		89	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 890-2178-1 MS

Matrix: Solid

Analysis Batch: 23364

Client Sample ID: E2-1

Prep Type: Total/NA

Prep Batch: 23398

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.000386	U F1	0.0998	0.07095		mg/Kg		71	70 - 130
Toluene	<0.000457	U F1	0.0998	0.07481		mg/Kg		75	70 - 130
Ethylbenzene	<0.000566	U F1	0.0998	0.06957		mg/Kg		70	70 - 130
m,p-Xylenes	<0.00101	U F1	0.200	0.1460		mg/Kg		73	70 - 130
o-Xylene	<0.000345	U F1	0.0998	0.07546		mg/Kg		76	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 890-2178-1 MSD

Matrix: Solid

Analysis Batch: 23364

Client Sample ID: E2-1

Prep Type: Total/NA

Prep Batch: 23398

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.000386	U F1	0.0990	0.05321	F1	mg/Kg		54	70 - 130	29	35
Toluene	<0.000457	U F1	0.0990	0.06592	F1	mg/Kg		67	70 - 130	13	35
Ethylbenzene	<0.000566	U F1	0.0990	0.05861	F1	mg/Kg		59	70 - 130	17	35
m,p-Xylenes	<0.00101	U F1	0.198	0.1216	F1	mg/Kg		61	70 - 130	18	35
o-Xylene	<0.000345	U F1	0.0990	0.05793	F1	mg/Kg		59	70 - 130	26	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

Lab Sample ID: MB 880-23441/8

Matrix: Solid

Analysis Batch: 23441

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg			04/13/22 15:03	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg			04/13/22 15:03	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg			04/13/22 15:03	1
m,p-Xylenes	<0.00101	U	0.00400	0.00101	mg/Kg			04/13/22 15:03	1

Eurofins Carlsbad

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-23441/8

Matrix: Solid

Analysis Batch: 23441

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg			04/13/22 15:03	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg			04/13/22 15:03	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130					04/13/22 15:03	1
1,4-Difluorobenzene (Surr)	102		70 - 130					04/13/22 15:03	1

Lab Sample ID: MB 880-23477/5-A

Matrix: Solid

Analysis Batch: 23476

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23477

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		04/13/22 13:23	04/13/22 16:31	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		04/13/22 13:23	04/13/22 16:31	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		04/13/22 13:23	04/13/22 16:31	1
m,p-Xylenes	<0.00101	U	0.00400	0.00101	mg/Kg		04/13/22 13:23	04/13/22 16:31	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		04/13/22 13:23	04/13/22 16:31	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		04/13/22 13:23	04/13/22 16:31	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130				04/13/22 13:23	04/13/22 16:31	1
1,4-Difluorobenzene (Surr)	79		70 - 130				04/13/22 13:23	04/13/22 16:31	1

Lab Sample ID: LCS 880-23477/1-A

Matrix: Solid

Analysis Batch: 23476

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 23477

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1527	*+	mg/Kg		153	70 - 130
Toluene	0.100	0.1467	*+	mg/Kg		147	70 - 130
Ethylbenzene	0.100	0.1308	*+	mg/Kg		131	70 - 130
m,p-Xylenes	0.200	0.2701	*+	mg/Kg		135	70 - 130
o-Xylene	0.100	0.1243		mg/Kg		124	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	110		70 - 130				
1,4-Difluorobenzene (Surr)	96		70 - 130				

Lab Sample ID: LCSD 880-23477/2-A

Matrix: Solid

Analysis Batch: 23476

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 23477

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1536	*+	mg/Kg		154	70 - 130	1	35
Toluene	0.100	0.1437	*+	mg/Kg		144	70 - 130	2	35
Ethylbenzene	0.100	0.1282		mg/Kg		128	70 - 130	2	35
m,p-Xylenes	0.200	0.2680	*+	mg/Kg		134	70 - 130	1	35
o-Xylene	0.100	0.1247		mg/Kg		125	70 - 130	0	35

Eurofins Carlsbad

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 890-2178-11 MS

Matrix: Solid

Analysis Batch: 23476

Client Sample ID: E2-11

Prep Type: Total/NA

Prep Batch: 23477

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.000384	U *	0.100	0.1058		mg/Kg		106	70 - 130
Toluene	<0.000455	U *	0.100	0.09406		mg/Kg		94	70 - 130
Ethylbenzene	<0.000564	U *	0.100	0.08883		mg/Kg		89	70 - 130
m,p-Xylenes	<0.00101	U *	0.200	0.1891		mg/Kg		94	70 - 130
o-Xylene	<0.000343	U	0.100	0.09998		mg/Kg		100	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	73		70 - 130

Lab Sample ID: 890-2178-11 MSD

Matrix: Solid

Analysis Batch: 23476

Client Sample ID: E2-11

Prep Type: Total/NA

Prep Batch: 23477

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.000384	U *	0.101	0.1048		mg/Kg		104	70 - 130	1	35
Toluene	<0.000455	U *	0.101	0.09490		mg/Kg		94	70 - 130	1	35
Ethylbenzene	<0.000564	U *	0.101	0.09582		mg/Kg		95	70 - 130	8	35
m,p-Xylenes	<0.00101	U *	0.202	0.2013		mg/Kg		100	70 - 130	6	35
o-Xylene	<0.000343	U	0.101	0.09601		mg/Kg		95	70 - 130	4	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: MB 880-23478/5-A

Matrix: Solid

Analysis Batch: 23441

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23478

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		04/13/22 13:29	04/13/22 19:20	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		04/13/22 13:29	04/13/22 19:20	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		04/13/22 13:29	04/13/22 19:20	1
m,p-Xylenes	<0.00101	U	0.00400	0.00101	mg/Kg		04/13/22 13:29	04/13/22 19:20	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		04/13/22 13:29	04/13/22 19:20	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		04/13/22 13:29	04/13/22 19:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	04/13/22 13:29	04/13/22 19:20	1
1,4-Difluorobenzene (Surr)	101		70 - 130	04/13/22 13:29	04/13/22 19:20	1

Eurofins Carlsbad

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-23478/1-A

Matrix: Solid

Analysis Batch: 23441

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 23478

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08528		mg/Kg		85	70 - 130
Toluene	0.100	0.1092		mg/Kg		109	70 - 130
Ethylbenzene	0.100	0.1184		mg/Kg		118	70 - 130
m,p-Xylenes	0.200	0.2408		mg/Kg		120	70 - 130
o-Xylene	0.100	0.1208		mg/Kg		121	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-23478/2-A

Matrix: Solid

Analysis Batch: 23441

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 23478

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08434		mg/Kg		84	70 - 130	1	35
Toluene	0.100	0.09580		mg/Kg		96	70 - 130	13	35
Ethylbenzene	0.100	0.1006		mg/Kg		101	70 - 130	16	35
m,p-Xylenes	0.200	0.1993		mg/Kg		100	70 - 130	19	35
o-Xylene	0.100	0.09842		mg/Kg		98	70 - 130	20	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: MB 880-23479/5-A

Matrix: Solid

Analysis Batch: 23476

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23479

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		04/13/22 13:36	04/14/22 06:15	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		04/13/22 13:36	04/14/22 06:15	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		04/13/22 13:36	04/14/22 06:15	1
m,p-Xylenes	<0.00101	U	0.00400	0.00101	mg/Kg		04/13/22 13:36	04/14/22 06:15	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		04/13/22 13:36	04/14/22 06:15	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		04/13/22 13:36	04/14/22 06:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	04/13/22 13:36	04/14/22 06:15	1
1,4-Difluorobenzene (Surr)	82		70 - 130	04/13/22 13:36	04/14/22 06:15	1

Lab Sample ID: LCS 880-23479/1-A

Matrix: Solid

Analysis Batch: 23476

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 23479

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1335	*+	mg/Kg		133	70 - 130
Toluene	0.100	0.1419	*+	mg/Kg		142	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-23479/1-A

Matrix: Solid

Analysis Batch: 23476

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 23479

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	0.100	0.1257		mg/Kg		126	70 - 130
m,p-Xylenes	0.200	0.2614	*+	mg/Kg		131	70 - 130
o-Xylene	0.100	0.1250		mg/Kg		125	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: LCSD 880-23479/2-A

Matrix: Solid

Analysis Batch: 23476

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 23479

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.08966	*1	mg/Kg		90	70 - 130	39	35
Toluene	0.100	0.09291	*1	mg/Kg		93	70 - 130	42	35
Ethylbenzene	0.100	0.09634		mg/Kg		96	70 - 130	26	35
m,p-Xylenes	0.200	0.1924		mg/Kg		96	70 - 130	30	35
o-Xylene	0.100	0.09707		mg/Kg		97	70 - 130	25	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: 890-2178-49 MS

Matrix: Solid

Analysis Batch: 23476

Client Sample ID: E2-49

Prep Type: Total/NA

Prep Batch: 23479

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.000388	U *+ *1	0.101	0.1061		mg/Kg		105	70 - 130
Toluene	0.000755	J *+ *1	0.101	0.09955		mg/Kg		98	70 - 130
Ethylbenzene	<0.000570	U	0.101	0.08371		mg/Kg		83	70 - 130
m,p-Xylenes	<0.00102	U *+	0.202	0.1710		mg/Kg		85	70 - 130
o-Xylene	<0.000347	U	0.101	0.08034		mg/Kg		80	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	125		70 - 130
1,4-Difluorobenzene (Surr)	85		70 - 130

Lab Sample ID: 890-2178-49 MSD

Matrix: Solid

Analysis Batch: 23476

Client Sample ID: E2-49

Prep Type: Total/NA

Prep Batch: 23479

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.000388	U *+ *1	0.100	0.1108		mg/Kg		111	70 - 130	4	35
Toluene	0.000755	J *+ *1	0.100	0.1186		mg/Kg		118	70 - 130	17	35
Ethylbenzene	<0.000570	U	0.100	0.1060		mg/Kg		106	70 - 130	23	35
m,p-Xylenes	<0.00102	U *+	0.200	0.2199		mg/Kg		110	70 - 130	25	35
o-Xylene	<0.000347	U	0.100	0.1031		mg/Kg		103	70 - 130	25	35

Eurofins Carlsbad

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	126		70 - 130
1,4-Difluorobenzene (Surr)	88		70 - 130

Lab Sample ID: MB 880-23480/5-A

Matrix: Solid

Analysis Batch: 23499

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23480

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		04/13/22 13:39	04/15/22 03:10	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		04/13/22 13:39	04/15/22 03:10	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		04/13/22 13:39	04/15/22 03:10	1
m,p-Xylenes	<0.00101	U	0.00400	0.00101	mg/Kg		04/13/22 13:39	04/15/22 03:10	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		04/13/22 13:39	04/15/22 03:10	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		04/13/22 13:39	04/15/22 03:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	04/13/22 13:39	04/15/22 03:10	1
1,4-Difluorobenzene (Surr)	99		70 - 130	04/13/22 13:39	04/15/22 03:10	1

Lab Sample ID: LCS 880-23480/1-A

Matrix: Solid

Analysis Batch: 23499

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 23480

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.07858		mg/Kg		79	70 - 130
Toluene	0.100	0.09059		mg/Kg		91	70 - 130
Ethylbenzene	0.100	0.09507		mg/Kg		95	70 - 130
m,p-Xylenes	0.200	0.1881		mg/Kg		94	70 - 130
o-Xylene	0.100	0.09406		mg/Kg		94	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-23480/2-A

Matrix: Solid

Analysis Batch: 23499

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 23480

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08604		mg/Kg		86	70 - 130	9	35
Toluene	0.100	0.09685		mg/Kg		97	70 - 130	7	35
Ethylbenzene	0.100	0.09982		mg/Kg		100	70 - 130	5	35
m,p-Xylenes	0.200	0.1987		mg/Kg		99	70 - 130	5	35
o-Xylene	0.100	0.1001		mg/Kg		100	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-2178-69 MS

Matrix: Solid

Analysis Batch: 23499

Client Sample ID: E2-W1

Prep Type: Total/NA

Prep Batch: 23480

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.000387	U	0.101	0.1115		mg/Kg		110	70 - 130
Toluene	<0.000459	U	0.101	0.1084		mg/Kg		107	70 - 130
Ethylbenzene	<0.000568	U	0.101	0.09301		mg/Kg		92	70 - 130
m,p-Xylenes	<0.00102	U	0.202	0.1894		mg/Kg		94	70 - 130
o-Xylene	<0.000346	U	0.101	0.08989		mg/Kg		89	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 890-2178-69 MSD

Matrix: Solid

Analysis Batch: 23499

Client Sample ID: E2-W1

Prep Type: Total/NA

Prep Batch: 23480

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.000387	U	0.0998	0.1077		mg/Kg		108	70 - 130	3	35
Toluene	<0.000459	U	0.0998	0.1070		mg/Kg		107	70 - 130	1	35
Ethylbenzene	<0.000568	U	0.0998	0.09319		mg/Kg		93	70 - 130	0	35
m,p-Xylenes	<0.00102	U	0.200	0.1905		mg/Kg		95	70 - 130	1	35
o-Xylene	<0.000346	U	0.0998	0.08889		mg/Kg		89	70 - 130	1	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: MB 880-23499/8

Matrix: Solid

Analysis Batch: 23499

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg			04/14/22 15:23	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg			04/14/22 15:23	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg			04/14/22 15:23	1
m,p-Xylenes	<0.00101	U	0.00400	0.00101	mg/Kg			04/14/22 15:23	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg			04/14/22 15:23	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg			04/14/22 15:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130		04/14/22 15:23	1
1,4-Difluorobenzene (Surr)	102		70 - 130		04/14/22 15:23	1

Lab Sample ID: MB 880-23779/5-A

Matrix: Solid

Analysis Batch: 23768

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23779

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		04/19/22 10:22	04/19/22 12:24	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		04/19/22 10:22	04/19/22 12:24	1

Eurofins Carlsbad

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-23779/5-A

Matrix: Solid

Analysis Batch: 23768

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23779

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		04/19/22 10:22	04/19/22 12:24	1
m,p-Xylenes	<0.00101	U	0.00400	0.00101	mg/Kg		04/19/22 10:22	04/19/22 12:24	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		04/19/22 10:22	04/19/22 12:24	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		04/19/22 10:22	04/19/22 12:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	04/19/22 10:22	04/19/22 12:24	1
1,4-Difluorobenzene (Surr)	102		70 - 130	04/19/22 10:22	04/19/22 12:24	1

Lab Sample ID: LCS 880-23779/1-A

Matrix: Solid

Analysis Batch: 23768

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 23779

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1149		mg/Kg		115	70 - 130
Toluene	0.100	0.1246		mg/Kg		125	70 - 130
Ethylbenzene	0.100	0.1151		mg/Kg		115	70 - 130
m,p-Xylenes	0.200	0.2389		mg/Kg		119	70 - 130
o-Xylene	0.100	0.1116		mg/Kg		112	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-23779/2-A

Matrix: Solid

Analysis Batch: 23768

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 23779

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1249		mg/Kg		125	70 - 130	8	35
Toluene	0.100	0.1279		mg/Kg		128	70 - 130	3	35
Ethylbenzene	0.100	0.1185		mg/Kg		118	70 - 130	3	35
m,p-Xylenes	0.200	0.2462		mg/Kg		123	70 - 130	3	35
o-Xylene	0.100	0.1143		mg/Kg		114	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-23312/1-A

Matrix: Solid

Analysis Batch: 23281

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23312

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		04/11/22 15:10	04/11/22 19:55	1

Eurofins Carlsbad

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-23312/1-A

Matrix: Solid

Analysis Batch: 23281

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23312

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		04/11/22 15:10	04/11/22 19:55	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/11/22 15:10	04/11/22 19:55	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				04/11/22 15:10	04/11/22 19:55	1
o-Terphenyl	127		70 - 130				04/11/22 15:10	04/11/22 19:55	1

Lab Sample ID: LCS 880-23312/2-A

Matrix: Solid

Analysis Batch: 23281

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 23312

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	700.4		mg/Kg		70	70 - 130
Diesel Range Organics (Over C10-C28)	1000	806.5		mg/Kg		81	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	85		70 - 130				
o-Terphenyl	89		70 - 130				

Lab Sample ID: LCSD 880-23312/3-A

Matrix: Solid

Analysis Batch: 23281

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 23312

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	743.4		mg/Kg		74	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	1000	823.4		mg/Kg		82	70 - 130	2	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	86		70 - 130						
o-Terphenyl	85		70 - 130						

Lab Sample ID: MB 880-23313/1-A

Matrix: Solid

Analysis Batch: 23283

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23313

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		04/11/22 15:16	04/11/22 19:55	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		04/11/22 15:16	04/11/22 19:55	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/11/22 15:16	04/11/22 19:55	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				04/11/22 15:16	04/11/22 19:55	1

Eurofins Carlsbad

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-23313/1-A

Matrix: Solid

Analysis Batch: 23283

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23313

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
<i>o</i> -Terphenyl	106		70 - 130	04/11/22 15:16	04/11/22 19:55	1			

Lab Sample ID: LCS 880-23313/2-A

Matrix: Solid

Analysis Batch: 23283

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 23313

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	765.0		mg/Kg		76	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	940.9		mg/Kg		94	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	86		70 - 130
<i>o</i> -Terphenyl	78		70 - 130

Lab Sample ID: LCSD 880-23313/3-A

Matrix: Solid

Analysis Batch: 23283

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 23313

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	709.6		mg/Kg		71	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	1000	999.3		mg/Kg		100	70 - 130	6	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	91		70 - 130
<i>o</i> -Terphenyl	83		70 - 130

Lab Sample ID: MB 880-23320/1-A

Matrix: Solid

Analysis Batch: 23285

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23320

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		04/11/22 16:37	04/11/22 20:03	1
Diesel Range Organics (Over C10-C28)	18.50	J	50.0	15.0	mg/Kg		04/11/22 16:37	04/11/22 20:03	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/11/22 16:37	04/11/22 20:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	04/11/22 16:37	04/11/22 20:03	1
<i>o</i> -Terphenyl	103		70 - 130	04/11/22 16:37	04/11/22 20:03	1

Eurofins Carlsbad

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-23320/2-A

Matrix: Solid

Analysis Batch: 23285

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 23320

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec		
			Added	Result	Qualifier			Limits			
Gasoline Range Organics (GRO)-C6-C10			1000	1144		mg/Kg		114	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1185		mg/Kg		119	70 - 130		
											</

Lab Sample ID: LCSD 880-23320/3-A

Matrix: Solid

Analysis Batch: 23285

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 23320

			Spike	LCSD	LCSD				%Rec	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1136		mg/Kg		114	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	1026		mg/Kg		103	70 - 130	14	20
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	88		70 - 130								
o-Terphenyl	104		70 - 130								

Lab Sample ID: 890-2178-1 MS

Matrix: Solid

Analysis Batch: 23285

Client Sample ID: E2-1

Prep Type: Total/NA

Prep Batch: 23320

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	998	799.5		mg/Kg		80	70 - 130		
Diesel Range Organics (Over C10-C28)	22.2	J B	998	762.7		mg/Kg		74	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	80		70 - 130								
o-Terphenyl	89		70 - 130								

Lab Sample ID: 890-2178-1 MSD

Matrix: Solid

Analysis Batch: 23285

Client Sample ID: E2-1

Prep Type: Total/NA

Prep Batch: 23320

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	997	809.7		mg/Kg		81	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	22.2	J B	997	774.3		mg/Kg		75	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	81		70 - 130								

Eurofins Carlsbad

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-2178-1 MSD

Matrix: Solid

Analysis Batch: 23285

Client Sample ID: E2-1

Prep Type: Total/NA

Prep Batch: 23320

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	90		70 - 130

Lab Sample ID: MB 880-23321/1-A

Matrix: Solid

Analysis Batch: 23361

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23321

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		04/11/22 16:41	04/12/22 10:54	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		04/11/22 16:41	04/12/22 10:54	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/11/22 16:41	04/12/22 10:54	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				04/11/22 16:41	04/12/22 10:54	1
<i>o</i> -Terphenyl	101		70 - 130				04/11/22 16:41	04/12/22 10:54	1

Lab Sample ID: LCS 880-23321/2-A

Matrix: Solid

Analysis Batch: 23361

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 23321

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1038		mg/Kg		104	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1142		mg/Kg		114	70 - 130
Surrogate	LCS	LCS	Limits				
1-Chlorooctane	104		70 - 130				
<i>o</i> -Terphenyl	92		70 - 130				

Lab Sample ID: LCSD 880-23321/3-A

Matrix: Solid

Analysis Batch: 23361

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 23321

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1081		mg/Kg		108	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	1230		mg/Kg		123	70 - 130	7	20
Surrogate	LCSD	LCSD	Limits						
1-Chlorooctane	103		70 - 130						
<i>o</i> -Terphenyl	93		70 - 130						

Eurofins Carlsbad

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-2178-21 MS

Matrix: Solid

Analysis Batch: 23361

Client Sample ID: E2-21

Prep Type: Total/NA

Prep Batch: 23321

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	998	894.4		mg/Kg		90	70 - 130
Diesel Range Organics (Over C10-C28)	<15.0	U	998	803.9		mg/Kg		81	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	89		70 - 130						
o-Terphenyl	81		70 - 130						

Lab Sample ID: 890-2178-21 MSD

Matrix: Solid

Analysis Batch: 23361

Client Sample ID: E2-21

Prep Type: Total/NA

Prep Batch: 23321

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	997	954.8		mg/Kg		96	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	<15.0	U	997	917.9		mg/Kg		92	70 - 130	13	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	100		70 - 130								
o-Terphenyl	93		70 - 130								

Lab Sample ID: MB 880-23324/1-A

Matrix: Solid

Analysis Batch: 23359

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23324

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		04/11/22 16:48	04/12/22 10:54	1
Diesel Range Organics (Over C10-C28)	18.95	J	50.0	15.0	mg/Kg		04/11/22 16:48	04/12/22 10:54	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/11/22 16:48	04/12/22 10:54	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				04/11/22 16:48	04/12/22 10:54	1
o-Terphenyl	106		70 - 130				04/11/22 16:48	04/12/22 10:54	1

Lab Sample ID: LCS 880-23324/2-A

Matrix: Solid

Analysis Batch: 23359

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 23324

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1063		mg/Kg		106	70 - 130
Diesel Range Organics (Over C10-C28)	1000	940.1		mg/Kg		94	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-23324/2-A

Matrix: Solid

Analysis Batch: 23359

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 23324

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	88		70 - 130
o-Terphenyl	74		70 - 130

Lab Sample ID: LCSD 880-23324/3-A

Matrix: Solid

Analysis Batch: 23359

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 23324

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1031		mg/Kg		103	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	1138		mg/Kg		114	70 - 130	19	20
Surrogate	LCSD	LCSD									
	%Recovery	Qualifier									
1-Chlorooctane	103										
o-Terphenyl	91										

Lab Sample ID: 890-2178-41 MS

Matrix: Solid

Analysis Batch: 23359

Client Sample ID: E2-41

Prep Type: Total/NA

Prep Batch: 23324

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	998	1146		mg/Kg		115	70 - 130		
Diesel Range Organics (Over C10-C28)	16.5	J B	998	867.8		mg/Kg		85	70 - 130		
Surrogate	MS	MS									
	%Recovery	Qualifier									
1-Chlorooctane	89										
o-Terphenyl	74										

Lab Sample ID: 890-2178-41 MSD

Matrix: Solid

Analysis Batch: 23359

Client Sample ID: E2-41

Prep Type: Total/NA

Prep Batch: 23324

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	997	1125		mg/Kg		113	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	16.5	J B	997	871.9		mg/Kg		86	70 - 130	0	20
Surrogate	MSD	MSD									
	%Recovery	Qualifier									
1-Chlorooctane	87										
o-Terphenyl	74										

Eurofins Carlsbad

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-23325/1-A

Matrix: Solid

Analysis Batch: 23357

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23325

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		04/11/22 16:52	04/12/22 10:30	1
Diesel Range Organics (Over C10-C28)	20.24	J	50.0	15.0	mg/Kg		04/11/22 16:52	04/12/22 10:30	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/11/22 16:52	04/12/22 10:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	04/11/22 16:52	04/12/22 10:30	1
o-Terphenyl	102		70 - 130	04/11/22 16:52	04/12/22 10:30	1

Lab Sample ID: LCS 880-23325/2-A

Matrix: Solid

Analysis Batch: 23357

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 23325

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1105		mg/Kg		110	70 - 130
Diesel Range Organics (Over C10-C28)	1000	982.7		mg/Kg		98	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	87		70 - 130
o-Terphenyl	101		70 - 130

Lab Sample ID: LCSD 880-23325/3-A

Matrix: Solid

Analysis Batch: 23357

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 23325

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1099		mg/Kg		110	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	1294	*1	mg/Kg		129	70 - 130	27	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	115		70 - 130
o-Terphenyl	136	S1+	70 - 130

Lab Sample ID: 890-2178-61 MS

Matrix: Solid

Analysis Batch: 23357

Client Sample ID: E2-61

Prep Type: Total/NA

Prep Batch: 23325

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	1000	881.4		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)	18.9	J B *1	1000	829.7		mg/Kg		81	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-2178-61 MS

Matrix: Solid

Analysis Batch: 23357

Client Sample ID: E2-61

Prep Type: Total/NA

Prep Batch: 23325

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	81		70 - 130
o-Terphenyl	88		70 - 130

Lab Sample ID: 890-2178-61 MSD

Matrix: Solid

Analysis Batch: 23357

Client Sample ID: E2-61

Prep Type: Total/NA

Prep Batch: 23325

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	998	883.6		mg/Kg		89	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	18.9	J B *1	998	843.7		mg/Kg		83	70 - 130	2	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	82		70 - 130
o-Terphenyl	89		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-23374/1-A

Matrix: Solid

Analysis Batch: 23559

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.858	U	5.00	0.858	mg/Kg			04/14/22 22:49	1

Lab Sample ID: LCS 880-23374/2-A

Matrix: Solid

Analysis Batch: 23559

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	230.7		mg/Kg		92	90 - 110

Lab Sample ID: LCSD 880-23374/3-A

Matrix: Solid

Analysis Batch: 23559

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	242.7		mg/Kg		97	90 - 110	5	20

Lab Sample ID: 890-2178-9 MS

Matrix: Solid

Analysis Batch: 23559

Client Sample ID: E2-9

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	80.9	F1	249	298.2	F1	mg/Kg		87	90 - 110

Eurofins Carlsbad

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-2178-9 MSD

Matrix: Solid

Analysis Batch: 23559

Client Sample ID: E2-9

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	80.9	F1	249	299.5	F1	mg/Kg		88	90 - 110	0	20

Lab Sample ID: MB 880-23375/1-A

Matrix: Solid

Analysis Batch: 23560

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.858	U	5.00	0.858	mg/Kg			04/15/22 02:31	1

Lab Sample ID: LCS 880-23375/2-A

Matrix: Solid

Analysis Batch: 23560

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	238.7		mg/Kg		95	90 - 110

Lab Sample ID: LCSD 880-23375/3-A

Matrix: Solid

Analysis Batch: 23560

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	242.1		mg/Kg		97	90 - 110	1	20

Lab Sample ID: 890-2178-19 MS

Matrix: Solid

Analysis Batch: 23560

Client Sample ID: E2-19

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	75.8	F1	248	296.6	F1	mg/Kg		89	90 - 110

Lab Sample ID: 890-2178-19 MSD

Matrix: Solid

Analysis Batch: 23560

Client Sample ID: E2-19

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	75.8	F1	248	297.8	F1	mg/Kg		89	90 - 110	0	20

Lab Sample ID: 890-2178-29 MS

Matrix: Solid

Analysis Batch: 23560

Client Sample ID: E2-29

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	310	F1	250	532.4	F1	mg/Kg		89	90 - 110

Lab Sample ID: 890-2178-29 MSD

Matrix: Solid

Analysis Batch: 23560

Client Sample ID: E2-29

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	310	F1	250	534.7		mg/Kg		90	90 - 110	0	20

Eurofins Carlsbad

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-23376/1-A

Matrix: Solid

Analysis Batch: 23602

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.858	U	5.00	0.858	mg/Kg			04/16/22 03:46	1

Lab Sample ID: LCS 880-23376/2-A

Matrix: Solid

Analysis Batch: 23602

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	250.0		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-23376/3-A

Matrix: Solid

Analysis Batch: 23602

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	249.9		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 890-2178-39 MS

Matrix: Solid

Analysis Batch: 23602

Client Sample ID: E2-39

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	223		248	463.3		mg/Kg		97	90 - 110

Lab Sample ID: 890-2178-39 MSD

Matrix: Solid

Analysis Batch: 23602

Client Sample ID: E2-39

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	223		248	455.9		mg/Kg		94	90 - 110	2	20

Lab Sample ID: 890-2178-49 MS

Matrix: Solid

Analysis Batch: 23602

Client Sample ID: E2-49

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	27.8		248	271.4		mg/Kg		98	90 - 110

Lab Sample ID: 890-2178-49 MSD

Matrix: Solid

Analysis Batch: 23602

Client Sample ID: E2-49

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	27.8		248	273.3		mg/Kg		99	90 - 110	1	20

Lab Sample ID: MB 880-23377/1-A

Matrix: Solid

Analysis Batch: 23603

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.858	U	5.00	0.858	mg/Kg			04/16/22 07:28	1

Eurofins Carlsbad

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-23377/2-A

Matrix: Solid

Analysis Batch: 23603

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	252.3		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-23377/3-A

Matrix: Solid

Analysis Batch: 23603

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	255.9		mg/Kg		102	90 - 110	1	20

Lab Sample ID: 890-2178-59 MS

Matrix: Solid

Analysis Batch: 23603

Client Sample ID: E2-59

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	45.9		248	286.4		mg/Kg		97	90 - 110

Lab Sample ID: 890-2178-59 MSD

Matrix: Solid

Analysis Batch: 23603

Client Sample ID: E2-59

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	45.9		248	282.8		mg/Kg		96	90 - 110	1	20

Lab Sample ID: 890-2178-69 MS

Matrix: Solid

Analysis Batch: 23603

Client Sample ID: E2-W1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	17.8		250	263.6		mg/Kg		99	90 - 110

Lab Sample ID: 890-2178-69 MSD

Matrix: Solid

Analysis Batch: 23603

Client Sample ID: E2-W1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	17.8		250	265.7		mg/Kg		99	90 - 110	1	20

Lab Sample ID: MB 880-23378/1-A

Matrix: Solid

Analysis Batch: 23604

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.858	U	5.00	0.858	mg/Kg			04/15/22 21:21	1

Lab Sample ID: LCS 880-23378/2-A

Matrix: Solid

Analysis Batch: 23604

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	253.8		mg/Kg		102	90 - 110

Eurofins Carlsbad

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-23378/3-A

Matrix: Solid

Analysis Batch: 23604

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	249.0		mg/Kg		100	90 - 110	2	20

Lab Sample ID: 890-2178-79 MS

Matrix: Solid

Analysis Batch: 23604

Client Sample ID: E2-W11

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	93.4		250	339.7		mg/Kg		99	90 - 110		

Lab Sample ID: 890-2178-79 MSD

Matrix: Solid

Analysis Batch: 23604

Client Sample ID: E2-W11

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	93.4		250	336.7		mg/Kg		97	90 - 110	1	20

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

GC VOA

Analysis Batch: 23364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2178-1	E2-1	Total/NA	Solid	8021B	23398
890-2178-2	E2-2	Total/NA	Solid	8021B	23398
890-2178-3	E2-3	Total/NA	Solid	8021B	23398
890-2178-4	E2-4	Total/NA	Solid	8021B	23398
890-2178-5	E2-5	Total/NA	Solid	8021B	23398
890-2178-6	E2-6	Total/NA	Solid	8021B	23398
890-2178-7	E2-7	Total/NA	Solid	8021B	23398
890-2178-8	E2-8	Total/NA	Solid	8021B	23398
890-2178-9	E2-9	Total/NA	Solid	8021B	23398
890-2178-10	E2-10	Total/NA	Solid	8021B	23398
MB 880-23368/5-A	Method Blank	Total/NA	Solid	8021B	23368
MB 880-23398/5-A	Method Blank	Total/NA	Solid	8021B	23398
LCS 880-23398/1-A	Lab Control Sample	Total/NA	Solid	8021B	23398
LCSD 880-23398/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	23398
890-2178-1 MS	E2-1	Total/NA	Solid	8021B	23398
890-2178-1 MSD	E2-1	Total/NA	Solid	8021B	23398

Prep Batch: 23368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-23368/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 23398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2178-1	E2-1	Total/NA	Solid	5035	
890-2178-2	E2-2	Total/NA	Solid	5035	
890-2178-3	E2-3	Total/NA	Solid	5035	
890-2178-4	E2-4	Total/NA	Solid	5035	
890-2178-5	E2-5	Total/NA	Solid	5035	
890-2178-6	E2-6	Total/NA	Solid	5035	
890-2178-7	E2-7	Total/NA	Solid	5035	
890-2178-8	E2-8	Total/NA	Solid	5035	
890-2178-9	E2-9	Total/NA	Solid	5035	
890-2178-10	E2-10	Total/NA	Solid	5035	
MB 880-23398/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-23398/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-23398/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2178-1 MS	E2-1	Total/NA	Solid	5035	
890-2178-1 MSD	E2-1	Total/NA	Solid	5035	

Analysis Batch: 23441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2178-31	E2-31	Total/NA	Solid	8021B	23478
890-2178-32	E2-32	Total/NA	Solid	8021B	23478
890-2178-33	E2-33	Total/NA	Solid	8021B	23478
890-2178-34	E2-34	Total/NA	Solid	8021B	23478
890-2178-35	E2-35	Total/NA	Solid	8021B	23478
890-2178-36	E2-36	Total/NA	Solid	8021B	23478
890-2178-37	E2-37	Total/NA	Solid	8021B	23478
890-2178-38	E2-38	Total/NA	Solid	8021B	23478
890-2178-39	E2-39	Total/NA	Solid	8021B	23478
890-2178-40	E2-40	Total/NA	Solid	8021B	23478

Eurofins Carlsbad

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

GC VOA (Continued)

Analysis Batch: 23441 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2178-41	E2-41	Total/NA	Solid	8021B	23478
890-2178-42	E2-42	Total/NA	Solid	8021B	23478
890-2178-43	E2-43	Total/NA	Solid	8021B	23478
890-2178-44	E2-44	Total/NA	Solid	8021B	23478
890-2178-45	E2-45	Total/NA	Solid	8021B	23478
890-2178-46	E2-46	Total/NA	Solid	8021B	23478
890-2178-47	E2-47	Total/NA	Solid	8021B	23478
890-2178-48	E2-48	Total/NA	Solid	8021B	23478
MB 880-23441/8	Method Blank	Total/NA	Solid	8021B	
MB 880-23478/5-A	Method Blank	Total/NA	Solid	8021B	23478
LCS 880-23478/1-A	Lab Control Sample	Total/NA	Solid	8021B	23478
LCSD 880-23478/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	23478

Analysis Batch: 23446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2178-1	E2-1	Total/NA	Solid	Total BTEX	
890-2178-2	E2-2	Total/NA	Solid	Total BTEX	
890-2178-3	E2-3	Total/NA	Solid	Total BTEX	
890-2178-4	E2-4	Total/NA	Solid	Total BTEX	
890-2178-5	E2-5	Total/NA	Solid	Total BTEX	
890-2178-6	E2-6	Total/NA	Solid	Total BTEX	
890-2178-7	E2-7	Total/NA	Solid	Total BTEX	
890-2178-8	E2-8	Total/NA	Solid	Total BTEX	
890-2178-9	E2-9	Total/NA	Solid	Total BTEX	
890-2178-10	E2-10	Total/NA	Solid	Total BTEX	
890-2178-11	E2-11	Total/NA	Solid	Total BTEX	
890-2178-12	E2-12	Total/NA	Solid	Total BTEX	
890-2178-13	E2-13	Total/NA	Solid	Total BTEX	
890-2178-14	E2-14	Total/NA	Solid	Total BTEX	
890-2178-15	E2-15	Total/NA	Solid	Total BTEX	
890-2178-16	E2-16	Total/NA	Solid	Total BTEX	
890-2178-17	E2-17	Total/NA	Solid	Total BTEX	
890-2178-18	E2-18	Total/NA	Solid	Total BTEX	
890-2178-19	E2-19	Total/NA	Solid	Total BTEX	
890-2178-20	E2-20	Total/NA	Solid	Total BTEX	
890-2178-21	E2-21	Total/NA	Solid	Total BTEX	
890-2178-22	E2-22	Total/NA	Solid	Total BTEX	
890-2178-23	E2-23	Total/NA	Solid	Total BTEX	
890-2178-24	E2-24	Total/NA	Solid	Total BTEX	
890-2178-25	E2-25	Total/NA	Solid	Total BTEX	
890-2178-26	E2-26	Total/NA	Solid	Total BTEX	
890-2178-27	E2-27	Total/NA	Solid	Total BTEX	
890-2178-28	E2-28	Total/NA	Solid	Total BTEX	
890-2178-29	E2-29	Total/NA	Solid	Total BTEX	
890-2178-30	E2-30	Total/NA	Solid	Total BTEX	
890-2178-31	E2-31	Total/NA	Solid	Total BTEX	
890-2178-32	E2-32	Total/NA	Solid	Total BTEX	
890-2178-33	E2-33	Total/NA	Solid	Total BTEX	
890-2178-34	E2-34	Total/NA	Solid	Total BTEX	
890-2178-35	E2-35	Total/NA	Solid	Total BTEX	
890-2178-36	E2-36	Total/NA	Solid	Total BTEX	

Eurofins Carlsbad

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

GC VOA (Continued)

Analysis Batch: 23446 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2178-37	E2-37	Total/NA	Solid	Total BTEX	
890-2178-38	E2-38	Total/NA	Solid	Total BTEX	
890-2178-39	E2-39	Total/NA	Solid	Total BTEX	
890-2178-40	E2-40	Total/NA	Solid	Total BTEX	
890-2178-41	E2-41	Total/NA	Solid	Total BTEX	
890-2178-42	E2-42	Total/NA	Solid	Total BTEX	
890-2178-43	E2-43	Total/NA	Solid	Total BTEX	
890-2178-44	E2-44	Total/NA	Solid	Total BTEX	
890-2178-45	E2-45	Total/NA	Solid	Total BTEX	
890-2178-46	E2-46	Total/NA	Solid	Total BTEX	
890-2178-47	E2-47	Total/NA	Solid	Total BTEX	
890-2178-48	E2-48	Total/NA	Solid	Total BTEX	
890-2178-49	E2-49	Total/NA	Solid	Total BTEX	
890-2178-50	E2-50	Total/NA	Solid	Total BTEX	
890-2178-51	E2-51	Total/NA	Solid	Total BTEX	
890-2178-52	E2-52	Total/NA	Solid	Total BTEX	
890-2178-53	E2-53	Total/NA	Solid	Total BTEX	
890-2178-54	E2-54	Total/NA	Solid	Total BTEX	
890-2178-55	E2-55	Total/NA	Solid	Total BTEX	
890-2178-56	E2-56	Total/NA	Solid	Total BTEX	
890-2178-57	E2-57	Total/NA	Solid	Total BTEX	
890-2178-58	E2-58	Total/NA	Solid	Total BTEX	
890-2178-59	E2-59	Total/NA	Solid	Total BTEX	
890-2178-60	E2-60	Total/NA	Solid	Total BTEX	
890-2178-61	E2-61	Total/NA	Solid	Total BTEX	
890-2178-62	E2-62	Total/NA	Solid	Total BTEX	
890-2178-63	E2-63	Total/NA	Solid	Total BTEX	
890-2178-64	E2-64	Total/NA	Solid	Total BTEX	
890-2178-65	E2-65	Total/NA	Solid	Total BTEX	
890-2178-66	E2-66	Total/NA	Solid	Total BTEX	
890-2178-67	E2-67	Total/NA	Solid	Total BTEX	
890-2178-68	E2-68	Total/NA	Solid	Total BTEX	
890-2178-69	E2-W1	Total/NA	Solid	Total BTEX	
890-2178-70	E2-W2	Total/NA	Solid	Total BTEX	
890-2178-71	E2-W3	Total/NA	Solid	Total BTEX	
890-2178-72	E2-W4	Total/NA	Solid	Total BTEX	
890-2178-73	E2-W5	Total/NA	Solid	Total BTEX	
890-2178-74	E2-W6	Total/NA	Solid	Total BTEX	
890-2178-75	E2-W7	Total/NA	Solid	Total BTEX	
890-2178-76	E2-W8	Total/NA	Solid	Total BTEX	
890-2178-77	E2-W9	Total/NA	Solid	Total BTEX	
890-2178-78	E2-W10	Total/NA	Solid	Total BTEX	
890-2178-79	E2-W11	Total/NA	Solid	Total BTEX	
890-2178-80	E2-W12	Total/NA	Solid	Total BTEX	
890-2178-81	E2-W13	Total/NA	Solid	Total BTEX	
890-2178-82	E2-W14	Total/NA	Solid	Total BTEX	
890-2178-83	E2-W15	Total/NA	Solid	Total BTEX	
890-2178-84	EM-1	Total/NA	Solid	Total BTEX	
890-2178-85	EM-2	Total/NA	Solid	Total BTEX	
890-2178-86	EM-3	Total/NA	Solid	Total BTEX	
890-2178-87	EM-4	Total/NA	Solid	Total BTEX	

Eurofins Carlsbad

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

GC VOA (Continued)

Analysis Batch: 23446 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2178-88	EM-W1	Total/NA	Solid	Total BTEX	

Analysis Batch: 23476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2178-11	E2-11	Total/NA	Solid	8021B	23477
890-2178-12	E2-12	Total/NA	Solid	8021B	23477
890-2178-13	E2-13	Total/NA	Solid	8021B	23477
890-2178-14	E2-14	Total/NA	Solid	8021B	23477
890-2178-15	E2-15	Total/NA	Solid	8021B	23477
890-2178-16	E2-16	Total/NA	Solid	8021B	23477
890-2178-17	E2-17	Total/NA	Solid	8021B	23477
890-2178-18	E2-18	Total/NA	Solid	8021B	23477
890-2178-19	E2-19	Total/NA	Solid	8021B	23477
890-2178-20	E2-20	Total/NA	Solid	8021B	23477
890-2178-21	E2-21	Total/NA	Solid	8021B	23477
890-2178-22	E2-22	Total/NA	Solid	8021B	23477
890-2178-23	E2-23	Total/NA	Solid	8021B	23477
890-2178-24	E2-24	Total/NA	Solid	8021B	23477
890-2178-25	E2-25	Total/NA	Solid	8021B	23477
890-2178-26	E2-26	Total/NA	Solid	8021B	23477
890-2178-27	E2-27	Total/NA	Solid	8021B	23477
890-2178-28	E2-28	Total/NA	Solid	8021B	23477
890-2178-29	E2-29	Total/NA	Solid	8021B	23477
890-2178-30	E2-30	Total/NA	Solid	8021B	23477
890-2178-49	E2-49	Total/NA	Solid	8021B	23479
890-2178-50	E2-50	Total/NA	Solid	8021B	23479
890-2178-51	E2-51	Total/NA	Solid	8021B	23479
890-2178-52	E2-52	Total/NA	Solid	8021B	23479
890-2178-53	E2-53	Total/NA	Solid	8021B	23479
890-2178-54	E2-54	Total/NA	Solid	8021B	23479
890-2178-55	E2-55	Total/NA	Solid	8021B	23479
890-2178-56	E2-56	Total/NA	Solid	8021B	23479
890-2178-57	E2-57	Total/NA	Solid	8021B	23479
890-2178-58	E2-58	Total/NA	Solid	8021B	23479
890-2178-59	E2-59	Total/NA	Solid	8021B	23479
890-2178-60	E2-60	Total/NA	Solid	8021B	23479
890-2178-61	E2-61	Total/NA	Solid	8021B	23479
890-2178-62	E2-62	Total/NA	Solid	8021B	23479
890-2178-63	E2-63	Total/NA	Solid	8021B	23479
890-2178-64	E2-64	Total/NA	Solid	8021B	23479
890-2178-65	E2-65	Total/NA	Solid	8021B	23479
890-2178-66	E2-66	Total/NA	Solid	8021B	23479
890-2178-67	E2-67	Total/NA	Solid	8021B	23479
890-2178-68	E2-68	Total/NA	Solid	8021B	23479
MB 880-23477/5-A	Method Blank	Total/NA	Solid	8021B	23477
MB 880-23479/5-A	Method Blank	Total/NA	Solid	8021B	23479
LCS 880-23477/1-A	Lab Control Sample	Total/NA	Solid	8021B	23477
LCS 880-23479/1-A	Lab Control Sample	Total/NA	Solid	8021B	23479
LCSD 880-23477/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	23477
LCSD 880-23479/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	23479
890-2178-11 MS	E2-11	Total/NA	Solid	8021B	23477

Eurofins Carlsbad

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

GC VOA (Continued)

Analysis Batch: 23476 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2178-11 MSD	E2-11	Total/NA	Solid	8021B	23477
890-2178-49 MS	E2-49	Total/NA	Solid	8021B	23479
890-2178-49 MSD	E2-49	Total/NA	Solid	8021B	23479

Prep Batch: 23477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2178-11	E2-11	Total/NA	Solid	5035	
890-2178-12	E2-12	Total/NA	Solid	5035	
890-2178-13	E2-13	Total/NA	Solid	5035	
890-2178-14	E2-14	Total/NA	Solid	5035	
890-2178-15	E2-15	Total/NA	Solid	5035	
890-2178-16	E2-16	Total/NA	Solid	5035	
890-2178-17	E2-17	Total/NA	Solid	5035	
890-2178-18	E2-18	Total/NA	Solid	5035	
890-2178-19	E2-19	Total/NA	Solid	5035	
890-2178-20	E2-20	Total/NA	Solid	5035	
890-2178-21	E2-21	Total/NA	Solid	5035	
890-2178-22	E2-22	Total/NA	Solid	5035	
890-2178-23	E2-23	Total/NA	Solid	5035	
890-2178-24	E2-24	Total/NA	Solid	5035	
890-2178-25	E2-25	Total/NA	Solid	5035	
890-2178-26	E2-26	Total/NA	Solid	5035	
890-2178-27	E2-27	Total/NA	Solid	5035	
890-2178-28	E2-28	Total/NA	Solid	5035	
890-2178-29	E2-29	Total/NA	Solid	5035	
890-2178-30	E2-30	Total/NA	Solid	5035	
MB 880-23477/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-23477/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-23477/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2178-11 MS	E2-11	Total/NA	Solid	5035	
890-2178-11 MSD	E2-11	Total/NA	Solid	5035	

Prep Batch: 23478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2178-31	E2-31	Total/NA	Solid	5035	
890-2178-32	E2-32	Total/NA	Solid	5035	
890-2178-33	E2-33	Total/NA	Solid	5035	
890-2178-34	E2-34	Total/NA	Solid	5035	
890-2178-35	E2-35	Total/NA	Solid	5035	
890-2178-36	E2-36	Total/NA	Solid	5035	
890-2178-37	E2-37	Total/NA	Solid	5035	
890-2178-38	E2-38	Total/NA	Solid	5035	
890-2178-39	E2-39	Total/NA	Solid	5035	
890-2178-40	E2-40	Total/NA	Solid	5035	
890-2178-41	E2-41	Total/NA	Solid	5035	
890-2178-42	E2-42	Total/NA	Solid	5035	
890-2178-43	E2-43	Total/NA	Solid	5035	
890-2178-44	E2-44	Total/NA	Solid	5035	
890-2178-45	E2-45	Total/NA	Solid	5035	
890-2178-46	E2-46	Total/NA	Solid	5035	
890-2178-47	E2-47	Total/NA	Solid	5035	

Eurofins Carlsbad

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

GC VOA (Continued)

Prep Batch: 23478 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2178-48	E2-48	Total/NA	Solid	5035	
MB 880-23478/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-23478/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-23478/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 23479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2178-49	E2-49	Total/NA	Solid	5035	
890-2178-50	E2-50	Total/NA	Solid	5035	
890-2178-51	E2-51	Total/NA	Solid	5035	
890-2178-52	E2-52	Total/NA	Solid	5035	
890-2178-53	E2-53	Total/NA	Solid	5035	
890-2178-54	E2-54	Total/NA	Solid	5035	
890-2178-55	E2-55	Total/NA	Solid	5035	
890-2178-56	E2-56	Total/NA	Solid	5035	
890-2178-57	E2-57	Total/NA	Solid	5035	
890-2178-58	E2-58	Total/NA	Solid	5035	
890-2178-59	E2-59	Total/NA	Solid	5035	
890-2178-60	E2-60	Total/NA	Solid	5035	
890-2178-61	E2-61	Total/NA	Solid	5035	
890-2178-62	E2-62	Total/NA	Solid	5035	
890-2178-63	E2-63	Total/NA	Solid	5035	
890-2178-64	E2-64	Total/NA	Solid	5035	
890-2178-65	E2-65	Total/NA	Solid	5035	
890-2178-66	E2-66	Total/NA	Solid	5035	
890-2178-67	E2-67	Total/NA	Solid	5035	
890-2178-68	E2-68	Total/NA	Solid	5035	
MB 880-23479/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-23479/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-23479/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2178-49 MS	E2-49	Total/NA	Solid	5035	
890-2178-49 MSD	E2-49	Total/NA	Solid	5035	

Prep Batch: 23480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2178-69	E2-W1	Total/NA	Solid	5035	
890-2178-70	E2-W2	Total/NA	Solid	5035	
890-2178-71	E2-W3	Total/NA	Solid	5035	
890-2178-72	E2-W4	Total/NA	Solid	5035	
890-2178-73	E2-W5	Total/NA	Solid	5035	
890-2178-74	E2-W6	Total/NA	Solid	5035	
890-2178-75	E2-W7	Total/NA	Solid	5035	
890-2178-76	E2-W8	Total/NA	Solid	5035	
890-2178-77	E2-W9	Total/NA	Solid	5035	
890-2178-78	E2-W10	Total/NA	Solid	5035	
MB 880-23480/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-23480/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-23480/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2178-69 MS	E2-W1	Total/NA	Solid	5035	
890-2178-69 MSD	E2-W1	Total/NA	Solid	5035	

Eurofins Carlsbad

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

GC VOA

Analysis Batch: 23499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2178-69	E2-W1	Total/NA	Solid	8021B	23480
890-2178-70	E2-W2	Total/NA	Solid	8021B	23480
890-2178-71	E2-W3	Total/NA	Solid	8021B	23480
890-2178-72	E2-W4	Total/NA	Solid	8021B	23480
890-2178-73	E2-W5	Total/NA	Solid	8021B	23480
890-2178-74	E2-W6	Total/NA	Solid	8021B	23480
890-2178-75	E2-W7	Total/NA	Solid	8021B	23480
890-2178-76	E2-W8	Total/NA	Solid	8021B	23480
890-2178-77	E2-W9	Total/NA	Solid	8021B	23480
890-2178-78	E2-W10	Total/NA	Solid	8021B	23480
MB 880-23480/5-A	Method Blank	Total/NA	Solid	8021B	23480
MB 880-23499/8	Method Blank	Total/NA	Solid	8021B	
LCS 880-23480/1-A	Lab Control Sample	Total/NA	Solid	8021B	23480
LCSD 880-23480/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	23480
890-2178-69 MS	E2-W1	Total/NA	Solid	8021B	23480
890-2178-69 MSD	E2-W1	Total/NA	Solid	8021B	23480

Analysis Batch: 23768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2178-79	E2-W11	Total/NA	Solid	8021B	23779
890-2178-80	E2-W12	Total/NA	Solid	8021B	23779
890-2178-81	E2-W13	Total/NA	Solid	8021B	23779
890-2178-82	E2-W14	Total/NA	Solid	8021B	23779
890-2178-83	E2-W15	Total/NA	Solid	8021B	23779
890-2178-84	EM-1	Total/NA	Solid	8021B	23779
890-2178-85	EM-2	Total/NA	Solid	8021B	23779
890-2178-86	EM-3	Total/NA	Solid	8021B	23779
890-2178-87	EM-4	Total/NA	Solid	8021B	23779
890-2178-88	EM-W1	Total/NA	Solid	8021B	23779
MB 880-23779/5-A	Method Blank	Total/NA	Solid	8021B	23779
LCS 880-23779/1-A	Lab Control Sample	Total/NA	Solid	8021B	23779
LCSD 880-23779/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	23779

Prep Batch: 23779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2178-79	E2-W11	Total/NA	Solid	5035	
890-2178-80	E2-W12	Total/NA	Solid	5035	
890-2178-81	E2-W13	Total/NA	Solid	5035	
890-2178-82	E2-W14	Total/NA	Solid	5035	
890-2178-83	E2-W15	Total/NA	Solid	5035	
890-2178-84	EM-1	Total/NA	Solid	5035	
890-2178-85	EM-2	Total/NA	Solid	5035	
890-2178-86	EM-3	Total/NA	Solid	5035	
890-2178-87	EM-4	Total/NA	Solid	5035	
890-2178-88	EM-W1	Total/NA	Solid	5035	
MB 880-23779/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-23779/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-23779/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Eurofins Carlsbad

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

GC Semi VOA

Analysis Batch: 23281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2178-81	E2-W13	Total/NA	Solid	8015B NM	23312
890-2178-82	E2-W14	Total/NA	Solid	8015B NM	23312
890-2178-83	E2-W15	Total/NA	Solid	8015B NM	23312
890-2178-84	EM-1	Total/NA	Solid	8015B NM	23312
890-2178-85	EM-2	Total/NA	Solid	8015B NM	23312
890-2178-86	EM-3	Total/NA	Solid	8015B NM	23312
MB 880-23312/1-A	Method Blank	Total/NA	Solid	8015B NM	23312
LCS 880-23312/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	23312
LCSD 880-23312/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	23312

Analysis Batch: 23283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2178-87	EM-4	Total/NA	Solid	8015B NM	23313
890-2178-88	EM-W1	Total/NA	Solid	8015B NM	23313
MB 880-23313/1-A	Method Blank	Total/NA	Solid	8015B NM	23313
LCS 880-23313/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	23313
LCSD 880-23313/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	23313

Analysis Batch: 23285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2178-1	E2-1	Total/NA	Solid	8015B NM	23320
890-2178-2	E2-2	Total/NA	Solid	8015B NM	23320
890-2178-3	E2-3	Total/NA	Solid	8015B NM	23320
890-2178-4	E2-4	Total/NA	Solid	8015B NM	23320
890-2178-5	E2-5	Total/NA	Solid	8015B NM	23320
890-2178-6	E2-6	Total/NA	Solid	8015B NM	23320
890-2178-7	E2-7	Total/NA	Solid	8015B NM	23320
890-2178-8	E2-8	Total/NA	Solid	8015B NM	23320
890-2178-9	E2-9	Total/NA	Solid	8015B NM	23320
890-2178-10	E2-10	Total/NA	Solid	8015B NM	23320
890-2178-11	E2-11	Total/NA	Solid	8015B NM	23320
890-2178-12	E2-12	Total/NA	Solid	8015B NM	23320
890-2178-13	E2-13	Total/NA	Solid	8015B NM	23320
890-2178-14	E2-14	Total/NA	Solid	8015B NM	23320
890-2178-15	E2-15	Total/NA	Solid	8015B NM	23320
890-2178-16	E2-16	Total/NA	Solid	8015B NM	23320
890-2178-17	E2-17	Total/NA	Solid	8015B NM	23320
890-2178-18	E2-18	Total/NA	Solid	8015B NM	23320
890-2178-19	E2-19	Total/NA	Solid	8015B NM	23320
890-2178-20	E2-20	Total/NA	Solid	8015B NM	23320
MB 880-23320/1-A	Method Blank	Total/NA	Solid	8015B NM	23320
LCS 880-23320/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	23320
LCSD 880-23320/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	23320
890-2178-1 MS	E2-1	Total/NA	Solid	8015B NM	23320
890-2178-1 MSD	E2-1	Total/NA	Solid	8015B NM	23320

Prep Batch: 23312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2178-81	E2-W13	Total/NA	Solid	8015NM Prep	
890-2178-82	E2-W14	Total/NA	Solid	8015NM Prep	
890-2178-83	E2-W15	Total/NA	Solid	8015NM Prep	

Eurofins Carlsbad

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

GC Semi VOA (Continued)

Prep Batch: 23312 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2178-84	EM-1	Total/NA	Solid	8015NM Prep	
890-2178-85	EM-2	Total/NA	Solid	8015NM Prep	
890-2178-86	EM-3	Total/NA	Solid	8015NM Prep	
MB 880-23312/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-23312/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-23312/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 23313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2178-87	EM-4	Total/NA	Solid	8015NM Prep	
890-2178-88	EM-W1	Total/NA	Solid	8015NM Prep	
MB 880-23313/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-23313/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-23313/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 23320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2178-1	E2-1	Total/NA	Solid	8015NM Prep	
890-2178-2	E2-2	Total/NA	Solid	8015NM Prep	
890-2178-3	E2-3	Total/NA	Solid	8015NM Prep	
890-2178-4	E2-4	Total/NA	Solid	8015NM Prep	
890-2178-5	E2-5	Total/NA	Solid	8015NM Prep	
890-2178-6	E2-6	Total/NA	Solid	8015NM Prep	
890-2178-7	E2-7	Total/NA	Solid	8015NM Prep	
890-2178-8	E2-8	Total/NA	Solid	8015NM Prep	
890-2178-9	E2-9	Total/NA	Solid	8015NM Prep	
890-2178-10	E2-10	Total/NA	Solid	8015NM Prep	
890-2178-11	E2-11	Total/NA	Solid	8015NM Prep	
890-2178-12	E2-12	Total/NA	Solid	8015NM Prep	
890-2178-13	E2-13	Total/NA	Solid	8015NM Prep	
890-2178-14	E2-14	Total/NA	Solid	8015NM Prep	
890-2178-15	E2-15	Total/NA	Solid	8015NM Prep	
890-2178-16	E2-16	Total/NA	Solid	8015NM Prep	
890-2178-17	E2-17	Total/NA	Solid	8015NM Prep	
890-2178-18	E2-18	Total/NA	Solid	8015NM Prep	
890-2178-19	E2-19	Total/NA	Solid	8015NM Prep	
890-2178-20	E2-20	Total/NA	Solid	8015NM Prep	
MB 880-23320/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-23320/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-23320/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2178-1 MS	E2-1	Total/NA	Solid	8015NM Prep	
890-2178-1 MSD	E2-1	Total/NA	Solid	8015NM Prep	

Prep Batch: 23321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2178-21	E2-21	Total/NA	Solid	8015NM Prep	
890-2178-22	E2-22	Total/NA	Solid	8015NM Prep	
890-2178-23	E2-23	Total/NA	Solid	8015NM Prep	
890-2178-24	E2-24	Total/NA	Solid	8015NM Prep	
890-2178-25	E2-25	Total/NA	Solid	8015NM Prep	
890-2178-26	E2-26	Total/NA	Solid	8015NM Prep	

Eurofins Carlsbad

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

GC Semi VOA (Continued)

Prep Batch: 23321 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2178-27	E2-27	Total/NA	Solid	8015NM Prep	
890-2178-28	E2-28	Total/NA	Solid	8015NM Prep	
890-2178-29	E2-29	Total/NA	Solid	8015NM Prep	
890-2178-30	E2-30	Total/NA	Solid	8015NM Prep	
890-2178-31	E2-31	Total/NA	Solid	8015NM Prep	
890-2178-32	E2-32	Total/NA	Solid	8015NM Prep	
890-2178-33	E2-33	Total/NA	Solid	8015NM Prep	
890-2178-34	E2-34	Total/NA	Solid	8015NM Prep	
890-2178-35	E2-35	Total/NA	Solid	8015NM Prep	
890-2178-36	E2-36	Total/NA	Solid	8015NM Prep	
890-2178-37	E2-37	Total/NA	Solid	8015NM Prep	
890-2178-38	E2-38	Total/NA	Solid	8015NM Prep	
890-2178-39	E2-39	Total/NA	Solid	8015NM Prep	
890-2178-40	E2-40	Total/NA	Solid	8015NM Prep	
MB 880-23321/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-23321/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-23321/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2178-21 MS	E2-21	Total/NA	Solid	8015NM Prep	
890-2178-21 MSD	E2-21	Total/NA	Solid	8015NM Prep	

Prep Batch: 23324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2178-41	E2-41	Total/NA	Solid	8015NM Prep	
890-2178-42	E2-42	Total/NA	Solid	8015NM Prep	
890-2178-43	E2-43	Total/NA	Solid	8015NM Prep	
890-2178-44	E2-44	Total/NA	Solid	8015NM Prep	
890-2178-45	E2-45	Total/NA	Solid	8015NM Prep	
890-2178-46	E2-46	Total/NA	Solid	8015NM Prep	
890-2178-47	E2-47	Total/NA	Solid	8015NM Prep	
890-2178-48	E2-48	Total/NA	Solid	8015NM Prep	
890-2178-49	E2-49	Total/NA	Solid	8015NM Prep	
890-2178-50	E2-50	Total/NA	Solid	8015NM Prep	
890-2178-51	E2-51	Total/NA	Solid	8015NM Prep	
890-2178-52	E2-52	Total/NA	Solid	8015NM Prep	
890-2178-53	E2-53	Total/NA	Solid	8015NM Prep	
890-2178-54	E2-54	Total/NA	Solid	8015NM Prep	
890-2178-55	E2-55	Total/NA	Solid	8015NM Prep	
890-2178-56	E2-56	Total/NA	Solid	8015NM Prep	
890-2178-57	E2-57	Total/NA	Solid	8015NM Prep	
890-2178-58	E2-58	Total/NA	Solid	8015NM Prep	
890-2178-59	E2-59	Total/NA	Solid	8015NM Prep	
890-2178-60	E2-60	Total/NA	Solid	8015NM Prep	
MB 880-23324/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-23324/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-23324/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2178-41 MS	E2-41	Total/NA	Solid	8015NM Prep	
890-2178-41 MSD	E2-41	Total/NA	Solid	8015NM Prep	

Prep Batch: 23325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2178-61	E2-61	Total/NA	Solid	8015NM Prep	

Eurofins Carlsbad

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

GC Semi VOA (Continued)

Prep Batch: 23325 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2178-62	E2-62	Total/NA	Solid	8015NM Prep	
890-2178-63	E2-63	Total/NA	Solid	8015NM Prep	
890-2178-64	E2-64	Total/NA	Solid	8015NM Prep	
890-2178-65	E2-65	Total/NA	Solid	8015NM Prep	
890-2178-66	E2-66	Total/NA	Solid	8015NM Prep	
890-2178-67	E2-67	Total/NA	Solid	8015NM Prep	
890-2178-68	E2-68	Total/NA	Solid	8015NM Prep	
890-2178-69	E2-W1	Total/NA	Solid	8015NM Prep	
890-2178-70	E2-W2	Total/NA	Solid	8015NM Prep	
890-2178-71	E2-W3	Total/NA	Solid	8015NM Prep	
890-2178-72	E2-W4	Total/NA	Solid	8015NM Prep	
890-2178-73	E2-W5	Total/NA	Solid	8015NM Prep	
890-2178-74	E2-W6	Total/NA	Solid	8015NM Prep	
890-2178-75	E2-W7	Total/NA	Solid	8015NM Prep	
890-2178-76	E2-W8	Total/NA	Solid	8015NM Prep	
890-2178-77	E2-W9	Total/NA	Solid	8015NM Prep	
890-2178-78	E2-W10	Total/NA	Solid	8015NM Prep	
890-2178-79	E2-W11	Total/NA	Solid	8015NM Prep	
890-2178-80	E2-W12	Total/NA	Solid	8015NM Prep	
MB 880-23325/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-23325/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-23325/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2178-61 MS	E2-61	Total/NA	Solid	8015NM Prep	
890-2178-61 MSD	E2-61	Total/NA	Solid	8015NM Prep	

Analysis Batch: 23357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2178-61	E2-61	Total/NA	Solid	8015B NM	23325
890-2178-62	E2-62	Total/NA	Solid	8015B NM	23325
890-2178-63	E2-63	Total/NA	Solid	8015B NM	23325
890-2178-64	E2-64	Total/NA	Solid	8015B NM	23325
890-2178-65	E2-65	Total/NA	Solid	8015B NM	23325
890-2178-66	E2-66	Total/NA	Solid	8015B NM	23325
890-2178-67	E2-67	Total/NA	Solid	8015B NM	23325
890-2178-68	E2-68	Total/NA	Solid	8015B NM	23325
890-2178-69	E2-W1	Total/NA	Solid	8015B NM	23325
890-2178-70	E2-W2	Total/NA	Solid	8015B NM	23325
890-2178-71	E2-W3	Total/NA	Solid	8015B NM	23325
890-2178-72	E2-W4	Total/NA	Solid	8015B NM	23325
890-2178-73	E2-W5	Total/NA	Solid	8015B NM	23325
890-2178-74	E2-W6	Total/NA	Solid	8015B NM	23325
890-2178-75	E2-W7	Total/NA	Solid	8015B NM	23325
890-2178-76	E2-W8	Total/NA	Solid	8015B NM	23325
890-2178-77	E2-W9	Total/NA	Solid	8015B NM	23325
890-2178-78	E2-W10	Total/NA	Solid	8015B NM	23325
890-2178-79	E2-W11	Total/NA	Solid	8015B NM	23325
890-2178-80	E2-W12	Total/NA	Solid	8015B NM	23325
MB 880-23325/1-A	Method Blank	Total/NA	Solid	8015B NM	23325
LCS 880-23325/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	23325
LCSD 880-23325/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	23325
890-2178-61 MS	E2-61	Total/NA	Solid	8015B NM	23325

Eurofins Carlsbad

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

GC Semi VOA (Continued)

Analysis Batch: 23357 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2178-61 MSD	E2-61	Total/NA	Solid	8015B NM	23325

Analysis Batch: 23359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2178-41	E2-41	Total/NA	Solid	8015B NM	23324
890-2178-42	E2-42	Total/NA	Solid	8015B NM	23324
890-2178-43	E2-43	Total/NA	Solid	8015B NM	23324
890-2178-44	E2-44	Total/NA	Solid	8015B NM	23324
890-2178-45	E2-45	Total/NA	Solid	8015B NM	23324
890-2178-46	E2-46	Total/NA	Solid	8015B NM	23324
890-2178-47	E2-47	Total/NA	Solid	8015B NM	23324
890-2178-48	E2-48	Total/NA	Solid	8015B NM	23324
890-2178-49	E2-49	Total/NA	Solid	8015B NM	23324
890-2178-50	E2-50	Total/NA	Solid	8015B NM	23324
890-2178-51	E2-51	Total/NA	Solid	8015B NM	23324
890-2178-52	E2-52	Total/NA	Solid	8015B NM	23324
890-2178-53	E2-53	Total/NA	Solid	8015B NM	23324
890-2178-54	E2-54	Total/NA	Solid	8015B NM	23324
890-2178-55	E2-55	Total/NA	Solid	8015B NM	23324
890-2178-56	E2-56	Total/NA	Solid	8015B NM	23324
890-2178-57	E2-57	Total/NA	Solid	8015B NM	23324
890-2178-58	E2-58	Total/NA	Solid	8015B NM	23324
890-2178-59	E2-59	Total/NA	Solid	8015B NM	23324
890-2178-60	E2-60	Total/NA	Solid	8015B NM	23324
MB 880-23324/1-A	Method Blank	Total/NA	Solid	8015B NM	23324
LCS 880-23324/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	23324
LCSD 880-23324/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	23324
890-2178-41 MS	E2-41	Total/NA	Solid	8015B NM	23324
890-2178-41 MSD	E2-41	Total/NA	Solid	8015B NM	23324

Analysis Batch: 23361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2178-21	E2-21	Total/NA	Solid	8015B NM	23321
890-2178-22	E2-22	Total/NA	Solid	8015B NM	23321
890-2178-23	E2-23	Total/NA	Solid	8015B NM	23321
890-2178-24	E2-24	Total/NA	Solid	8015B NM	23321
890-2178-25	E2-25	Total/NA	Solid	8015B NM	23321
890-2178-26	E2-26	Total/NA	Solid	8015B NM	23321
890-2178-27	E2-27	Total/NA	Solid	8015B NM	23321
890-2178-28	E2-28	Total/NA	Solid	8015B NM	23321
890-2178-29	E2-29	Total/NA	Solid	8015B NM	23321
890-2178-30	E2-30	Total/NA	Solid	8015B NM	23321
890-2178-31	E2-31	Total/NA	Solid	8015B NM	23321
890-2178-32	E2-32	Total/NA	Solid	8015B NM	23321
890-2178-33	E2-33	Total/NA	Solid	8015B NM	23321
890-2178-34	E2-34	Total/NA	Solid	8015B NM	23321
890-2178-35	E2-35	Total/NA	Solid	8015B NM	23321
890-2178-36	E2-36	Total/NA	Solid	8015B NM	23321
890-2178-37	E2-37	Total/NA	Solid	8015B NM	23321
890-2178-38	E2-38	Total/NA	Solid	8015B NM	23321
890-2178-39	E2-39	Total/NA	Solid	8015B NM	23321

Eurofins Carlsbad

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

GC Semi VOA (Continued)

Analysis Batch: 23361 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2178-40	E2-40	Total/NA	Solid	8015B NM	23321
MB 880-23321/1-A	Method Blank	Total/NA	Solid	8015B NM	23321
LCS 880-23321/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	23321
LCSD 880-23321/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	23321
890-2178-21 MS	E2-21	Total/NA	Solid	8015B NM	23321
890-2178-21 MSD	E2-21	Total/NA	Solid	8015B NM	23321

Analysis Batch: 23373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2178-1	E2-1	Total/NA	Solid	8015 NM	
890-2178-2	E2-2	Total/NA	Solid	8015 NM	
890-2178-3	E2-3	Total/NA	Solid	8015 NM	
890-2178-4	E2-4	Total/NA	Solid	8015 NM	
890-2178-5	E2-5	Total/NA	Solid	8015 NM	
890-2178-6	E2-6	Total/NA	Solid	8015 NM	
890-2178-7	E2-7	Total/NA	Solid	8015 NM	
890-2178-8	E2-8	Total/NA	Solid	8015 NM	
890-2178-9	E2-9	Total/NA	Solid	8015 NM	
890-2178-10	E2-10	Total/NA	Solid	8015 NM	
890-2178-11	E2-11	Total/NA	Solid	8015 NM	
890-2178-12	E2-12	Total/NA	Solid	8015 NM	
890-2178-13	E2-13	Total/NA	Solid	8015 NM	
890-2178-14	E2-14	Total/NA	Solid	8015 NM	
890-2178-15	E2-15	Total/NA	Solid	8015 NM	
890-2178-16	E2-16	Total/NA	Solid	8015 NM	
890-2178-17	E2-17	Total/NA	Solid	8015 NM	
890-2178-18	E2-18	Total/NA	Solid	8015 NM	
890-2178-19	E2-19	Total/NA	Solid	8015 NM	
890-2178-20	E2-20	Total/NA	Solid	8015 NM	
890-2178-21	E2-21	Total/NA	Solid	8015 NM	
890-2178-22	E2-22	Total/NA	Solid	8015 NM	
890-2178-23	E2-23	Total/NA	Solid	8015 NM	
890-2178-24	E2-24	Total/NA	Solid	8015 NM	
890-2178-25	E2-25	Total/NA	Solid	8015 NM	
890-2178-26	E2-26	Total/NA	Solid	8015 NM	
890-2178-27	E2-27	Total/NA	Solid	8015 NM	
890-2178-28	E2-28	Total/NA	Solid	8015 NM	
890-2178-29	E2-29	Total/NA	Solid	8015 NM	
890-2178-30	E2-30	Total/NA	Solid	8015 NM	
890-2178-31	E2-31	Total/NA	Solid	8015 NM	
890-2178-32	E2-32	Total/NA	Solid	8015 NM	
890-2178-33	E2-33	Total/NA	Solid	8015 NM	
890-2178-34	E2-34	Total/NA	Solid	8015 NM	
890-2178-35	E2-35	Total/NA	Solid	8015 NM	
890-2178-36	E2-36	Total/NA	Solid	8015 NM	
890-2178-37	E2-37	Total/NA	Solid	8015 NM	
890-2178-38	E2-38	Total/NA	Solid	8015 NM	
890-2178-39	E2-39	Total/NA	Solid	8015 NM	
890-2178-40	E2-40	Total/NA	Solid	8015 NM	
890-2178-41	E2-41	Total/NA	Solid	8015 NM	
890-2178-42	E2-42	Total/NA	Solid	8015 NM	

Eurofins Carlsbad

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

GC Semi VOA (Continued)

Analysis Batch: 23373 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2178-43	E2-43	Total/NA	Solid	8015 NM	
890-2178-44	E2-44	Total/NA	Solid	8015 NM	
890-2178-45	E2-45	Total/NA	Solid	8015 NM	
890-2178-46	E2-46	Total/NA	Solid	8015 NM	
890-2178-47	E2-47	Total/NA	Solid	8015 NM	
890-2178-48	E2-48	Total/NA	Solid	8015 NM	
890-2178-49	E2-49	Total/NA	Solid	8015 NM	
890-2178-50	E2-50	Total/NA	Solid	8015 NM	
890-2178-51	E2-51	Total/NA	Solid	8015 NM	
890-2178-52	E2-52	Total/NA	Solid	8015 NM	
890-2178-53	E2-53	Total/NA	Solid	8015 NM	
890-2178-54	E2-54	Total/NA	Solid	8015 NM	
890-2178-55	E2-55	Total/NA	Solid	8015 NM	
890-2178-56	E2-56	Total/NA	Solid	8015 NM	
890-2178-57	E2-57	Total/NA	Solid	8015 NM	
890-2178-58	E2-58	Total/NA	Solid	8015 NM	
890-2178-59	E2-59	Total/NA	Solid	8015 NM	
890-2178-60	E2-60	Total/NA	Solid	8015 NM	
890-2178-61	E2-61	Total/NA	Solid	8015 NM	
890-2178-62	E2-62	Total/NA	Solid	8015 NM	
890-2178-63	E2-63	Total/NA	Solid	8015 NM	
890-2178-64	E2-64	Total/NA	Solid	8015 NM	
890-2178-65	E2-65	Total/NA	Solid	8015 NM	
890-2178-66	E2-66	Total/NA	Solid	8015 NM	
890-2178-67	E2-67	Total/NA	Solid	8015 NM	
890-2178-68	E2-68	Total/NA	Solid	8015 NM	
890-2178-69	E2-W1	Total/NA	Solid	8015 NM	
890-2178-70	E2-W2	Total/NA	Solid	8015 NM	
890-2178-71	E2-W3	Total/NA	Solid	8015 NM	
890-2178-72	E2-W4	Total/NA	Solid	8015 NM	
890-2178-73	E2-W5	Total/NA	Solid	8015 NM	
890-2178-74	E2-W6	Total/NA	Solid	8015 NM	
890-2178-75	E2-W7	Total/NA	Solid	8015 NM	
890-2178-76	E2-W8	Total/NA	Solid	8015 NM	
890-2178-77	E2-W9	Total/NA	Solid	8015 NM	
890-2178-78	E2-W10	Total/NA	Solid	8015 NM	
890-2178-79	E2-W11	Total/NA	Solid	8015 NM	
890-2178-80	E2-W12	Total/NA	Solid	8015 NM	
890-2178-81	E2-W13	Total/NA	Solid	8015 NM	
890-2178-82	E2-W14	Total/NA	Solid	8015 NM	
890-2178-83	E2-W15	Total/NA	Solid	8015 NM	
890-2178-84	EM-1	Total/NA	Solid	8015 NM	
890-2178-85	EM-2	Total/NA	Solid	8015 NM	
890-2178-86	EM-3	Total/NA	Solid	8015 NM	
890-2178-87	EM-4	Total/NA	Solid	8015 NM	
890-2178-88	EM-W1	Total/NA	Solid	8015 NM	

Eurofins Carlsbad

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

HPLC/IC

Leach Batch: 23374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2178-1	E2-1	Soluble	Solid	DI Leach	
890-2178-2	E2-2	Soluble	Solid	DI Leach	
890-2178-3	E2-3	Soluble	Solid	DI Leach	
890-2178-4	E2-4	Soluble	Solid	DI Leach	
890-2178-5	E2-5	Soluble	Solid	DI Leach	
890-2178-6	E2-6	Soluble	Solid	DI Leach	
890-2178-7	E2-7	Soluble	Solid	DI Leach	
890-2178-8	E2-8	Soluble	Solid	DI Leach	
890-2178-9	E2-9	Soluble	Solid	DI Leach	
890-2178-10	E2-10	Soluble	Solid	DI Leach	
890-2178-11	E2-11	Soluble	Solid	DI Leach	
890-2178-12	E2-12	Soluble	Solid	DI Leach	
890-2178-13	E2-13	Soluble	Solid	DI Leach	
890-2178-14	E2-14	Soluble	Solid	DI Leach	
890-2178-15	E2-15	Soluble	Solid	DI Leach	
890-2178-16	E2-16	Soluble	Solid	DI Leach	
890-2178-17	E2-17	Soluble	Solid	DI Leach	
890-2178-18	E2-18	Soluble	Solid	DI Leach	
MB 880-23374/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-23374/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-23374/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2178-9 MS	E2-9	Soluble	Solid	DI Leach	
890-2178-9 MSD	E2-9	Soluble	Solid	DI Leach	

Leach Batch: 23375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2178-19	E2-19	Soluble	Solid	DI Leach	
890-2178-20	E2-20	Soluble	Solid	DI Leach	
890-2178-21	E2-21	Soluble	Solid	DI Leach	
890-2178-22	E2-22	Soluble	Solid	DI Leach	
890-2178-23	E2-23	Soluble	Solid	DI Leach	
890-2178-24	E2-24	Soluble	Solid	DI Leach	
890-2178-25	E2-25	Soluble	Solid	DI Leach	
890-2178-26	E2-26	Soluble	Solid	DI Leach	
890-2178-27	E2-27	Soluble	Solid	DI Leach	
890-2178-28	E2-28	Soluble	Solid	DI Leach	
890-2178-29	E2-29	Soluble	Solid	DI Leach	
890-2178-30	E2-30	Soluble	Solid	DI Leach	
890-2178-31	E2-31	Soluble	Solid	DI Leach	
890-2178-32	E2-32	Soluble	Solid	DI Leach	
890-2178-33	E2-33	Soluble	Solid	DI Leach	
890-2178-34	E2-34	Soluble	Solid	DI Leach	
890-2178-35	E2-35	Soluble	Solid	DI Leach	
890-2178-36	E2-36	Soluble	Solid	DI Leach	
890-2178-37	E2-37	Soluble	Solid	DI Leach	
890-2178-38	E2-38	Soluble	Solid	DI Leach	
MB 880-23375/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-23375/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-23375/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2178-19 MS	E2-19	Soluble	Solid	DI Leach	
890-2178-19 MSD	E2-19	Soluble	Solid	DI Leach	

Eurofins Carlsbad

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

HPLC/IC (Continued)

Leach Batch: 23375 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2178-29 MS	E2-29	Soluble	Solid	DI Leach	
890-2178-29 MSD	E2-29	Soluble	Solid	DI Leach	

Leach Batch: 23376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2178-39	E2-39	Soluble	Solid	DI Leach	
890-2178-40	E2-40	Soluble	Solid	DI Leach	
890-2178-41	E2-41	Soluble	Solid	DI Leach	
890-2178-42	E2-42	Soluble	Solid	DI Leach	
890-2178-43	E2-43	Soluble	Solid	DI Leach	
890-2178-44	E2-44	Soluble	Solid	DI Leach	
890-2178-45	E2-45	Soluble	Solid	DI Leach	
890-2178-46	E2-46	Soluble	Solid	DI Leach	
890-2178-47	E2-47	Soluble	Solid	DI Leach	
890-2178-48	E2-48	Soluble	Solid	DI Leach	
890-2178-49	E2-49	Soluble	Solid	DI Leach	
890-2178-50	E2-50	Soluble	Solid	DI Leach	
890-2178-51	E2-51	Soluble	Solid	DI Leach	
890-2178-52	E2-52	Soluble	Solid	DI Leach	
890-2178-53	E2-53	Soluble	Solid	DI Leach	
890-2178-54	E2-54	Soluble	Solid	DI Leach	
890-2178-55	E2-55	Soluble	Solid	DI Leach	
890-2178-56	E2-56	Soluble	Solid	DI Leach	
890-2178-57	E2-57	Soluble	Solid	DI Leach	
890-2178-58	E2-58	Soluble	Solid	DI Leach	
MB 880-23376/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-23376/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-23376/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2178-39 MS	E2-39	Soluble	Solid	DI Leach	
890-2178-39 MSD	E2-39	Soluble	Solid	DI Leach	
890-2178-49 MS	E2-49	Soluble	Solid	DI Leach	
890-2178-49 MSD	E2-49	Soluble	Solid	DI Leach	

Leach Batch: 23377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2178-59	E2-59	Soluble	Solid	DI Leach	
890-2178-60	E2-60	Soluble	Solid	DI Leach	
890-2178-61	E2-61	Soluble	Solid	DI Leach	
890-2178-62	E2-62	Soluble	Solid	DI Leach	
890-2178-63	E2-63	Soluble	Solid	DI Leach	
890-2178-64	E2-64	Soluble	Solid	DI Leach	
890-2178-65	E2-65	Soluble	Solid	DI Leach	
890-2178-66	E2-66	Soluble	Solid	DI Leach	
890-2178-67	E2-67	Soluble	Solid	DI Leach	
890-2178-68	E2-68	Soluble	Solid	DI Leach	
890-2178-69	E2-W1	Soluble	Solid	DI Leach	
890-2178-70	E2-W2	Soluble	Solid	DI Leach	
890-2178-71	E2-W3	Soluble	Solid	DI Leach	
890-2178-72	E2-W4	Soluble	Solid	DI Leach	
890-2178-73	E2-W5	Soluble	Solid	DI Leach	
890-2178-74	E2-W6	Soluble	Solid	DI Leach	

Eurofins Carlsbad

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

HPLC/IC (Continued)

Leach Batch: 23377 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2178-75	E2-W7	Soluble	Solid	DI Leach	
890-2178-76	E2-W8	Soluble	Solid	DI Leach	
890-2178-77	E2-W9	Soluble	Solid	DI Leach	
890-2178-78	E2-W10	Soluble	Solid	DI Leach	
MB 880-23377/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-23377/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-23377/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2178-59 MS	E2-59	Soluble	Solid	DI Leach	
890-2178-59 MSD	E2-59	Soluble	Solid	DI Leach	
890-2178-69 MS	E2-W1	Soluble	Solid	DI Leach	
890-2178-69 MSD	E2-W1	Soluble	Solid	DI Leach	

Leach Batch: 23378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2178-79	E2-W11	Soluble	Solid	DI Leach	
890-2178-80	E2-W12	Soluble	Solid	DI Leach	
890-2178-81	E2-W13	Soluble	Solid	DI Leach	
890-2178-82	E2-W14	Soluble	Solid	DI Leach	
890-2178-83	E2-W15	Soluble	Solid	DI Leach	
890-2178-84	EM-1	Soluble	Solid	DI Leach	
890-2178-85	EM-2	Soluble	Solid	DI Leach	
890-2178-86	EM-3	Soluble	Solid	DI Leach	
890-2178-87	EM-4	Soluble	Solid	DI Leach	
890-2178-88	EM-W1	Soluble	Solid	DI Leach	
MB 880-23378/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-23378/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-23378/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2178-79 MS	E2-W11	Soluble	Solid	DI Leach	
890-2178-79 MSD	E2-W11	Soluble	Solid	DI Leach	

Analysis Batch: 23559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2178-1	E2-1	Soluble	Solid	300.0	23374
890-2178-2	E2-2	Soluble	Solid	300.0	23374
890-2178-3	E2-3	Soluble	Solid	300.0	23374
890-2178-4	E2-4	Soluble	Solid	300.0	23374
890-2178-5	E2-5	Soluble	Solid	300.0	23374
890-2178-6	E2-6	Soluble	Solid	300.0	23374
890-2178-7	E2-7	Soluble	Solid	300.0	23374
890-2178-8	E2-8	Soluble	Solid	300.0	23374
890-2178-9	E2-9	Soluble	Solid	300.0	23374
890-2178-10	E2-10	Soluble	Solid	300.0	23374
890-2178-11	E2-11	Soluble	Solid	300.0	23374
890-2178-12	E2-12	Soluble	Solid	300.0	23374
890-2178-13	E2-13	Soluble	Solid	300.0	23374
890-2178-14	E2-14	Soluble	Solid	300.0	23374
890-2178-15	E2-15	Soluble	Solid	300.0	23374
890-2178-16	E2-16	Soluble	Solid	300.0	23374
890-2178-17	E2-17	Soluble	Solid	300.0	23374
890-2178-18	E2-18	Soluble	Solid	300.0	23374
MB 880-23374/1-A	Method Blank	Soluble	Solid	300.0	23374

Eurofins Carlsbad

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

HPLC/IC (Continued)

Analysis Batch: 23559 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-23374/2-A	Lab Control Sample	Soluble	Solid	300.0	23374
LCSD 880-23374/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	23374
890-2178-9 MS	E2-9	Soluble	Solid	300.0	23374
890-2178-9 MSD	E2-9	Soluble	Solid	300.0	23374

Analysis Batch: 23560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2178-19	E2-19	Soluble	Solid	300.0	23375
890-2178-20	E2-20	Soluble	Solid	300.0	23375
890-2178-21	E2-21	Soluble	Solid	300.0	23375
890-2178-22	E2-22	Soluble	Solid	300.0	23375
890-2178-23	E2-23	Soluble	Solid	300.0	23375
890-2178-24	E2-24	Soluble	Solid	300.0	23375
890-2178-25	E2-25	Soluble	Solid	300.0	23375
890-2178-26	E2-26	Soluble	Solid	300.0	23375
890-2178-27	E2-27	Soluble	Solid	300.0	23375
890-2178-28	E2-28	Soluble	Solid	300.0	23375
890-2178-29	E2-29	Soluble	Solid	300.0	23375
890-2178-30	E2-30	Soluble	Solid	300.0	23375
890-2178-31	E2-31	Soluble	Solid	300.0	23375
890-2178-32	E2-32	Soluble	Solid	300.0	23375
890-2178-33	E2-33	Soluble	Solid	300.0	23375
890-2178-34	E2-34	Soluble	Solid	300.0	23375
890-2178-35	E2-35	Soluble	Solid	300.0	23375
890-2178-36	E2-36	Soluble	Solid	300.0	23375
890-2178-37	E2-37	Soluble	Solid	300.0	23375
890-2178-38	E2-38	Soluble	Solid	300.0	23375
MB 880-23375/1-A	Method Blank	Soluble	Solid	300.0	23375
LCS 880-23375/2-A	Lab Control Sample	Soluble	Solid	300.0	23375
LCSD 880-23375/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	23375
890-2178-19 MS	E2-19	Soluble	Solid	300.0	23375
890-2178-19 MSD	E2-19	Soluble	Solid	300.0	23375
890-2178-29 MS	E2-29	Soluble	Solid	300.0	23375
890-2178-29 MSD	E2-29	Soluble	Solid	300.0	23375

Analysis Batch: 23602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2178-39	E2-39	Soluble	Solid	300.0	23376
890-2178-40	E2-40	Soluble	Solid	300.0	23376
890-2178-41	E2-41	Soluble	Solid	300.0	23376
890-2178-42	E2-42	Soluble	Solid	300.0	23376
890-2178-43	E2-43	Soluble	Solid	300.0	23376
890-2178-44	E2-44	Soluble	Solid	300.0	23376
890-2178-45	E2-45	Soluble	Solid	300.0	23376
890-2178-46	E2-46	Soluble	Solid	300.0	23376
890-2178-47	E2-47	Soluble	Solid	300.0	23376
890-2178-48	E2-48	Soluble	Solid	300.0	23376
890-2178-49	E2-49	Soluble	Solid	300.0	23376
890-2178-50	E2-50	Soluble	Solid	300.0	23376
890-2178-51	E2-51	Soluble	Solid	300.0	23376
890-2178-52	E2-52	Soluble	Solid	300.0	23376

Eurofins Carlsbad

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

HPLC/IC (Continued)

Analysis Batch: 23602 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2178-53	E2-53	Soluble	Solid	300.0	23376
890-2178-54	E2-54	Soluble	Solid	300.0	23376
890-2178-55	E2-55	Soluble	Solid	300.0	23376
890-2178-56	E2-56	Soluble	Solid	300.0	23376
890-2178-57	E2-57	Soluble	Solid	300.0	23376
890-2178-58	E2-58	Soluble	Solid	300.0	23376
MB 880-23376/1-A	Method Blank	Soluble	Solid	300.0	23376
LCS 880-23376/2-A	Lab Control Sample	Soluble	Solid	300.0	23376
LCSD 880-23376/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	23376
890-2178-39 MS	E2-39	Soluble	Solid	300.0	23376
890-2178-39 MSD	E2-39	Soluble	Solid	300.0	23376
890-2178-49 MS	E2-49	Soluble	Solid	300.0	23376
890-2178-49 MSD	E2-49	Soluble	Solid	300.0	23376

Analysis Batch: 23603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2178-59	E2-59	Soluble	Solid	300.0	23377
890-2178-60	E2-60	Soluble	Solid	300.0	23377
890-2178-61	E2-61	Soluble	Solid	300.0	23377
890-2178-62	E2-62	Soluble	Solid	300.0	23377
890-2178-63	E2-63	Soluble	Solid	300.0	23377
890-2178-64	E2-64	Soluble	Solid	300.0	23377
890-2178-65	E2-65	Soluble	Solid	300.0	23377
890-2178-66	E2-66	Soluble	Solid	300.0	23377
890-2178-67	E2-67	Soluble	Solid	300.0	23377
890-2178-68	E2-68	Soluble	Solid	300.0	23377
890-2178-69	E2-W1	Soluble	Solid	300.0	23377
890-2178-70	E2-W2	Soluble	Solid	300.0	23377
890-2178-71	E2-W3	Soluble	Solid	300.0	23377
890-2178-72	E2-W4	Soluble	Solid	300.0	23377
890-2178-73	E2-W5	Soluble	Solid	300.0	23377
890-2178-74	E2-W6	Soluble	Solid	300.0	23377
890-2178-75	E2-W7	Soluble	Solid	300.0	23377
890-2178-76	E2-W8	Soluble	Solid	300.0	23377
890-2178-77	E2-W9	Soluble	Solid	300.0	23377
890-2178-78	E2-W10	Soluble	Solid	300.0	23377
MB 880-23377/1-A	Method Blank	Soluble	Solid	300.0	23377
LCS 880-23377/2-A	Lab Control Sample	Soluble	Solid	300.0	23377
LCSD 880-23377/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	23377
890-2178-59 MS	E2-59	Soluble	Solid	300.0	23377
890-2178-59 MSD	E2-59	Soluble	Solid	300.0	23377
890-2178-69 MS	E2-W1	Soluble	Solid	300.0	23377
890-2178-69 MSD	E2-W1	Soluble	Solid	300.0	23377

Analysis Batch: 23604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2178-79	E2-W11	Soluble	Solid	300.0	23378
890-2178-80	E2-W12	Soluble	Solid	300.0	23378
890-2178-81	E2-W13	Soluble	Solid	300.0	23378
890-2178-82	E2-W14	Soluble	Solid	300.0	23378
890-2178-83	E2-W15	Soluble	Solid	300.0	23378

Eurofins Carlsbad

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

HPLC/IC (Continued)

Analysis Batch: 23604 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2178-84	EM-1	Soluble	Solid	300.0	23378
890-2178-85	EM-2	Soluble	Solid	300.0	23378
890-2178-86	EM-3	Soluble	Solid	300.0	23378
890-2178-87	EM-4	Soluble	Solid	300.0	23378
890-2178-88	EM-W1	Soluble	Solid	300.0	23378
MB 880-23378/1-A	Method Blank	Soluble	Solid	300.0	23378
LCS 880-23378/2-A	Lab Control Sample	Soluble	Solid	300.0	23378
LCSD 880-23378/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	23378
890-2178-79 MS	E2-W11	Soluble	Solid	300.0	23378
890-2178-79 MSD	E2-W11	Soluble	Solid	300.0	23378

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E1-A

Lab Sample ID: 890-1A28-A

Date Collected: 04/09/21 02:xx

7 attributes: SoliM

Date / ecei3eM: 04/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			4.99 g	5 mL	23398	04/12/22 14:39	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23364	04/12/22 22:20	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23320	04/11/22 16:37	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23285	04/11/22 21:05	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	23374	04/12/22 10:58	SC	XEN MID
Soluble	Analysis	300.0		1			23559	04/14/22 23:34	CH	XEN MID

Client Sample ID: E1-1

Lab Sample ID: 890-1A28-1

Date Collected: 04/09/21 02:xx

7 attributes: SoliM

Date / ecei3eM: 04/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			5.01 g	5 mL	23398	04/12/22 14:39	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23364	04/12/22 22:41	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23320	04/11/22 16:37	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23285	04/11/22 22:07	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	23374	04/12/22 10:58	SC	XEN MID
Soluble	Analysis	300.0		1			23559	04/14/22 23:40	CH	XEN MID

Client Sample ID: E1-4

Lab Sample ID: 890-1A28-4

Date Collected: 04/09/21 02:xx

7 attributes: SoliM

Date / ecei3eM: 04/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			5.01 g	5 mL	23398	04/12/22 14:39	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23364	04/12/22 23:01	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	23320	04/11/22 16:37	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23285	04/11/22 22:27	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	23374	04/12/22 10:58	SC	XEN MID
Soluble	Analysis	300.0		1			23559	04/14/22 23:46	CH	XEN MID

Client Sample ID: E1-x

Lab Sample ID: 890-1A28-x

Date Collected: 04/09/21 02:xx

7 attributes: SoliM

Date / ecei3eM: 04/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			5.02 g	5 mL	23398	04/12/22 14:39	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23364	04/12/22 23:22	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E1-x

Lab Sample ID: 890-1A28-x

Date Collected: 04/09/22 02:08

7 attributes: SoliM

Date / ecei3eM: 04/09/22 08:00

yrep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	zinal Bmosnt	Tatch Fsmber	yrepareM or BnalvueM	BnalvPt	Lab
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	23320	04/11/22 16:37	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23285	04/11/22 22:48	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	23374	04/12/22 10:58	SC	XEN MID
Soluble	Analysis	300.0		1			23559	04/15/22 00:05	CH	XEN MID

Client Sample ID: E1-5

Lab Sample ID: 890-1A28-5

Date Collected: 04/09/22 02:5A

7 attributes: SoliM

Date / ecei3eM: 04/09/22 08:00

yrep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	zinal Bmosnt	Tatch Fsmber	yrepareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			4.99 g	5 mL	23398	04/12/22 14:39	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23364	04/12/22 23:42	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	23320	04/11/22 16:37	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23285	04/11/22 23:09	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	23374	04/12/22 10:58	SC	XEN MID
Soluble	Analysis	300.0		1			23559	04/15/22 00:11	CH	XEN MID

Client Sample ID: E1-N

Lab Sample ID: 890-1A28-N

Date Collected: 04/09/22 02:51

7 attributes: SoliM

Date / ecei3eM: 04/09/22 08:00

yrep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	zinal Bmosnt	Tatch Fsmber	yrepareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			4.95 g	5 mL	23398	04/12/22 14:39	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23364	04/13/22 00:02	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	23320	04/11/22 16:37	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23285	04/11/22 23:29	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	23374	04/12/22 10:58	SC	XEN MID
Soluble	Analysis	300.0		1			23559	04/15/22 00:18	CH	XEN MID

Client Sample ID: E1-2

Lab Sample ID: 890-1A28-2

Date Collected: 04/09/22 02:5N

7 attributes: SoliM

Date / ecei3eM: 04/09/22 08:00

yrep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	zinal Bmosnt	Tatch Fsmber	yrepareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			5.01 g	5 mL	23398	04/12/22 14:39	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23364	04/13/22 00:23	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	23320	04/11/22 16:37	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23285	04/11/22 23:49	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E1-2

Lab Sample ID: 890-1A28-2

Date Collected: 04/09/21 02:5N

7 attributes: SoliM

Date / ecei3eM: 04/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	23374	04/12/22 10:58	SC	XEN MID
Soluble	Analysis	300.0		1			23559	04/15/22 00:24	CH	XEN MID

Client Sample ID: E1-8

Lab Sample ID: 890-1A28-8

Date Collected: 04/09/21 02:58

7 attributes: SoliM

Date / ecei3eM: 04/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			4.99 g	5 mL	23398	04/12/22 14:39	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23364	04/13/22 00:43	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23320	04/11/22 16:37	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23285	04/12/22 00:10	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	23374	04/12/22 10:58	SC	XEN MID
Soluble	Analysis	300.0		1			23559	04/15/22 00:30	CH	XEN MID

Client Sample ID: E1-9

Lab Sample ID: 890-1A28-9

Date Collected: 04/09/21 08:00

7 attributes: SoliM

Date / ecei3eM: 04/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			4.98 g	5 mL	23398	04/12/22 14:39	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23364	04/13/22 01:04	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23320	04/11/22 16:37	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23285	04/12/22 00:30	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	23374	04/12/22 10:58	SC	XEN MID
Soluble	Analysis	300.0		1			23559	04/15/22 00:37	CH	XEN MID

Client Sample ID: E1-A0

Lab Sample ID: 890-1A28-A0

Date Collected: 04/09/21 08:04

7 attributes: SoliM

Date / ecei3eM: 04/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			5.00 g	5 mL	23398	04/12/22 14:39	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23364	04/13/22 01:24	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	23320	04/11/22 16:37	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23285	04/12/22 00:51	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	23374	04/12/22 10:58	SC	XEN MID
Soluble	Analysis	300.0		1			23559	04/15/22 00:56	CH	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E1-AA

Lab Sample ID: 890-1A28-AA

Date Collected: 04/09/21 08:05

7 attributes: SoliM

Date / ecei3eM: 04/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			5.01 g	5 mL	23477	04/13/22 13:23	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23476	04/13/22 16:58	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23320	04/11/22 16:37	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23285	04/12/22 01:32	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	23374	04/12/22 10:58	SC	XEN MID
Soluble	Analysis	300.0		1			23559	04/15/22 01:02	CH	XEN MID

Client Sample ID: E1-A1

Lab Sample ID: 890-1A28-A1

Date Collected: 04/09/21 08:08

7 attributes: SoliM

Date / ecei3eM: 04/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			5.02 g	5 mL	23477	04/13/22 13:23	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23476	04/13/22 17:25	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23320	04/11/22 16:37	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23285	04/12/22 01:52	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	23374	04/12/22 10:58	SC	XEN MID
Soluble	Analysis	300.0		1			23559	04/15/22 01:21	CH	XEN MID

Client Sample ID: E1-A4

Lab Sample ID: 890-1A28-A4

Date Collected: 04/09/21 08:AA

7 attributes: SoliM

Date / ecei3eM: 04/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			5.03 g	5 mL	23477	04/13/22 13:23	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23476	04/13/22 17:52	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	23320	04/11/22 16:37	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23285	04/12/22 02:13	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	23374	04/12/22 10:58	SC	XEN MID
Soluble	Analysis	300.0		1			23559	04/15/22 01:27	CH	XEN MID

Client Sample ID: E1-Ax

Lab Sample ID: 890-1A28-Ax

Date Collected: 04/09/21 08:AA

7 attributes: SoliM

Date / ecei3eM: 04/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			5.00 g	5 mL	23477	04/13/22 13:23	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23476	04/13/22 18:19	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E1-Ax

Lab Sample ID: 890-1A28-Ax

Date Collected: 04/09/22 08:00

7 attributes: SoliM

Date / ecei3eM: 04/09/22 08:00

yrep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	zinal Bmosnt	Tatch Fsmber	yrepareM or BnalvueM	BnalvPt	Lab
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23320	04/11/22 16:37	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23285	04/12/22 02:34	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	23374	04/12/22 10:58	SC	XEN MID
Soluble	Analysis	300.0		1			23559	04/15/22 01:34	CH	XEN MID

Client Sample ID: E1-A5

Lab Sample ID: 890-1A28-A5

Date Collected: 04/09/22 08:00

7 attributes: SoliM

Date / ecei3eM: 04/09/22 08:00

yrep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	zinal Bmosnt	Tatch Fsmber	yrepareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			4.99 g	5 mL	23477	04/13/22 13:23	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23476	04/13/22 18:46	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23320	04/11/22 16:37	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23285	04/12/22 02:54	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	23374	04/12/22 10:58	SC	XEN MID
Soluble	Analysis	300.0		1			23559	04/15/22 01:40	CH	XEN MID

Client Sample ID: E1-AN

Lab Sample ID: 890-1A28-AN

Date Collected: 04/09/22 08:00

7 attributes: SoliM

Date / ecei3eM: 04/09/22 08:00

yrep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	zinal Bmosnt	Tatch Fsmber	yrepareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			4.98 g	5 mL	23477	04/13/22 13:23	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23476	04/13/22 19:13	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	23320	04/11/22 16:37	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23285	04/12/22 03:15	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	23374	04/12/22 10:58	SC	XEN MID
Soluble	Analysis	300.0		1			23559	04/15/22 01:46	CH	XEN MID

Client Sample ID: E1-A2

Lab Sample ID: 890-1A28-A2

Date Collected: 04/09/22 08:00

7 attributes: SoliM

Date / ecei3eM: 04/09/22 08:00

yrep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	zinal Bmosnt	Tatch Fsmber	yrepareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			4.97 g	5 mL	23477	04/13/22 13:23	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23476	04/13/22 19:40	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	23320	04/11/22 16:37	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23285	04/12/22 03:35	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E1-A2

Lab Sample ID: 890-1A28-A2

Date Collected: 05/09/2021 08:08

7 attributes: SoliM

Date / ecei3eM: 05/09/2021 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	23374	04/12/22 10:58	SC	XEN MID
Soluble	Analysis	300.0		5			23559	04/15/22 01:53	CH	XEN MID

Client Sample ID: E1-A8

Lab Sample ID: 890-1A28-A8

Date Collected: 05/09/2021 08:09

7 attributes: SoliM

Date / ecei3eM: 05/09/2021 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			4.96 g	5 mL	23477	04/13/22 13:23	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23476	04/13/22 20:07	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23320	04/11/22 16:37	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23285	04/12/22 03:56	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	23374	04/12/22 10:58	SC	XEN MID
Soluble	Analysis	300.0		5			23559	04/15/22 01:59	CH	XEN MID

Client Sample ID: E1-A9

Lab Sample ID: 890-1A28-A9

Date Collected: 05/09/2021 08:10

7 attributes: SoliM

Date / ecei3eM: 05/09/2021 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			4.95 g	5 mL	23477	04/13/22 13:23	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23476	04/13/22 20:34	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23320	04/11/22 16:37	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23285	04/12/22 04:16	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	23375	04/12/22 11:04	SC	XEN MID
Soluble	Analysis	300.0		1			23560	04/15/22 02:50	CH	XEN MID

Client Sample ID: E1-10

Lab Sample ID: 890-1A28-10

Date Collected: 05/09/2021 08:1A

7 attributes: SoliM

Date / ecei3eM: 05/09/2021 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			5.01 g	5 mL	23477	04/13/22 13:23	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23476	04/13/22 21:01	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	23320	04/11/22 16:37	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23285	04/12/22 04:37	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	23375	04/12/22 11:04	SC	XEN MID
Soluble	Analysis	300.0		1			23560	04/15/22 03:09	CH	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E1-1A

Lab Sample ID: 890-1A28-1A

Date Collected: 04/09/21 08:14

7 attributes: SoliM

Date / ecei3eM: 04/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			5.05 g	5 mL	23477	04/13/22 13:23	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23476	04/13/22 22:47	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23321	04/11/22 16:41	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23361	04/12/22 11:57	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	23375	04/12/22 11:04	SC	XEN MID
Soluble	Analysis	300.0		1			23560	04/15/22 03:15	CH	XEN MID

Client Sample ID: E1-11

Lab Sample ID: 890-1A28-11

Date Collected: 04/09/21 08:15

7 attributes: SoliM

Date / ecei3eM: 04/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			5.03 g	5 mL	23477	04/13/22 13:23	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23476	04/13/22 23:14	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23321	04/11/22 16:41	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23361	04/12/22 13:01	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	23375	04/12/22 11:04	SC	XEN MID
Soluble	Analysis	300.0		1			23560	04/15/22 03:21	CH	XEN MID

Client Sample ID: E1-14

Lab Sample ID: 890-1A28-14

Date Collected: 04/09/21 08:12

7 attributes: SoliM

Date / ecei3eM: 04/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			5.01 g	5 mL	23477	04/13/22 13:23	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23476	04/13/22 23:41	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	23321	04/11/22 16:41	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23361	04/12/22 13:22	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	23375	04/12/22 11:04	SC	XEN MID
Soluble	Analysis	300.0		1			23560	04/15/22 03:28	CH	XEN MID

Client Sample ID: E1-1x

Lab Sample ID: 890-1A28-1x

Date Collected: 04/09/21 08:4A

7 attributes: SoliM

Date / ecei3eM: 04/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			5.02 g	5 mL	23477	04/13/22 13:23	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23476	04/14/22 00:06	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E1-1x

Date Collected: 04/09/22 08:44

Date / ecei3eM: 04/09/22 08:00

Lab Sample ID: 890-1A28-1x

7 attri6: SoliM

yrep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	zinal Bmosnt	Tatch Fsmber	yrepareM or BnalvueM	BnalvPt	Lab
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	23321	04/11/22 16:41	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23361	04/12/22 13:44	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	23375	04/12/22 11:04	SC	XEN MID
Soluble	Analysis	300.0		1			23560	04/15/22 03:46	CH	XEN MID

Client Sample ID: E1-15

Date Collected: 04/09/22 08:4x

Date / ecei3eM: 04/09/22 08:00

Lab Sample ID: 890-1A28-15

7 attri6: SoliM

yrep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	zinal Bmosnt	Tatch Fsmber	yrepareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			5.03 g	5 mL	23477	04/13/22 13:23	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23476	04/14/22 00:33	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	23321	04/11/22 16:41	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23361	04/12/22 14:05	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	23375	04/12/22 11:04	SC	XEN MID
Soluble	Analysis	300.0		1			23560	04/15/22 03:53	CH	XEN MID

Client Sample ID: E1-1N

Date Collected: 04/09/22 08:4N

Date / ecei3eM: 04/09/22 08:00

Lab Sample ID: 890-1A28-1N

7 attri6: SoliM

yrep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	zinal Bmosnt	Tatch Fsmber	yrepareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			5.02 g	5 mL	23477	04/13/22 13:23	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23476	04/14/22 00:59	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	23321	04/11/22 16:41	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23361	04/12/22 14:27	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	23375	04/12/22 11:04	SC	XEN MID
Soluble	Analysis	300.0		1			23560	04/15/22 03:59	CH	XEN MID

Client Sample ID: E1-12

Date Collected: 04/09/22 08:48

Date / ecei3eM: 04/09/22 08:00

Lab Sample ID: 890-1A28-12

7 attri6: SoliM

yrep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	zinal Bmosnt	Tatch Fsmber	yrepareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			4.99 g	5 mL	23477	04/13/22 13:23	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23476	04/14/22 01:25	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	23321	04/11/22 16:41	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23361	04/12/22 14:49	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E1-12

Date Collected: 04/09/22 08:48

Date / ecei3eM: 04/09/22 08:00

Lab Sample ID: 890-1A28-12

7 atri6: SoliM

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Soluble	Leach	DI Leach			5 g	50 mL	23375	04/12/22 11:04	SC	XEN MID
Soluble	Analysis	300.0		1			23560	04/15/22 04:05	CH	XEN MID

Client Sample ID: E1-18

Date Collected: 04/09/22 08:00

Date / ecei3eM: 04/09/22 08:00

Lab Sample ID: 890-1A28-18

7 atri6: SoliM

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			4.98 g	5 mL	23477	04/13/22 13:23	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23476	04/14/22 01:51	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23321	04/11/22 16:41	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23361	04/12/22 15:11	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	23375	04/12/22 11:04	SC	XEN MID
Soluble	Analysis	300.0		1			23560	04/15/22 04:12	CH	XEN MID

Client Sample ID: E1-19

Date Collected: 04/09/22 09:01

Date / ecei3eM: 04/09/22 08:00

Lab Sample ID: 890-1A28-19

7 atri6: SoliM

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			4.96 g	5 mL	23477	04/13/22 13:23	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23476	04/14/22 02:18	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23321	04/11/22 16:41	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23361	04/12/22 15:33	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	23375	04/12/22 11:04	SC	XEN MID
Soluble	Analysis	300.0		1			23560	04/15/22 04:18	CH	XEN MID

Client Sample ID: E1-40

Date Collected: 04/09/22 09:00

Date / ecei3eM: 04/09/22 08:00

Lab Sample ID: 890-1A28-40

7 atri6: SoliM

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			5.01 g	5 mL	23477	04/13/22 13:23	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23476	04/14/22 02:44	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23321	04/11/22 16:41	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23361	04/12/22 15:54	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	23375	04/12/22 11:04	SC	XEN MID
Soluble	Analysis	300.0		1			23560	04/15/22 04:37	CH	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E1-4A

Lab Sample ID: 890-1A28-4A

Date Collected: 04/09/21 09:02

7 attributes: SoliM

Date / ecei3eM: 04/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			5.02 g	5 mL	23478	04/13/22 13:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23441	04/13/22 20:30	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23321	04/11/22 16:41	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23361	04/12/22 16:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	23375	04/12/22 11:04	SC	XEN MID
Soluble	Analysis	300.0		1			23560	04/15/22 04:43	CH	XEN MID

Client Sample ID: E1-41

Lab Sample ID: 890-1A28-41

Date Collected: 04/09/21 09:00

7 attributes: SoliM

Date / ecei3eM: 04/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			5.03 g	5 mL	23478	04/13/22 13:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23441	04/13/22 20:50	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	23321	04/11/22 16:41	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23361	04/12/22 17:01	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	23375	04/12/22 11:04	SC	XEN MID
Soluble	Analysis	300.0		1			23560	04/15/22 05:02	CH	XEN MID

Client Sample ID: E1-44

Lab Sample ID: 890-1A28-44

Date Collected: 04/09/21 09:00

7 attributes: SoliM

Date / ecei3eM: 04/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			5.01 g	5 mL	23478	04/13/22 13:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23441	04/13/22 21:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23321	04/11/22 16:41	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23361	04/12/22 17:25	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	23375	04/12/22 11:04	SC	XEN MID
Soluble	Analysis	300.0		1			23560	04/15/22 05:09	CH	XEN MID

Client Sample ID: E1-4x

Lab Sample ID: 890-1A28-4x

Date Collected: 04/09/21 09:05

7 attributes: SoliM

Date / ecei3eM: 04/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			5.01 g	5 mL	23478	04/13/22 13:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23441	04/13/22 21:31	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E1-4x

Lab Sample ID: 890-1A28-4x

Date Collected: 04/09/22 09:05

7 attributes: SoliM

Date / ecei3eM: 04/09/22 08:00

yrep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	zinal Bmosnt	Tatch Fsmber	yrepareM or BnalvueM	BnalvPt	Lab
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	23321	04/11/22 16:41	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23361	04/12/22 17:47	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	23375	04/12/22 11:04	SC	XEN MID
Soluble	Analysis	300.0		1			23560	04/15/22 05:15	CH	XEN MID

Client Sample ID: E1-45

Lab Sample ID: 890-1A28-45

Date Collected: 04/09/22 09:05

7 attributes: SoliM

Date / ecei3eM: 04/09/22 08:00

yrep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	zinal Bmosnt	Tatch Fsmber	yrepareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			5.00 g	5 mL	23478	04/13/22 13:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23441	04/13/22 21:51	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	23321	04/11/22 16:41	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23361	04/12/22 18:09	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	23375	04/12/22 11:04	SC	XEN MID
Soluble	Analysis	300.0		1			23560	04/15/22 05:21	CH	XEN MID

Client Sample ID: E1-4N

Lab Sample ID: 890-1A28-4N

Date Collected: 04/09/22 09:05

7 attributes: SoliM

Date / ecei3eM: 04/09/22 08:00

yrep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	zinal Bmosnt	Tatch Fsmber	yrepareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			4.99 g	5 mL	23478	04/13/22 13:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23441	04/13/22 22:12	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23321	04/11/22 16:41	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23361	04/12/22 18:30	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	23375	04/12/22 11:04	SC	XEN MID
Soluble	Analysis	300.0		1			23560	04/15/22 05:28	CH	XEN MID

Client Sample ID: E1-42

Lab Sample ID: 890-1A28-42

Date Collected: 04/09/22 09:10

7 attributes: SoliM

Date / ecei3eM: 04/09/22 08:00

yrep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	zinal Bmosnt	Tatch Fsmber	yrepareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			4.98 g	5 mL	23478	04/13/22 13:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23441	04/13/22 22:32	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23321	04/11/22 16:41	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23361	04/12/22 18:50	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E1-42

Lab Sample ID: 890-1A28-42

Date Collected: 05/09/21 09:10

7 attributes: SoliM

Date / ecei3eM: 05/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Soluble	Leach	DI Leach			5 g	50 mL	23375	04/12/22 11:04	SC	XEN MID
Soluble	Analysis	300.0		1			23560	04/15/22 05:34	CH	XEN MID

Client Sample ID: E1-48

Lab Sample ID: 890-1A28-48

Date Collected: 05/09/21 09:11

7 attributes: SoliM

Date / ecei3eM: 05/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			4.97 g	5 mL	23478	04/13/22 13:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23441	04/13/22 22:52	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23321	04/11/22 16:41	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23361	04/12/22 19:11	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	23375	04/12/22 11:04	SC	XEN MID
Soluble	Analysis	300.0		1			23560	04/15/22 05:40	CH	XEN MID

Client Sample ID: E1-49

Lab Sample ID: 890-1A28-49

Date Collected: 05/09/21 09:40

7 attributes: SoliM

Date / ecei3eM: 05/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			5.01 g	5 mL	23478	04/13/22 13:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23441	04/14/22 00:42	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23321	04/11/22 16:41	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23361	04/12/22 19:32	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	23376	04/12/22 11:06	SC	XEN MID
Soluble	Analysis	300.0		1			23602	04/16/22 04:05	CH	XEN MID

Client Sample ID: E1-x0

Lab Sample ID: 890-1A28-x0

Date Collected: 05/09/21 09:41

7 attributes: SoliM

Date / ecei3eM: 05/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			4.99 g	5 mL	23478	04/13/22 13:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23441	04/14/22 01:03	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	23321	04/11/22 16:41	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23361	04/12/22 19:52	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	23376	04/12/22 11:06	SC	XEN MID
Soluble	Analysis	300.0		1			23602	04/16/22 04:25	CH	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E1-xA

Lab Sample ID: 890-1A28-xA

Date Collected: 04/09/21 09:4x

7 attri6: SoliM

Date / ecei3eM: 04/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			4.98 g	5 mL	23478	04/13/22 13:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23441	04/14/22 01:23	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23324	04/11/22 16:48	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23359	04/12/22 11:57	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	23376	04/12/22 11:06	SC	XEN MID
Soluble	Analysis	300.0		1			23602	04/16/22 04:31	CH	XEN MID

Client Sample ID: E1-x1

Lab Sample ID: 890-1A28-x1

Date Collected: 04/09/21 09:4N

7 attri6: SoliM

Date / ecei3eM: 04/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			5.01 g	5 mL	23478	04/13/22 13:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23441	04/14/22 01:43	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23324	04/11/22 16:48	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23359	04/12/22 13:01	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	23376	04/12/22 11:06	SC	XEN MID
Soluble	Analysis	300.0		1			23602	04/16/22 04:37	CH	XEN MID

Client Sample ID: E1-x4

Lab Sample ID: 890-1A28-x4

Date Collected: 04/09/21 09:42

7 attri6: SoliM

Date / ecei3eM: 04/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			5.03 g	5 mL	23478	04/13/22 13:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23441	04/14/22 02:04	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	23324	04/11/22 16:48	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23359	04/12/22 13:22	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	23376	04/12/22 11:06	SC	XEN MID
Soluble	Analysis	300.0		1			23602	04/16/22 04:44	CH	XEN MID

Client Sample ID: E1-xx

Lab Sample ID: 890-1A28-xx

Date Collected: 04/09/21 09:49

7 attri6: SoliM

Date / ecei3eM: 04/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			5.01 g	5 mL	23478	04/13/22 13:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23441	04/14/22 02:24	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E1-xx

Lab Sample ID: 890-1A28-xx

Date Collected: 04/09/22 09:49

7 attributes: SoliM

Date / ecei3eM: 04/09/22 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	zinal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	23324	04/11/22 16:48	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23359	04/12/22 13:44	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	23376	04/12/22 11:06	SC	XEN MID
Soluble	Analysis	300.0		1			23602	04/16/22 05:02	CH	XEN MID

Client Sample ID: E1-x5

Lab Sample ID: 890-1A28-x5

Date Collected: 04/09/22 09:x0

7 attributes: SoliM

Date / ecei3eM: 04/09/22 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	zinal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			5.02 g	5 mL	23478	04/13/22 13:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23441	04/14/22 02:45	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	23324	04/11/22 16:48	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23359	04/12/22 14:05	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	23376	04/12/22 11:06	SC	XEN MID
Soluble	Analysis	300.0		1			23602	04/16/22 05:09	CH	XEN MID

Client Sample ID: E1-xN

Lab Sample ID: 890-1A28-xN

Date Collected: 04/09/22 09:xA

7 attributes: SoliM

Date / ecei3eM: 04/09/22 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	zinal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			5.03 g	5 mL	23478	04/13/22 13:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23441	04/14/22 03:05	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	23324	04/11/22 16:48	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23359	04/12/22 14:27	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	23376	04/12/22 11:06	SC	XEN MID
Soluble	Analysis	300.0		1			23602	04/16/22 05:15	CH	XEN MID

Client Sample ID: E1-x2

Lab Sample ID: 890-1A28-x2

Date Collected: 04/09/22 09:x1

7 attributes: SoliM

Date / ecei3eM: 04/09/22 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	zinal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			4.99 g	5 mL	23478	04/13/22 13:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23441	04/14/22 03:25	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	23324	04/11/22 16:48	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23359	04/12/22 14:49	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E1-x2

Lab Sample ID: 890-1A28-x2

Date Collected: 04/09/21 09:11

7 attributes: SoliM

Date / ecei3eM: 04/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Soluble	Leach	DI Leach			5 g	50 mL	23376	04/12/22 11:06	SC	XEN MID
Soluble	Analysis	300.0		1			23602	04/16/22 05:21	CH	XEN MID

Client Sample ID: E1-x8

Lab Sample ID: 890-1A28-x8

Date Collected: 04/09/21 09:14

7 attributes: SoliM

Date / ecei3eM: 04/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			4.98 g	5 mL	23478	04/13/22 13:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23441	04/14/22 03:46	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23324	04/11/22 16:48	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23359	04/12/22 15:11	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	23376	04/12/22 11:06	SC	XEN MID
Soluble	Analysis	300.0		1			23602	04/16/22 05:28	CH	XEN MID

Client Sample ID: E1-x9

Lab Sample ID: 890-1A28-x9

Date Collected: 04/09/21 09:12

7 attributes: SoliM

Date / ecei3eM: 04/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			4.96 g	5 mL	23479	04/13/22 13:36	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23476	04/14/22 06:42	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	23324	04/11/22 16:48	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23359	04/12/22 15:33	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	23376	04/12/22 11:06	SC	XEN MID
Soluble	Analysis	300.0		1			23602	04/16/22 05:34	CH	XEN MID

Client Sample ID: E1-50

Lab Sample ID: 890-1A28-50

Date Collected: 04/09/21 09:19

7 attributes: SoliM

Date / ecei3eM: 04/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			5.01 g	5 mL	23479	04/13/22 13:36	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23476	04/14/22 07:08	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	23324	04/11/22 16:48	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23359	04/12/22 15:54	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	23376	04/12/22 11:06	SC	XEN MID
Soluble	Analysis	300.0		1			23602	04/16/22 05:53	CH	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E1-5A

Lab Sample ID: 890-1A28-5A

Date Collected: 04/09/21 09:54

7 attributes: SoliM

Date / ecei3eM: 04/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			5.02 g	5 mL	23479	04/13/22 13:36	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23476	04/14/22 07:34	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23324	04/11/22 16:48	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23359	04/12/22 16:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	23376	04/12/22 11:06	SC	XEN MID
Soluble	Analysis	300.0		1			23602	04/16/22 05:59	CH	XEN MID

Client Sample ID: E1-51

Lab Sample ID: 890-1A28-51

Date Collected: 04/09/21 10:00

7 attributes: SoliM

Date / ecei3eM: 04/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			5.01 g	5 mL	23479	04/13/22 13:36	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23476	04/14/22 08:01	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23324	04/11/22 16:48	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23359	04/12/22 17:01	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	23376	04/12/22 11:06	SC	XEN MID
Soluble	Analysis	300.0		1			23602	04/16/22 06:18	CH	XEN MID

Client Sample ID: E1-54

Lab Sample ID: 890-1A28-54

Date Collected: 04/09/21 10:01

7 attributes: SoliM

Date / ecei3eM: 04/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			5.03 g	5 mL	23479	04/13/22 13:36	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23476	04/14/22 08:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	23324	04/11/22 16:48	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23359	04/12/22 17:25	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	23376	04/12/22 11:06	SC	XEN MID
Soluble	Analysis	300.0		1			23602	04/16/22 06:25	CH	XEN MID

Client Sample ID: E1-5x

Lab Sample ID: 890-1A28-5x

Date Collected: 04/09/21 10:05

7 attributes: SoliM

Date / ecei3eM: 04/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			4.99 g	5 mL	23479	04/13/22 13:36	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23476	04/14/22 08:56	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E1-5x

Lab Sample ID: 890-1A28-5x

Date Collected: 04/09/21 10:05

7 attributes: SoliM

Date / ecei3eM: 04/09/21 08:00

yrep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	zinal Bmosnt	Tatch Fsmber	yrepareM or BnalvueM	BnalvPt	Lab
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23324	04/11/22 16:48	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23359	04/12/22 17:47	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	23376	04/12/22 11:06	SC	XEN MID
Soluble	Analysis	300.0		1			23602	04/16/22 06:31	CH	XEN MID

Client Sample ID: E1-55

Lab Sample ID: 890-1A28-55

Date Collected: 04/09/21 10:02

7 attributes: SoliM

Date / ecei3eM: 04/09/21 08:00

yrep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	zinal Bmosnt	Tatch Fsmber	yrepareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			4.98 g	5 mL	23479	04/13/22 13:36	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23476	04/14/22 09:23	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23324	04/11/22 16:48	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23359	04/12/22 18:09	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	23376	04/12/22 11:06	SC	XEN MID
Soluble	Analysis	300.0		1			23602	04/16/22 06:37	CH	XEN MID

Client Sample ID: E1-5N

Lab Sample ID: 890-1A28-5N

Date Collected: 04/09/21 10:08

7 attributes: SoliM

Date / ecei3eM: 04/09/21 08:00

yrep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	zinal Bmosnt	Tatch Fsmber	yrepareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			4.96 g	5 mL	23479	04/13/22 13:36	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23476	04/14/22 09:50	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	23324	04/11/22 16:48	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23359	04/12/22 18:30	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	23376	04/12/22 11:06	SC	XEN MID
Soluble	Analysis	300.0		1			23602	04/16/22 06:44	CH	XEN MID

Client Sample ID: E1-52

Lab Sample ID: 890-1A28-52

Date Collected: 04/09/21 10:00

7 attributes: SoliM

Date / ecei3eM: 04/09/21 08:00

yrep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	zinal Bmosnt	Tatch Fsmber	yrepareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			4.95 g	5 mL	23479	04/13/22 13:36	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23476	04/14/22 10:17	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23324	04/11/22 16:48	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23359	04/12/22 18:50	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E1-52

Lab Sample ID: 890-1A28-52

Date Collected: 04/09/21 10:00

7 attributes: SoliM

Date / ecei3eM: 04/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	23376	04/12/22 11:06	SC	XEN MID
Soluble	Analysis	300.0		1			23602	04/16/22 06:50	CH	XEN MID

Client Sample ID: E1-58

Lab Sample ID: 890-1A28-58

Date Collected: 04/09/21 10:00

7 attributes: SoliM

Date / ecei3eM: 04/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			5.01 g	5 mL	23479	04/13/22 13:36	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23476	04/14/22 10:45	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	23324	04/11/22 16:48	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23359	04/12/22 19:11	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	23376	04/12/22 11:06	SC	XEN MID
Soluble	Analysis	300.0		1			23602	04/16/22 06:56	CH	XEN MID

Client Sample ID: E1-59

Lab Sample ID: 890-1A28-59

Date Collected: 04/09/21 10:00

7 attributes: SoliM

Date / ecei3eM: 04/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			5.02 g	5 mL	23479	04/13/22 13:36	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23476	04/14/22 12:32	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23324	04/11/22 16:48	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23359	04/12/22 19:32	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	23377	04/12/22 11:09	SC	XEN MID
Soluble	Analysis	300.0		1			23603	04/16/22 07:47	CH	XEN MID

Client Sample ID: E1-N0

Lab Sample ID: 890-1A28-N0

Date Collected: 04/09/21 10:00

7 attributes: SoliM

Date / ecei3eM: 04/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			5.03 g	5 mL	23479	04/13/22 13:36	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23476	04/14/22 12:59	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	23324	04/11/22 16:48	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23359	04/12/22 19:52	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	23377	04/12/22 11:09	SC	XEN MID
Soluble	Analysis	300.0		1			23603	04/16/22 08:06	CH	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E1-NA

Lab Sample ID: 890-1A28-NA

Date Collected: 04/09/21 10:11

7 attributes: SoliM

Date / ecei3eM: 04/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			5.01 g	5 mL	23479	04/13/22 13:36	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23476	04/14/22 13:26	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23325	04/11/22 16:52	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23357	04/12/22 11:33	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	23377	04/12/22 11:09	SC	XEN MID
Soluble	Analysis	300.0		1			23603	04/16/22 08:12	CH	XEN MID

Client Sample ID: E1-N

Lab Sample ID: 890-1A28-N

Date Collected: 04/09/21 10:12

7 attributes: SoliM

Date / ecei3eM: 04/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			5.03 g	5 mL	23479	04/13/22 13:36	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23476	04/14/22 13:53	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	23325	04/11/22 16:52	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23357	04/12/22 12:36	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	23377	04/12/22 11:09	SC	XEN MID
Soluble	Analysis	300.0		1			23603	04/16/22 08:18	CH	XEN MID

Client Sample ID: E1-N

Lab Sample ID: 890-1A28-N

Date Collected: 04/09/21 10:18

7 attributes: SoliM

Date / ecei3eM: 04/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			5.01 g	5 mL	23479	04/13/22 13:36	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23476	04/14/22 14:20	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23325	04/11/22 16:52	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23357	04/12/22 12:57	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	23377	04/12/22 11:09	SC	XEN MID
Soluble	Analysis	300.0		1			23603	04/16/22 08:25	CH	XEN MID

Client Sample ID: E1-Nx

Lab Sample ID: 890-1A28-Nx

Date Collected: 04/09/21 10:40

7 attributes: SoliM

Date / ecei3eM: 04/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			4.98 g	5 mL	23479	04/13/22 13:36	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23476	04/14/22 14:47	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E1-Nx

Lab Sample ID: 890-1A28-Nx

Date Collected: 04/09/22 10:40

7 attributes: SoliM

Date / ecei3eM: 04/09/22 08:00

yrep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	zinal Bmosnt	Tatch Fsmber	yrepareM or BnalvueM	BnalvPt	Lab
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23325	04/11/22 16:52	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23357	04/12/22 13:18	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	23377	04/12/22 11:09	SC	XEN MID
Soluble	Analysis	300.0		1			23603	04/16/22 08:44	CH	XEN MID

Client Sample ID: E1-N5

Lab Sample ID: 890-1A28-N5

Date Collected: 04/09/22 10:41

7 attributes: SoliM

Date / ecei3eM: 04/09/22 08:00

yrep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	zinal Bmosnt	Tatch Fsmber	yrepareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			4.97 g	5 mL	23479	04/13/22 13:36	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23476	04/14/22 15:14	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23325	04/11/22 16:52	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23357	04/12/22 13:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	23377	04/12/22 11:09	SC	XEN MID
Soluble	Analysis	300.0		1			23603	04/16/22 08:50	CH	XEN MID

Client Sample ID: E1-NN

Lab Sample ID: 890-1A28-NN

Date Collected: 04/09/22 10:45

7 attributes: SoliM

Date / ecei3eM: 04/09/22 08:00

yrep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	zinal Bmosnt	Tatch Fsmber	yrepareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			4.99 g	5 mL	23479	04/13/22 13:36	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23476	04/14/22 16:33	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	23325	04/11/22 16:52	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23357	04/12/22 14:00	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	23377	04/12/22 11:09	SC	XEN MID
Soluble	Analysis	300.0		1			23603	04/16/22 08:56	CH	XEN MID

Client Sample ID: E1-N2

Lab Sample ID: 890-1A28-N2

Date Collected: 04/09/22 10:42

7 attributes: SoliM

Date / ecei3eM: 04/09/22 08:00

yrep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	zinal Bmosnt	Tatch Fsmber	yrepareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			5.01 g	5 mL	23479	04/13/22 13:36	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23476	04/14/22 15:40	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23325	04/11/22 16:52	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23357	04/12/22 14:21	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E1-N2

Lab Sample ID: 890-1A28-N2

Date Collected: 05/09/21 10:42

7 attributes: SoliM

Date / ecei3eM: 05/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	23377	04/12/22 11:09	SC	XEN MID
Soluble	Analysis	300.0		1			23603	04/16/22 09:03	CH	XEN MID

Client Sample ID: E1-N8

Lab Sample ID: 890-1A28-N8

Date Collected: 05/09/21 10:48

7 attributes: SoliM

Date / ecei3eM: 05/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			5.03 g	5 mL	23479	04/13/22 13:36	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23476	04/14/22 16:07	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	23325	04/11/22 16:52	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23357	04/12/22 14:42	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	23377	04/12/22 11:09	SC	XEN MID
Soluble	Analysis	300.0		1			23603	04/16/22 09:09	CH	XEN MID

Client Sample ID: E1-WA

Lab Sample ID: 890-1A28-N9

Date Collected: 05/09/21 10:48

7 attributes: SoliM

Date / ecei3eM: 05/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			4.97 g	5 mL	23480	04/13/22 13:39	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23499	04/15/22 03:39	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23325	04/11/22 16:52	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23357	04/12/22 15:03	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	23377	04/12/22 11:09	SC	XEN MID
Soluble	Analysis	300.0		1			23603	04/16/22 09:15	CH	XEN MID

Client Sample ID: E1-W1

Lab Sample ID: 890-1A28-20

Date Collected: 05/09/21 10:48

7 attributes: SoliM

Date / ecei3eM: 05/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			5.01 g	5 mL	23480	04/13/22 13:39	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23499	04/15/22 04:00	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23325	04/11/22 16:52	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23357	04/12/22 15:24	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	23377	04/12/22 11:09	SC	XEN MID
Soluble	Analysis	300.0		1			23603	04/16/22 09:34	CH	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E1-W4

Lab Sample ID: 890-1A28-2A

Date Collected: 04/09/21 11:50

7 attributes: SoliM

Date / ecei3em: 04/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	zinal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			5.02 g	5 mL	23480	04/13/22 13:39	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23499	04/15/22 04:20	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	23325	04/11/22 16:52	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23357	04/12/22 16:07	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	23377	04/12/22 11:09	SC	XEN MID
Soluble	Analysis	300.0		1			23603	04/16/22 09:41	CH	XEN MID

Client Sample ID: E1-Wx

Lab Sample ID: 890-1A28-21

Date Collected: 04/09/21 11:54

7 attributes: SoliM

Date / ecei3em: 04/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	zinal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			5.03 g	5 mL	23480	04/13/22 13:39	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23499	04/15/22 04:40	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	23325	04/11/22 16:52	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23357	04/12/22 16:28	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	23377	04/12/22 11:09	SC	XEN MID
Soluble	Analysis	300.0		1			23603	04/16/22 10:00	CH	XEN MID

Client Sample ID: E1-W5

Lab Sample ID: 890-1A28-24

Date Collected: 04/09/21 11:52

7 attributes: SoliM

Date / ecei3em: 04/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	zinal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			5.01 g	5 mL	23480	04/13/22 13:39	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23499	04/15/22 05:01	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23325	04/11/22 16:52	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23357	04/12/22 16:50	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	23377	04/12/22 11:09	SC	XEN MID
Soluble	Analysis	300.0		1			23603	04/16/22 10:06	CH	XEN MID

Client Sample ID: E1-WN

Lab Sample ID: 890-1A28-2x

Date Collected: 04/09/21 11:00

7 attributes: SoliM

Date / ecei3em: 04/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	zinal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			5.02 g	5 mL	23480	04/13/22 13:39	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23499	04/15/22 05:21	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E1-WN

Lab Sample ID: 890-1A28-2x

Date Collected: 04/09/21 11:00

7 attributes: SoliM

Date / ecei3eM: 04/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	zinal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	23325	04/11/22 16:52	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23357	04/12/22 17:11	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	23377	04/12/22 11:09	SC	XEN MID
Soluble	Analysis	300.0		1			23603	04/16/22 10:12	CH	XEN MID

Client Sample ID: E1-W2

Lab Sample ID: 890-1A28-25

Date Collected: 04/09/21 11:0x

7 attributes: SoliM

Date / ecei3eM: 04/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	zinal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			5.03 g	5 mL	23480	04/13/22 13:39	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23499	04/15/22 05:42	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23325	04/11/22 16:52	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23357	04/12/22 17:32	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	23377	04/12/22 11:09	SC	XEN MID
Soluble	Analysis	300.0		1			23603	04/16/22 10:19	CH	XEN MID

Client Sample ID: E1-W8

Lab Sample ID: 890-1A28-2N

Date Collected: 04/09/21 11:02

7 attributes: SoliM

Date / ecei3eM: 04/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	zinal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			5.01 g	5 mL	23480	04/13/22 13:39	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23499	04/15/22 06:02	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23325	04/11/22 16:52	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23357	04/12/22 17:54	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	23377	04/12/22 11:09	SC	XEN MID
Soluble	Analysis	300.0		1			23603	04/16/22 10:25	CH	XEN MID

Client Sample ID: E1-W9

Lab Sample ID: 890-1A28-22

Date Collected: 04/09/21 11:00

7 attributes: SoliM

Date / ecei3eM: 04/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	zinal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			5.02 g	5 mL	23480	04/13/22 13:39	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23499	04/15/22 06:22	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	23325	04/11/22 16:52	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23357	04/12/22 18:15	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E1-W9

Lab Sample ID: 890-1A28-22

Date Collected: 05/09/21 A1:A0

7 attributes: SoliM

Date / ecei3eM: 05/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	23377	04/12/22 11:09	SC	XEN MID
Soluble	Analysis	300.0		1			23603	04/16/22 10:31	CH	XEN MID

Client Sample ID: E1-WA0

Lab Sample ID: 890-1A28-28

Date Collected: 05/09/21 A1:A5

7 attributes: SoliM

Date / ecei3eM: 05/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			4.99 g	5 mL	23480	04/13/22 13:39	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23499	04/15/22 06:43	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23325	04/11/22 16:52	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23357	04/12/22 18:35	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	23377	04/12/22 11:09	SC	XEN MID
Soluble	Analysis	300.0		1			23603	04/16/22 10:38	CH	XEN MID

Client Sample ID: E1-WAA

Lab Sample ID: 890-1A28-29

Date Collected: 05/09/21 A1:A9

7 attributes: SoliM

Date / ecei3eM: 05/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			5.03 g	5 mL	23779	04/19/22 10:22	MR	XEN MID
Total/NA	Analysis	8021B		1			23768	04/19/22 17:47	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23325	04/11/22 16:52	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23357	04/12/22 18:56	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	23378	04/12/22 11:12	SC	XEN MID
Soluble	Analysis	300.0		1			23604	04/15/22 21:48	CH	XEN MID

Client Sample ID: E1-WA1

Lab Sample ID: 890-1A28-80

Date Collected: 05/09/21 A1:1x

7 attributes: SoliM

Date / ecei3eM: 05/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	z inal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			5.01 g	5 mL	23779	04/19/22 10:22	MR	XEN MID
Total/NA	Analysis	8021B		1			23768	04/19/22 18:08	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	23325	04/11/22 16:52	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23357	04/12/22 19:17	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	23378	04/12/22 11:12	SC	XEN MID
Soluble	Analysis	300.0		1			23604	04/15/22 22:16	CH	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E1-WA4

Lab Sample ID: 890-1A28-8A

Date Collected: 04/09/21 A1:12

7 attributes: SoliM

Date / ecei3eM: 04/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	zinal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			5.02 g	5 mL	23779	04/19/22 10:22	MR	XEN MID
Total/NA	Analysis	8021B		1			23768	04/19/22 18:28	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	23312	04/11/22 15:10	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23281	04/12/22 02:40	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	23378	04/12/22 11:12	SC	XEN MID
Soluble	Analysis	300.0		1			23604	04/15/22 22:25	CH	XEN MID

Client Sample ID: E1-WAx

Lab Sample ID: 890-1A28-81

Date Collected: 04/09/21 A1:4A

7 attributes: SoliM

Date / ecei3eM: 04/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	zinal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			5.00 g	5 mL	23779	04/19/22 10:22	MR	XEN MID
Total/NA	Analysis	8021B		1			23768	04/19/22 18:49	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23312	04/11/22 15:10	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23281	04/12/22 03:00	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	23378	04/12/22 11:12	SC	XEN MID
Soluble	Analysis	300.0		1			23604	04/15/22 22:34	CH	XEN MID

Client Sample ID: E1-WA5

Lab Sample ID: 890-1A28-8A

Date Collected: 04/09/21 A1:45

7 attributes: SoliM

Date / ecei3eM: 04/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	zinal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			4.99 g	5 mL	23779	04/19/22 10:22	MR	XEN MID
Total/NA	Analysis	8021B		1			23768	04/19/22 19:09	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23312	04/11/22 15:10	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23281	04/12/22 03:21	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	23378	04/12/22 11:12	SC	XEN MID
Soluble	Analysis	300.0		1			23604	04/15/22 22:43	CH	XEN MID

Client Sample ID: E7 -A

Lab Sample ID: 890-1A28-8x

Date Collected: 04/09/21 A5:A0

7 attributes: SoliM

Date / ecei3eM: 04/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	zinal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			4.98 g	5 mL	23779	04/19/22 10:22	MR	XEN MID
Total/NA	Analysis	8021B		1			23768	04/19/22 19:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E7 -A

Lab Sample ID: 890-1A28-8x

Date Collected: 04/09/21 A5:A0

7 attributes: SoliM

Date / ecei3eM: 04/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	zinal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	23312	04/11/22 15:10	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23281	04/12/22 03:41	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	23378	04/12/22 11:12	SC	XEN MID
Soluble	Analysis	300.0		1			23604	04/15/22 23:11	CH	XEN MID

Client Sample ID: E7 -1

Lab Sample ID: 890-1A28-85

Date Collected: 04/09/21 A5:A1

7 attributes: SoliM

Date / ecei3eM: 04/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	zinal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			4.98 g	5 mL	23779	04/19/22 10:22	MR	XEN MID
Total/NA	Analysis	8021B		1			23768	04/19/22 19:50	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23312	04/11/22 15:10	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23281	04/12/22 04:01	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	23378	04/12/22 11:12	SC	XEN MID
Soluble	Analysis	300.0		1			23604	04/15/22 23:20	CH	XEN MID

Client Sample ID: E7 -4

Lab Sample ID: 890-1A28-8N

Date Collected: 04/09/21 A5:Ax

7 attributes: SoliM

Date / ecei3eM: 04/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	zinal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			5.01 g	5 mL	23779	04/19/22 10:22	MR	XEN MID
Total/NA	Analysis	8021B		1			23768	04/19/22 20:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	23312	04/11/22 15:10	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23281	04/12/22 04:21	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	23378	04/12/22 11:12	SC	XEN MID
Soluble	Analysis	300.0		1			23604	04/15/22 23:29	CH	XEN MID

Client Sample ID: E7 -x

Lab Sample ID: 890-1A28-82

Date Collected: 04/09/21 A5:AN

7 attributes: SoliM

Date / ecei3eM: 04/09/21 08:00

y rep Rvpe	Tatch Rvpe	Tatch 7 ethoM	/ sn	Dil zactor	Initial Bmosnt	zinal Bmosnt	Tatch Fsmber	y repareM or BnalvueM	BnalvPt	Lab
Total/NA	Prep	5035			5.02 g	5 mL	23779	04/19/22 10:22	MR	XEN MID
Total/NA	Analysis	8021B		1			23768	04/19/22 20:37	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23313	04/11/22 15:16	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23283	04/12/22 03:00	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Client Sample ID: E7 -x

Lab Sample ID: 890-1A28-82

Date Collected: 04/09/21 15:00

7 attributes: SoliM

Date / received: 04/09/21 08:00

Prep Type	Batch Type	Batch Method	/ sn	Dil Factor	Initial Amount	Final Amount	Batch Number	Preparation Date/Time	Batch Point	Lab
Soluble	Leach	DI Leach			5 g	50 mL	23378	04/12/22 11:12	SC	XEN MID
Soluble	Analysis	300.0		1			23604	04/15/22 23:38	CH	XEN MID

Client Sample ID: E7 -WA

Lab Sample ID: 890-1A28-88

Date Collected: 04/09/21 15:00

7 attributes: SoliM

Date / received: 04/09/21 08:00

Prep Type	Batch Type	Batch Method	/ sn	Dil Factor	Initial Amount	Final Amount	Batch Number	Preparation Date/Time	Batch Point	Lab
Total/NA	Prep	5035			5.03 g	5 mL	23779	04/19/22 10:22	MR	XEN MID
Total/NA	Analysis	8021B		1			23768	04/19/22 21:05	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23446	04/13/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23373	04/12/22 10:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23313	04/11/22 15:16	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23283	04/12/22 03:21	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	23378	04/12/22 11:12	SC	XEN MID
Soluble	Analysis	300.0		1			23604	04/15/22 23:48	CH	XEN MID

Laboratory / Reference:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ranger Environmental Services, Inc
 Project Site: Cobalt Riser

Job ID: 890-2178-1
 SD/ : G198

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory here covered under each accreditation/certification below

Authority	Program	Identification Number	Expiration Date
State of Texas	ENL 6	10A70AA00-21-22	04-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Reference Method	Matrix	Analyte
GC/MS	GC/MS	Solid	total 6H
total B. EX		Solid	total B. EX

Method Summary

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2178-1	E2-1	Solid	04/09/22 07:43	04/11/22 08:00	4 - 5
890-2178-2	E2-2	Solid	04/09/22 07:44	04/11/22 08:00	4 - 5
890-2178-3	E2-3	Solid	04/09/22 07:46	04/11/22 08:00	4 - 5
890-2178-4	E2-4	Solid	04/09/22 07:48	04/11/22 08:00	4 - 5
890-2178-5	E2-5	Solid	04/09/22 07:51	04/11/22 08:00	4 - 5
890-2178-6	E2-6	Solid	04/09/22 07:52	04/11/22 08:00	4 - 5
890-2178-7	E2-7	Solid	04/09/22 07:56	04/11/22 08:00	4 - 5
890-2178-8	E2-8	Solid	04/09/22 07:58	04/11/22 08:00	4 - 5
890-2178-9	E2-9	Solid	04/09/22 08:00	04/11/22 08:00	4 - 5
890-2178-10	E2-10	Solid	04/09/22 08:03	04/11/22 08:00	4 - 5
890-2178-11	E2-11	Solid	04/09/22 08:05	04/11/22 08:00	4 - 5
890-2178-12	E2-12	Solid	04/09/22 08:08	04/11/22 08:00	4 - 5
890-2178-13	E2-13	Solid	04/09/22 08:11	04/11/22 08:00	4 - 5
890-2178-14	E2-14	Solid	04/09/22 08:13	04/11/22 08:00	4 - 5
890-2178-15	E2-15	Solid	04/09/22 08:15	04/11/22 08:00	4 - 5
890-2178-16	E2-16	Solid	04/09/22 08:17	04/11/22 08:00	4 - 5
890-2178-17	E2-17	Solid	04/09/22 08:18	04/11/22 08:00	4 - 5
890-2178-18	E2-18	Solid	04/09/22 08:19	04/11/22 08:00	4 - 5
890-2178-19	E2-19	Solid	04/09/22 08:20	04/11/22 08:00	4 - 5
890-2178-20	E2-20	Solid	04/09/22 08:21	04/11/22 08:00	4 - 5
890-2178-21	E2-21	Solid	04/09/22 08:23	04/11/22 08:00	4 - 5
890-2178-22	E2-22	Solid	04/09/22 08:25	04/11/22 08:00	4 - 5
890-2178-23	E2-23	Solid	04/09/22 08:27	04/11/22 08:00	4 - 5
890-2178-24	E2-24	Solid	04/09/22 08:31	04/11/22 08:00	4 - 5
890-2178-25	E2-25	Solid	04/09/22 08:34	04/11/22 08:00	4 - 5
890-2178-26	E2-26	Solid	04/09/22 08:36	04/11/22 08:00	4 - 5
890-2178-27	E2-27	Solid	04/09/22 08:38	04/11/22 08:00	4 - 5
890-2178-28	E2-28	Solid	04/09/22 08:40	04/11/22 08:00	4 - 5
890-2178-29	E2-29	Solid	04/09/22 09:02	04/11/22 08:00	3 - 4
890-2178-30	E2-30	Solid	04/09/22 09:04	04/11/22 08:00	3 - 4
890-2178-31	E2-31	Solid	04/09/22 09:07	04/11/22 08:00	3 - 4
890-2178-32	E2-32	Solid	04/09/22 09:10	04/11/22 08:00	3 - 4
890-2178-33	E2-33	Solid	04/09/22 09:13	04/11/22 08:00	3 - 4
890-2178-34	E2-34	Solid	04/09/22 09:15	04/11/22 08:00	3 - 4
890-2178-35	E2-35	Solid	04/09/22 09:16	04/11/22 08:00	3 - 4
890-2178-36	E2-36	Solid	04/09/22 09:18	04/11/22 08:00	3 - 4
890-2178-37	E2-37	Solid	04/09/22 09:20	04/11/22 08:00	3 - 4
890-2178-38	E2-38	Solid	04/09/22 09:22	04/11/22 08:00	3 - 4
890-2178-39	E2-39	Solid	04/09/22 09:30	04/11/22 08:00	3 - 4
890-2178-40	E2-40	Solid	04/09/22 09:32	04/11/22 08:00	3 - 4
890-2178-41	E2-41	Solid	04/09/22 09:34	04/11/22 08:00	3 - 4
890-2178-42	E2-42	Solid	04/09/22 09:36	04/11/22 08:00	3 - 4
890-2178-43	E2-43	Solid	04/09/22 09:37	04/11/22 08:00	3 - 4
890-2178-44	E2-44	Solid	04/09/22 09:39	04/11/22 08:00	3 - 4
890-2178-45	E2-45	Solid	04/09/22 09:40	04/11/22 08:00	3 - 4
890-2178-46	E2-46	Solid	04/09/22 09:41	04/11/22 08:00	3 - 4
890-2178-47	E2-47	Solid	04/09/22 09:42	04/11/22 08:00	3 - 4
890-2178-48	E2-48	Solid	04/09/22 09:43	04/11/22 08:00	3 - 4
890-2178-49	E2-49	Solid	04/09/22 09:47	04/11/22 08:00	3 - 4
890-2178-50	E2-50	Solid	04/09/22 09:49	04/11/22 08:00	3 - 4
890-2178-51	E2-51	Solid	04/09/22 09:53	04/11/22 08:00	3 - 4
890-2178-52	E2-52	Solid	04/09/22 10:00	04/11/22 08:00	3 - 4
890-2178-53	E2-53	Solid	04/09/22 10:02	04/11/22 08:00	3 - 4
890-2178-54	E2-54	Solid	04/09/22 10:05	04/11/22 08:00	3 - 4
890-2178-55	E2-55	Solid	04/09/22 10:07	04/11/22 08:00	3 - 4

Sample Summary

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2178-1
SDG: 5198

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2178-56	E2-56	Solid	04/09/22 10:08	04/11/22 08:00	3 - 4
890-2178-57	E2-57	Solid	04/09/22 10:11	04/11/22 08:00	3 - 4
890-2178-58	E2-58	Solid	04/09/22 10:14	04/11/22 08:00	3 - 4
890-2178-59	E2-59	Solid	04/09/22 10:17	04/11/22 08:00	3 - 4
890-2178-60	E2-60	Solid	04/09/22 10:20	04/11/22 08:00	3 - 4
890-2178-61	E2-61	Solid	04/09/22 10:22	04/11/22 08:00	3 - 4
890-2178-62	E2-62	Solid	04/09/22 10:27	04/11/22 08:00	3 - 4
890-2178-63	E2-63	Solid	04/09/22 10:28	04/11/22 08:00	3 - 4
890-2178-64	E2-64	Solid	04/09/22 10:30	04/11/22 08:00	3 - 4
890-2178-65	E2-65	Solid	04/09/22 10:32	04/11/22 08:00	3 - 4
890-2178-66	E2-66	Solid	04/09/22 10:35	04/11/22 08:00	3 - 4
890-2178-67	E2-67	Solid	04/09/22 10:37	04/11/22 08:00	3 - 4
890-2178-68	E2-68	Solid	04/09/22 10:38	04/11/22 08:00	3 - 4
890-2178-69	E2-W1	Solid	04/09/22 11:43	04/11/22 08:00	0 - 4
890-2178-70	E2-W2	Solid	04/09/22 11:47	04/11/22 08:00	0 - 4
890-2178-71	E2-W3	Solid	04/09/22 11:50	04/11/22 08:00	0 - 4
890-2178-72	E2-W4	Solid	04/09/22 11:53	04/11/22 08:00	0 - 4
890-2178-73	E2-W5	Solid	04/09/22 11:57	04/11/22 08:00	0 - 4
890-2178-74	E2-W6	Solid	04/09/22 12:00	04/11/22 08:00	0 - 4
890-2178-75	E2-W7	Solid	04/09/22 12:04	04/11/22 08:00	0 - 4
890-2178-76	E2-W8	Solid	04/09/22 12:07	04/11/22 08:00	0 - 4
890-2178-77	E2-W9	Solid	04/09/22 12:10	04/11/22 08:00	0 - 4
890-2178-78	E2-W10	Solid	04/09/22 12:15	04/11/22 08:00	0 - 4
890-2178-79	E2-W11	Solid	04/09/22 12:19	04/11/22 08:00	0 - 4
890-2178-80	E2-W12	Solid	04/09/22 12:24	04/11/22 08:00	0 - 4
890-2178-81	E2-W13	Solid	04/09/22 12:27	04/11/22 08:00	0 - 4
890-2178-82	E2-W14	Solid	04/09/22 12:31	04/11/22 08:00	0 - 4
890-2178-83	E2-W15	Solid	04/09/22 12:35	04/11/22 08:00	0 - 4
890-2178-84	EM-1	Solid	04/09/22 15:10	04/11/22 08:00	5
890-2178-85	EM-2	Solid	04/09/22 15:12	04/11/22 08:00	5
890-2178-86	EM-3	Solid	04/09/22 15:14	04/11/22 08:00	5
890-2178-87	EM-4	Solid	04/09/22 15:16	04/11/22 08:00	5
890-2178-88	EM-W1	Solid	04/09/22 15:18	04/11/22 08:00	0 - 5

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Environment Testing

Xenco

Work Order No:

www.xenco.com Page 1 of 9

Work Order Comments

Program: ☐ UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: EDD ☐ ADAPT ☐ Other:

Project Manager: Max Cook

Company Name: RANGER ENV

Address: PO BOX 201179

City, State ZIP: AUSTIN, TX 78720

Phone: 512-335-1735

Bill to: (if different) EO5 REMEDIATION-MIDLAND

Company Name: ATTN KEVIN BLANK

Address: 5508 CHAMPIONS DR

City, State ZIP: MIDLAND, TX 79705

Email: MAX@RANGERENV.COM

ANALYSIS REQUEST

Project Name: COBALT RISER

Project Number: 5198

Project Location: LEA CO NM

Sampler's Name: M. WILSON

PO #:

Turn Around: ☒ Routine ☐ Rush

Due Date:

TAT starts the day received by the lab, if received by 4:30pm

Temp Blank: ☒ Yes ☐ No

Thermometer ID: 1-NM-C07

Correction Factor: -0.2

Temperature Reading: 1.8

Corrected Temperature: 1.6

Wet Ice: ☒ Yes ☐ No

Parameters

Pres. Code

Sample Comments

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Sample Comments
E2-1	SOIL	7/19/22	0743	4-5'	Comp	1	
E2-2			0744				
E2-3			0745				
E2-4			0748				
E2-5			0751				
E2-6			0752				
E2-7			0756				
E2-8			0758				
E2-9			0800				
E2-10			0803				

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1. <u>[Signature]</u>	<u>[Signature]</u>	7/19/22 0800	2. <u>[Signature]</u>	<u>[Signature]</u>	
3. <u>[Signature]</u>	<u>[Signature]</u>		4. <u>[Signature]</u>	<u>[Signature]</u>	
5. <u>[Signature]</u>	<u>[Signature]</u>		6. <u>[Signature]</u>	<u>[Signature]</u>	

Revised Date: 08/25/2020 Rev. 2020 2

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
 Midland, TX (432) 704-5940, San Antonio, TX (210) 509-3334
 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199



Environment Testing

Xenco

Work Order No: _____

www.xenco.com Page 2 of 7

Work Order Comments

Program: ☐ UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project: _____

Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: EDD ☐ ADAPT ☐ Other: _____

Project Manager: _____ Bill to: (if different) _____

Company Name: _____ Company Name: _____

Address: _____ Address: _____

City, State ZIP: _____ City, State ZIP: _____

Phone: _____ Email: _____

ANALYSIS REQUEST										Preservative Codes		
Project Name:	Turn Around	Pres. Code								None: NO	DI Water: H ₂ O	
Project Number:	☒ Routine ☐ Rush									Cool: Cool	MeOH: Me	
Project Location:	Due Date:									HCL: HC	HNO ₃ : HN	
Sampler's Name:	TAT starts the day received by the lab, if received by 4:30pm									H ₂ SO ₄ : H ₂	NaOH: Na	
PO #:										H ₃ PO ₄ : HP		
SAMPLE RECEIPT												
Samples Received Intact:	Temp Blank:	Yes ☒ No ☐	Wet Ice:	Yes ☒ No ☐	Thermometer ID:							
Cooler Custody Seals:	Yes ☒ No ☐	Correction Factor:										
Sample Custody Seals:	Yes ☒ No ☐	Temperature Reading:										
Total Containers:	Corrected Temperature:											
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont						Sample Comments
E2-11	SOEL	4/9/22	0805	4-5'	Comp	1						
E2-12			0808									
E2-13			0811									
E2-14			0813									
E2-15			0815									
E2-16			0817									
E2-17			0818									
E2-18			0819									
E2-19			0820									
E2-20			0821									

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		4/11/22 08:00	2		
3			4		
5			6		

Revised Date: 09/25/2020 Rev. 2020.2



Houston, TX (281) 240-4200, Dallas, TX (214) 802-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3189

Work Order No:

Page 3 of 9
www.xenco.com

Project Manager:		Bill to: (if different)	
Company Name:	Company Name:		
Address:	Address:		
City, State ZIP:	City, State ZIP:		
Phone:	Email:		

SAMPLE RECEIPT		Turn Around		Pres. Code	
Samples Received Intact:	Temp Blank:	Yes No	Wet Ice:	Yes No	
Cooler Custody Seals:	Yes No	N/A	Thermometer ID:	T-111111	
Sample Custody Seals:	Yes No	N/A	Correction Factor:	-0.2	
Total Containers:	Corrected Temperature:	1.8			

SAMPLE IDENTIFICATION		Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont
E2-21	505L	4/19/22	0823	4'-5'	Comp	1
E2-22			0825			
E2-23			0827			
E2-24			0831			
E2-25			0834			
E2-26			0836			
E2-27			0838			
E2-28			0840			
E2-29			0902	3'-4'		
E2-30			0904			

SAMPLE RECEIPT		Turn Around		Pres. Code	
Samples Received Intact:	Temp Blank:	Yes No	Wet Ice:	Yes No	
Cooler Custody Seals:	Yes No	N/A	Thermometer ID:	T-111111	
Sample Custody Seals:	Yes No	N/A	Correction Factor:	-0.2	
Total Containers:	Corrected Temperature:	1.8			

ANALYSIS REQUEST		PRESERVATIVE CODES	
None: NO	DI Water: H ₂ O	MeOH: Me	HNO ₃ : HN
Coil: Cool	HCL: HC	H ₂ SO ₄ : H ₂	NaOH: Na
H ₂ PO ₄ : HP	NaHSO ₄ : NABIS	Na ₂ S ₂ O ₃ : NaSO ₃	Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC			

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project: Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADAPT ☐ Other: _____	

Circle Method(s) and Metal(s) to be analyzed		Circle Method(s) and Metal(s) to be analyzed	
Total 200.7 / 6010 200.8 / 6020:		Total 200.7 / 6010 200.8 / 6020:	
8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn		8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn	
TCLP / SPLP 6010: 8RCRA		TCLP / SPLP 6010: 8RCRA	
Hg: 1631 / 245.1 / 7470 / 7471		Hg: 1631 / 245.1 / 7470 / 7471	

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		4/19/22 0800			

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 569-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Environment Testing
XENCO



Work Order No:

www.xenco.com Page 7 of 9

Project Manager: SEE PAGE 1
Company Name: SEE PAGE 1
Address: SEE PAGE 1
City, State ZIP: SEE PAGE 1
Phone: SEE PAGE 1

Bill to: (if different)
Company Name:
Address:
City, State ZIP:
Email:

Program: ☐ UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADAPT ☐ Other:

Project Name: COBALT RISER
Project Number: 5198
Project Location: LEA CO NM
Sampler's Name: W. WIEROCE
PO #:

Turn Around
☒ Routine ☐ Rush
Due Date: 4/11/22
TAT starts the day received by the lab, if received by 4:30pm

Temp Blank: ☒ Yes ☐ No
Thermometer ID: 1010
Correction Factor: -0.2
Cooler Custody Seals: ☒ Yes ☐ No
Temperature Reading: 1.8
Corrected Temperature: 1.6
Total Containers:

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Pres. Code	Parameters	Preservative Codes
E2-31	SOIL	4/9/22	0907	3-4'	Comp	1		X GTEX (8021) X TPM (8015) X CHLOROC (EPA 300)	None: NO Cool: Cool HCL: HC H ₂ SO ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC
E2-32			0110						
E2-33			0913						
E2-34			0915						
E2-35			0916						
E2-36			0918						
E2-37			0920						
E2-38			0922						
E2-39			0920						
E2-40			0132						

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$95.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<u>[Signature]</u>	<u>N. [Signature]</u>	4/11/22 0900			

Chain of Custody

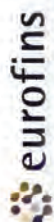
Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Environment Testing

XENCO

Work Order No:

www.xenco.com Page 5 of 7



Project Manager: _____
 Company Name: _____
 Address: _____
 City, State ZIP: _____
 Phone: _____

Bill to: (if different)
 Company Name: _____
 Address: _____
 City, State ZIP: _____
 Email: _____

Project Name: LOGAN RIVER
 Project Number: 5198
 Project Location: LEO U NM
 Sampler's Name: W. KILGORE
 PO #: _____

Turn Around
☒ Routine ☐ Rush
 Due Date: _____
 TAT starts the day received by the lab, if received by 4:30pm

Temp Blank: ☒ Yes ☐ No
 Thermometer ID: T-111-001
 Correction Factor: -0.2
 Temperature Reading: 1.8
 Corrected Temperature: 1.6

Project Name: LOGAN RIVER
 Project Number: 5198
 Project Location: LEO U NM
 Sampler's Name: W. KILGORE
 PO #: _____

Turn Around
☒ Routine ☐ Rush
 Due Date: _____
 TAT starts the day received by the lab, if received by 4:30pm

Temp Blank: ☒ Yes ☐ No
 Thermometer ID: T-111-001
 Correction Factor: -0.2
 Temperature Reading: 1.8
 Corrected Temperature: 1.6

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	Pres. Code	ANALYSIS REQUEST	Preservative Codes
E2-41	Soil	4/9/22	0934	3-4'	Comp	1	X (MILKIDE (EPA 300))			None: NO Cool: Cool HCL: HC H ₂ SO ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC
E2-42			0935				X (TPH (8015))			
E2-43			0937				X (BTEX (8011))			
E2-44			0939							
E2-45			0940							
E2-46			0941							
E2-47			0942							
E2-48			0943							
E2-49			0947							
E2-50			0949							

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<u>[Signature]</u>	<u>[Signature]</u>	4/11/2022 5:00 PM			

Revised Date: 08/25/2020 Rev. 2020.2

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Environment Testing

Xenco



Work Order No:

www.xenco.com Page 6 of 9

Project Manager:	Bill to: (if different)	Work Order Comments
Company Name:	Company Name:	Program: ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
Address:	Address:	State of Project: ☐ Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
City, State ZIP:	City, State ZIP:	Reporting: ☐ EDD ☐ ADAPT ☐ Other:
Phone:	Email:	

Project Name: <u>LEGION RESER</u>		Turn Around		Parameters		ANALYSIS REQUEST		Preservative Codes	
Project Number: <u>5198</u>	Temp Blank: <u>Yes</u> <u>No</u>	Wet Ice: <u>Yes</u> <u>No</u>	Thermometer ID: <u>1745007</u>	Depth	Grab/Comp	# of Cont	Pres. Code		
Project Location: <u>LEAG NM</u>	Yes <u>No</u>	Yes <u>No</u>	Correction Factor: <u>1.0</u>						
Sampler's Name: <u>M. WIERZBOW</u>	Yes <u>No</u>	Yes <u>No</u>	Temperature Reading: <u>1.3</u>						
PO #: <u>11111111</u>	Yes <u>No</u>	Yes <u>No</u>	Corrected Temperature: <u>1.6</u>						
SAMPLE RECEIPT									
Samples Received Intact: <u>Yes</u> <u>No</u>									
Cooler Custody Seals: <u>Yes</u> <u>No</u>									
Sample Custody Seals: <u>Yes</u> <u>No</u>									
Total Containers: <u>1-6</u>									
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Pres. Code		
E2-51	SPL	4/9/22	0753	3-4'	1000	1			
E2-52			1000						
E2-53			1002						
E2-54			1005						
E2-55			1007						
E2-56			1008						
E2-57			1011						
E2-58			1014						
E2-59			1017						
E2-60			1030						

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Date/Time
1 <u>[Signature]</u>				4/11/22	0753
3 <u>[Signature]</u>					
5 <u>[Signature]</u>					

Revised Date 08/25/2020 Rev. 2020.2



Environment Testing

Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No:

www.xenco.com Page 7 of 9

Project Manager:		Bill to: (if different)	
Company Name:		Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:		Email:	

Project Name:		Turn Around	
Project Number:		Routine ☒ Rush ☐	
Project Location:		Due Date:	
Sampler's Name:		TAT starts the day received by the lab, if received by 4:30pm	
P.O. #:			

SAMPLE RECEIPT		Temp Blank:		Yes ☒ No ☐		Wet Ice:		Yes ☒ No ☐	
Samples Received Intact:		Yes ☒ No ☐		Thermometer ID:		Correction Factor:		T-N-400	
Cooler Custody Seals:		Yes ☒ No ☐		Temperature Reading:		Corrected Temperature:		-0.7	
Sample Custody Seals:		Yes ☒ No ☐		Temperature Reading:		Corrected Temperature:		1.0	
Total Containers:		1		1		1		1	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	Pres. Code	ANALYSIS REQUEST	Preservative Codes
E2-61	SOIL	4/9/22	1022	3'-4'	Comp	1	X BTEX (8021)			None: NO DI Water: H ₂ O Cool: Cool MeOH: Me HCL: HC HNO ₃ : HN H ₂ SO ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC
E2-62			1027				X TPH (8015)			
E2-63			1028							
E2-64			1030							
E2-65			1032							
E2-66			1035							
E2-67			1037							
E2-68			1038							
E2-69			1040							
E2-71			1143	0-4'						

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Date/Time
				4/13/22 0600	

Revised Date: 08/25/2020 Rev. 2020.2



Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Environment Testing

Xenoco

Work Order No:

Page 8 of 9
www.xenco.com

Work Order Comments						
Program:	UST/PST ☐	PRP ☐	Brownfields ☐	RRC ☐	Superfund ☐	
State of Project:						
Reporting:	Level II ☐	Level III ☐	PST/UST ☐	TRRP ☐	Level IV ☐	
Deliverables:	EDD ☐	ADaPT ☐	Other:			

Project Manager:		Bill to: (if different)	
Company Name:	SEE PAGE 1	Company Name:	SEE PAGE 1
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Project:		Email:	

Project Name:		COTEAU RIVER		Turn Around		ANALYSIS REQUEST										Preservative Codes						
Project Number:		5193		☒ Routine ☐ Rush												None: NO DI Water: H ₂ O						
Project Location:		LEA CO NM		Due Date:												Cool: Cool MeOH: Me						
Sampler's Name:		W. KIEROGNE		TAT starts the day received by the lab, if received by 4:30pm												HCL: HC HNO ₃ : HN NaOH: Na						
PO #:																H ₂ SO ₄ : H ₂ H ₃ PO ₄ : HP						
SAMPLE RECEIPT				Temp Blank:		Yes No		Wet Ice:		Yes No												NaHSO ₄ : NABIS
Samples Received Intact:				Yes No		Thermometer ID:				1-11-21												Na ₂ S ₂ O ₅ : NaSO ₃
Cooler Custody Seals:				Yes No		N/A		Correction Factor:		-0.2												Zn Acetate+NaOH: Zn
Sample Custody Seals:				Yes No		N/A		Temperature Reading:		1.8												NaOH+Ascorbic Acid: SAPC
Total Containers:								Corrected Temperature:		1.6												
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont											Sample Comments				
E2-W2		SOIL	4/9/22	1147	0-4'	Comp	1											X BTEX (8211)				
E2-W3				1150														X TPH (8915)				
E2-W4				1153														X (MLN PCOE) (EPA 300)				
E2-W5				1157																		
E2-W6				1200																		
E2-W7				1204																		
E2-W8				1207																		
E2-W9				1210																		
E2-W10				1215																		
E2-W11				1219																		

Total	200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO_2	Na	Sr	Tl	Sn	U	V	Zn			
Circle Method(s) and Metal(s) to be analyzed																																		

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		4/17/22 0800			

Revised Date: 08/25/2020 Rev: 2020.2

Chain of Custody



Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No:

www.xenco.com Page 7 of 7

Project Manager:	Bill to: (if different)	Work Order Comments
Company Name:	Company Name:	Program: ☐ UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
Address:	Address:	State of Project:
City, State ZIP:	City, State ZIP:	Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Phone:	Email:	Deliverables: EDD ☐ ADAPT ☐ Other:

Project Name:	Project Number:	Project Location:	Sampler's Name:	PO #:	Turn Around				Parameters	Preservative Codes
					Temp Blank:	Temp Blank:	Thermometer ID:	Wet Ice:		
Project Name:	Project Number:	Project Location:	Sampler's Name:	PO #:	Temp Blank:	Temp Blank:	Thermometer ID:	Wet Ice:	Parameters	Preservative Codes
SAMPLE RECEIPT	5198	LEA to NM	W. KEROUCHE		Yes	No	5198	Yes		DI Water: H ₂ O
Samples Received Intact:					Yes	No				Cool: Cool
Cooler Custody Seals:					Yes	No				HCL: HC
Sample Custody Seals:					Yes	No				H ₂ SO ₄ : H ₂
Total Containers:					Yes	No				H ₃ PO ₄ : HP
					Yes	No				NaHSO ₄ : NABIS
					Yes	No				Na ₂ S ₂ O ₅ : NaSO ₃
					Yes	No				Zn Acetate+NaOH: Zn
					Yes	No				NaOH+Ascorbic Acid: SACP

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	TCLP / SPLP 6010 : 8RCRA	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		
3		
5		

Revised Date: 08/25/2020 Rev. 2020.2

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Environment Testing

Xenco

Work Order No:

www.xenco.com Page 1 of 9



Project Manager: Max Cook		Bill to: (if different) EO5 REMEDIATION-MIDLAND	
Company Name: RAMSEY ENV		Company Name: ATTN KEVIN BLANK	
Address: PO BOX 201179		Address: 5500 CHAMPIONS DR	
City, State ZIP: AUSTIN, TX 78720		City, State ZIP: MIDLAND, TX 79705	
Phone: 512-335-1735		Email: MAX@RAMSEYENV.COM	

Project Name: COBALT RISER		Turn Around		Pres. Code	
Project Number: 5198		☒ Routine ☐ Rush			
Project Location: LEA CO NM		Due Date:			
Sampler's Name: M. WILSON		TAT starts the day received by the lab, if received by 4:30pm			
PO #:					

SAMPLE RECEIPT		Temp Blank: ☒ Yes ☒ No		Wet Ice: ☒ Yes ☒ No	
Samples Received Intact:		☒ Yes ☒ No		Thermometer ID: 1-NM-C07	
Cooler Custody Seals:		☒ Yes ☒ No		Correction Factor: -0.2	
Sample Custody Seals:		☒ Yes ☒ No		Temperature Reading: 1.8	
Total Containers:		Corrected Temperature: 1.6			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	Pres. Code
E2-1	SOIL	7/19/22	0743	4-5'	Comp	1	BTEX (8021) TPH (8015) CHLORIDE (EPA 307)	
E2-2			0744					
E2-3			0745					
E2-4			0748					
E2-5			0751					
E2-6			0752					
E2-7			0756					
E2-8			0758					
E2-9			0800					
E2-10			0803					

Total 200.7 / 6010		200.8 / 6020:		8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn	
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U		Hg: 1631 / 245.1 / 7470 / 7471	

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
	<i>[Signature]</i>	7/19/22 0800			

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
 Midland, TX (432) 704-5940, San Antonio, TX (210) 509-3334
 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199



Environment Testing

Xenco

Work Order No: _____

www.xenco.com Page 2 of 7

Project Manager: _____ Bill to: (if different) _____
 Company Name: _____ Company Name: _____
 Address: _____ Address: _____
 City, State ZIP: _____ City, State ZIP: _____
 Phone: _____ Email: _____

Project Name: GRAB RIVER Turn Around _____
 Project Number: 5198 Routine ☒ Rush ☐
 Project Location: LEA CO NM Due Date: _____
 Sampler's Name: W. VIERCORRE TAT starts the day received by the lab, if received by 4:30pm
 PO #: _____

SAMPLE RECEIPT Temp Blank: Yes No Yes Wet Ice: Yes No Yes
 Samples Received Intact: Yes No Yes Thermometer ID: T-14-07
 Cooler Custody Seals: Yes No Yes Correction Factor: -0.2
 Sample Custody Seals: Yes No Yes Temperature Reading: 1.8
 Total Containers: _____ Corrected Temperature: 1.6

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	Pres. Code	ANALYSIS REQUEST	Preservative Codes
E2-11	SOIL	4/9/22	0805	4-5'	Comp	1	BTEX (8021)			None: NO DI Water: H ₂ O
E2-12			0808				TPM (8015)			Cool: Cool MeOH: Me
E2-13			0811				CALMIDE (EPA 300)			HCL: HC HNO ₃ : HN
E2-14			0813							H ₂ SO ₄ : H ₂ NaOH: Na
E2-15			0815							H ₃ PO ₄ : HP
E2-16			0817							NaHSO ₄ : NABIS
E2-17			0818							Na ₂ S ₂ O ₃ : NaSO ₃
E2-18			0819							Zn Acetate+NaOH: Zn
E2-19			0820							NaOH+Ascorbic Acid: SAPC
E2-20			0821							

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<u>[Signature]</u>	<u>[Signature]</u>	4/11/22 0800			

Revised Date: 09/25/2020 Rev. 2020.2

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Environment Testing

Xenco



Work Order No:

www.xenco.com Page 3 of 9

Work Order Comments

Program: ☐ UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project: ☐ Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Reporting: ☐ Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: ☐ EDD ☐ ADAPT ☐ Other:

Project Manager: SEE PAGE 1

Company Name: SEE PAGE 1

Address: SEE PAGE 1

City, State ZIP: SEE PAGE 1

Phone: SEE PAGE 1

Bill to: (if different)

Company Name: SEE PAGE 1

Address: SEE PAGE 1

City, State ZIP: SEE PAGE 1

Email: SEE PAGE 1

ANALYSIS REQUEST

Project Name: CREALT RESER

Project Number: 5198

Project Location: LEA CO NM

Sampler's Name: W. KIEROORE

PO #: 1-11-2017

SAMPLE RECEIPT

Samples Received Intact: ☒ Yes ☐ No

Cooler Custody Seals: ☒ Yes ☐ No

Sample Custody Seals: ☒ Yes ☐ No

Total Containers: 1-6

Turn Around: ☒ Routine ☐ Rush

Due Date: 1-11-2017

TAT starts the day received by the lab, if received by 4:30pm

Wet Ice: ☒ Yes ☐ No

Thermometer ID: 1-11-2017

Correction Factor: -0.2

Temperature Reading: 1.8

Corrected Temperature: 1.6

Parameters

Pres. Code

None: NO

DI Water: H₂O

Cool: Cool

MeOH: Me

HCL: HC

HNO₃: HN

H₂SO₄: H₂

NaOH: Na

H₃PO₄: HP

NaHSO₄: NABIS

Na₂S₂O₃: NaSO₃

Zn Acetate+NaOH: Zn

NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Sample Comments
E2-21	SOIL	4/5/22	0823	4'-5'	Comp	1	
E2-22			0825				
E2-23			0827				
E2-24			0831				
E2-25			0834				
E2-26			0836				
E2-27			0838				
E2-28			0840				
E2-29			0902	3'-4'			
E2-30			0904				

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature) [Signature] Received by: (Signature) [Signature] Date/Time 4/11/22 0810

1

3

5

Revised Date: 06/25/2020 Rev. 2020.2

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
 Midland, TX (432) 704-5440, San Antonio, TX (210) 569-3334
 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Environment Testing
 XENCO



Work Order No:

www.xenco.com Page 7 of 9

Project Manager: SEE PAGE 1
 Company Name: SEE PAGE 1
 Address: SEE PAGE 1
 City, State ZIP: SEE PAGE 1
 Phone: SEE PAGE 1

Bill to: (if different)
 Company Name:
 Address:
 City, State ZIP:
 Email:

Work Order Comments
 Program: ☐ UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
 State of Project:
 Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
 Deliverables: EDD ☐ ADAPT ☐ Other:

Project Name: COBALT RISER
 Project Number: 5198
 Project Location: LEA CO NM
 Sampler's Name: W. WIEROOF
 PO #:

Turn Around
☒ Routine ☐ Rush
 Due Date: 4/11/22
 TAT starts the day received by the lab, if received by 4:30pm

Temp Blank: ☒ Yes ☐ No
 Thermometer ID: 1010
 Correction Factor: -0.2
 Cooler Custody Seals: ☒ Yes ☐ No
 Temperature Reading: 18
 Corrected Temperature: 1.6

Parameters
 Pres. Code
 None: NO
 DI Water: H₂O
 Cool: Cool
 MeOH: Me
 HCL: HC
 HNO₃: HN
 H₂SO₄: H₂
 NaOH: Na
 H₃PO₄: HP
 NaHSO₄: NABIS
 Na₂S₂O₃: NaSO₃
 Zn Acetate+NaOH: Zn
 NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	Pres. Code	ANALYSIS REQUEST	Preservative Codes	Sample Comments
E2-31	SOIL	4/9/22	0907	3-4'	Comp	1					
E2-32			0110								
E2-33			0913								
E2-34			0915								
E2-35			0916								
E2-36			0918								
E2-37			0920								
E2-38			0922								
E2-39			0920								
E2-40			0132								

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$95.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<u>[Signature]</u>	<u>[Signature]</u>	4/11/22 0900			

Revised Date: 08/25/2020 Rev 2020.2

Chain of Custody

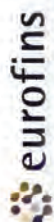
Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Environment Testing

XENCO

Work Order No:

www.xenco.com Page 5 of 7



Project Manager: _____
 Company Name: _____
 Address: _____
 City, State ZIP: _____
 Phone: _____

Bill to: (if different)
 Company Name: _____
 Address: _____
 City, State ZIP: _____
 Email: _____

Project Name: LOGAN RIVER
 Project Number: 5198
 Project Location: LEO U NM
 Sampler's Name: W. KILGORE
 PO #: _____

Turn Around
☒ Routine ☐ Rush
 Due Date: _____
 TAT starts the day received by the lab, if received by 4:30pm

Temp Blank: ☒ Yes ☐ No
 Thermometer ID: 1-11-001
 Correction Factor: -0.2
 Temperature Reading: 1.8
 Corrected Temperature: 1.6

Project Name: LOGAN RIVER
 Project Number: 5198
 Project Location: LEO U NM
 Sampler's Name: W. KILGORE
 PO #: _____

Turn Around
☒ Routine ☐ Rush
 Due Date: _____
 TAT starts the day received by the lab, if received by 4:30pm

Temp Blank: ☒ Yes ☐ No
 Thermometer ID: 1-11-001
 Correction Factor: -0.2
 Temperature Reading: 1.8
 Corrected Temperature: 1.6

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	Pres. Code	ANALYSIS REQUEST	Preservative Codes
E2-41	Soil	4/9/22	0934	3-4'	Comp	1	X (MILKIDE (EPA 300))			None: NO Cool: Cool HCL: HC H ₂ SO ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC
E2-42			0935				X (TPH (8015))			
E2-43			0937				X (BTEX (8011))			
E2-44			0939							
E2-45			0940							
E2-46			0941							
E2-47			0942							
E2-48			0943							
E2-49			0947							
E2-50			0949							

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<u>[Signature]</u>	<u>[Signature]</u>	4/11/2022 5:00 PM			

Revised Date: 08/25/2020 Rev. 2020.2



Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Environment Testing

Xenoco

Work Order No:

Page 6 of 9
www.xenco.com

Work Order Comments									
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐ State of Project: Reporting: Level II ☐ Level III ☐ P57/UST ☐ TRRP ☐ Level IV ☐ Deliverables: EDD ☐ ADaPT ☐ Other:									

Project Manager:	SEE PAGE 2	Bill to: (if different)	
Company Name:		Company Name:	SEE PAGE 1
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:		Email:	

[illegible]

Total	200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO ₂	Na	Sr	Tl	Sn	U	V	Zn
Circle Method(s) and Metal(s) to be analyzed	TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471																														

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco. Its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied in each order and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated with Eurofins Xenco.

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			4/6/22	2		
3				4		
				6		

Prepared Date: 08/05/2020 By: 3630 Z



Chain of Custody

Houston, TX (281) 240-4200; Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Environment Testing

Xenoco

Work Order No:

Page 7 of 9
www.xenco.com

Work Order Comments									
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐									
State of Project:									
Reporting: Level I ☐ Level II ☐ Level III ☐ P57/UST ☐ TRRP ☐ Level IV ☐									
Deliverables: EDD ☐ ADaPT ☐ Other:									

Project Manager:		Bill To: (if different)	
Company Name:	SEE PAGE 1	Company Name:	SEE PAGE 1
Address:		Address:	
City, State ZIP:		City, State ZIP:	
		Email:	

Project Name:		Turn Around		ANALYSIS REQUEST										Preservative Codes	
Project Number:		☒ Routine ☐ Rush												None; NO	
Project Location:		Due Date:												Cool; Cool	
Sampler's Name:		TAT starts the day received by the lab, if received by 4:30pm												HCL- HC	
PO #:														H ₂ SO ₄ ; H ₂	
COBALT RISE														H ₃ PO ₄ ; HP	
5198														NaHSO ₄ ; NABIS	
LEA CO. NM														Na ₂ S ₂ O ₃ ; NaSO ₃	
W. KERR JONES														Zn Acetate+NaOH; Zn	
														NaOH+Ascorbic Acid; SAPC	
SAMPLE RECEIPT															
Samples Received Intact:		Temp Blank:		Yes No		Wet Ice:		Yes No		Thermometer ID:					
Cooler Custody Seals:		Yes No		Yes No		Correction Factor:		Yes No		Temperature Readings:		1.07			
Sample Custody Seals:		Yes No		Yes No		Corrected Temperature:		1.07							
Total Containers:															
Sample Identification		Matrix		Date Sampled		Time Sampled		Depth		Grab/Comp		# of Cont			
E2-61		SPEL		4/9/22		1022		3'-4'		COMO		1			
E2-62						1027									
E2-63						1028									
E2-64						1030									
E2-65						1032									
E2-66						1035									
E2-67						1037									
E2-68						1038									
E2-69						1040									
E2-70						1102									

Total	200.7 / 6010	200.8 / 6020:	8RCRA	13PPM	Texas	11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO ₂	Na	Sr	Ti	Sn	U	V	Zn																												
																																	Circle Method(s) and Metal(s) to be analyzed										TCLP / SPLP6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U										Hg: 1631 / 245.1 / 7470 / 7471									

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco. Its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$95.00 will be applied to each order and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			4/1/22 0600	2		
3				4		
				6		

Registered Nurse - 0697578300



Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Environment Testing

Work Order No:

Page 8 of 9
www.xenco.com

Work Order Comments

Program: UST/PST ☐ PAP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other: _____

Project Manager:		Bill to: (if different)	
Company Name:	SEE PAGE 1	Company Name:	SEE PAGE 1
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:		Email:	

Project Name:		COTEAU RIVER		Turn Around		ANALYSIS REQUEST										Preservative Codes						
Project Number:		5193		☒ Routine ☐ Rush												None: NO DI Water: H ₂ O						
Project Location:		LEA CO NM		Due Date:												Cool: Cool MeOH: Me						
Sampler's Name:		W. KIEROGOS		TAT starts the day received by the lab, if received by 4:30pm												HCL: HC HNO ₃ : HN NaOH: Na						
PO #:																H ₂ SO ₄ : H ₂ H ₃ PO ₄ : HP						
SAMPLE RECEIPT				Temp Blank:		Yes No		Wet Ice:		Yes No												NaHSO ₄ : NABIS
Samples Received Intact:				Yes No		Thermometer ID:				1714-21												Na ₂ S ₂ O ₅ : NaSO ₁
Cooler Custody Seals:				Yes No		N/A		Correction Factor:		-0.2												Zn Acetate+NaOH: Zn
Sample Custody Seals:				Yes No		N/A		Temperature Reading:		1.8												NaOH+Ascorbic Acid: SAPC
Total Containers:								Corrected Temperature:		1.6												
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont											Sample Comments				
E2-W2		SOIL	4/9/02	1147	0-4'	Comp	1	X BTEX (8911)														
E2-W3				1150				X TPH (8915)														
E2-W4				1153				X (MILPCE (EPA 300))														
E2-W5				1157																		
E2-W6				1200																		
E2-W7				1204																		
E2-W8				1207																		
E2-W9				1210																		
E2-W10				1215																		
E2-W11				1219																		

[illegible]

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$45.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		4/17/22 0800			

Revised Date: 08/25/2020 Rev. 2020.2

Chain of Custody



Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No:

www.xenco.com Page 7 of 7

Project Manager: SEE PAGE 1

Company Name: SEE PAGE 1

Address: SEE PAGE 1

City, State ZIP: SEE PAGE 1

Phone: SEE PAGE 1

Bill to: (if different)

Company Name: SEE PAGE 1

Address: SEE PAGE 1

City, State ZIP: SEE PAGE 1

Email: SEE PAGE 1

Project Name: COAL RESER

Project Number: 5198

Project Location: LEA CO NM

Sampler's Name: W. KERRIDGE

PO #: 16

Temp Blank: Yes No No Yes

Samples Received Intact: Yes No No Yes

Cooler Custody Seals: Yes No No Yes

Sample Custody Seals: Yes No No Yes

Total Containers: 16

Turn Around: 16

Due Date: 16

TAT starts the day received by the lab, if received by 4:30pm

Thermometer ID: 16

Correction Factor: 1.0

Temperature Reading: 1.0

Corrected Temperature: 1.0

ANALYSIS REQUEST				PRESERVATIVE CODES			
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Pres. Code
E2-W12	505L	4/9/22	1224	0-4	Comp	1	None: NO
E2-W13			1227				Cool: Cool
E2-W14			1231				HCL: HC
E2-W15			1235				H ₂ SO ₄ : H ₂
EM-1			1512	5'			H ₃ PO ₄ : HP
EM-2			1512				NaHSO ₄ : NABIS
EM-3			1514				Na ₂ S ₂ O ₅ : NaSO ₃
EM-4			1516				Zn Acetate+NaOH: Zn
EM-W1			1518	0-5'			NaOH+Ascorbic Acid: SACP
				Sample Comments			
				X BTEX (8041)			
				X TPA (8015)			
				X CHMIDE (EMA 300)			

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Date/Time
<u>[Signature]</u>	<u>[Signature]</u>	<u>4/14/22</u>	<u>0900</u>
<u>[Signature]</u>	<u>[Signature]</u>	<u>4</u>	<u>4</u>
<u>[Signature]</u>	<u>[Signature]</u>	<u>6</u>	<u>6</u>

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ranger Environmental Services, Inc

Job Number: 890-2178-1

S6 D Number: G198

Login Number: 2178

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

Question	Answer	Comment
5Te cooler's custo' d seal, iyf resent, is intactp	5rue	
Samf le custo' d seals, iyf resent, are intactp	5rue	
5Te cooler or samf les ' o not af f ear to Tave been comf romise' or tamf ere' . itTp	5rue	
Samf les . ere receive' on icep	5rue	
Cooler 5emf erature is accef tablep	5rue	
Cooler 5emf erature is recor' e' p	5rue	
CwC is f resentp	5rue	
CwC is yille' out in inOan' legiblep	5rue	
CwC is yille' out . itT all f ertinent inyormationp	5rue	
Is tTe kiel' Samf ler's name f resent on CwCF	5rue	
5Tere are no ' iscref ancies bet. een tTe containers receive' an' tTe CwCp	5rue	
Samf les are receive' . itTin ? ol' ing 5ime H (clu' ing tests . itT imme' iate ? 5sx	5rue	
Samf le containers Tave legible labels	5rue	
Containers are not broQen or leaQngp	5rue	
Samf le collection ' ate)times are f rovi' e' p	5rue	
/ f f rof riate samf le containers are use' p	5rue	
Samf le bottles are comf leteld yille' p	5rue	
Samf le Areservation Perije' p	NY	
5Tere is suyicient volpyor all reVueste' analdses, inclpand reVueste' q S)q S6 s	5rue	
Containers reVuiring Mero Tea' sf ace Tave no Tea' sf ace or bubble is z<mm H)4"xp	NY	

Login Sample Receipt Checklist

Client: Ranger Environmental Services, Inc

Job Number: 890-2178-1

S6 D Number: G198

Login Number: 2178

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 04/11/22 02:33 PM

Question	Answer	Comment
5Te cooler's custo' d seal, iyf resent, is intactp	NY	
Samf le custo' d seals, iyf resent, are intactp	NY	
5Te cooler or samf les ' o not af f ear to Tave been comf romise' or tamf ere' . itTp	5rue	
Samf les . ere receive' on icep	5rue	
Cooler 5emf erature is accef tablep	5rue	
Cooler 5emf erature is recor' e' p	5rue	
CwC is f resentp	5rue	
CwC is yille' out in inOan' legiblep	5rue	
CwC is yille' out . itT all f ertinent inyormationp	5rue	
Is tTe kiel' Samf ler's name f resent on CwCF	5rue	
5Tere are no ' iscref ancies bet. een tTe containers receive' an' tTe CwCp	5rue	
Samf les are receive' . itTin ? ol' ing 5ime H (clu' ing tests . itT imme' iate ? 5sx	5rue	
Samf le containers Tave legible labels	5rue	
Containers are not broQen or leaQngp	5rue	
Samf le collection ' ate)times are f rovi' e' p	5rue	
/ f f rof riate samf le containers are use' p	5rue	
Samf le bottles are comf leteld yille' p	5rue	
Samf le Areservation Periyie' p	NY	
5Tere is suyicient volpyor all reVueste' analdses, inclpand reVueste' q S)q S6 s	5rue	
Containers reVuiring Mero Tea' sf ace Tave no Tea' sf ace or bubble is z<mm H)4"xp	NY	



Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-2276-1
Laboratory Sample Delivery Group: 5198
Client Project/Site: Cobalt Riser

For:
Ranger Environmental Services, Inc
PO BOX 201179
Austin, Texas 78729

Attn: Max Cook

A handwritten signature in black ink that reads "Holly Taylor".

Authorized for release by:
5/10/2022 8:06:01 AM

Holly Taylor, Project Manager
(806)794-1296
Holly.Taylor@et.eurofinsus.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Laboratory Job ID: 890-2276-1
SDG: 5198

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	12
QC Sample Results	13
QC Association Summary	17
Lab Chronicle	20
Certification Summary	23
Method Summary	24
Sample Summary	25
Chain of Custody	26
Receipt Checklists	27

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Definitions/Glossary

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2276-1
SDG: 5198

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2276-1
SDG: 5198

Job ID: 890-2276-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2276-1

Comments

No additional comments.

Receipt

The samples were received on 5/4/2022 4:43 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 28.2° C.

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-24987 and analytical batch 880-24939 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method 8015B NM: Surrogate recovery for the following samples were outside control limits: EW-1 (890-2276-3), EW-4 (890-2276-6) and E2-15A (890-2276-8). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2217-6
SDG: 5698

Client Sample ID: E2-17A

Date Collected: 05/04/22 13:07

Date Received: 05/04/22 16:43

Sample Depth: 9

Lab Sample ID: 890-2276-1

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00206	3	0.00206	0.000081	mg/Kg	-	05/07/22 6U:02	05/07/22 22:22	6
Toluene	<0.00206	3	0.00206	0.000459	mg/Kg	-	05/07/22 6U:02	05/07/22 22:22	6
Ethylbenzene	<0.00206	3	0.00206	0.000578	mg/Kg	-	05/07/22 6U:02	05/07/22 22:22	6
m,p-Xylenes	<0.00402	3	0.00402	0.00602	mg/Kg	-	05/07/22 6U:02	05/07/22 22:22	6
o-Xylene	<0.00206	3	0.00206	0.000047	mg/Kg	-	05/07/22 6U:02	05/07/22 22:22	6
Xylenes, Total	<0.00402	3	0.00402	0.00602	mg/Kg	-	05/07/22 6U:02	05/07/22 22:22	6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	994		70 - 910	03/02/: : 918:	03/02/: : : 8 :	9
9,4-Difluorobenzene (Surr)	50		70 - 910	03/02/: : 918:	03/02/: : : 8 :	9

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	3	0.00402	0.00602	mg/Kg	-		05/09/22 65:2U	6

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	3	50.0	65.0	mg/Kg	-		05/09/22 62:05	6

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C7-C60	<50.0	3	50.0	65.0	mg/Kg	-	05/07/22 64:U8	05/01/22 2U:0U	6
Diesel Range Organics (Over C60-C28)	<50.0	3	50.0	65.0	mg/Kg	-	05/07/22 64:U8	05/01/22 2U:0U	6
Oil Range Organics (Over C28-CU7)	<50.0	3	50.0	65.0	mg/Kg	-	05/07/22 64:U8	05/01/22 2U:0U	6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
9-6 Chlorohd ne	991		70 - 910	03/02/: : 948la	03/07/: : : 1801	9
o-TerpCenyl	9 :		70 - 910	03/02/: : 948la	03/07/: : : 1801	9

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	255		4.98	0.855	mg/Kg	-		05/01/22 02:45	6

Client Sample ID: E2-18A

Date Collected: 05/04/22 13:09

Date Received: 05/04/22 16:43

Sample Depth: 9

Lab Sample ID: 890-2276-2

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00699	3	0.00699	0.00008U	mg/Kg	-	05/07/22 6U:02	05/07/22 22:42	6
Toluene	<0.00699	3	0.00699	0.000454	mg/Kg	-	05/07/22 6U:02	05/07/22 22:42	6
Ethylbenzene	<0.00699	3	0.00699	0.00057U	mg/Kg	-	05/07/22 6U:02	05/07/22 22:42	6
m,p-Xylenes	<0.00U98	3	0.00U98	0.00606	mg/Kg	-	05/07/22 6U:02	05/07/22 22:42	6
o-Xylene	<0.00699	3	0.00699	0.00004U	mg/Kg	-	05/07/22 6U:02	05/07/22 22:42	6
Xylenes, Total	<0.00U98	3	0.00U98	0.00606	mg/Kg	-	05/07/22 6U:02	05/07/22 22:42	6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	991		70 - 910	03/02/: : 918:	03/02/: : : 8:	9

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2217-6
SDG: 5698

Client Sample ID: E2-18A

Lab Sample ID: 890-2276-2

Date Collected: 05/04/22 13:09

Matrix: Solid

Date Received: 05/04/22 16:43

Sample Depth: 9

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
9,4-Difluorobenzene (Surr)	50		70 - 910	03/02/: : 9180	03/02/: : : 8:	9

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00U98	3	0.00U98	0.00606	mg/Kg	-		05/09/22 65:2U	6

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	3	49.9	65.0	mg/Kg	-		05/09/22 62:05	6

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C7-C60	<49.9	3	49.9	65.0	mg/Kg	-	05/07/22 64:U8	05/08/22 00:0U	6
Diesel Range Organics (Over C60-C28)	<49.9	3	49.9	65.0	mg/Kg	-	05/07/22 64:U8	05/08/22 00:0U	6
Oil Range Organics (Over C28-CU7)	<49.9	3	49.9	65.0	mg/Kg	-	05/07/22 64:U8	05/08/22 00:0U	6
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
9-6 Chlorohd ne	901		70 - 910				03/02/: : 9481a	03/0a/: : 00801	9
o-TerpCenyl	99:		70 - 910				03/02/: : 9481a	03/0a/: : 00801	9

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	314		5.06	0.870	mg/Kg	-		05/01/22 02:54	6

Client Sample ID: EW-1

Lab Sample ID: 890-2276-3

Date Collected: 05/04/22 13:11

Matrix: Solid

Date Received: 05/04/22 16:43

Sample Depth: 4 - 9

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00698	3	0.00698	0.000U82	mg/Kg	-	05/07/22 6U:02	05/07/22 2U:0U	6
Toluene	<0.00698	3	0.00698	0.000452	mg/Kg	-	05/07/22 6U:02	05/07/22 2U:0U	6
Ethylbenzene	<0.00698	3	0.00698	0.000576	mg/Kg	-	05/07/22 6U:02	05/07/22 2U:0U	6
m,p-Xylenes	<0.00U91	3	0.00U91	0.00600	mg/Kg	-	05/07/22 6U:02	05/07/22 2U:0U	6
o-Xylene	<0.00698	3	0.00698	0.000U46	mg/Kg	-	05/07/22 6U:02	05/07/22 2U:0U	6
Xylenes, Total	<0.00U91	3	0.00U91	0.00600	mg/Kg	-	05/07/22 6U:02	05/07/22 2U:0U	6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	: 55	S9+	70 - 910	03/02/: : 9180	03/02/: : : 1801	9
9,4-Difluorobenzene (Surr)	: 1a	S9+	70 - 910	03/02/: : 9180	03/02/: : : 1801	9

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00U91	3	0.00U91	0.00600	mg/Kg	-		05/09/22 65:2U	6

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	3	50.0	65.0	mg/Kg	-		05/09/22 62:05	6

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2217-6
SDG: 5698

Client Sample ID: EW-1

Date Collected: 05/04/22 13:11

Date Received: 05/04/22 16:43

Sample Depth: 4 - 9

Lab Sample ID: 890-2276-3

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C7-C60	<50.0	3	50.0	65.0	mg/Kg	-	05/07/22 64:U8	05/08/22 00:2U	6
Diesel Range Organics (Over C60-C28)	<50.0	3	50.0	65.0	mg/Kg	-	05/07/22 64:U8	05/08/22 00:2U	6
Oil Range Organics (Over C28-CU7)	<50.0	3	50.0	65.0	mg/Kg	-	05/07/22 64:U8	05/08/22 00:2U	6
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
9-6 Chlorohd ne	9:		70 - 910				03/02/: : 9481a	03/0a/: : 008 1	9
o-TerpCenyl	91:	S9+	70 - 910				03/02/: : 9481a	03/0a/: : 008 1	9

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	503		5.02	0.872	mg/Kg	-		05/01/22 0U:0U	6

Client Sample ID: EW-2

Date Collected: 05/04/22 13:13

Date Received: 05/04/22 16:43

Sample Depth: 4 - 9

Lab Sample ID: 890-2276-4

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	3	0.00200	0.000U85	mg/Kg	-	05/07/22 6U:02	05/07/22 2U:2U	6
Toluene	<0.00200	3	0.00200	0.000457	mg/Kg	-	05/07/22 6U:02	05/07/22 2U:2U	6
Ethylbenzene	<0.00200	3	0.00200	0.000575	mg/Kg	-	05/07/22 6U:02	05/07/22 2U:2U	6
m,p-Xylenes	<0.00400	3	0.00400	0.00606	mg/Kg	-	05/07/22 6U:02	05/07/22 2U:2U	6
o-Xylene	<0.00200	3	0.00200	0.000U44	mg/Kg	-	05/07/22 6U:02	05/07/22 2U:2U	6
Xylenes, Total	<0.00400	3	0.00400	0.00606	mg/Kg	-	05/07/22 6U:02	05/07/22 2U:2U	6
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	994		70 - 910				03/02/: : 9180:	03/02/: : 18 1	9
9,4-Difluorobenzene (Surr)	50		70 - 910				03/02/: : 9180:	03/02/: : 18 1	9

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	3	0.00400	0.00606	mg/Kg	-		05/09/22 65:2U	6

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	3	50.0	65.0	mg/Kg	-		05/09/22 62:05	6

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C7-C60	<50.0	3	50.0	65.0	mg/Kg	-	05/07/22 64:U8	05/08/22 00:4U	6
Diesel Range Organics (Over C60-C28)	<50.0	3	50.0	65.0	mg/Kg	-	05/07/22 64:U8	05/08/22 00:4U	6
Oil Range Organics (Over C28-CU7)	<50.0	3	50.0	65.0	mg/Kg	-	05/07/22 64:U8	05/08/22 00:4U	6
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
9-6 Chlorohd ne	5:		70 - 910				03/02/: : 9481a	03/0a/: : 0081	9
o-TerpCenyl	90:		70 - 910				03/02/: : 9481a	03/0a/: : 0081	9

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2217-6
SDG: 5698

Client Sample ID: EW-2

Date Collected: 05/04/22 13:13

Date Received: 05/04/22 16:43

Sample Depth: 4 - 9

Lab Sample ID: 890-2276-4

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.8		5.02	0.872	mg/Kg			05/01/22 00:62	6

Client Sample ID: EW-3

Date Collected: 05/04/22 15:00

Date Received: 05/04/22 16:43

Sample Depth: 4 - 9

Lab Sample ID: 890-2276-5

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	3	0.00200	0.000087	mg/Kg		05/07/22 6U:02	05/07/22 2U:44	6
Toluene	<0.00200	3	0.00200	0.000451	mg/Kg		05/07/22 6U:02	05/07/22 2U:44	6
Ethylbenzene	<0.00200	3	0.00200	0.000577	mg/Kg		05/07/22 6U:02	05/07/22 2U:44	6
m,p-Xylenes	<0.00406	3	0.00406	0.00606	mg/Kg		05/07/22 6U:02	05/07/22 2U:44	6
o-Xylene	<0.00200	3	0.00200	0.000045	mg/Kg		05/07/22 6U:02	05/07/22 2U:44	6
Xylenes, Total	<0.00406	3	0.00406	0.00606	mg/Kg		05/07/22 6U:02	05/07/22 2U:44	6
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	993		70 - 910				03/02/: : 9180:	03/02/: : : 1844	9
9,4-Difluorobenzene (Surr)	51		70 - 910				03/02/: : 9180:	03/02/: : : 1844	9

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00406	3	0.00406	0.00606	mg/Kg			05/09/22 65:2U	6

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	3	49.9	65.0	mg/Kg			05/09/22 62:05	6

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C7-C60	<49.9	3	49.9	65.0	mg/Kg		05/07/22 64:U8	05/08/22 06:0U	6
Diesel Range Organics (Over C60-C28)	<49.9	3	49.9	65.0	mg/Kg		05/07/22 64:U8	05/08/22 06:0U	6
Oil Range Organics (Over C28-CU7)	<49.9	3	49.9	65.0	mg/Kg		05/07/22 64:U8	05/08/22 06:0U	6
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
9-6 Chloroohd ne	99:		70 - 910				03/02/: : 9481a	03/0a/: : : 0981	9
o-TerpCenyl	9: 4		70 - 910				03/02/: : 9481a	03/0a/: : : 0981	9

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.0		5.00	0.858	mg/Kg			05/01/22 0U:26	6

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2217-6
SDG: 5698

Client Sample ID: EW-4

Lab Sample ID: 890-2276-6

Date Collected: 05/04/22 15:02

Matrix: Solid

Date Received: 05/04/22 16:43

Sample Depth: 4 - 9

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	3	0.00202	0.000089	mg/Kg	-	05/07/22 6U:02	05/01/22 00:04	6
Toluene	<0.00202	3	0.00202	0.000476	mg/Kg	-	05/07/22 6U:02	05/01/22 00:04	6
Ethylbenzene	<0.00202	3	0.00202	0.000516	mg/Kg	-	05/07/22 6U:02	05/01/22 00:04	6
m,p-Xylenes	<0.00404	3	0.00404	0.00602	mg/Kg	-	05/07/22 6U:02	05/01/22 00:04	6
o-Xylene	<0.00202	3	0.00202	0.000041	mg/Kg	-	05/07/22 6U:02	05/01/22 00:04	6
Xylenes, Total	<0.00404	3	0.00404	0.00602	mg/Kg	-	05/07/22 6U:02	05/01/22 00:04	6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	992		70 - 910	03/02/: : 918:	03/07/: : 0084	9
9,4-Difluorobenzene (Surr)	aa		70 - 910	03/02/: : 918:	03/07/: : 0084	9

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	3	0.00404	0.00602	mg/Kg	-		05/09/22 65:2U	6

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	3	49.9	65.0	mg/Kg	-		05/09/22 62:05	6

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C7-C60	<49.9	3	49.9	65.0	mg/Kg	-	05/07/22 64:U8	05/08/22 06:2U	6
Diesel Range Organics (Over C60-C28)	<49.9	3	49.9	65.0	mg/Kg	-	05/07/22 64:U8	05/08/22 06:2U	6
Oil Range Organics (Over C28-CU7)	<49.9	3	49.9	65.0	mg/Kg	-	05/07/22 64:U8	05/08/22 06:2U	6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
9-6 Chlorohd ne	9: 9		70 - 910	03/02/: : 948la	03/0a/: : 098 1	9
o-TerpCenyl	914	S9+	70 - 910	03/02/: : 948la	03/0a/: : 098 1	9

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.5		4.91	0.85U	mg/Kg	-		05/01/22 0U:U0	6

Client Sample ID: E2-14A

Lab Sample ID: 890-2276-7

Date Collected: 05/04/22 15:04

Matrix: Solid

Date Received: 05/04/22 16:43

Sample Depth: 9

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	3	0.00202	0.000088	mg/Kg	-	05/07/22 6U:02	05/01/22 00:25	6
Toluene	<0.00202	3	0.00202	0.000470	mg/Kg	-	05/07/22 6U:02	05/01/22 00:25	6
Ethylbenzene	<0.00202	3	0.00202	0.000510	mg/Kg	-	05/07/22 6U:02	05/01/22 00:25	6
m,p-Xylenes	<0.0040U	3	0.0040U	0.00602	mg/Kg	-	05/07/22 6U:02	05/01/22 00:25	6
o-Xylene	<0.00202	3	0.00202	0.000041	mg/Kg	-	05/07/22 6U:02	05/01/22 00:25	6
Xylenes, Total	<0.0040U	3	0.0040U	0.00602	mg/Kg	-	05/07/22 6U:02	05/01/22 00:25	6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	992		70 - 910	03/02/: : 918:	03/07/: : 008 3	9

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2217-6
SDG: 5698

Client Sample ID: E2-14A

Lab Sample ID: 890-2276-7

Date Collected: 05/04/22 15:04

Matrix: Solid

Date Received: 05/04/22 16:43

Sample Depth: 9

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
9,4-Difluorobenzene (Surr)	a7		70 - 910	03/02/: : 9180	03/07/: : 008 3	9

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0040U	3	0.0040U	0.00602	mg/Kg			05/09/22 65:2U	6

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	3	50.0	65.0	mg/Kg			05/09/22 62:05	6

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C7-C60	<50.0	3	50.0	65.0	mg/Kg		05/07/22 64:U8	05/08/22 06:4U	6
Diesel Range Organics (Over C60-C28)	<50.0	3	50.0	65.0	mg/Kg		05/07/22 64:U8	05/08/22 06:4U	6
Oil Range Organics (Over C28-CU7)	<50.0	3	50.0	65.0	mg/Kg		05/07/22 64:U8	05/08/22 06:4U	6
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
9-6 Chlorohd ne	992		70 - 910				03/02/: : 9481a	03/0a/: : 09811	9
o-TerpCenyl	910		70 - 910				03/02/: : 9481a	03/0a/: : 09811	9

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.9		4.97	0.856	mg/Kg			05/01/22 0U:U8	6

Client Sample ID: E2-15A

Lab Sample ID: 890-2276-8

Date Collected: 05/04/22 15:06

Matrix: Solid

Date Received: 05/04/22 16:43

Sample Depth: 9

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00699	3	0.00699	0.000U8U	mg/Kg		05/07/22 6U:02	05/01/22 00:45	6
Toluene	<0.00699	3	0.00699	0.00045U	mg/Kg		05/07/22 6U:02	05/01/22 00:45	6
Ethylbenzene	<0.00699	3	0.00699	0.000572	mg/Kg		05/07/22 6U:02	05/01/22 00:45	6
m,p-Xylenes	<0.00U98	3	0.00U98	0.00600	mg/Kg		05/07/22 6U:02	05/01/22 00:45	6
o-Xylene	<0.00699	3	0.00699	0.000U42	mg/Kg		05/07/22 6U:02	05/01/22 00:45	6
Xylenes, Total	<0.00U98	3	0.00U98	0.00600	mg/Kg		05/07/22 6U:02	05/01/22 00:45	6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	992		70 - 910	03/02/: : 9180	03/07/: : 00813	9
9,4-Difluorobenzene (Surr)	50		70 - 910	03/02/: : 9180	03/07/: : 00813	9

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00U98	3	0.00U98	0.00600	mg/Kg			05/09/22 65:2U	6

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	3	49.8	64.9	mg/Kg			05/09/22 62:05	6

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2217-6
SDG: 5698

Client Sample ID: E2-15A

Lab Sample ID: 890-2276-8

Date Collected: 05/04/22 15:06

Matrix: Solid

Date Received: 05/04/22 16:43

Sample Depth: 9

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C7-C60	<49.8	3	49.8	64.9	mg/Kg		05/07/22 64:U8	05/08/22 02:0U	6
Diesel Range Organics (Over C60-C28)	<49.8	3	49.8	64.9	mg/Kg		05/07/22 64:U8	05/08/22 02:0U	6
Oil Range Organics (Over C28-CU7)	<49.8	3	49.8	64.9	mg/Kg		05/07/22 64:U8	05/08/22 02:0U	6
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
9-6 Doroohd ne	9: 3		70 - 910				03/02/: : 9481a	03/0a/: : 0: 81	9
o-TerpCenyl	912	S9+	70 - 910				03/02/: : 9481a	03/0a/: : 0: 81	9

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.8		4.95	0.850	mg/Kg			05/07/22 22:28	6

Surrogate Summary

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2276-1
SDG: 5198

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-2276-1	E2-17A	114	90
890-2276-2	E2-18A	113	90
890-2276-3	EW-1	299 S1+	238 S1+
890-2276-4	EW-2	114	90
890-2276-5	EW-3	115	93
890-2276-6	EW-4	116	88
890-2276-7	E2-14A	116	87
890-2276-8	E2-15A	116	90
LCS 880-24987/1-A	Lab Control Sample	108	94
LCSD 880-24987/2-A	Lab Control Sample Dup	114	95
MB 880-24939/8	Method Blank	99	91
MB 880-24987/5-A	Method Blank	104	90
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-2276-1	E2-17A	113	122
890-2276-1 MS	E2-17A	89	86
890-2276-1 MSD	E2-17A	89	84
890-2276-2	E2-18A	103	112
890-2276-3	EW-1	121	132 S1+
890-2276-4	EW-2	92	102
890-2276-5	EW-3	112	124
890-2276-6	EW-4	121	134 S1+
890-2276-7	E2-14A	116	130
890-2276-8	E2-15A	125	136 S1+
LCS 880-24992/2-A	Lab Control Sample	102	107
LCSD 880-24992/3-A	Lab Control Sample Dup	108	114
MB 880-24992/1-A	Method Blank	101	115
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

Eurofins Carlsbad

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2217-6
SDG: 5698

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-24939/8

Matrix: Solid

Analysis Batch: 24939

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	3	0.00200	0.000085	mg/Kg			05/07/22 66:04	6
Toluene	<0.00200	3	0.00200	0.000457	mg/Kg			05/07/22 66:04	6
Ethylbenzene	<0.00200	3	0.00200	0.000575	mg/Kg			05/07/22 66:04	6
m,p-Xylenes	<0.00400	3	0.00400	0.00606	mg/Kg			05/07/22 66:04	6
o-Xylene	<0.00200	3	0.00200	0.000044	mg/Kg			05/07/22 66:04	6
Xylenes, Total	<0.00400	3	0.00400	0.00606	mg/Kg			05/07/22 66:04	6

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		87 - 017		73/72/: : 00,74	0
0,4-di Fluorobenzene (Surr)	90		87 - 017		73/72/: : 00,74	0

Lab Sample ID: MB 880-24987/5-A

Matrix: Solid

Analysis Batch: 24939

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24987

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	3	0.00200	0.000085	mg/Kg		05/07/22 6U:02	05/07/22 26:40	6
Toluene	<0.00200	3	0.00200	0.000457	mg/Kg		05/07/22 6U:02	05/07/22 26:40	6
Ethylbenzene	<0.00200	3	0.00200	0.000575	mg/Kg		05/07/22 6U:02	05/07/22 26:40	6
m,p-Xylenes	<0.00400	3	0.00400	0.00606	mg/Kg		05/07/22 6U:02	05/07/22 26:40	6
o-Xylene	<0.00200	3	0.00200	0.000044	mg/Kg		05/07/22 6U:02	05/07/22 26:40	6
Xylenes, Total	<0.00400	3	0.00400	0.00606	mg/Kg		05/07/22 6U:02	05/07/22 26:40	6

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	074		87 - 017	73/72/: : 01,7:	73/72/: : : 0,47	0
0,4-di Fluorobenzene (Surr)	97		87 - 017	73/72/: : 01,7:	73/72/: : : 0,47	0

Lab Sample ID: LCS 880-24987/1-A

Matrix: Solid

Analysis Batch: 24939

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 24987

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.600	0.01850		mg/Kg		19	10 - 6U0
Toluene	0.600	0.08029		mg/Kg		8U	10 - 6U0
Ethylbenzene	0.600	0.08975		mg/Kg		90	10 - 6U0
m,p-Xylenes	0.200	0.6807		mg/Kg		92	10 - 6U0
o-Xylene	0.600	0.09098		mg/Kg		94	10 - 6U0

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	07h		87 - 017
0,4-di Fluorobenzene (Surr)	94		87 - 017

Lab Sample ID: LCSD 880-24987/2-A

Matrix: Solid

Analysis Batch: 24939

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 24987

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.600	0.01077		mg/Kg		14	10 - 6U0	7	U5

Eurofins Carlsbad

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2217-6
SDG: 5698

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-24987/2-A

Matrix: Solid

Analysis Batch: 24939

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 24987

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.600	0.01818		mg/Kg		19	10 - 6U0	7	U5
Ethylbenzene	0.600	0.08474		mg/Kg		85	10 - 6U0	7	U5
m,p-Xylenes	0.200	0.61U7		mg/Kg		81	10 - 6U0	7	U5
o-Xylene	0.600	0.0902U		mg/Kg		90	10 - 6U0	4	U5

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	004		87 - 017
0,4-di-Fluorobenzene (Surr)	93		87 - 017

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-24992/1-A

Matrix: Solid

Analysis Batch: 25017

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24992

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C7-C60	<50.0	3	50.0	65.0	mg/Kg		05/07/22 64:U8	05/01/22 26:59	6
Diesel Range Organics (Over C60-C28)	<50.0	3	50.0	65.0	mg/Kg		05/07/22 64:U8	05/01/22 26:59	6
Oil Range Organics (Over C28-CU7)	<50.0	3	50.0	65.0	mg/Kg		05/07/22 64:U8	05/01/22 26:59	6

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
0-c t l o r o o a 5 T n e	070		87 - 017	73/72/: : 04,1h	73/78/: : 0,39	0
o-p e r y t e n 6 l	003		87 - 017	73/72/: : 04,1h	73/78/: : 0,39	0

Lab Sample ID: LCS 880-24992/2-A

Matrix: Solid

Analysis Batch: 25017

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 24992

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C7-C60	6000	6095		mg/Kg		609	10 - 6U0
Diesel Range Organics (Over C60-C28)	6000	927.5		mg/Kg		9U	10 - 6U0

Surrogate	LCS %Recovery	LCS Qualifier	Limits
0-c t l o r o o a 5 T n e	07		87 - 017
o-p e r y t e n 6 l	078		87 - 017

Lab Sample ID: LCSD 880-24992/3-A

Matrix: Solid

Analysis Batch: 25017

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 24992

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C7-C60	6000	6081		mg/Kg		609	10 - 6U0	6	20
Diesel Range Organics (Over C60-C28)	6000	968.9		mg/Kg		92	10 - 6U0	6	20

Eurofins Carlsbad

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2217-6
SDG: 5698

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-24992/3-A

Matrix: Solid

Analysis Batch: 25017

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 24992

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
<i>O-c t l o r o o a 5 T n e</i>	07h		87 - 017
<i>o-p e r y t e n 6 l</i>	004		87 - 017

Lab Sample ID: 890-2276-1 MS

Matrix: Solid

Analysis Batch: 25017

Client Sample ID: E2-17A

Prep Type: Total/NA

Prep Batch: 24992

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C7-C60	<50.0	3	6000	60U8		mg/Kg		604	10 - 6U0		
Diesel Range Organics (Over C60-C28)	<50.0	3	6000	180.9		mg/Kg		18	10 - 6U0		
Surrogate	MS %Recovery	MS Qualifier	Limits								
0-c t l o r o o a 5 T n e	h9		87 - 017								
o-p e r y t e n 6 l	h2		87 - 017								

Lab Sample ID: 890-2276-1 MSD

Matrix: Solid

Analysis Batch: 25017

Client Sample ID: E2-17A

Prep Type: Total/NA

Prep Batch: 24992

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C7-C60	<50.0	3	998	6044		mg/Kg		605	10 - 6U0	6	20
Diesel Range Organics (Over C60-C28)	<50.0	3	998	178.4		mg/Kg		11	10 - 6U0	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
<i>O-c t l o r o o a 5 T n e</i>	<i>h9</i>		<i>87 - 017</i>								
<i>o-p e r y t e n 6 l</i>	<i>h4</i>		<i>87 - 017</i>								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-24817/1-A

Matrix: Solid

Analysis Batch: 24945

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	3	5.00	0.858	mg/Kg			05/07/22 68:0U	6

Lab Sample ID: LCS 880-24817/2-A

Matrix: Solid

Analysis Batch: 24945

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	270.9		mg/Kg		604	90 - 660

Eurofins Carlsbad

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2217-6
SDG: 5698

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-24817/3-A

Matrix: Solid

Analysis Batch: 24945

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	259.4		mg/Kg		604	90 - 660	6	20

Lab Sample ID: MB 880-24965/1-A

Matrix: Solid

Analysis Batch: 25041

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	3	5.00	0.858	mg/Kg			05/07/22 2U6U	6

Lab Sample ID: LCS 880-24965/2-A

Matrix: Solid

Analysis Batch: 25041

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250	255.2		mg/Kg		602	90 - 660		

Lab Sample ID: LCSD 880-24965/3-A

Matrix: Solid

Analysis Batch: 25041

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	252.1		mg/Kg		606	90 - 660	6	20

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2276-1
SDG: 5198

GC VOA

Analysis Batch: 23646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2276-1	E2-17A	Total/NA	Solid	8021B	24987
890-2276-2	E2-18A	Total/NA	Solid	8021B	24987
890-2276-3	EW-1	Total/NA	Solid	8021B	24987
890-2276-4	EW-2	Total/NA	Solid	8021B	24987
890-2276-5	EW-3	Total/NA	Solid	8021B	24987
890-2276-6	EW-4	Total/NA	Solid	8021B	24987
890-2276-7	E2-14A	Total/NA	Solid	8021B	24987
890-2276-8	E2-15A	Total/NA	Solid	8021B	24987
MB 880-24939/8	Method Blank	Total/NA	Solid	8021B	
MB 880-24987/5-A	Method Blank	Total/NA	Solid	8021B	24987
LCS 880-24987/1-A	Lab Control Sample	Total/NA	Solid	8021B	24987
LCSD 880-24987/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	24987

Prep Batch: 23689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2276-1	E2-17A	Total/NA	Solid	5035	
890-2276-2	E2-18A	Total/NA	Solid	5035	
890-2276-3	EW-1	Total/NA	Solid	5035	
890-2276-4	EW-2	Total/NA	Solid	5035	
890-2276-5	EW-3	Total/NA	Solid	5035	
890-2276-6	EW-4	Total/NA	Solid	5035	
890-2276-7	E2-14A	Total/NA	Solid	5035	
890-2276-8	E2-15A	Total/NA	Solid	5035	
MB 880-24987/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-24987/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-24987/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 21(38

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2276-1	E2-17A	Total/NA	Solid	Total BTEX	
890-2276-2	E2-18A	Total/NA	Solid	Total BTEX	
890-2276-3	EW-1	Total/NA	Solid	Total BTEX	
890-2276-4	EW-2	Total/NA	Solid	Total BTEX	
890-2276-5	EW-3	Total/NA	Solid	Total BTEX	
890-2276-6	EW-4	Total/NA	Solid	Total BTEX	
890-2276-7	E2-14A	Total/NA	Solid	Total BTEX	
890-2276-8	E2-15A	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 23662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2276-1	E2-17A	Total/NA	Solid	8015NM Prep	
890-2276-2	E2-18A	Total/NA	Solid	8015NM Prep	
890-2276-3	EW-1	Total/NA	Solid	8015NM Prep	
890-2276-4	EW-2	Total/NA	Solid	8015NM Prep	
890-2276-5	EW-3	Total/NA	Solid	8015NM Prep	
890-2276-6	EW-4	Total/NA	Solid	8015NM Prep	
890-2276-7	E2-14A	Total/NA	Solid	8015NM Prep	
890-2276-8	E2-15A	Total/NA	Solid	8015NM Prep	
MB 880-24992/1-A	Method Blank	Total/NA	Solid	8015NM Prep	

Eurofins Carlsbad

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2276-1
SDG: 5198

GC Semi VOA)Continued7

Prep Batch: 23662)Continued7

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-24992/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-24992/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2276-1 MS	E2-17A	Total/NA	Solid	8015NM Prep	
890-2276-1 MSD	E2-17A	Total/NA	Solid	8015NM Prep	

Analysis Batch: 210(9

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2276-1	E2-17A	Total/NA	Solid	8015B NM	24992
890-2276-2	E2-18A	Total/NA	Solid	8015B NM	24992
890-2276-3	EW-1	Total/NA	Solid	8015B NM	24992
890-2276-4	EW-2	Total/NA	Solid	8015B NM	24992
890-2276-5	EW-3	Total/NA	Solid	8015B NM	24992
890-2276-6	EW-4	Total/NA	Solid	8015B NM	24992
890-2276-7	E2-14A	Total/NA	Solid	8015B NM	24992
890-2276-8	E2-15A	Total/NA	Solid	8015B NM	24992
MB 880-24992/1-A	Method Blank	Total/NA	Solid	8015B NM	24992
LCS 880-24992/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	24992
LCSD 880-24992/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	24992
890-2276-1 MS	E2-17A	Total/NA	Solid	8015B NM	24992
890-2276-1 MSD	E2-17A	Total/NA	Solid	8015B NM	24992

Analysis Batch: 21063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2276-1	E2-17A	Total/NA	Solid	8015 NM	
890-2276-2	E2-18A	Total/NA	Solid	8015 NM	
890-2276-3	EW-1	Total/NA	Solid	8015 NM	
890-2276-4	EW-2	Total/NA	Solid	8015 NM	
890-2276-5	EW-3	Total/NA	Solid	8015 NM	
890-2276-6	EW-4	Total/NA	Solid	8015 NM	
890-2276-7	E2-14A	Total/NA	Solid	8015 NM	
890-2276-8	E2-15A	Total/NA	Solid	8015 NM	

5 PLCHC

Leach Batch: 238(9

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2276-8	E2-15A	Soluble	Solid	DI Leach	
MB 880-24817/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-24817/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-24817/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 23631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2276-8	E2-15A	Soluble	Solid	300.0	24817
MB 880-24817/1-A	Method Blank	Soluble	Solid	300.0	24817
LCS 880-24817/2-A	Lab Control Sample	Soluble	Solid	300.0	24817
LCSD 880-24817/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	24817

Leach Batch: 236/ 1

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2276-1	E2-17A	Soluble	Solid	DI Leach	

Eurofins Carlsbad

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2276-1
SDG: 5198

5 PLCHC)Continued7

Leach Batch: 236/ 1)Continued7

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2276-2	E2-18A	Soluble	Solid	DI Leach	
890-2276-3	EW-1	Soluble	Solid	DI Leach	
890-2276-4	EW-2	Soluble	Solid	DI Leach	
890-2276-5	EW-3	Soluble	Solid	DI Leach	
890-2276-6	EW-4	Soluble	Solid	DI Leach	
890-2276-7	E2-14A	Soluble	Solid	DI Leach	
MB 880-24965/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-24965/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-24965/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 2103(

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2276-1	E2-17A	Soluble	Solid	300.0	24965
890-2276-2	E2-18A	Soluble	Solid	300.0	24965
890-2276-3	EW-1	Soluble	Solid	300.0	24965
890-2276-4	EW-2	Soluble	Solid	300.0	24965
890-2276-5	EW-3	Soluble	Solid	300.0	24965
890-2276-6	EW-4	Soluble	Solid	300.0	24965
890-2276-7	E2-14A	Soluble	Solid	300.0	24965
MB 880-24965/1-A	Method Blank	Soluble	Solid	300.0	24965
LCS 880-24965/2-A	Lab Control Sample	Soluble	Solid	300.0	24965
LCSD 880-24965/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	24965

Lab Chronicle

Client: Ranger Environmental Services, Inc
 j ro/ectSite: Cobalt Riser

Job ID: 890-2217-P
 SD5 : pP98

Client Sample ID: E1-A89

Date Collected: 74/73/11 AR:78

Date v eceiTed: 74/73/11 A6:3R

Lab Sample ID: 027-1186-A

Matrix: Solid

s rep yBpe	Patch yBpe	Patch Method	vzn	Dil Nactor	Initial 9 moz nt	Ninal 9 moz nt	Patch 5 z mber	s repared or 9 nalBFed	9 nalBut	Lab
Aotal	j re3	p0Mp			TL91 g	p my	2T981	0p0702 PM02	4 R	XEN 4 ID
Aotal	. nalBsis	802P6		P			2T9M0	0p0702 22:22	4 R	XEN 4 ID
Aotal	. nalBsis	Aotal 6AEX		P			2pPT8	0p0902 Pp:2M . J		XEN 4 ID
Aotal	. nalBsis	80Pp N4		P			2p09T	0p0902 P2:0p . J		XEN 4 ID
Aotal	j re3	80PpN4 j re3			P0L0P g	P0 my	2T992	0p0702 PT:M8 D4		XEN 4 ID
Aotal	. nalBsis	80Pp6 N4		P			2p0P1	0p0102 2M0M . J		XEN 4 ID
Soluble	yeach	DI yeach			pl02 g	p0 my	2T97p	0p0702 PP:21	SC	XEN 4 ID
Soluble	. nalBsis	M00L0		P			2p0TP	0p0102 02:Tp	CH	XEN 4 ID

Client Sample ID: E1-A09

Date Collected: 74/73/11 AR:72

Date v eceiTed: 74/73/11 A6:3R

Lab Sample ID: 027-1186-1

Matrix: Solid

s rep yBpe	Patch yBpe	Patch Method	vzn	Dil Nactor	Initial 9 moz nt	Ninal 9 moz nt	Patch 5 z mber	s repared or 9 nalBFed	9 nalBut	Lab
Aotal	j re3	p0Mp			pl02 g	p my	2T981	0p0702 PM02	4 R	XEN 4 ID
Aotal	. nalBsis	802P6		P			2T9M0	0p0702 22:T2	4 R	XEN 4 ID
Aotal	. nalBsis	Aotal 6AEX		P			2pPT8	0p0902 Pp:2M . J		XEN 4 ID
Aotal	. nalBsis	80Pp N4		P			2p09T	0p0902 P2:0p . J		XEN 4 ID
Aotal	j re3	80PpN4 j re3			P0L02 g	P0 my	2T992	0p0702 PT:M8 D4		XEN 4 ID
Aotal	. nalBsis	80Pp6 N4		P			2p0P1	0p0802 00:0M . J		XEN 4 ID
Soluble	yeach	DI yeach			TL99 g	p0 my	2T97p	0p0702 PP:21	SC	XEN 4 ID
Soluble	. nalBsis	M00L0		P			2p0TP	0p0102 02:pT	CH	XEN 4 ID

Client Sample ID: EW-A

Date Collected: 74/73/11 AR:AA

Date v eceiTed: 74/73/11 A6:3R

Lab Sample ID: 027-1186-R

Matrix: Solid

s rep yBpe	Patch yBpe	Patch Method	vzn	Dil Nactor	Initial 9 moz nt	Ninal 9 moz nt	Patch 5 z mber	s repared or 9 nalBFed	9 nalBut	Lab
Aotal	j re3	p0Mp			pl0T g	p my	2T981	0p0702 PM02	4 R	XEN 4 ID
Aotal	. nalBsis	802P6		P			2T9M0	0p0702 2M0M	4 R	XEN 4 ID
Aotal	. nalBsis	Aotal 6AEX		P			2pPT8	0p0902 Pp:2M . J		XEN 4 ID
Aotal	. nalBsis	80Pp N4		P			2p09T	0p0902 P2:0p . J		XEN 4 ID
Aotal	j re3	80PpN4 j re3			P0L0P g	P0 my	2T992	0p0702 PT:M8 D4		XEN 4 ID
Aotal	. nalBsis	80Pp6 N4		P			2p0P1	0p0802 00:2M . J		XEN 4 ID
Soluble	yeach	DI yeach			TL98 g	p0 my	2T97p	0p0702 PP:21	SC	XEN 4 ID
Soluble	. nalBsis	M00L0		P			2p0TP	0p0102 0M0M	CH	XEN 4 ID

Client Sample ID: EW-1

Date Collected: 74/73/11 AR:AR

Date v eceiTed: 74/73/11 A6:3R

Lab Sample ID: 027-1186-3

Matrix: Solid

s rep yBpe	Patch yBpe	Patch Method	vzn	Dil Nactor	Initial 9 moz nt	Ninal 9 moz nt	Patch 5 z mber	s repared or 9 nalBFed	9 nalBut	Lab
Aotal	j re3	p0Mp			pl00 g	p my	2T981	0p0702 PM02	4 R	XEN 4 ID
Aotal	. nalBsis	802P6		P			2T9M0	0p0702 2M2M	4 R	XEN 4 ID
Aotal	. nalBsis	Aotal 6AEX		P			2pPT8	0p0902 Pp:2M . J		XEN 4 ID

Eurofins Carlsbad

Lab Chronicle

Client: Ranger Environmental Services, Inc
 j ro/ectSite: Cobalt Riser

Job ID: 890-2217-P
 SD5 : pP98

Client Sample ID: EW-1

Lab Sample ID: 027-1186-3

Date Collected: 74/73/11 ARAR

Matrix: Solid

Date v eceiTed: 74/73/11 A6:3R

s rep yBpe	Patch yBpe	Patch Method	vzn	Dil Nactor	Initial 9 moz nt	Ninal 9 moz nt	Patch 5 z mber	s repared or 9 nalBFed	9 nalBut	Lab
Aotal	. nalBsis	80Pp N4		P			2p09T	0p0902 P2:0p	. J	XEN 4 ID
Aotal	j re3	80PpN4 j re3			P0L0P g	P0 my	2T992	0p0702 PT:M8	D4	XEN 4 ID
Aotal	. nalBsis	80Pp6 N4		P			2p0P1	0p0802 00:TM	. J	XEN 4 ID
Soluble	yeach	DI yeach			TL98 g	p0 my	2T97p	0p0702 FP:21	SC	XEN 4 ID
Soluble	. nalBsis	M00L0		P			2p0TP	0p0102 0MP2	CH	XEN 4 ID

Client Sample ID: EW-R

Lab Sample ID: 027-1186-4

Date Collected: 74/73/11 A4:77

Matrix: Solid

Date v eceiTed: 74/73/11 A6:3R

s rep yBpe	Patch yBpe	Patch Method	vzn	Dil Nactor	Initial 9 moz nt	Ninal 9 moz nt	Patch 5 z mber	s repared or 9 nalBFed	9 nalBut	Lab
Aotal	j re3	p0Mp			TL99 g	p my	2T981	0p0702 PM02	4 R	XEN 4 ID
Aotal	. nalBsis	802P6		P			2T9M0	0p0702 2MTT	4 R	XEN 4 ID
Aotal	. nalBsis	Aotal 6AEX		P			2pPT8	0p0902 Pp:2M	. J	XEN 4 ID
Aotal	. nalBsis	80Pp N4		P			2p09T	0p0902 P2:0p	. J	XEN 4 ID
Aotal	j re3	80PpN4 j re3			P0L02 g	P0 my	2T992	0p0702 PT:M8	D4	XEN 4 ID
Aotal	. nalBsis	80Pp6 N4		P			2p0P1	0p0802 0P:0M	. J	XEN 4 ID
Soluble	yeach	DI yeach			p g	p0 my	2T97p	0p0702 FP:21	SC	XEN 4 ID
Soluble	. nalBsis	M00L0		P			2p0TP	0p0102 0M2P	CH	XEN 4 ID

Client Sample ID: EW-3

Lab Sample ID: 027-1186-6

Date Collected: 74/73/11 A4:71

Matrix: Solid

Date v eceiTed: 74/73/11 A6:3R

s rep yBpe	Patch yBpe	Patch Method	vzn	Dil Nactor	Initial 9 moz nt	Ninal 9 moz nt	Patch 5 z mber	s repared or 9 nalBFed	9 nalBut	Lab
Aotal	j re3	p0Mp			TL9p g	p my	2T981	0p0702 PM02	4 R	XEN 4 ID
Aotal	. nalBsis	802P6		P			2T9M0	0p0102 00:0T	4 R	XEN 4 ID
Aotal	. nalBsis	Aotal 6AEX		P			2pPT8	0p0902 Pp:2M	. J	XEN 4 ID
Aotal	. nalBsis	80Pp N4		P			2p09T	0p0902 P2:0p	. J	XEN 4 ID
Aotal	j re3	80PpN4 j re3			P0L0Mg	P0 my	2T992	0p0702 PT:M8	D4	XEN 4 ID
Aotal	. nalBsis	80Pp6 N4		P			2p0P1	0p0802 0P:2M	. J	XEN 4 ID
Soluble	yeach	DI yeach			pL0Mg	p0 my	2T97p	0p0702 FP:21	SC	XEN 4 ID
Soluble	. nalBsis	M00L0		P			2p0TP	0p0102 0MM0	CH	XEN 4 ID

Client Sample ID: E1-A39

Lab Sample ID: 027-1186-8

Date Collected: 74/73/11 A4:73

Matrix: Solid

Date v eceiTed: 74/73/11 A6:3R

s rep yBpe	Patch yBpe	Patch Method	vzn	Dil Nactor	Initial 9 moz nt	Ninal 9 moz nt	Patch 5 z mber	s repared or 9 nalBFed	9 nalBut	Lab
Aotal	j re3	p0Mp			TL97 g	p my	2T981	0p0702 PM02	4 R	XEN 4 ID
Aotal	. nalBsis	802P6		P			2T9M0	0p0102 00:2p	4 R	XEN 4 ID
Aotal	. nalBsis	Aotal 6AEX		P			2pPT8	0p0902 Pp:2M	. J	XEN 4 ID
Aotal	. nalBsis	80Pp N4		P			2p09T	0p0902 P2:0p	. J	XEN 4 ID
Aotal	j re3	80PpN4 j re3			P0L0P g	P0 my	2T992	0p0702 PT:M8	D4	XEN 4 ID
Aotal	. nalBsis	80Pp6 N4		P			2p0P1	0p0802 0P:TM	. J	XEN 4 ID

Eurofins Carlsbad

Lab Chronicle

Client: Ranger Environmental Services, Inc
j ro/ectSite: Cobalt Riser

Job ID: 890-2217-P
SD5 : pP98

Client Sample ID: E1-A39
Date Collected: 74/73/11 A4:73
Date v eceiTed: 74/73/11 A6:3R

Lab Sample ID: 027-1186-8
Matrix: Solid

s rep yBpe	Patch yBpe	Patch Method	vzn	Dil Nactor	Initial 9 moz nt	Ninal 9 moz nt	Patch 5 z mber	s repared or 9 nalBFed	9 nalBut	Lab
Soluble	yeach	DI yeach			pLO T g	p0 my	2T97p	0p0702 PP:21	SC	XEN 4 ID
Soluble	. nalBsis	M00LO		P			2p0TP	0p0102 0MM8	CH	XEN 4 ID

Client Sample ID: E1-A49
Date Collected: 74/73/11 A4:76
Date v eceiTed: 74/73/11 A6:3R

Lab Sample ID: 027-1186-0
Matrix: Solid

s rep yBpe	Patch yBpe	Patch Method	vzn	Dil Nactor	Initial 9 moz nt	Ninal 9 moz nt	Patch 5 z mber	s repared or 9 nalBFed	9 nalBut	Lab
Aotal0.	j re3	p0Mp			pLO Mg	p my	2T981	0p0702 PM02	4 R	XEN 4 ID
Aotal0.	. nalBsis	802P6		P			2T9M0	0p0102 00:Tp	4 R	XEN 4 ID
Aotal0.	. nalBsis	Aotal 6 AEX		P			2pPT8	0p0902 Pp:2M	. J	XEN 4 ID
Aotal0.	. nalBsis	80Pp N4		P			2p09T	0p0902 P2:0p	. J	XEN 4 ID
Aotal0.	j re3	80PpN4 j re3			P0LO T g	P0 my	2T992	0p0702 PT:M8	D4	XEN 4 ID
Aotal0.	. nalBsis	80Pp6 N4		P			2p0P1	0p0802 02:0M	. J	XEN 4 ID
Soluble	yeach	DI yeach			pLO p g	p0 my	2T8P1	0p0702 P2:PT	SC	XEN 4 ID
Soluble	. nalBsis	M00LO		P	0 my	PLO my	2T9Tp	0p0702 22:28	SC	XEN 4 ID

LaboratorBv eferenceu:

XEN 4 ID = Eurofins 4 idland, P2PP WLFFlorida . ve, 4 idland, AX 1910P, AEy (TM2)10T-pTT0

Accreditation/Certification Summary

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2217-6
SDG: 5698

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T604104400-26-22	07-30-22
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8065 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Ident R agt r n Evt n E t S n t R i c n E n , G t s
j E n s P e n : I o b g i P a e n E

Job ID: 890-2217-C
c D5 : PC98

Method	Method Description	Protocol	Laboratory
802CB	Voigt On OE gt s l o Spout d, (5 l)	c4 867	Xv N MID
ToRi BTvX	ToRi BTvX l gisuigRt	TAL cOj	Xv N MID
80CP NM	De, ni agt r n OE gt s, (Da O) (5 l)	c4 867	Xv N MID
80CPB NM	De, ni agt r n OE gt s, (Da O) (5 l)	c4 867	Xv N MID
300.0	At ot , Got l hES gRr Ephy	MI A4 4	Xv N MID
P03P	l io, nd cy, R S j uE n gt d T Epp	c4 867	Xv N MID
80CPNM j Ehp	MeEnxRgsRt	c4 867	Xv N MID
DI Lngsh	Dnet end 4 gRELngshE r j EsnduEn	Ac TM	Xv N MID

Protocol References:

Ac TM = Ac TM It R E gRt gi
MI A4 4 = "MnRdod, FoEl hnS egi At giy, e Of 4 gREAt d 4 g, R, "Gvj A-700W-19-020GMgEsh C983 At d c ub, nqunt Pa nne et , .
c4 867 = "Tn, RMnRdod, FoEvngiugRr coia 4 g, RQ hy, egiW hnS egi MnRdod, "GThEd v deot GNomnS bnEC987 At d IR UpdgR, .
TAL cOj = Tn, RAS nEsg LgboEgREn, Gc Rgt dgEd OpnEgRr j EsnduEn

Laboratory References:

Xv N MID = v uEofE , Meltigt dGC2CC4 . FioEelg AnnGMeltigt dGTX 1910CGTv L (632)106-P660

Sample Summary

Client: Ranger Environmental Services, Inc
Project/Site: Cobalt Riser

Job ID: 890-2276-1
SDG: 5198

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2276-1	E2-17A	Solid	05/04/22 13:07	05/04/22 16:43	9
890-2276-2	E2-18A	Solid	05/04/22 13:09	05/04/22 16:43	9
890-2276-3	EW-1	Solid	05/04/22 13:11	05/04/22 16:43	4 - 9
890-2276-4	EW-2	Solid	05/04/22 13:13	05/04/22 16:43	4 - 9
890-2276-5	EW-3	Solid	05/04/22 15:00	05/04/22 16:43	4 - 9
890-2276-6	EW-4	Solid	05/04/22 15:02	05/04/22 16:43	4 - 9
890-2276-7	E2-14A	Solid	05/04/22 15:04	05/04/22 16:43	9
890-2276-8	E2-15A	Solid	05/04/22 15:06	05/04/22 16:43	9

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 505-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 799-1295
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Environment Testing

Xenco



Work Order No:

www.xenco.com Page 1 of 1

Work Order Comments

Program: ☐ UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project: New Mex-20

Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: EDO ☒ ADAPT ☐ Other:

Project Manager: Max Cook

Company Name: EDG Resources Inc.

Address: c/o Kern Black

City, State ZIP: Champion Ave

Phone: Midland, TX 79706

Bill to: (if different)

Company Name: Max @ Rangerenvi.com

Address: Max @ Rangerenvi.com

City, State ZIP: Max @ Rangerenvi.com

Phone: Max @ Rangerenvi.com

ANALYSIS REQUEST		PRESERVATIVE CODES	
Sample Identification	Matrix	Date Sampled	Time Sampled
EA-17A	Soil	5/14/22	1307
EA-18A	Soil	5/14/22	1309
EW-1A	Water	5/14/22	1311
EW-2A	Water	5/14/22	1313
EW-3A	Water	5/14/22	1300
EW-4A	Water	5/14/22	1302
EW-14A	Water	5/14/22	1504
EW-15A	Water	5/14/22	1506

Parameters: Chloride (FPA 32)

Preservative Codes: DI Water: H₂O

Sample Comments: 890-2276 Chain of Custody

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be Cd Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1. <u>W. Kennedy</u>	<u>Clae Gap</u>	<u>5-4-22 1643</u>			
3.					
5.					

Revised Date: 06/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ranger Environmental Services, Inc

Job Number: 890-2217-6

SDG Number: 5698

Login Number: 2276**List Number: 1****Creator: Clifton, Cloe****List Source: Eurofins Carlsbad**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <7mm (6/4").	N/A	

Login Sample Receipt Checklist

Client: Ranger Environmental Services, Inc

Job Number: 890-2217-6

SDG Number: 5698

Login Number: 2276**List Number: 2****Creator: Rodriguez, Leticia****List Source: Eurofins Midland****List Creation: 05/06/22 10:55 AM**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <7mm (6/4").	N/A	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 111329

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 111329
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	6/3/2022