RANGER
ENVIRONMENTAL SERVICES, INC.

SITE CHARACTERIZATION, REMEDIATION AND CLOSURE REPORT

RESOLUTE 12 FED COM #505H
UNIT N, SECTION 12, TOWNSHIP 25S, RANGE 32E
LEA COUNTY, NEW MEXICO
32.139200, -103.630000
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

JULY 19, 2022

Max Cook, CAPM (TX)
Senior Project Manager

William Kierdorf, REM
Project Manager

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ENVIRONMENTAL SERVICES, INC.

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1.0 SITE LOCATION AND BACKGROUND

On March 26, 2022, a release was discovered at the Resolute 12 Fed Com #505 well pad (Site). The release was noted to be originating from an over-flowing pump down tank. The Site is located approximately 25.6 miles west of Jal, within Lea County, New Mexico in Unit N, Section 12, T25S-R32E at GPS coordinates 32.139200, -103.630000.

Approximately 15 barrels (bbls) of treated reuse water was released. Upon discovery, immediate action was taken to halt the release of fluids. The incident was reported to the New Mexico Oil Conservation Division (NMOCD) (NMOCD Incident # nAPP2209732674). EOG Resources, Inc. (EOG) subsequently engaged Ranger Environmental Services, Inc. (Ranger) to assist in the remediation efforts at the Site. On June 24, 2022, EOG personnel requested a 60 day extension to allow for the appropriate characterization and remediation of the incident. The NMOCD approved the extension on June 24, 2022. Copies of the extension request and NMOCD approval are attached.

The following *Site Characterization, Remediation, and Closure Report* has been prepared to document the site characterization details 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 as well as 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, 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, no mapped features are present within a mile of the Site.

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 June 7, 2022

On June 7, 2022, Ranger personnel mobilized to the spill area to conduct a site assessment of the excavated areas which included the collection of confirmation soil samples for laboratory analysis. At the time of the assessment, the area impacted by the release had been fully

excavated and was noted to have dimensions of approximately 145 feet by 107 feet and had a maximum depth of approximately nine feet below ground surface (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. A total of 47 base samples, 14 excavation wall samples, and two excavation ramp area samples were collected during the June 7, 2022 assessment activities.

The confirmation soil samples were submitted to Eurofins Xenco laboratory in Carlsbad, New Mexico for analysis of total petroleum hydrocarbons (TPH) using EPA method 8015; benzene, toluene, ethylbenzene and xylenes (BTEX) using EPA Method 8021; and total chloride using EPA Method 300. The samples were collected and managed using standard QA/QC and chain-of-custody procedures.

3.2 June 27, 2022

Upon review of the June 7, 2022, laboratory sample results, one excavation base sample ("B-7") was identified to have a TPH concentrations in exceedance of the applicable Table 1 Criteria. All other remaining samples were documented to have concentrations below the Table 1 Criteria.

To address the area noted to have an elevated TPH concentrations, representatives of EOG and Ranger personnel returned to the Site on June 27, 2022 to conduct additional soil removal operations. Utilizing an Organic Vapor Monitor, Ranger personnel assisted in assessing conditions within the "B-7" area and guiding the excavation to appropriate boundaries.

To confirm that the area was in attainment of the applicable Table 1 criteria, an additional confirmation soil sample was collected. Once again, the confirmation sample was collected in accordance with NMAC 19.15.29.12(D), with the sample representing no more than 200 square feet.

Upon collection, the confirmation soil sample was submitted to Eurofins Xenco laboratory in Carlsbad, New Mexico for analysis of BTEX, TPH, and total chloride using the aforementioned laboratory methods. The sample was 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.

3.3 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.

3.4 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	nAPP2209732674
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)* nAPP2209732674
Contact mailing address 5509 Champions Drive Midland, TX 79706	

Location of Release Source

Latitude 32.139200° Longitude -103.630000°
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Resolute 12 Fed Com #505H	Site Type Well Pad
Date Release Discovered 3/26/22	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
N	12	25S	32E	Lea

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (*Name:* _____)

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) 15	Volume Recovered (bbls) 0
	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 reuse water overflowed in the pump down tank, releasing 15 bbls of treated reuse water on to the pad with 0 bbls recovered.

State of New Mexico
Oil Conservation Division

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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?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

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 not 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: Todd Wells Title: Environmental Specialist

Signature: Todd Wells Date: 4/7/22

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

OCD Only

Received by: Jocelyn Harimon Date: 04/07/2022

State of New Mexico
Oil Conservation Division

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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?	>100’ (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.

Form C-141
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State of New Mexico
Oil Conservation Division

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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: James F. Kennedy Title: Environmental Specialist

Signature: James F Kennedy Date: 07/21/2022

email: james_kennedy@eogresources.com Telephone: 432-258-4346

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

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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: James F. Kennedy Title: Environmental Specialist

Signature: James F Kennedy Date: 07/21/2022

email: james_kennedy@eogresources.com Telephone: 432-258-4346

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2209732674
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 ODC 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: James F. Kennedy Title: Environmental Specialist

Signature: James F Kennedy Date: 07/21/2022

email: james_kennedy@eogresources.com Telephone: 432-258-4346

OCD Only

Received by: _____ Date: _____

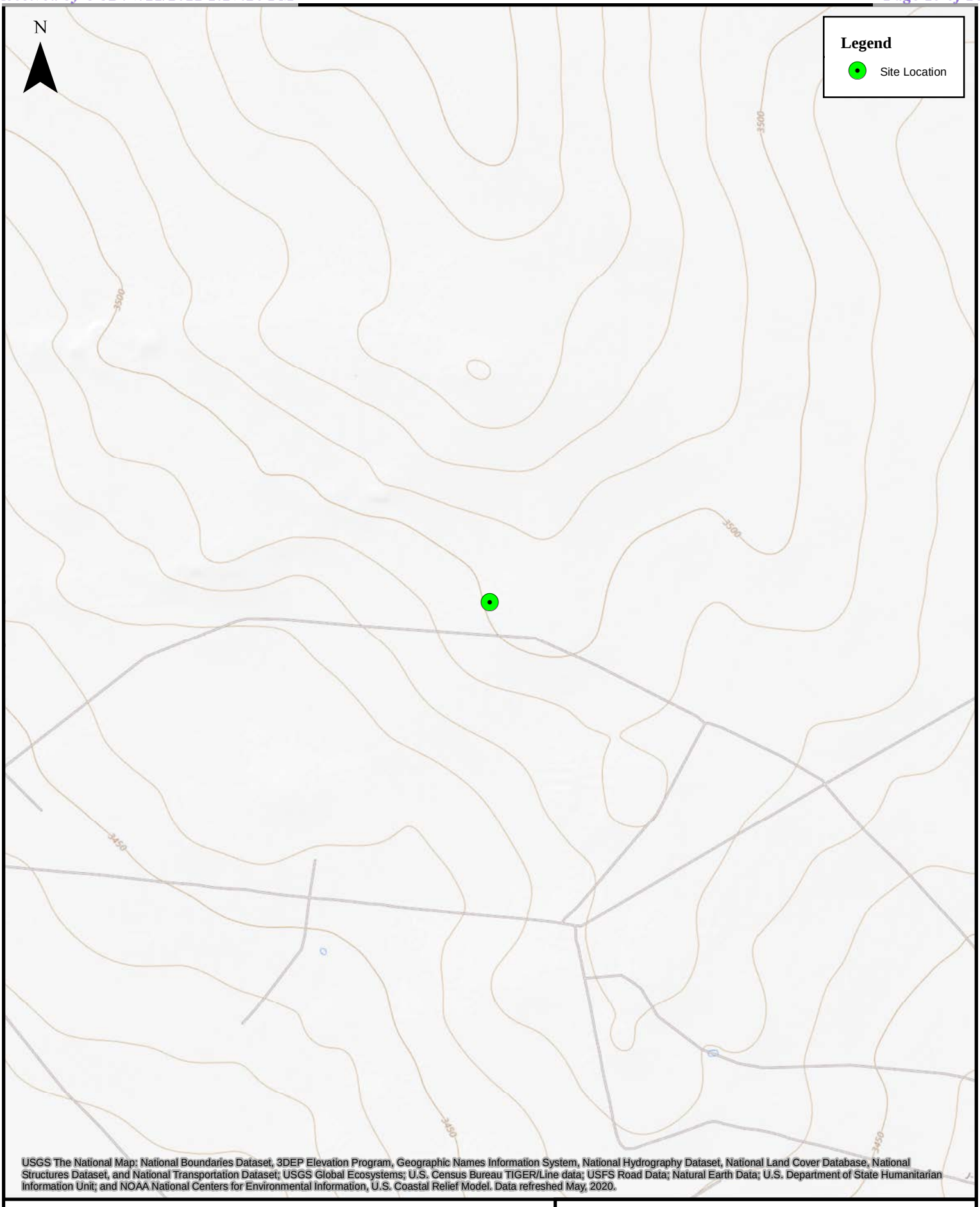
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance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

Closure Approved by: Jennifer Nobui Date: 07/26/2022

Printed Name: Jennifer Nobui Title: Environmental Specialist A

FIGURES

Topographic Map
Area Map
Karst Topography Map
Final Confirmation Soil Sample Location Map



USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S. Census Bureau TIGER/Line data; USFS Road Data; Natural Earth Data; U.S. Department of State Humanitarian Information Unit; and NOAA National Centers for Environmental Information, U.S. Coastal Relief Model. Data refreshed May, 2020.

RANGER ENVIRONMENTAL SERVICES, INC.

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

1:24,000

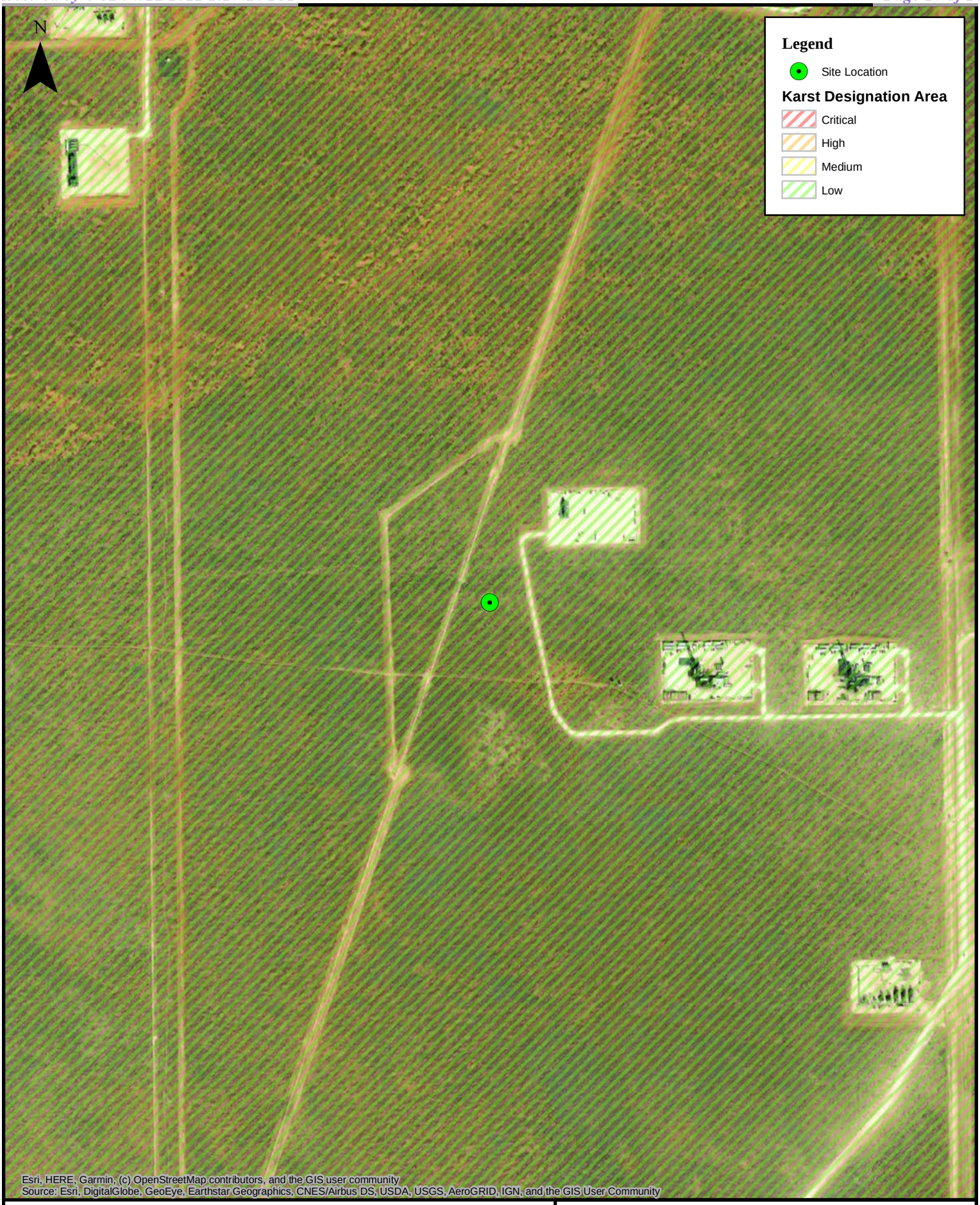
Topograhic Map
Resolute 12 Fed Com #505H
EOG Resources, Inc.

RANGER ENVIRONMENTAL SERVICES, INC.

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

1:10,000

Area Map
Resolute 12 Fed Com #505H
EOG Resources, Inc.

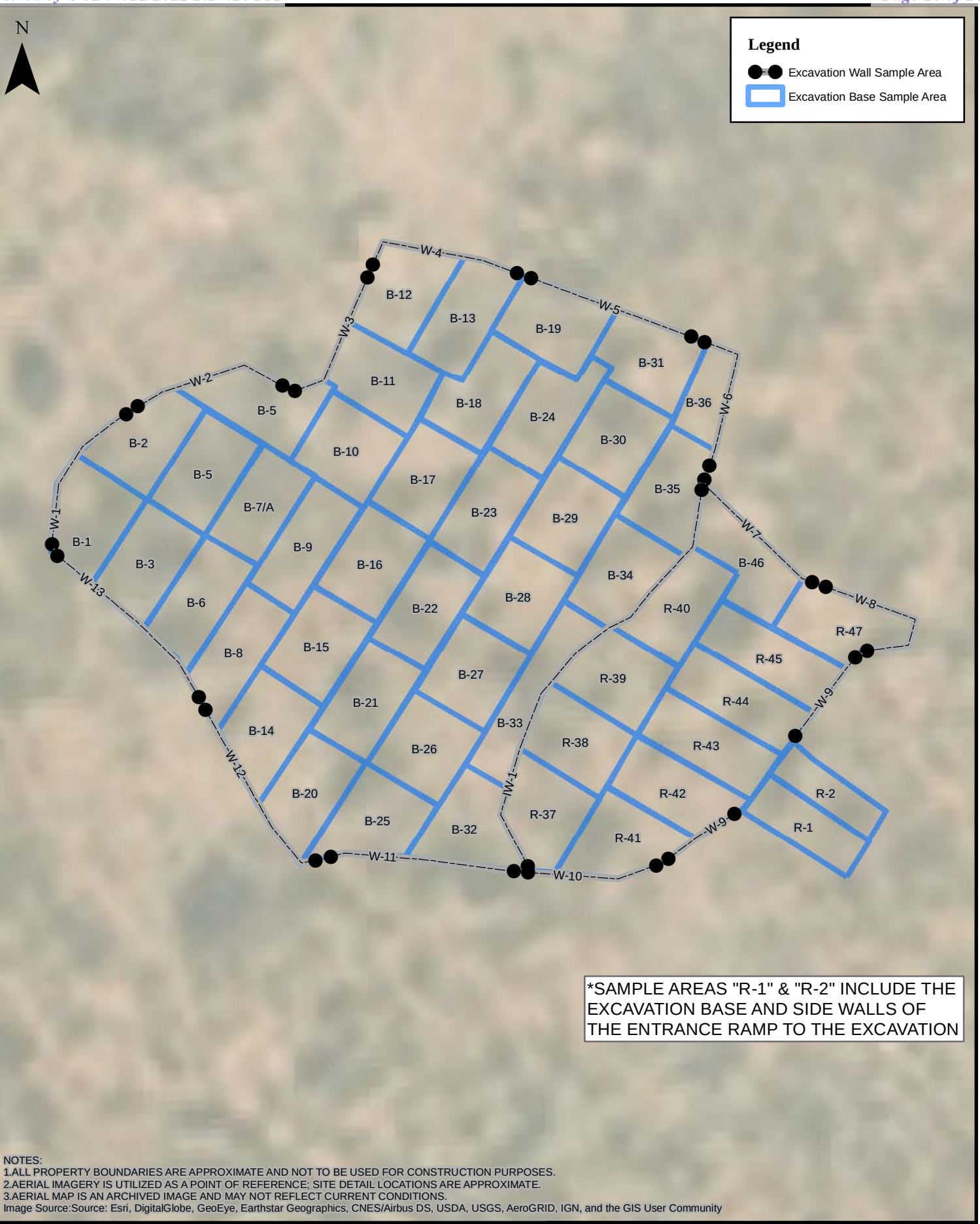


RANGER ENVIRONMENTAL SERVICES, INC.

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

1:10,000

Karst Topography Map
Resolute 12 Fed Com #505H
EOG Resources, Inc.



NOTES:
1.ALL PROPERTY BOUNDARIES ARE APPROXIMATE AND NOT TO BE USED FOR CONSTRUCTION PURPOSES.
2.AERIAL IMAGERY IS UTILIZED AS A POINT OF REFERENCE; SITE DETAIL LOCATIONS ARE APPROXIMATE.
3.AERIAL MAP IS AN ARCHIVED IMAGE AND MAY NOT REFLECT CURRENT CONDITIONS.
Image Source:Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

RANGER ENVIRONMENTAL SERVICES, INC.

0 5 10 20 30 40 Feet

1:250

Final Confirmation Sample Location Map
Resolute 12 Fed Com #505H
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 RESOURCES, INC.
RESOLUTE 12 FED COM #505H

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
W-1	6/7/22	0'-7'	<0.000383	<0.000453	<0.000562	<0.00100	<0.00100	<15.0	<15.0	<15.0	<15.0	<15.0	13.9
W-2	6/7/22	0'-7'	<0.000382	<0.000452	<0.000561	<0.00100	<0.00100	<15.0	<15.0	<15.0	<15.0	<15.0	60.5
W-3	6/7/22	0'-7.5'	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	<15.0	<15.0	<15.0	<15.0	<15.0	30.7
W-4	6/7/22	0'-7.5'	<0.000381	<0.000451	<0.000559	<0.00100	<0.00100	<15.0	<15.0	<15.0	<15.0	<15.0	54.6
W-5	6/7/22	0'-8'	<0.000385	<0.000456	<0.000565	<0.00101	<0.00101	16.2J B	<15.0	<15.0	16.2J B	16.2J	260
W-6	6/7/22	0'-8'	<0.000387	<0.000459	<0.000568	<0.00102	<0.00102	<15.0	17.2J	<15.0	17.2J	17.2J	61.8
W-7	6/7/22	0'-8'	<0.000381	<0.000451	<0.000559	<0.00100	<0.00100	26.7J B	<15.0	<15.0	26.7J	26.7J	107
W-8	6/7/22	0'-8'	<0.000388	<0.000460	<0.000570	<0.00102	<0.00102	<15.0	<15.0	<15.0	<15.0	<15.0	41.2
W-9	6/7/22	0'-8'	<0.000389	<0.000461	<0.000571	<0.00102	<0.00102	15.7J B	<15.0	<15.0	15.7J	15.7J	29.5
W-10	6/7/22	0'-5'	<0.000387	<0.000458	<0.000567	<0.00101	<0.00101	<15.0	<15.0	<15.0	<15.0	<15.0	66.0
W-11	6/7/22	0'-6'	<0.000389	<0.000461	<0.000571	<0.00102	<0.00102	22.5J B	73.0	<15.0	95.5	95.5	47.1
W-12	6/7/22	0'-6'	<0.000381	<0.000451	<0.000559	<0.00100	<0.00100	17.7J B	<14.9	<14.9	17.7J B	17.7J	28.3
W-13	6/7/22	0'-6'	<0.000385	<0.000456	<0.000565	<0.00101	<0.00101	<15.0	<15.0	<15.0	<15.0	<15.0	129
IW-1	6/7/22	0'-9'	<0.000389	<0.000461	<0.000571	<0.00102	<0.00102	18.8J B	<15.0	<15.0	18.8J	18.8J	21.4
B-1	6/7/22	6-7'	<0.000387	<0.000458	<0.000567	<0.00101	<0.00101	<15.0	16.6J	<15.0	16.6J	16.6J	27.9
B-2	6/7/22	6-7'	<0.000388	<0.000460	<0.000570	<0.00102	<0.00102	<15.0	<15.0	<15.0	<15.0	<15.0	42.9
B-3	6/7/22	6-7'	<0.000383	<0.000453	<0.000562	<0.00100	<0.00100	17.5J B	16.9J	<15.0	34.4J	34.4J	53.3
B-4	6/7/22	7'	<0.000387	<0.000459	<0.000568	<0.00102	<0.00102	<15.0	19.8J	<15.0	19.8J	19.8J	56.8
B-5	6/7/22	6'-7'	<0.000385	<0.000456	<0.000565	<0.00101	<0.00101	<15.0	23.4J	<15.0	23.4J	23.4J	42.7
B-6	6/7/22	6'-7'	<0.000386	<0.000457	<0.000566	<0.00101	<0.00101	<15.0	<15.0	<15.0	<15.0	<15.0	69.9
B-7	6/7/22	7'	~~0.000428J~~	~~<0.000453~~	~~<0.000562~~	~~<0.00100~~	~~0.00114J~~	~~15.7J~~	~~180B~~	~~<15.0~~	~~196~~	~~196~~	~~88.0~~
B-7/A	6/27/22	7'-8'	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	516
B-8	6/7/22	6'-7'	<0.000381	<0.000451	<0.000559	<0.00100	<0.00100	<15.0	58.5B	<15.0	58.5	58.5	90.7
B-9	6/7/22	7'	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	<15.0	39.4J B	<15.0	39.4J	39.4J	115
B-10	6/7/22	7'	<0.000389	<0.000461	<0.000571	<0.00102	<0.00102	<15.0	26.1J B	<15.0	26.1J B	26.1J	23.4
B-11	6/7/22	7.5'	<0.000387	<0.000459	<0.000568	<0.00102	<0.00102	<15.0	33.6J B	<15.0	33.6J B	33.6J	20.7
B-12	6/7/22	7.5'	0.000445J	<0.000460	<0.000570	<0.00102	<0.00102	<15.0	32.7J B	<15.0	32.7J B	32.7J	29.8
B-13	6/7/22	7.5'	<0.000386	<0.000457	<0.000566	<0.00101	<0.00101	<15.0	32.8J B	<15.0	32.8J B	32.8J	75.8
B-14	6/7/22	6'-7'	<0.000385	<0.000456	<0.000565	<0.00101	<0.00101	16.7J	29.2J B	<15.0	45.9J B	45.9J	66.0
B-15	6/7/22	6'-7'	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	<15.0	29.6J B	<15.0	29.6J B	29.6J	36.5
B-16	6/7/22	7'	<0.000383	<0.000453	<0.000562	<0.00100	<0.00100	15.2J	31.5J B	<15.0	46.7J B	46.7J	32.8
B-17	6/7/22	7'	<0.000383	0.000787J	0.000735J	0.00200J	0.00352J	<15.0	29.3J B	<15.0	29.3J B	29.3J	34.8
B-18	6/7/22	7.5'	<0.000385	<0.000456	<0.000565	<0.00101	<0.00101	20.8J	23.6J B	<15.0	44.4J	44.4J	18.2
B-19	6/7/22	7.5'	<0.000387	<0.000459	<0.000568	<0.00102	<0.00102	<15.0	39.2J B	<15.0	39.2J B	39.2J	30.1
B-20	6/7/22	6'-7'	<0.000386	<0.000457	<0.000566	<0.00101	<0.00101	<15.0	28.5J B	<15.0	28.5J B	28.5J	32.9
B-21	6/7/22	6'-7'	<0.000383	<0.000453	<0.000562	<0.00100	<0.00100	<15.0	26.6J B	<15.0	26.6J B	26.6J	38.2
B-22	6/7/22	7'	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	<15.0	22.7J B	<15.0	22.7J B	22.7J	17.5
B-23	6/7/22	7'-7.5'	<0.000389	<0.000461	<0.000571	<0.00102	<0.00102	<15.0	28.3J B	<15.0	28.3J B	28.3J	39.9
B-24	6/7/22	7.5'	<0.000387	<0.000458	<0.000567	<0.00101	<0.00101	<15.0	24.4J B	<15.0	24.4J B	24.4J	28.7
B-25	6/7/22	6'-7'	<0.000381	<0.000451	<0.000559	<0.00100	<0.00100	<15.0	30.3J B	<15.0	30.3J B	30.3J	52.2
B-26	6/7/22	6'-7'	<0.000383	<0.000454	<0.000563	<0.00101	<0.00101	<15.0	44.7J B	<15.0	44.7J B	44.7J	47.9
B-27	6/7/22	7'	<0.000383	<0.000453	<0.000562	<0.00100	<0.00100	33.2J	15.4J	20.6J B	69.2	69.2	77.0
B-28	6/7/22	7'	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	29.9J	<15.0	16.7J B	29.9J	46.6J	66.1
B-29	6/7/22	7.5'	<0.000381	<0.000451	<0.000559	<0.00100	<0.00100	15.5J	<15.0	<15.0	15.5J	15.5J	28.9
B-30	6/7/22	7.5'	<0.000385	<0.000456	<0.000565	<0.00101	<0.00101	15.6J	<15.0	<15.0	15.6J	15.6J	34.5
B-31	6/7/22	7.5'	<0.000386	<0.000457	<0.000566	<0.00101	<0.00101	18.1J	<15.0	<15.0	18.1J	18.1J	30.4
B-32	6/7/22	6'-7'	<0.000385	<0.000456	<0.000565	<0.00101	<0.00101	<15.0	<15.0	18.5J B	18.5J B	18.5J	38.9
B-33	6/7/22	7'	<0.000383	<0.000454	<0.000563	<0.00101	<0.00101	32.9J	<15.0	<15.0	32.9J	32.9J	90.1
B-34	6/7/22	7'	<0.000387	<0.000459	<0.000568	<0.00102	<0.00102	15.7J	<15.0	<15.0	15.7J	15.7J	40.5
B-35	6/7/22	7.5"	<0.000388	<0.000460	<0.000570	<0.00102	<0.00102	16.1J	<15.0	<15.0	16.1J	16.1J	18.9
B-36	6/7/22	7.5'	<0.000382	<0.000452	<0.000561	<0.00100	<0.00100	16.4J	<15.0	<15.0	16.4J	16.4J	29.7
B-37	6/7/22	8'-9'	<0.000386	<0.000457	<0.000566	<0.00101	<0.00101	33.0J	<15.0	<15.0	33.0J	33.0J	29.0
B-38	6/7/22	8'-9'	<0.000381	<0.000451	<0.000559	<0.00100	<0.00100	17.3J	<15.0	<15.0	17.3J	17.3J	28.6
B-39	6/7/22	8'-9'	<0.000385	<0.000456	<0.000565	<0.00101	<0.00101	17.6J	<15.0	<15.0	17.6J	17.6J	16.7
B-40	6/7/22	8'-9'	<0.000387	<0.000458	<0.000567	<0.00101	<0.00101	18.1J	<15.0	<15.0	18.1J	18.1J	16.7
B-41	6/7/22	8'-9'	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	<15.0	16.7J	<15.0	16.7J	16.7J	23.2
B-42	6/7/22	8'-9'	<0.000381	<0.000451	<0.000559	<0.00100	<0.00100	17.0J	<15.0	<15.0	17.0J	17.0J	23.1
B-43	6/7/22	8'-9'	<0.000385	<0.000456	<0.000565	<0.00101	<0.00101	16.3J	<15.0	<15.0	16.3J	16.3J	27.1
B-44	6/7/22	8'-9'	<0.000386	<0.000457	<0.000566	<0.00101	<0.00101	19.3J	<15.0	<15.0	19.3J	19.3J	12.1
B-45	6/7/22	8'-9'	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	<15.0	15.6J	<15.0	15.6J	15.6J	30.3
B-46	6/7/22	8'-9'	<0.000387	<0.000459	<0.000568	<0.00102	<0.00102	<15.0	23.0J	<15.0	23.0J	23.0J	15.6
B-47	6/7/22	8'-9'	<0.000383	<0.000454	<0.000563	<0.00101	<0.00101	20.6J	30.5J	<15.0	51.1	51.1	16.6
R-1	6/7/22	0'-8'	<0.000383	<0.000453	<0.000562	<0.00100	<0.00100	18.5J	<15.0	<15.0	18.5J	18.5J	120
R-2	6/7/22	0'-8'	<0.000389	<0.000461	<0.000571	<0.00102	<0.00102	17.4J	<14.9	15.7J B	17.4J	33.1J	68.1
19.15.29.12 NMAC Table 1 Closure Criteria for Soils Impacted by a Release (GW <50')			**10**	**---**	**---**	**---**	**50**	**---**	**---**	**---**	**---**	**100**	**600**
19.15.29.13 NMAC Reclamation Criteria (0'-4' Soils Only)			**10[3]**				**50[3]**					**100[3]**	**600**

Notes:

1. Results exceeding the Table 1 Closure Criteria are presented in bold type and are highlighted yellow.
2. Results exceeding the NMAC Restoration, Reclamation and re-vegetation chloride concentration requirements are presented in bold red type.
3. Value derived from the State of New Mexico Energy, Minerals and Natural Resources Department document *Procedures for the Implementation of the Spill Rule* (19.15.29 NMAC) dated September 6, 2019.
4. Strikethrough indicates sample area has been excavated

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

ATTACHMENT 1 – DEPTH-TO-GROUNDWATER DATA

New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 04618 POD1		CUB	LE	3	4	3	18	25S	32E	621041	3554886	55		
C 04620 POD1		CUB	LE	4	3	4	06	25S	32E	621445	3558018	55		
C 04634 POD1		CUB	LE	4	3	3	10	25S	32E	625643	3556522	55		

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 3

PLSS Search:

Township: 25S **Range:** 32E

7/14/22 3:22 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 01932		C	ED		3	1	12	24S	32E	628633	3567188*	492		
C 02350		CUB	ED		4	3	10	24S	32E	625826	3566333*	60		
C 03527 POD1		C	LE	1	2	3	03	24S	32E	625770	3568487	500		
C 03528 POD1		C	LE	1	1	2	15	24S	32E	626040	3566129	541		
C 03530 POD1		C	LE	3	4	3	07	24S	32E	620886	3566156	550		
C 03555 POD1		C	LE	2	2	1	05	24S	32E	622748	3569233	600	380	220
C 04536 POD1		C	LE	1	2	2	33	24S	32E	625019	3561244	500	314	186

Average Depth to Water: **347 feet**
Minimum Depth: **314 feet**
Maximum Depth: **380 feet**

Record Count: 7

PLSS Search:

Township: 24S **Range:** 32E

***UTM location was derived from PLSS - see Help**

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 02271	R	CUB	LE		2	3	21	26S	32E	624449	3544111*	150	125	25
C 02271 POD2		CUB	LE	3	2	3	21	26S	32E	624348	3544010*	270	250	20
C 02274		CUB	LE	2	1	2	31	26S	32E	621742	3541730*	300	295	5
C 02323		C	LE	3	2	3	21	26S	32E	624348	3544010*	405	405	0
C 03537 POD1		CUB	LE	3	2	3	21	26S	32E	624250	3543985	850		
C 03595 POD1		CUB	LE	4	2	3	21	26S	32E	624423	3544045	280	180	100
C 03829 POD1		CUB	LE	3	3	1	06	26S	32E	620628	3549186	646	350	296
C 04209 POD1		CUB	LE	2	3	3	06	26S	32E	620903	3548619	360	155	205
C 04209 POD2		C	LE	2	3	3	06	26S	32E	620818	3548657	340	155	185
C 04485 POD1		CUB	LE	4	1	1	12	26S	32E	629039	3548125	55		
C 04548 POD1		CUB	LE	1	2	1	01	26S	32E	628238	3622599		110	
C 04549 POD1		CUB	LE	1	1	1	11	26S	32E	627111	3548316	0	0	0

Average Depth to Water: **202 feet**
Minimum Depth: **0 feet**
Maximum Depth: **405 feet**

Record Count: 12

PLSS Search:

Township: 26S **Range:** 32E

***UTM location was derived from PLSS - see Help**

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 02250		CUB	ED	3	1	4	21	25S	31E	614912	3553620*	400	390	10
C 02568		CUB	ED	4	3	1	01	25S	31E	619103	3558892*	1025		
C 02569		CUB	ED	4	4	2	02	25S	31E	618699	3558891*	1016		
C 02570		CUB	ED	4	2	4	02	25S	31E	618704	3558489*	895		
C 02571		CUB	ED	4	1	2	02	25S	31E	618292	3559294*	860		
C 02572		CUB	ED	4	2	2	02	25S	31E	618695	3559294*	852		
C 02573		CUB	ED	1	4	2	02	25S	31E	618499	3559091*			
C 02574		CUB	ED	1	1	2	02	25S	31E	618092	3559494*			
C 03830 POD1		CUB	ED	4	2	4	02	25S	31E	618632	3558432	450		
C 04479 POD1		CUB	ED	2	1	1	04	25S	31E	614182	3559400	0	0	0
C 04500 POD1		CUB	ED	4	4	1	28	25S	31E	614620	3552380			

Average Depth to Water: **195 feet**
Minimum Depth: **0 feet**
Maximum Depth: **390 feet**

Record Count: 11

PLSS Search:

Township: 25S **Range:** 31E

***UTM location was derived from PLSS - see Help**

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 02312		CUB	LE	1	2	1	05	25S	33E	632292	3559772	150	90	60
C 02313		CUB	LE	2	3	3	26	25S	33E	636971	3552098*	150	110	40
C 02373 CLW317846	O	CUB	LE	2	1	1	13	25S	33E	638518	3556544*	625	185	440
C 02373 S		CUB	LE	1	2	1	13	25S	33E	638721	3556549*	625	185	440
C 04537 POD1		C	LE	4	4	4	31	25S	33E	631847	3550243	500	280	220
C 04627 POD1		CUB	LE	3	3	4	08	25S	33E	632665	3556725			

Average Depth to Water: **170 feet**

Minimum Depth: **90 feet**

Maximum Depth: **280 feet**

Record Count: 6

PLSS Search:

Township: 25S **Range:** 33E

***UTM location was derived from PLSS - see Help**

ATTACHMENT 2 – PHOTOGRAPHIC DOCUMENTATION

PHOTOGRAPH NO. 1 – A general view of the excavation/remediation area on June 7, 2022. The view is towards the southwest.

(Approximate GPS Coordinates: 32.139897, -103.629589)

PHOTOGRAPH NO. 2 – An additional view of the excavation/remediation area at the Site. The view is towards the southeast.

(Approximate GPS Coordinates: 32.139924, -103.630112)

PHOTOGRAPH NO. 3 – A view of the over-excavation activities in the "B-7" sample area on June 27, 2022.

(Approximate GPS Coordinates: 32.139497, -103.629992)

ATTACHMENT 3 – LABORATORY ANALYTICAL REPORTS

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2387-1
Laboratory Sample Delivery Group: 5198
Client Project/Site: Resolute 12 Fed Com 505 & 506
Revision: 2

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

Attn: Will Kierdorf

Holly Taylor

Authorized for release by:
6/22/2022 1:59:14 PM

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

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: Resolute 12 Fed Com 505 & 506

Laboratory Job ID: 890-2387-1
SDG: 5198

Table of Contents

Definitions/Glossary

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Qualifiers

GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	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
B	Compound was found in the blank and sample.
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.

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)

Definitions/Glossary

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Job ID: 890-2387-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2387-1

Comments
No additional comments.

Revision
The report being provided is a revision of the original report sent on 6/17/2022. The report (revision 2) is being revised to show all results down to the MDL per Will Kierdorf (phone).

Report revision history
Revision 1 - 6/17/2022 - Reason - The report was revised to correct the Project Name per Will Kierdorf (email).

Receipt
The samples were received on 6/8/2022 8:17 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 1.2º C.

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: B-17 (890-2387-31). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: CCV biased low for Ethylbenzene, m,p-Xylenes, and o-Xylene, however an acceptable CCV was analyzed within the 12 hour window, therefore data was qualified and reported.
(CCV 880-27440/33)

Method 8021B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-27259 and analytical batch 880-27440 recovered outside control limits for the following analytes: Benzene.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-27259 and analytical batch 880-27440 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.

Method 8021B: The CCV was biased low for both benzene and toluene, however since the next CCV was within calibration it was determined this was a possible injection error and the data was qualified and reported.
(CCV 880-27336/20)

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: The method blank for preparation batch 880-27209 and analytical batch 880-27340 contained OII Range Organics (Over C28-C36) 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 continuing calibration was biased high for both the gasoline and diesel hydrocarbon ranges. However, the bracketing continuing calibration verifications were acceptable so the data was qualified and reported.
(CCV 880-27340/19)

Method 8015B NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-27209/2-A). Evidence of matrix interferences is not obvious.

Method 8015B NM: The method blank for preparation batch 880-27292 and analytical batch 880-27330 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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-27292 and analytical batch

Case Narrative

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Job ID: 890-2387-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

880-27330 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.

Method 8015B NM: Surrogate recovery for the following sample was outside control limits: (890-2387-A-21-F MS). Evidence of matrix interferences is not obvious.

Method 8015B NM: The method blank for preparation batch 880-27203 and analytical batch 880-27237 contained Gasoline Range Organics (GRO)-C6-C10 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: Surrogate recovery for the following samples were outside control limits: W-11 (890-2387-11) and B-5 (890-2387-19). 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: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: W-1

Date Collected: 06/07/22 08:24
Date Received: 06/08/22 08:17
Sample Depth: 0 - 7

Lab Sample ID: 890-2387-1

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		06/09/22 12:42	06/11/22 21:19	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		06/09/22 12:42	06/11/22 21:19	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		06/09/22 12:42	06/11/22 21:19	1
m,p-Xylenes	<0.00100	U	0.00398	0.00100	mg/Kg		06/09/22 12:42	06/11/22 21:19	1
o-Xylene	**0.000501**	**J**	0.00199	0.000342	mg/Kg		06/09/22 12:42	06/11/22 21:19	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		06/09/22 12:42	06/11/22 21:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*06/09/22 12:42*	*06/11/22 21:19*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*06/09/22 12:42*	*06/11/22 21:19*	*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			06/10/22 10:44	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			06/10/22 09:46	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		06/09/22 14:22	06/10/22 11:22	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		06/09/22 14:22	06/10/22 11:22	1
OII Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		06/09/22 14:22	06/10/22 11:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*06/09/22 14:22*	*06/10/22 11:22*	*1*
o-Terphenyl	*103*		*70 - 130*	*06/09/22 14:22*	*06/10/22 11:22*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13.9**		4.96	0.851	mg/Kg			06/13/22 22:13	1

Client Sample ID: W-2

Date Collected: 06/07/22 08:27
Date Received: 06/08/22 08:17
Sample Depth: 0 - 7

Lab Sample ID: 890-2387-2

Matrix: Solid

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		06/09/22 12:42	06/11/22 21:46	1
Toluene	<0.000452	U	0.00198	0.000452	mg/Kg		06/09/22 12:42	06/11/22 21:46	1
Ethylbenzene	<0.000561	U	0.00198	0.000561	mg/Kg		06/09/22 12:42	06/11/22 21:46	1
m,p-Xylenes	<0.00100	U	0.00397	0.00100	mg/Kg		06/09/22 12:42	06/11/22 21:46	1
o-Xylene	**0.000484**	**J**	0.00198	0.000341	mg/Kg		06/09/22 12:42	06/11/22 21:46	1
Xylenes, Total	<0.00100	U	0.00397	0.00100	mg/Kg		06/09/22 12:42	06/11/22 21:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*06/09/22 12:42*	*06/11/22 21:46*	*1*

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: W-2

Lab Sample ID: 890-2387-2
Matrix: Solid
Date Collected: 06/07/22 08:27
Date Received: 06/08/22 08:17
Sample Depth: 0 - 7

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*06/09/22 12:42*	*06/11/22 21:46*	*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			06/10/22 10:44	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			06/10/22 09:46	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		06/09/22 14:22	06/10/22 12:27	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		06/09/22 14:22	06/10/22 12:27	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		06/09/22 14:22	06/10/22 12:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*103*		*70 - 130*	*06/09/22 14:22*	*06/10/22 12:27*	*1*
o-Terphenyl	*116*		*70 - 130*	*06/09/22 14:22*	*06/10/22 12:27*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**60.5**		5.01	0.860	mg/Kg			06/14/22 11:47	1

Client Sample ID: W-3

Lab Sample ID: 890-2387-3
Matrix: Solid
Date Collected: 06/07/22 08:32
Date Received: 06/08/22 08:17
Sample Depth: 0 - 7.5

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		06/09/22 12:42	06/11/22 22:13	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		06/09/22 12:42	06/11/22 22:13	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		06/09/22 12:42	06/11/22 22:13	1
m,p-Xylenes	<0.00101	U	0.00399	0.00101	mg/Kg		06/09/22 12:42	06/11/22 22:13	1
o-Xylene	**0.000428**	**J**	0.00200	0.000343	mg/Kg		06/09/22 12:42	06/11/22 22:13	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		06/09/22 12:42	06/11/22 22:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*06/09/22 12:42*	*06/11/22 22:13*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*06/09/22 12:42*	*06/11/22 22:13*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00399	0.00101	mg/Kg			06/10/22 10:44	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			06/10/22 09:46	1

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: W-3

Lab Sample ID: 890-2387-3
Matrix: Solid
Date Collected: 06/07/22 08:32
Date Received: 06/08/22 08:17
Sample Depth: 0 - 7.5

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		06/09/22 14:22	06/10/22 12:49	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		06/09/22 14:22	06/10/22 12:49	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		06/09/22 14:22	06/10/22 12:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*06/09/22 14:22*	*06/10/22 12:49*	*1*
o-Terphenyl	*108*		*70 - 130*	*06/09/22 14:22*	*06/10/22 12:49*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**30.7**		4.97	0.853	mg/Kg			06/14/22 11:55	1

Client Sample ID: W-4

Lab Sample ID: 890-2387-4
Matrix: Solid
Date Collected: 06/07/22 08:37
Date Received: 06/08/22 08:17
Sample Depth: 0 - 7.5

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		06/09/22 12:42	06/11/22 22:38	1
Toluene	<0.000451	U	0.00198	0.000451	mg/Kg		06/09/22 12:42	06/11/22 22:38	1
Ethylbenzene	<0.000559	U	0.00198	0.000559	mg/Kg		06/09/22 12:42	06/11/22 22:38	1
m,p-Xylenes	<0.00100	U	0.00396	0.00100	mg/Kg		06/09/22 12:42	06/11/22 22:38	1
o-Xylene	<0.000341	U	0.00198	0.000341	mg/Kg		06/09/22 12:42	06/11/22 22:38	1
Xylenes, Total	<0.00100	U	0.00396	0.00100	mg/Kg		06/09/22 12:42	06/11/22 22:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*06/09/22 12:42*	*06/11/22 22:38*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*06/09/22 12:42*	*06/11/22 22:38*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00396	0.00100	mg/Kg			06/10/22 10:44	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			06/10/22 09:46	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		06/09/22 14:22	06/10/22 13:10	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		06/09/22 14:22	06/10/22 13:10	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		06/09/22 14:22	06/10/22 13:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*06/09/22 14:22*	*06/10/22 13:10*	*1*
o-Terphenyl	*106*		*70 - 130*	*06/09/22 14:22*	*06/10/22 13:10*	*1*

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: W-4

Date Collected: 06/07/22 08:37
Date Received: 06/08/22 08:17
Sample Depth: 0 - 7.5

Lab Sample ID: 890-2387-4
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	54.6		4.98	0.855	mg/Kg			06/13/22 22:37	1

Client Sample ID: W-5

Date Collected: 06/07/22 08:40
Date Received: 06/08/22 08:17
Sample Depth: 0 - 8

Lab Sample ID: 890-2387-5
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		06/09/22 12:42	06/11/22 23:04	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		06/09/22 12:42	06/11/22 23:04	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		06/09/22 12:42	06/11/22 23:04	1
m,p-Xylenes	<0.00101	U	0.00400	0.00101	mg/Kg		06/09/22 12:42	06/11/22 23:04	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		06/09/22 12:42	06/11/22 23:04	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		06/09/22 12:42	06/11/22 23:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*06/09/22 12:42*	*06/11/22 23:04*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*06/09/22 12:42*	*06/11/22 23:04*	*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			06/10/22 10:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	16.2	J	50.0	15.0	mg/Kg			06/10/22 09:46	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	16.2	J B	50.0	15.0	mg/Kg		06/09/22 14:22	06/10/22 13:32	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		06/09/22 14:22	06/10/22 13:32	1
OII Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		06/09/22 14:22	06/10/22 13:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*06/09/22 14:22*	*06/10/22 13:32*	*1*
o-Terphenyl	*104*		*70 - 130*	*06/09/22 14:22*	*06/10/22 13:32*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	260		25.0	4.29	mg/Kg			06/13/22 22:45	5

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: W-6

Lab Sample ID: 890-2387-6
Matrix: Solid
Date Collected: 06/07/22 08:42
Date Received: 06/08/22 08:17
Sample Depth: 0 - 8

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		06/09/22 12:42	06/11/22 23:29	1
Toluene	<0.000459	U	0.00201	0.000459	mg/Kg		06/09/22 12:42	06/11/22 23:29	1
Ethylbenzene	<0.000568	U	0.00201	0.000568	mg/Kg		06/09/22 12:42	06/11/22 23:29	1
m,p-Xylenes	<0.00102	U	0.00402	0.00102	mg/Kg		06/09/22 12:42	06/11/22 23:29	1
o-Xylene	<0.000346	U	0.00201	0.000346	mg/Kg		06/09/22 12:42	06/11/22 23:29	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg		06/09/22 12:42	06/11/22 23:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*06/09/22 12:42*	*06/11/22 23:29*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*06/09/22 12:42*	*06/11/22 23:29*	*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			06/10/22 10:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**17.2**	**J**	49.9	15.0	mg/Kg			06/10/22 09:46	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		06/09/22 14:22	06/10/22 13:54	1
Diesel Range Organics (Over C10-C28)	**17.2**	**J**	49.9	15.0	mg/Kg		06/09/22 14:22	06/10/22 13:54	1
OII Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		06/09/22 14:22	06/10/22 13:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*06/09/22 14:22*	*06/10/22 13:54*	*1*
o-Terphenyl	*123*		*70 - 130*	*06/09/22 14:22*	*06/10/22 13:54*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**61.8**		5.00	0.858	mg/Kg			06/13/22 22:53	1

Client Sample ID: W-7

Lab Sample ID: 890-2387-7
Matrix: Solid
Date Collected: 06/07/22 08:44
Date Received: 06/08/22 08:17
Sample Depth: 0 - 8

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		06/09/22 12:42	06/11/22 23:54	1
Toluene	<0.000451	U	0.00198	0.000451	mg/Kg		06/09/22 12:42	06/11/22 23:54	1
Ethylbenzene	<0.000559	U	0.00198	0.000559	mg/Kg		06/09/22 12:42	06/11/22 23:54	1
m,p-Xylenes	<0.00100	U	0.00396	0.00100	mg/Kg		06/09/22 12:42	06/11/22 23:54	1
o-Xylene	<0.000341	U	0.00198	0.000341	mg/Kg		06/09/22 12:42	06/11/22 23:54	1
Xylenes, Total	<0.00100	U	0.00396	0.00100	mg/Kg		06/09/22 12:42	06/11/22 23:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*	*06/09/22 12:42*	*06/11/22 23:54*	*1*

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: W-7

Lab Sample ID: 890-2387-7
Matrix: Solid
Date Collected: 06/07/22 08:44
Date Received: 06/08/22 08:17
Sample Depth: 0 - 8

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*06/09/22 12:42*	*06/11/22 23:54*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00396	0.00100	mg/Kg			06/10/22 10:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**26.7**	**J**	49.9	15.0	mg/Kg			06/10/22 09:46	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	**26.7**	**J B**	49.9	15.0	mg/Kg		06/09/22 14:22	06/10/22 14:16	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		06/09/22 14:22	06/10/22 14:16	1
OII Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		06/09/22 14:22	06/10/22 14:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*104*		*70 - 130*	*06/09/22 14:22*	*06/10/22 14:16*	*1*
o-Terphenyl	*113*		*70 - 130*	*06/09/22 14:22*	*06/10/22 14:16*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**107**		5.00	0.858	mg/Kg			06/14/22 13:45	1

Client Sample ID: W-8

Lab Sample ID: 890-2387-8
Matrix: Solid
Date Collected: 06/07/22 08:46
Date Received: 06/08/22 08:17
Sample Depth: 0 - 8

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		06/09/22 12:42	06/12/22 00:20	1
Toluene	<0.000460	U	0.00202	0.000460	mg/Kg		06/09/22 12:42	06/12/22 00:20	1
Ethylbenzene	<0.000570	U	0.00202	0.000570	mg/Kg		06/09/22 12:42	06/12/22 00:20	1
m,p-Xylenes	<0.00102	U	0.00403	0.00102	mg/Kg		06/09/22 12:42	06/12/22 00:20	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg		06/09/22 12:42	06/12/22 00:20	1
Xylenes, Total	<0.00102	U	0.00403	0.00102	mg/Kg		06/09/22 12:42	06/12/22 00:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*06/09/22 12:42*	*06/12/22 00:20*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*06/09/22 12:42*	*06/12/22 00:20*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00403	0.00102	mg/Kg			06/10/22 10:44	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			06/10/22 09:46	1

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: W-8

Lab Sample ID: 890-2387-8
Matrix: Solid
Date Collected: 06/07/22 08:46
Date Received: 06/08/22 08:17
Sample Depth: 0 - 8

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		06/09/22 14:22	06/10/22 14:37	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		06/09/22 14:22	06/10/22 14:37	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		06/09/22 14:22	06/10/22 14:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*06/09/22 14:22*	*06/10/22 14:37*	*1*
o-Terphenyl	*111*		*70 - 130*	*06/09/22 14:22*	*06/10/22 14:37*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**41.2**		4.98	0.855	mg/Kg			06/14/22 14:08	1

Client Sample ID: W-9

Lab Sample ID: 890-2387-9
Matrix: Solid
Date Collected: 06/07/22 08:47
Date Received: 06/08/22 08:17
Sample Depth: 0 - 8

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		06/09/22 12:42	06/12/22 00:45	1
Toluene	<0.000461	U	0.00202	0.000461	mg/Kg		06/09/22 12:42	06/12/22 00:45	1
Ethylbenzene	<0.000571	U	0.00202	0.000571	mg/Kg		06/09/22 12:42	06/12/22 00:45	1
m,p-Xylenes	<0.00102	U	0.00404	0.00102	mg/Kg		06/09/22 12:42	06/12/22 00:45	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg		06/09/22 12:42	06/12/22 00:45	1
Xylenes, Total	<0.00102	U	0.00404	0.00102	mg/Kg		06/09/22 12:42	06/12/22 00:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*06/09/22 12:42*	*06/12/22 00:45*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*06/09/22 12:42*	*06/12/22 00:45*	*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			06/10/22 10:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**15.7**	**J**	50.0	15.0	mg/Kg			06/10/22 09:46	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	**15.7**	**J B**	50.0	15.0	mg/Kg		06/09/22 14:22	06/10/22 14:59	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		06/09/22 14:22	06/10/22 14:59	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		06/09/22 14:22	06/10/22 14:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*06/09/22 14:22*	*06/10/22 14:59*	*1*
o-Terphenyl	*94*		*70 - 130*	*06/09/22 14:22*	*06/10/22 14:59*	*1*

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: W-9

Date Collected: 06/07/22 08:47
Date Received: 06/08/22 08:17
Sample Depth: 0 - 8

Lab Sample ID: 890-2387-9
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.5		4.95	0.850	mg/Kg			06/14/22 14:16	1

Client Sample ID: W-10

Date Collected: 06/07/22 08:50
Date Received: 06/08/22 08:17
Sample Depth: 0 - 8

Lab Sample ID: 890-2387-10
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		06/09/22 12:42	06/12/22 01:11	1
Toluene	<0.000458	U	0.00201	0.000458	mg/Kg		06/09/22 12:42	06/12/22 01:11	1
Ethylbenzene	<0.000567	U	0.00201	0.000567	mg/Kg		06/09/22 12:42	06/12/22 01:11	1
m,p-Xylenes	<0.00101	U	0.00402	0.00101	mg/Kg		06/09/22 12:42	06/12/22 01:11	1
o-Xylene	<0.000345	U	0.00201	0.000345	mg/Kg		06/09/22 12:42	06/12/22 01:11	1
Xylenes, Total	<0.00101	U	0.00402	0.00101	mg/Kg		06/09/22 12:42	06/12/22 01:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*06/09/22 12:42*	*06/12/22 01:11*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*06/09/22 12:42*	*06/12/22 01:11*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00402	0.00101	mg/Kg			06/10/22 10:44	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			06/10/22 09:46	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		06/09/22 14:22	06/10/22 15:21	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		06/09/22 14:22	06/10/22 15:21	1
OII Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		06/09/22 14:22	06/10/22 15:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*06/09/22 14:22*	*06/10/22 15:21*	*1*
o-Terphenyl	*103*		*70 - 130*	*06/09/22 14:22*	*06/10/22 15:21*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	66.0		5.01	0.860	mg/Kg			06/14/22 14:24	1

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: W-11

Date Collected: 06/07/22 08:55
Date Received: 06/08/22 08:17
Sample Depth: 0 - 6

Lab Sample ID: 890-2387-11

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		06/09/22 12:42	06/12/22 02:52	1
Toluene	<0.000461	U	0.00202	0.000461	mg/Kg		06/09/22 12:42	06/12/22 02:52	1
Ethylbenzene	<0.000571	U	0.00202	0.000571	mg/Kg		06/09/22 12:42	06/12/22 02:52	1
m,p-Xylenes	<0.00102	U	0.00404	0.00102	mg/Kg		06/09/22 12:42	06/12/22 02:52	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg		06/09/22 12:42	06/12/22 02:52	1
Xylenes, Total	<0.00102	U	0.00404	0.00102	mg/Kg		06/09/22 12:42	06/12/22 02:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*06/09/22 12:42*	*06/12/22 02:52*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*06/09/22 12:42*	*06/12/22 02:52*	*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			06/10/22 10:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**95.5**		49.9	15.0	mg/Kg			06/10/22 09:46	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 B**	49.9	15.0	mg/Kg		06/09/22 14:22	06/10/22 16:05	1
Diesel Range Organics (Over C10-C28)	**73.0**		49.9	15.0	mg/Kg		06/09/22 14:22	06/10/22 16:05	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		06/09/22 14:22	06/10/22 16:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*06/09/22 14:22*	*06/10/22 16:05*	*1*
o-Terphenyl	*0.03*	*S1-*	*70 - 130*	*06/09/22 14:22*	*06/10/22 16:05*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**47.1**		4.97	0.853	mg/Kg			06/14/22 14:32	1

Client Sample ID: W-12

Date Collected: 06/07/22 09:00
Date Received: 06/08/22 08:17
Sample Depth: 0 - 6

Lab Sample ID: 890-2387-12

Matrix: Solid

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		06/09/22 12:42	06/12/22 03:18	1
Toluene	<0.000451	U	0.00198	0.000451	mg/Kg		06/09/22 12:42	06/12/22 03:18	1
Ethylbenzene	<0.000559	U	0.00198	0.000559	mg/Kg		06/09/22 12:42	06/12/22 03:18	1
m,p-Xylenes	<0.00100	U	0.00396	0.00100	mg/Kg		06/09/22 12:42	06/12/22 03:18	1
o-Xylene	<0.000341	U	0.00198	0.000341	mg/Kg		06/09/22 12:42	06/12/22 03:18	1
Xylenes, Total	<0.00100	U	0.00396	0.00100	mg/Kg		06/09/22 12:42	06/12/22 03:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*06/09/22 12:42*	*06/12/22 03:18*	*1*

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: W-12

Date Collected: 06/07/22 09:00
Date Received: 06/08/22 08:17
Sample Depth: 0 - 6

Lab Sample ID: 890-2387-12

Matrix: Solid

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*06/09/22 12:42*	*06/12/22 03:18*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00396	0.00100	mg/Kg			06/10/22 10:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**17.7**	**J**	49.8	14.9	mg/Kg			06/10/22 09:46	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	**17.7**	**J B**	49.8	14.9	mg/Kg		06/09/22 14:22	06/10/22 16:27	1
Diesel Range Organics (Over C10-C28)	<14.9	U	49.8	14.9	mg/Kg		06/09/22 14:22	06/10/22 16:27	1
OII Range Organics (Over C28-C36)	<14.9	U	49.8	14.9	mg/Kg		06/09/22 14:22	06/10/22 16:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*90*		*70 - 130*	*06/09/22 14:22*	*06/10/22 16:27*	*1*
o-Terphenyl	*99*		*70 - 130*	*06/09/22 14:22*	*06/10/22 16:27*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**28.3**		5.00	0.858	mg/Kg			06/15/22 19:05	1

Client Sample ID: W-13

Date Collected: 06/07/22 09:04
Date Received: 06/08/22 08:17
Sample Depth: 0 - 6

Lab Sample ID: 890-2387-13

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		06/09/22 12:42	06/12/22 03:43	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		06/09/22 12:42	06/12/22 03:43	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		06/09/22 12:42	06/12/22 03:43	1
m,p-Xylenes	<0.00101	U	0.00400	0.00101	mg/Kg		06/09/22 12:42	06/12/22 03:43	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		06/09/22 12:42	06/12/22 03:43	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		06/09/22 12:42	06/12/22 03:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*06/09/22 12:42*	*06/12/22 03:43*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*06/09/22 12:42*	*06/12/22 03:43*	*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			06/10/22 10:44	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			06/10/22 09:46	1

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: W-13

Lab Sample ID: 890-2387-13
Matrix: Solid
Date Collected: 06/07/22 09:04
Date Received: 06/08/22 08:17
Sample Depth: 0 - 6

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		06/09/22 14:22	06/10/22 16:48	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		06/09/22 14:22	06/10/22 16:48	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		06/09/22 14:22	06/10/22 16:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*06/09/22 14:22*	*06/10/22 16:48*	*1*
o-Terphenyl	*99*		*70 - 130*	*06/09/22 14:22*	*06/10/22 16:48*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**129**		24.9	4.27	mg/Kg			06/14/22 15:03	5

Client Sample ID: IW-1

Lab Sample ID: 890-2387-14
Matrix: Solid
Date Collected: 06/07/22 09:07
Date Received: 06/08/22 08:17
Sample Depth: 7 - 9

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		06/09/22 12:42	06/12/22 04:09	1
Toluene	<0.000461	U	0.00202	0.000461	mg/Kg		06/09/22 12:42	06/12/22 04:09	1
Ethylbenzene	<0.000571	U	0.00202	0.000571	mg/Kg		06/09/22 12:42	06/12/22 04:09	1
m,p-Xylenes	<0.00102	U	0.00404	0.00102	mg/Kg		06/09/22 12:42	06/12/22 04:09	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg		06/09/22 12:42	06/12/22 04:09	1
Xylenes, Total	<0.00102	U	0.00404	0.00102	mg/Kg		06/09/22 12:42	06/12/22 04:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*06/09/22 12:42*	*06/12/22 04:09*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*06/09/22 12:42*	*06/12/22 04:09*	*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			06/10/22 10:44	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			06/10/22 09:46	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 B**	50.0	15.0	mg/Kg		06/09/22 14:22	06/10/22 17:10	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		06/09/22 14:22	06/10/22 17:10	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		06/09/22 14:22	06/10/22 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*06/09/22 14:22*	*06/10/22 17:10*	*1*
o-Terphenyl	*110*		*70 - 130*	*06/09/22 14:22*	*06/10/22 17:10*	*1*

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: IW-1

Lab Sample ID: 890-2387-14
Matrix: Solid
Date Collected: 06/07/22 09:07
Date Received: 06/08/22 08:17
Sample Depth: 7 - 9

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**21.4**		4.96	0.851	mg/Kg			06/14/22 15:11	1

Client Sample ID: B-1

Lab Sample ID: 890-2387-15
Matrix: Solid
Date Collected: 06/07/22 10:34
Date Received: 06/08/22 08:17
Sample Depth: 5 - 7

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		06/09/22 12:42	06/12/22 04:34	1
Toluene	<0.000458	U	0.00201	0.000458	mg/Kg		06/09/22 12:42	06/12/22 04:34	1
Ethylbenzene	<0.000567	U	0.00201	0.000567	mg/Kg		06/09/22 12:42	06/12/22 04:34	1
m,p-Xylenes	<0.00101	U	0.00402	0.00101	mg/Kg		06/09/22 12:42	06/12/22 04:34	1
o-Xylene	<0.000345	U	0.00201	0.000345	mg/Kg		06/09/22 12:42	06/12/22 04:34	1
Xylenes, Total	<0.00101	U	0.00402	0.00101	mg/Kg		06/09/22 12:42	06/12/22 04:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*06/09/22 12:42*	*06/12/22 04:34*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*06/09/22 12:42*	*06/12/22 04:34*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00402	0.00101	mg/Kg			06/10/22 10:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**16.6**	**J**	50.0	15.0	mg/Kg			06/10/22 09:46	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		06/09/22 14:22	06/10/22 17:32	1
Diesel Range Organics (Over C10-C28)	**16.6**	**J**	50.0	15.0	mg/Kg		06/09/22 14:22	06/10/22 17:32	1
OII Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		06/09/22 14:22	06/10/22 17:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*06/09/22 14:22*	*06/10/22 17:32*	*1*
o-Terphenyl	*107*		*70 - 130*	*06/09/22 14:22*	*06/10/22 17:32*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**27.9**		5.04	0.865	mg/Kg			06/14/22 15:19	1

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: B-2

Date Collected: 06/07/22 10:38
Date Received: 06/08/22 08:17
Sample Depth: 5 - 7

Lab Sample ID: 890-2387-16
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		06/09/22 12:42	06/12/22 05:00	1
Toluene	<0.000460	U	0.00202	0.000460	mg/Kg		06/09/22 12:42	06/12/22 05:00	1
Ethylbenzene	<0.000570	U	0.00202	0.000570	mg/Kg		06/09/22 12:42	06/12/22 05:00	1
m,p-Xylenes	<0.00102	U	0.00403	0.00102	mg/Kg		06/09/22 12:42	06/12/22 05:00	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg		06/09/22 12:42	06/12/22 05:00	1
Xylenes, Total	<0.00102	U	0.00403	0.00102	mg/Kg		06/09/22 12:42	06/12/22 05:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*06/09/22 12:42*	*06/12/22 05:00*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*06/09/22 12:42*	*06/12/22 05:00*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00403	0.00102	mg/Kg			06/10/22 10:44	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			06/10/22 09:46	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		06/09/22 14:22	06/10/22 17:54	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		06/09/22 14:22	06/10/22 17:54	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		06/09/22 14:22	06/10/22 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*06/09/22 14:22*	*06/10/22 17:54*	*1*
o-Terphenyl	*109*		*70 - 130*	*06/09/22 14:22*	*06/10/22 17:54*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**42.9**		4.97	0.853	mg/Kg			06/14/22 15:27	1

Client Sample ID: B-3

Date Collected: 06/07/22 10:41
Date Received: 06/08/22 08:17
Sample Depth: 5 - 7

Lab Sample ID: 890-2387-17
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		06/09/22 12:42	06/12/22 05:25	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		06/09/22 12:42	06/12/22 05:25	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		06/09/22 12:42	06/12/22 05:25	1
m,p-Xylenes	<0.00100	U	0.00398	0.00100	mg/Kg		06/09/22 12:42	06/12/22 05:25	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		06/09/22 12:42	06/12/22 05:25	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		06/09/22 12:42	06/12/22 05:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*06/09/22 12:42*	*06/12/22 05:25*	*1*

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: B-3

Lab Sample ID: 890-2387-17
Matrix: Solid

Date Collected: 06/07/22 10:41
Date Received: 06/08/22 08:17
Sample Depth: 5 - 7

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*06/09/22 12:42*	*06/12/22 05:25*	*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			06/10/22 10:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**34.4**	**J**	50.0	15.0	mg/Kg			06/10/22 09:46	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	**17.5**	**J B**	50.0	15.0	mg/Kg		06/09/22 14:22	06/10/22 18:15	1
Diesel Range Organics (Over C10-C28)	**16.9**	**J**	50.0	15.0	mg/Kg		06/09/22 14:22	06/10/22 18:15	1
OII Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		06/09/22 14:22	06/10/22 18:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*94*		*70 - 130*	*06/09/22 14:22*	*06/10/22 18:15*	*1*
o-Terphenyl	*102*		*70 - 130*	*06/09/22 14:22*	*06/10/22 18:15*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**53.3**		4.98	0.855	mg/Kg			06/14/22 15:35	1

Client Sample ID: B-4

Lab Sample ID: 890-2387-18
Matrix: Solid

Date Collected: 06/07/22 10:44
Date Received: 06/08/22 08:17
Sample Depth: 7 - 7

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		06/09/22 12:42	06/12/22 05:51	1
Toluene	<0.000459	U	0.00201	0.000459	mg/Kg		06/09/22 12:42	06/12/22 05:51	1
Ethylbenzene	<0.000568	U	0.00201	0.000568	mg/Kg		06/09/22 12:42	06/12/22 05:51	1
m,p-Xylenes	<0.00102	U	0.00402	0.00102	mg/Kg		06/09/22 12:42	06/12/22 05:51	1
o-Xylene	<0.000346	U	0.00201	0.000346	mg/Kg		06/09/22 12:42	06/12/22 05:51	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg		06/09/22 12:42	06/12/22 05:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*06/09/22 12:42*	*06/12/22 05:51*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*06/09/22 12:42*	*06/12/22 05:51*	*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			06/10/22 10:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**19.8**	**J**	49.9	15.0	mg/Kg			06/10/22 09:46	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: B-4

Lab Sample ID: 890-2387-18
Matrix: Solid
Date Collected: 06/07/22 10:44
Date Received: 06/08/22 08:17
Sample Depth: 7 - 7

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		06/09/22 14:22	06/10/22 18:37	1
Diesel Range Organics (Over C10-C28)	**19.8**	**J**	49.9	15.0	mg/Kg		06/09/22 14:22	06/10/22 18:37	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		06/09/22 14:22	06/10/22 18:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*06/09/22 14:22*	*06/10/22 18:37*	*1*
o-Terphenyl	*108*		*70 - 130*	*06/09/22 14:22*	*06/10/22 18:37*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**56.8**		5.00	0.858	mg/Kg			06/14/22 15:58	1

Client Sample ID: B-5

Lab Sample ID: 890-2387-19
Matrix: Solid
Date Collected: 06/07/22 10:47
Date Received: 06/08/22 08:17
Sample Depth: 6 - 7

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		06/09/22 12:42	06/12/22 06:16	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		06/09/22 12:42	06/12/22 06:16	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		06/09/22 12:42	06/12/22 06:16	1
m,p-Xylenes	<0.00101	U	0.00400	0.00101	mg/Kg		06/09/22 12:42	06/12/22 06:16	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		06/09/22 12:42	06/12/22 06:16	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		06/09/22 12:42	06/12/22 06:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*06/09/22 12:42*	*06/12/22 06:16*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*06/09/22 12:42*	*06/12/22 06:16*	*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			06/10/22 10:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**23.4**	**J**	49.9	15.0	mg/Kg			06/10/22 09:46	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		06/09/22 14:22	06/10/22 18:59	1
Diesel Range Organics (Over C10-C28)	**23.4**	**J**	49.9	15.0	mg/Kg		06/09/22 14:22	06/10/22 18:59	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		06/09/22 14:22	06/10/22 18:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*123*		*70 - 130*	*06/09/22 14:22*	*06/10/22 18:59*	*1*
o-Terphenyl	*132*	*S1+*	*70 - 130*	*06/09/22 14:22*	*06/10/22 18:59*	*1*

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: B-5

Lab Sample ID: 890-2387-19
Matrix: Solid
Date Collected: 06/07/22 10:47
Date Received: 06/08/22 08:17
Sample Depth: 6 - 7

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42.7		4.99	0.857	mg/Kg			06/14/22 16:06	1

Client Sample ID: B-6

Lab Sample ID: 890-2387-20
Matrix: Solid
Date Collected: 06/07/22 10:50
Date Received: 06/08/22 08:17
Sample Depth: 6 - 7

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		06/09/22 12:42	06/12/22 06:42	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg		06/09/22 12:42	06/12/22 06:42	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		06/09/22 12:42	06/12/22 06:42	1
m,p-Xylenes	<0.00101	U	0.00401	0.00101	mg/Kg		06/09/22 12:42	06/12/22 06:42	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg		06/09/22 12:42	06/12/22 06:42	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		06/09/22 12:42	06/12/22 06:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*06/09/22 12:42*	*06/12/22 06:42*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*06/09/22 12:42*	*06/12/22 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	0.00401	0.00101	mg/Kg			06/10/22 10:44	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			06/10/22 09:46	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		06/09/22 14:22	06/10/22 19:21	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		06/09/22 14:22	06/10/22 19:21	1
OII Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		06/09/22 14:22	06/10/22 19:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*06/09/22 14:22*	*06/10/22 19:21*	*1*
o-Terphenyl	*98*		*70 - 130*	*06/09/22 14:22*	*06/10/22 19:21*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.9		4.99	0.857	mg/Kg			06/15/22 19:32	1

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: B-7

Lab Sample ID: 890-2387-21
Matrix: Solid
Date Collected: 06/07/22 10:52
Date Received: 06/08/22 08:17
Sample Depth: 7

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000428**	**J**	0.00199	0.000383	mg/Kg		06/09/22 13:00	06/11/22 21:00	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		06/09/22 13:00	06/11/22 21:00	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		06/09/22 13:00	06/11/22 21:00	1
m,p-Xylenes	<0.00100	U *+	0.00398	0.00100	mg/Kg		06/09/22 13:00	06/11/22 21:00	1
o-Xylene	**0.000709**	**J**	0.00199	0.000342	mg/Kg		06/09/22 13:00	06/11/22 21:00	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		06/09/22 13:00	06/11/22 21:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*06/09/22 13:00*	*06/11/22 21:00*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*06/09/22 13:00*	*06/11/22 21:00*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00114**	**J**	0.00398	0.00100	mg/Kg			06/10/22 10:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**196**		49.9	15.0	mg/Kg			06/10/22 09:46	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	**15.7**	**J F1**	49.9	15.0	mg/Kg		06/10/22 11:10	06/11/22 12:00	1
Diesel Range Organics (Over C10-C28)	**180**	**B**	49.9	15.0	mg/Kg		06/10/22 11:10	06/11/22 12:00	1
OII Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		06/10/22 11:10	06/11/22 12:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*06/10/22 11:10*	*06/11/22 12:00*	*1*
o-Terphenyl	*88*		*70 - 130*	*06/10/22 11:10*	*06/11/22 12:00*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**88.0**		4.98	0.855	mg/Kg			06/15/22 19:42	1

Client Sample ID: B-8

Lab Sample ID: 890-2387-22
Matrix: Solid
Date Collected: 06/07/22 10:57
Date Received: 06/08/22 08:17
Sample Depth: 6

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		06/09/22 13:00	06/11/22 21:20	1
Toluene	<0.000451	U	0.00198	0.000451	mg/Kg		06/09/22 13:00	06/11/22 21:20	1
Ethylbenzene	<0.000559	U	0.00198	0.000559	mg/Kg		06/09/22 13:00	06/11/22 21:20	1
m,p-Xylenes	<0.00100	U *+	0.00396	0.00100	mg/Kg		06/09/22 13:00	06/11/22 21:20	1
o-Xylene	**0.000589**	**J**	0.00198	0.000341	mg/Kg		06/09/22 13:00	06/11/22 21:20	1
Xylenes, Total	<0.00100	U	0.00396	0.00100	mg/Kg		06/09/22 13:00	06/11/22 21:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*06/09/22 13:00*	*06/11/22 21:20*	*1*

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: B-8

Date Collected: 06/07/22 10:57
Date Received: 06/08/22 08:17
Sample Depth: 6

Lab Sample ID: 890-2387-22

Matrix: Solid

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*06/09/22 13:00*	*06/11/22 21:20*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00396	0.00100	mg/Kg			06/10/22 10:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**58.5**		50.0	15.0	mg/Kg			06/10/22 09:46	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		06/10/22 11:10	06/11/22 13:04	1
Diesel Range Organics (Over C10-C28)	**58.5**	**B**	50.0	15.0	mg/Kg		06/10/22 11:10	06/11/22 13:04	1
OII Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		06/10/22 11:10	06/11/22 13:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*80*		*70 - 130*	*06/10/22 11:10*	*06/11/22 13:04*	*1*
o-Terphenyl	*82*		*70 - 130*	*06/10/22 11:10*	*06/11/22 13:04*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**90.7**		4.95	0.850	mg/Kg			06/15/22 19:51	1

Client Sample ID: B-9

Date Collected: 06/07/22 11:00
Date Received: 06/08/22 08:17
Sample Depth: 7

Lab Sample ID: 890-2387-23

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		06/09/22 13:00	06/11/22 21:41	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		06/09/22 13:00	06/11/22 21:41	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		06/09/22 13:00	06/11/22 21:41	1
m,p-Xylenes	<0.00101	U *+	0.00399	0.00101	mg/Kg		06/09/22 13:00	06/11/22 21:41	1
o-Xylene	**0.000516**	**J**	0.00200	0.000343	mg/Kg		06/09/22 13:00	06/11/22 21:41	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		06/09/22 13:00	06/11/22 21:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*06/09/22 13:00*	*06/11/22 21:41*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*06/09/22 13:00*	*06/11/22 21:41*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00399	0.00101	mg/Kg			06/10/22 10:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**39.4**	**J**	50.0	15.0	mg/Kg			06/10/22 09:46	1

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Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: B-9

Lab Sample ID: 890-2387-23
Matrix: Solid
Date Collected: 06/07/22 11:00
Date Received: 06/08/22 08:17
Sample Depth: 7

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		06/10/22 11:10	06/11/22 13:27	1
Diesel Range Organics (Over C10-C28)	**39.4**	**J B**	50.0	15.0	mg/Kg		06/10/22 11:10	06/11/22 13:27	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		06/10/22 11:10	06/11/22 13:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*06/10/22 11:10*	*06/11/22 13:27*	*1*
o-Terphenyl	*86*		*70 - 130*	*06/10/22 11:10*	*06/11/22 13:27*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**115**		5.00	0.858	mg/Kg			06/15/22 20:00	1

Client Sample ID: B-10

Lab Sample ID: 890-2387-24
Matrix: Solid
Date Collected: 06/07/22 11:05
Date Received: 06/08/22 08:17
Sample Depth: 7

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		06/09/22 13:00	06/11/22 22:02	1
Toluene	<0.000461	U	0.00202	0.000461	mg/Kg		06/09/22 13:00	06/11/22 22:02	1
Ethylbenzene	<0.000571	U	0.00202	0.000571	mg/Kg		06/09/22 13:00	06/11/22 22:02	1
m,p-Xylenes	<0.00102	U *+	0.00404	0.00102	mg/Kg		06/09/22 13:00	06/11/22 22:02	1
o-Xylene	**0.000622**	**J**	0.00202	0.000347	mg/Kg		06/09/22 13:00	06/11/22 22:02	1
Xylenes, Total	<0.00102	U	0.00404	0.00102	mg/Kg		06/09/22 13:00	06/11/22 22:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*06/09/22 13:00*	*06/11/22 22:02*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*06/09/22 13:00*	*06/11/22 22:02*	*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			06/10/22 10:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**26.1**	**J**	49.9	15.0	mg/Kg			06/10/22 09:46	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		06/10/22 11:10	06/11/22 13:49	1
Diesel Range Organics (Over C10-C28)	**26.1**	**J B**	49.9	15.0	mg/Kg		06/10/22 11:10	06/11/22 13:49	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		06/10/22 11:10	06/11/22 13:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*06/10/22 11:10*	*06/11/22 13:49*	*1*
o-Terphenyl	*88*		*70 - 130*	*06/10/22 11:10*	*06/11/22 13:49*	*1*

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: B-10

Lab Sample ID: 890-2387-24
Matrix: Solid

Date Collected: 06/07/22 11:05
Date Received: 06/08/22 08:17
Sample Depth: 7

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**23.4**		4.99	0.857	mg/Kg			06/15/22 20:28	1

Client Sample ID: B-11

Lab Sample ID: 890-2387-25
Matrix: Solid

Date Collected: 06/07/22 11:07
Date Received: 06/08/22 08:17
Sample Depth: 7.5

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		06/09/22 13:00	06/11/22 22:23	1
Toluene	<0.000459	U	0.00201	0.000459	mg/Kg		06/09/22 13:00	06/11/22 22:23	1
Ethylbenzene	<0.000568	U	0.00201	0.000568	mg/Kg		06/09/22 13:00	06/11/22 22:23	1
m,p-Xylenes	<0.00102	U *+	0.00402	0.00102	mg/Kg		06/09/22 13:00	06/11/22 22:23	1
o-Xylene	**0.000497**	**J**	0.00201	0.000346	mg/Kg		06/09/22 13:00	06/11/22 22:23	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg		06/09/22 13:00	06/11/22 22:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*06/09/22 13:00*	*06/11/22 22:23*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*06/09/22 13:00*	*06/11/22 22:23*	*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			06/10/22 10:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**33.6**	**J**	50.0	15.0	mg/Kg			06/10/22 09:46	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		06/10/22 11:10	06/11/22 14:11	1
Diesel Range Organics (Over C10-C28)	**33.6**	**J B**	50.0	15.0	mg/Kg		06/10/22 11:10	06/11/22 14:11	1
OII Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		06/10/22 11:10	06/11/22 14:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*06/10/22 11:10*	*06/11/22 14:11*	*1*
o-Terphenyl	*86*		*70 - 130*	*06/10/22 11:10*	*06/11/22 14:11*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20.7**		5.04	0.865	mg/Kg			06/15/22 20:37	1

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: B-12

Lab Sample ID: 890-2387-26
Matrix: Solid
Date Collected: 06/07/22 11:10
Date Received: 06/08/22 08:17
Sample Depth: 7.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000445**	**J**	0.00202	0.000388	mg/Kg		06/09/22 13:00	06/11/22 22:44	1
Toluene	<0.000460	U	0.00202	0.000460	mg/Kg		06/09/22 13:00	06/11/22 22:44	1
Ethylbenzene	<0.000570	U	0.00202	0.000570	mg/Kg		06/09/22 13:00	06/11/22 22:44	1
m,p-Xylenes	<0.00102	U *+	0.00403	0.00102	mg/Kg		06/09/22 13:00	06/11/22 22:44	1
o-Xylene	**0.000527**	**J**	0.00202	0.000347	mg/Kg		06/09/22 13:00	06/11/22 22:44	1
Xylenes, Total	<0.00102	U	0.00403	0.00102	mg/Kg		06/09/22 13:00	06/11/22 22:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*06/09/22 13:00*	*06/11/22 22:44*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*06/09/22 13:00*	*06/11/22 22:44*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00403	0.00102	mg/Kg			06/10/22 10:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**32.7**	**J**	49.9	15.0	mg/Kg			06/10/22 09:46	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		06/10/22 11:10	06/11/22 14:33	1
Diesel Range Organics (Over C10-C28)	**32.7**	**J B**	49.9	15.0	mg/Kg		06/10/22 11:10	06/11/22 14:33	1
OII Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		06/10/22 11:10	06/11/22 14:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*06/10/22 11:10*	*06/11/22 14:33*	*1*
o-Terphenyl	*81*		*70 - 130*	*06/10/22 11:10*	*06/11/22 14:33*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**29.8**		4.98	0.855	mg/Kg			06/16/22 11:49	1

Client Sample ID: B-13

Lab Sample ID: 890-2387-27
Matrix: Solid
Date Collected: 06/07/22 11:13
Date Received: 06/08/22 08:17
Sample Depth: 7.5

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		06/09/22 13:00	06/11/22 23:04	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg		06/09/22 13:00	06/11/22 23:04	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		06/09/22 13:00	06/11/22 23:04	1
m,p-Xylenes	<0.00101	U *+	0.00401	0.00101	mg/Kg		06/09/22 13:00	06/11/22 23:04	1
o-Xylene	**0.000508**	**J**	0.00200	0.000345	mg/Kg		06/09/22 13:00	06/11/22 23:04	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		06/09/22 13:00	06/11/22 23:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*06/09/22 13:00*	*06/11/22 23:04*	*1*

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: B-13

Lab Sample ID: 890-2387-27
Matrix: Solid
Date Collected: 06/07/22 11:13
Date Received: 06/08/22 08:17
Sample Depth: 7.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*06/09/22 13:00*	*06/11/22 23:04*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00401	0.00101	mg/Kg			06/10/22 10:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**32.8**	**J**	50.0	15.0	mg/Kg			06/10/22 09:46	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		06/10/22 11:10	06/11/22 14:56	1
Diesel Range Organics (Over C10-C28)	**32.8**	**J B**	50.0	15.0	mg/Kg		06/10/22 11:10	06/11/22 14:56	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		06/10/22 11:10	06/11/22 14:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*84*		*70 - 130*	*06/10/22 11:10*	*06/11/22 14:56*	*1*
o-Terphenyl	*90*		*70 - 130*	*06/10/22 11:10*	*06/11/22 14:56*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**75.8**		4.96	0.851	mg/Kg			06/13/22 20:40	1

Client Sample ID: B-14

Lab Sample ID: 890-2387-28
Matrix: Solid
Date Collected: 06/07/22 11:15
Date Received: 06/08/22 08:17
Sample Depth: 6 - 7

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		06/09/22 13:00	06/11/22 23:25	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		06/09/22 13:00	06/11/22 23:25	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		06/09/22 13:00	06/11/22 23:25	1
m,p-Xylenes	<0.00101	U *+	0.00400	0.00101	mg/Kg		06/09/22 13:00	06/11/22 23:25	1
o-Xylene	**0.000591**	**J**	0.00200	0.000344	mg/Kg		06/09/22 13:00	06/11/22 23:25	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		06/09/22 13:00	06/11/22 23:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*06/09/22 13:00*	*06/11/22 23:25*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*06/09/22 13:00*	*06/11/22 23:25*	*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			06/10/22 10:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**45.9**	**J**	50.0	15.0	mg/Kg			06/10/22 09:46	1

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: B-14

Lab Sample ID: 890-2387-28
Matrix: Solid
Date Collected: 06/07/22 11:15
Date Received: 06/08/22 08:17
Sample Depth: 6 - 7

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	**16.7**	**J**	50.0	15.0	mg/Kg		06/10/22 11:10	06/11/22 15:18	1
Diesel Range Organics (Over C10-C28)	**29.2**	**J B**	50.0	15.0	mg/Kg		06/10/22 11:10	06/11/22 15:18	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		06/10/22 11:10	06/11/22 15:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*06/10/22 11:10*	*06/11/22 15:18*	*1*
o-Terphenyl	*81*		*70 - 130*	*06/10/22 11:10*	*06/11/22 15:18*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**66.0**		5.00	0.858	mg/Kg			06/14/22 12:29	1

Client Sample ID: B-15

Lab Sample ID: 890-2387-29
Matrix: Solid
Date Collected: 06/07/22 11:38
Date Received: 06/08/22 08:17
Sample Depth: 6 - 7

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		06/09/22 13:00	06/11/22 23:46	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		06/09/22 13:00	06/11/22 23:46	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		06/09/22 13:00	06/11/22 23:46	1
m,p-Xylenes	<0.00101	U *+	0.00399	0.00101	mg/Kg		06/09/22 13:00	06/11/22 23:46	1
o-Xylene	**0.000517**	**J**	0.00200	0.000343	mg/Kg		06/09/22 13:00	06/11/22 23:46	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		06/09/22 13:00	06/11/22 23:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*06/09/22 13:00*	*06/11/22 23:46*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*06/09/22 13:00*	*06/11/22 23:46*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00399	0.00101	mg/Kg			06/10/22 10:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**29.6**	**J**	49.9	15.0	mg/Kg			06/10/22 09:46	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		06/10/22 11:10	06/11/22 15:40	1
Diesel Range Organics (Over C10-C28)	**29.6**	**J B**	49.9	15.0	mg/Kg		06/10/22 11:10	06/11/22 15:40	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		06/10/22 11:10	06/11/22 15:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*06/10/22 11:10*	*06/11/22 15:40*	*1*
o-Terphenyl	*90*		*70 - 130*	*06/10/22 11:10*	*06/11/22 15:40*	*1*

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: B-15

Date Collected: 06/07/22 11:38
Date Received: 06/08/22 08:17
Sample Depth: 6 - 7

Lab Sample ID: 890-2387-29
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**36.5**		4.99	0.857	mg/Kg			06/13/22 21:17	1

Client Sample ID: B-16

Date Collected: 06/07/22 11:41
Date Received: 06/08/22 08:17
Sample Depth: 7

Lab Sample ID: 890-2387-30
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		06/09/22 13:00	06/12/22 00:06	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		06/09/22 13:00	06/12/22 00:06	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		06/09/22 13:00	06/12/22 00:06	1
m,p-Xylenes	<0.00100	U *+	0.00398	0.00100	mg/Kg		06/09/22 13:00	06/12/22 00:06	1
o-Xylene	**0.000585**	**J**	0.00199	0.000342	mg/Kg		06/09/22 13:00	06/12/22 00:06	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		06/09/22 13:00	06/12/22 00:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*06/09/22 13:00*	*06/12/22 00:06*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*06/09/22 13:00*	*06/12/22 00:06*	*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			06/10/22 10:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**46.7**	**J**	49.9	15.0	mg/Kg			06/10/22 09:46	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	**15.2**	**J**	49.9	15.0	mg/Kg		06/10/22 11:10	06/11/22 16:02	1
Diesel Range Organics (Over C10-C28)	**31.5**	**J B**	49.9	15.0	mg/Kg		06/10/22 11:10	06/11/22 16:02	1
OII Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		06/10/22 11:10	06/11/22 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*06/10/22 11:10*	*06/11/22 16:02*	*1*
o-Terphenyl	*80*		*70 - 130*	*06/10/22 11:10*	*06/11/22 16:02*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**32.8**		4.97	0.853	mg/Kg			06/13/22 21:26	1

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: B-17

Lab Sample ID: 890-2387-31
Matrix: Solid
Date Collected: 06/07/22 11:45
Date Received: 06/08/22 08:17
Sample Depth: 7

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		06/10/22 12:19	06/14/22 10:43	1
Toluene	**0.000787**	**J**	0.00199	0.000453	mg/Kg		06/10/22 12:19	06/14/22 10:43	1
Ethylbenzene	**0.000735**	**J**	0.00199	0.000562	mg/Kg		06/10/22 12:19	06/14/22 10:43	1
m,p-Xylenes	**0.00200**	**J**	0.00398	0.00100	mg/Kg		06/10/22 12:19	06/14/22 10:43	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		06/10/22 12:19	06/14/22 10:43	1
Xylenes, Total	**0.00200**	**J**	0.00398	0.00100	mg/Kg		06/10/22 12:19	06/14/22 10:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*137*	*S1+*	*70 - 130*	*06/10/22 12:19*	*06/14/22 10:43*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*06/10/22 12:19*	*06/14/22 10:43*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00352**	**J**	0.00398	0.00100	mg/Kg			06/10/22 10:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**29.3**	**J**	50.0	15.0	mg/Kg			06/10/22 09:46	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		06/10/22 11:10	06/11/22 16:46	1
Diesel Range Organics (Over C10-C28)	**29.3**	**J B**	50.0	15.0	mg/Kg		06/10/22 11:10	06/11/22 16:46	1
OII Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		06/10/22 11:10	06/11/22 16:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*06/10/22 11:10*	*06/11/22 16:46*	*1*
o-Terphenyl	*78*		*70 - 130*	*06/10/22 11:10*	*06/11/22 16:46*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**34.8**		5.00	0.858	mg/Kg			06/13/22 21:35	1

Client Sample ID: B-18

Lab Sample ID: 890-2387-32
Matrix: Solid
Date Collected: 06/07/22 11:50
Date Received: 06/08/22 08:17
Sample Depth: 7.5

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		06/13/22 07:45	06/14/22 05:28	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		06/13/22 07:45	06/14/22 05:28	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		06/13/22 07:45	06/14/22 05:28	1
m,p-Xylenes	<0.00101	U	0.00400	0.00101	mg/Kg		06/13/22 07:45	06/14/22 05:28	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		06/13/22 07:45	06/14/22 05:28	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		06/13/22 07:45	06/14/22 05:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*06/13/22 07:45*	*06/14/22 05:28*	*1*

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: B-18

Date Collected: 06/07/22 11:50
Date Received: 06/08/22 08:17
Sample Depth: 7.5

Lab Sample ID: 890-2387-32

Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*06/13/22 07:45*	*06/14/22 05:28*	*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			06/10/22 10:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**44.4**	**J**	49.9	15.0	mg/Kg			06/10/22 09:46	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	**20.8**	**J**	49.9	15.0	mg/Kg		06/10/22 11:10	06/11/22 17:09	1
Diesel Range Organics (Over C10-C28)	**23.6**	**J B**	49.9	15.0	mg/Kg		06/10/22 11:10	06/11/22 17:09	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		06/10/22 11:10	06/11/22 17:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*06/10/22 11:10*	*06/11/22 17:09*	*1*
o-Terphenyl	*88*		*70 - 130*	*06/10/22 11:10*	*06/11/22 17:09*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**18.2**		4.98	0.855	mg/Kg			06/14/22 12:38	1

Client Sample ID: B-19

Date Collected: 06/07/22 11:54
Date Received: 06/08/22 08:17
Sample Depth: 7.5

Lab Sample ID: 890-2387-33

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		06/13/22 07:45	06/14/22 05:48	1
Toluene	<0.000459	U	0.00201	0.000459	mg/Kg		06/13/22 07:45	06/14/22 05:48	1
Ethylbenzene	<0.000568	U	0.00201	0.000568	mg/Kg		06/13/22 07:45	06/14/22 05:48	1
m,p-Xylenes	<0.00102	U	0.00402	0.00102	mg/Kg		06/13/22 07:45	06/14/22 05:48	1
o-Xylene	<0.000346	U	0.00201	0.000346	mg/Kg		06/13/22 07:45	06/14/22 05:48	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg		06/13/22 07:45	06/14/22 05:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*06/13/22 07:45*	*06/14/22 05:48*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*06/13/22 07:45*	*06/14/22 05:48*	*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			06/10/22 10:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**39.2**	**J**	50.0	15.0	mg/Kg			06/10/22 09:46	1

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: B-19

Lab Sample ID: 890-2387-33
Matrix: Solid

Date Collected: 06/07/22 11:54
Date Received: 06/08/22 08:17
Sample Depth: 7.5

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		06/10/22 11:10	06/11/22 17:31	1
Diesel Range Organics (Over C10-C28)	**39.2**	**J B**	50.0	15.0	mg/Kg		06/10/22 11:10	06/11/22 17:31	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		06/10/22 11:10	06/11/22 17:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*06/10/22 11:10*	*06/11/22 17:31*	*1*
o-Terphenyl	*87*		*70 - 130*	*06/10/22 11:10*	*06/11/22 17:31*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**30.1**		5.00	0.858	mg/Kg			06/13/22 22:12	1

Client Sample ID: B-20

Lab Sample ID: 890-2387-34
Matrix: Solid

Date Collected: 06/07/22 11:57
Date Received: 06/08/22 08:17
Sample Depth: 6

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		06/13/22 07:45	06/14/22 06:09	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg		06/13/22 07:45	06/14/22 06:09	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		06/13/22 07:45	06/14/22 06:09	1
m,p-Xylenes	<0.00101	U	0.00401	0.00101	mg/Kg		06/13/22 07:45	06/14/22 06:09	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg		06/13/22 07:45	06/14/22 06:09	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		06/13/22 07:45	06/14/22 06:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*06/13/22 07:45*	*06/14/22 06:09*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*06/13/22 07:45*	*06/14/22 06:09*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00401	0.00101	mg/Kg			06/10/22 10:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**28.5**	**J**	50.0	15.0	mg/Kg			06/10/22 09:46	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		06/10/22 11:10	06/11/22 17:53	1
Diesel Range Organics (Over C10-C28)	**28.5**	**J B**	50.0	15.0	mg/Kg		06/10/22 11:10	06/11/22 17:53	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		06/10/22 11:10	06/11/22 17:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*06/10/22 11:10*	*06/11/22 17:53*	*1*
o-Terphenyl	*86*		*70 - 130*	*06/10/22 11:10*	*06/11/22 17:53*	*1*

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: B-20

Date Collected: 06/07/22 11:57
Date Received: 06/08/22 08:17
Sample Depth: 6

Lab Sample ID: 890-2387-34
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**32.9**		5.00	0.858	mg/Kg			06/13/22 22:21	1

Client Sample ID: B-21

Date Collected: 06/07/22 12:00
Date Received: 06/08/22 08:17
Sample Depth: 6

Lab Sample ID: 890-2387-35
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		06/13/22 07:45	06/14/22 06:29	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		06/13/22 07:45	06/14/22 06:29	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		06/13/22 07:45	06/14/22 06:29	1
m,p-Xylenes	<0.00100	U	0.00398	0.00100	mg/Kg		06/13/22 07:45	06/14/22 06:29	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		06/13/22 07:45	06/14/22 06:29	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		06/13/22 07:45	06/14/22 06:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*06/13/22 07:45*	*06/14/22 06:29*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*06/13/22 07:45*	*06/14/22 06:29*	*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			06/10/22 10:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**26.6**	**J**	49.9	15.0	mg/Kg			06/10/22 09:46	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		06/10/22 11:10	06/11/22 18:14	1
Diesel Range Organics (Over C10-C28)	**26.6**	**J B**	49.9	15.0	mg/Kg		06/10/22 11:10	06/11/22 18:14	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		06/10/22 11:10	06/11/22 18:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*06/10/22 11:10*	*06/11/22 18:14*	*1*
o-Terphenyl	*83*		*70 - 130*	*06/10/22 11:10*	*06/11/22 18:14*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**38.2**		4.95	0.850	mg/Kg			06/13/22 22:30	1

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: B-22

Date Collected: 06/07/22 12:04
Date Received: 06/08/22 08:17
Sample Depth: 7

Lab Sample ID: 890-2387-36

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		06/13/22 07:45	06/14/22 06:50	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		06/13/22 07:45	06/14/22 06:50	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		06/13/22 07:45	06/14/22 06:50	1
m,p-Xylenes	<0.00101	U	0.00399	0.00101	mg/Kg		06/13/22 07:45	06/14/22 06:50	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		06/13/22 07:45	06/14/22 06:50	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		06/13/22 07:45	06/14/22 06:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*06/13/22 07:45*	*06/14/22 06:50*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*06/13/22 07:45*	*06/14/22 06:50*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00399	0.00101	mg/Kg			06/10/22 10:44	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			06/10/22 09:46	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		06/10/22 11:10	06/11/22 18:36	1
Diesel Range Organics (Over C10-C28)	**22.7**	**J B**	50.0	15.0	mg/Kg		06/10/22 11:10	06/11/22 18:36	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		06/10/22 11:10	06/11/22 18:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*06/10/22 11:10*	*06/11/22 18:36*	*1*
o-Terphenyl	*85*		*70 - 130*	*06/10/22 11:10*	*06/11/22 18:36*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**17.5**		5.01	0.860	mg/Kg			06/13/22 22:40	1

Client Sample ID: B-23

Date Collected: 06/07/22 12:05
Date Received: 06/08/22 08:17
Sample Depth: 7 - 7.5

Lab Sample ID: 890-2387-37

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		06/13/22 07:45	06/14/22 07:10	1
Toluene	<0.000461	U	0.00202	0.000461	mg/Kg		06/13/22 07:45	06/14/22 07:10	1
Ethylbenzene	<0.000571	U	0.00202	0.000571	mg/Kg		06/13/22 07:45	06/14/22 07:10	1
m,p-Xylenes	<0.00102	U	0.00404	0.00102	mg/Kg		06/13/22 07:45	06/14/22 07:10	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg		06/13/22 07:45	06/14/22 07:10	1
Xylenes, Total	<0.00102	U	0.00404	0.00102	mg/Kg		06/13/22 07:45	06/14/22 07:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*06/13/22 07:45*	*06/14/22 07:10*	*1*

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: B-23

Date Collected: 06/07/22 12:05
Date Received: 06/08/22 08:17
Sample Depth: 7 - 7.5

Lab Sample ID: 890-2387-37

Matrix: Solid

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*06/13/22 07:45*	*06/14/22 07:10*	*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			06/10/22 10:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**28.3**	**J**	49.9	15.0	mg/Kg			06/10/22 09:46	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		06/10/22 11:10	06/11/22 18:58	1
Diesel Range Organics (Over C10-C28)	**28.3**	**J B**	49.9	15.0	mg/Kg		06/10/22 11:10	06/11/22 18:58	1
OII Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		06/10/22 11:10	06/11/22 18:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*78*		*70 - 130*	*06/10/22 11:10*	*06/11/22 18:58*	*1*
o-Terphenyl	*82*		*70 - 130*	*06/10/22 11:10*	*06/11/22 18:58*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**39.9**		4.99	0.857	mg/Kg			06/13/22 22:49	1

Client Sample ID: B-24

Date Collected: 06/07/22 12:10
Date Received: 06/08/22 08:17
Sample Depth: 7

Lab Sample ID: 890-2387-38

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		06/13/22 07:45	06/14/22 07:31	1
Toluene	<0.000458	U	0.00201	0.000458	mg/Kg		06/13/22 07:45	06/14/22 07:31	1
Ethylbenzene	<0.000567	U	0.00201	0.000567	mg/Kg		06/13/22 07:45	06/14/22 07:31	1
m,p-Xylenes	<0.00101	U	0.00402	0.00101	mg/Kg		06/13/22 07:45	06/14/22 07:31	1
o-Xylene	<0.000345	U	0.00201	0.000345	mg/Kg		06/13/22 07:45	06/14/22 07:31	1
Xylenes, Total	<0.00101	U	0.00402	0.00101	mg/Kg		06/13/22 07:45	06/14/22 07:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*06/13/22 07:45*	*06/14/22 07:31*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*06/13/22 07:45*	*06/14/22 07:31*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00402	0.00101	mg/Kg			06/10/22 10:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**24.4**	**J**	50.0	15.0	mg/Kg			06/10/22 09:46	1

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: B-24

Lab Sample ID: 890-2387-38
Matrix: Solid

Date Collected: 06/07/22 12:10
Date Received: 06/08/22 08:17
Sample Depth: 7

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		06/10/22 11:10	06/11/22 19:20	1
Diesel Range Organics (Over C10-C28)	**24.4**	**J B**	50.0	15.0	mg/Kg		06/10/22 11:10	06/11/22 19:20	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		06/10/22 11:10	06/11/22 19:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*06/10/22 11:10*	*06/11/22 19:20*	*1*
o-Terphenyl	*85*		*70 - 130*	*06/10/22 11:10*	*06/11/22 19:20*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**28.7**		4.96	0.851	mg/Kg			06/13/22 23:16	1

Client Sample ID: B-25

Lab Sample ID: 890-2387-39
Matrix: Solid

Date Collected: 06/07/22 12:15
Date Received: 06/08/22 08:17
Sample Depth: 6 - 7

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		06/13/22 07:45	06/14/22 07:51	1
Toluene	<0.000451	U	0.00198	0.000451	mg/Kg		06/13/22 07:45	06/14/22 07:51	1
Ethylbenzene	<0.000559	U	0.00198	0.000559	mg/Kg		06/13/22 07:45	06/14/22 07:51	1
m,p-Xylenes	<0.00100	U	0.00396	0.00100	mg/Kg		06/13/22 07:45	06/14/22 07:51	1
o-Xylene	<0.000341	U	0.00198	0.000341	mg/Kg		06/13/22 07:45	06/14/22 07:51	1
Xylenes, Total	<0.00100	U	0.00396	0.00100	mg/Kg		06/13/22 07:45	06/14/22 07:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*06/13/22 07:45*	*06/14/22 07:51*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*06/13/22 07:45*	*06/14/22 07:51*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00396	0.00100	mg/Kg			06/10/22 10:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**30.3**	**J**	49.9	15.0	mg/Kg			06/10/22 09:46	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		06/10/22 11:10	06/11/22 19:42	1
Diesel Range Organics (Over C10-C28)	**30.3**	**J B**	49.9	15.0	mg/Kg		06/10/22 11:10	06/11/22 19:42	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		06/10/22 11:10	06/11/22 19:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*06/10/22 11:10*	*06/11/22 19:42*	*1*
o-Terphenyl	*86*		*70 - 130*	*06/10/22 11:10*	*06/11/22 19:42*	*1*

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: B-25

Lab Sample ID: 890-2387-39
Matrix: Solid
Date Collected: 06/07/22 12:15
Date Received: 06/08/22 08:17
Sample Depth: 6 - 7

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**52.2**		5.05	0.867	mg/Kg			06/13/22 23:26	1

Client Sample ID: B-26

Lab Sample ID: 890-2387-40
Matrix: Solid
Date Collected: 06/07/22 12:20
Date Received: 06/08/22 08:17
Sample Depth: 6 - 7

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		06/13/22 07:45	06/14/22 08:12	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		06/13/22 07:45	06/14/22 08:12	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		06/13/22 07:45	06/14/22 08:12	1
m,p-Xylenes	<0.00101	U	0.00398	0.00101	mg/Kg		06/13/22 07:45	06/14/22 08:12	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg		06/13/22 07:45	06/14/22 08:12	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		06/13/22 07:45	06/14/22 08:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*06/13/22 07:45*	*06/14/22 08:12*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*06/13/22 07:45*	*06/14/22 08:12*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00398	0.00101	mg/Kg			06/10/22 10:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**44.7**	**J**	50.0	15.0	mg/Kg			06/10/22 09:46	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		06/10/22 11:10	06/11/22 20:04	1
Diesel Range Organics (Over C10-C28)	**44.7**	**J B**	50.0	15.0	mg/Kg		06/10/22 11:10	06/11/22 20:04	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		06/10/22 11:10	06/11/22 20:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*06/10/22 11:10*	*06/11/22 20:04*	*1*
o-Terphenyl	*89*		*70 - 130*	*06/10/22 11:10*	*06/11/22 20:04*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**47.9**		4.99	0.857	mg/Kg			06/13/22 23:53	1

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: B-27

Lab Sample ID: 890-2387-41
Matrix: Solid
Date Collected: 06/07/22 12:24
Date Received: 06/08/22 08:17
Sample Depth: 7

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		06/09/22 13:35	06/12/22 10:42	1
Toluene	<0.000453	U F1	0.00199	0.000453	mg/Kg		06/09/22 13:35	06/12/22 10:42	1
Ethylbenzene	<0.000562	U *- F1 *1	0.00199	0.000562	mg/Kg		06/09/22 13:35	06/12/22 10:42	1
m,p-Xylenes	<0.00100	U F1	0.00398	0.00100	mg/Kg		06/09/22 13:35	06/12/22 10:42	1
o-Xylene	<0.000342	U F1	0.00199	0.000342	mg/Kg		06/09/22 13:35	06/12/22 10:42	1
Xylenes, Total	<0.00100	U F1	0.00398	0.00100	mg/Kg		06/09/22 13:35	06/12/22 10:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*06/09/22 13:35*	*06/12/22 10:42*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*06/09/22 13:35*	*06/12/22 10:42*	*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			06/10/22 10:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**69.2**		49.9	15.0	mg/Kg			06/10/22 09:46	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	**33.2**	**J**	49.9	15.0	mg/Kg		06/09/22 15:09	06/12/22 13:42	1
Diesel Range Organics (Over C10-C28)	**15.4**	**J**	49.9	15.0	mg/Kg		06/09/22 15:09	06/12/22 13:42	1
Oil Range Organics (Over C28-C36)	**20.6**	**J B**	49.9	15.0	mg/Kg		06/09/22 15:09	06/12/22 13:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*128*		*70 - 130*	*06/09/22 15:09*	*06/12/22 13:42*	*1*
o-Terphenyl	*136*	*S1+*	*70 - 130*	*06/09/22 15:09*	*06/12/22 13:42*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**77.0**		5.00	0.858	mg/Kg			06/14/22 12:48	1

Client Sample ID: B-28

Lab Sample ID: 890-2387-42
Matrix: Solid
Date Collected: 06/07/22 12:30
Date Received: 06/08/22 08:17
Sample Depth: 7

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		06/09/22 13:35	06/12/22 11:09	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		06/09/22 13:35	06/12/22 11:09	1
Ethylbenzene	<0.000564	U *- *1	0.00200	0.000564	mg/Kg		06/09/22 13:35	06/12/22 11:09	1
m,p-Xylenes	<0.00101	U	0.00399	0.00101	mg/Kg		06/09/22 13:35	06/12/22 11:09	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		06/09/22 13:35	06/12/22 11:09	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		06/09/22 13:35	06/12/22 11:09	1

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: B-28

Date Collected: 06/07/22 12:30
Date Received: 06/08/22 08:17
Sample Depth: 7

Lab Sample ID: 890-2387-42

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*06/09/22 13:35*	*06/12/22 11:09*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*06/09/22 13:35*	*06/12/22 11:09*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00399	0.00101	mg/Kg			06/10/22 10:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**46.6**	**J**	50.0	15.0	mg/Kg			06/10/22 09:46	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	**29.9**	**J**	50.0	15.0	mg/Kg		06/09/22 15:09	06/12/22 14:47	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		06/09/22 15:09	06/12/22 14:47	1
Oil Range Organics (Over C28-C36)	**16.7**	**J B**	50.0	15.0	mg/Kg		06/09/22 15:09	06/12/22 14:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*117*		*70 - 130*	*06/09/22 15:09*	*06/12/22 14:47*	*1*
o-Terphenyl	*124*		*70 - 130*	*06/09/22 15:09*	*06/12/22 14:47*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**66.1**		4.95	0.850	mg/Kg			06/14/22 12:57	1

Client Sample ID: B-29

Date Collected: 06/07/22 13:20
Date Received: 06/08/22 08:17
Sample Depth: 7.5

Lab Sample ID: 890-2387-43

Matrix: Solid

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		06/09/22 13:35	06/12/22 11:35	1
Toluene	<0.000451	U	0.00198	0.000451	mg/Kg		06/09/22 13:35	06/12/22 11:35	1
Ethylbenzene	<0.000559	U *- *1	0.00198	0.000559	mg/Kg		06/09/22 13:35	06/12/22 11:35	1
m,p-Xylenes	<0.00100	U	0.00396	0.00100	mg/Kg		06/09/22 13:35	06/12/22 11:35	1
o-Xylene	<0.000341	U	0.00198	0.000341	mg/Kg		06/09/22 13:35	06/12/22 11:35	1
Xylenes, Total	<0.00100	U	0.00396	0.00100	mg/Kg		06/09/22 13:35	06/12/22 11:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*	*06/09/22 13:35*	*06/12/22 11:35*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*06/09/22 13:35*	*06/12/22 11:35*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00396	0.00100	mg/Kg			06/10/22 10:44	1

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: B-29

Date Collected: 06/07/22 13:20
Date Received: 06/08/22 08:17
Sample Depth: 7.5

Lab Sample ID: 890-2387-43

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	15.5	J	50.0	15.0	mg/Kg			06/10/22 09:46	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	15.5	J	50.0	15.0	mg/Kg		06/09/22 15:09	06/12/22 15:09	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		06/09/22 15:09	06/12/22 15:09	1
OII Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		06/09/22 15:09	06/12/22 15:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*06/09/22 15:09*	*06/12/22 15:09*	*1*
o-Terphenyl	*91*		*70 - 130*	*06/09/22 15:09*	*06/12/22 15:09*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.9		4.97	0.853	mg/Kg			06/14/22 13:06	1

Client Sample ID: B-30

Date Collected: 06/07/22 13:24
Date Received: 06/08/22 08:17
Sample Depth: 7.5

Lab Sample ID: 890-2387-44

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		06/09/22 13:35	06/12/22 12:01	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		06/09/22 13:35	06/12/22 12:01	1
Ethylbenzene	<0.000565	U *- *1	0.00200	0.000565	mg/Kg		06/09/22 13:35	06/12/22 12:01	1
m,p-Xylenes	<0.00101	U	0.00400	0.00101	mg/Kg		06/09/22 13:35	06/12/22 12:01	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		06/09/22 13:35	06/12/22 12:01	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		06/09/22 13:35	06/12/22 12:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*06/09/22 13:35*	*06/12/22 12:01*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*06/09/22 13:35*	*06/12/22 12:01*	*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			06/10/22 10:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	15.6	J	49.9	15.0	mg/Kg			06/10/22 09:46	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	15.6	J	49.9	15.0	mg/Kg		06/09/22 15:09	06/12/22 15:31	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		06/09/22 15:09	06/12/22 15:31	1
OII Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		06/09/22 15:09	06/12/22 15:31	1

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: B-30

Lab Sample ID: 890-2387-44
Matrix: Solid
Date Collected: 06/07/22 13:24
Date Received: 06/08/22 08:17
Sample Depth: 7.5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*06/09/22 15:09*	*06/12/22 15:31*	*1*
o-Terphenyl	*109*		*70 - 130*	*06/09/22 15:09*	*06/12/22 15:31*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**34.5**		5.04	0.865	mg/Kg			06/14/22 00:30	1

Client Sample ID: B-31

Lab Sample ID: 890-2387-45
Matrix: Solid
Date Collected: 06/07/22 13:29
Date Received: 06/08/22 08:17
Sample Depth: 7.5

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		06/09/22 13:35	06/12/22 12:28	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg		06/09/22 13:35	06/12/22 12:28	1
Ethylbenzene	<0.000566	U *- *1	0.00200	0.000566	mg/Kg		06/09/22 13:35	06/12/22 12:28	1
m,p-Xylenes	<0.00101	U	0.00401	0.00101	mg/Kg		06/09/22 13:35	06/12/22 12:28	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg		06/09/22 13:35	06/12/22 12:28	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		06/09/22 13:35	06/12/22 12:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*06/09/22 13:35*	*06/12/22 12:28*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*06/09/22 13:35*	*06/12/22 12:28*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00401	0.00101	mg/Kg			06/10/22 10:44	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			06/10/22 09:46	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	**18.1**	**J**	50.0	15.0	mg/Kg		06/09/22 15:09	06/12/22 15:52	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		06/09/22 15:09	06/12/22 15:52	1
OII Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		06/09/22 15:09	06/12/22 15:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*06/09/22 15:09*	*06/12/22 15:52*	*1*
o-Terphenyl	*103*		*70 - 130*	*06/09/22 15:09*	*06/12/22 15:52*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**30.4**		4.99	0.857	mg/Kg			06/14/22 00:39	1

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: B-32

Lab Sample ID: 890-2387-46
Matrix: Solid
Date Collected: 06/07/22 13:37
Date Received: 06/08/22 08:17
Sample Depth: 6 - 7

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		06/09/22 13:35	06/12/22 12:54	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		06/09/22 13:35	06/12/22 12:54	1
Ethylbenzene	<0.000565	U *- *1	0.00200	0.000565	mg/Kg		06/09/22 13:35	06/12/22 12:54	1
m,p-Xylenes	<0.00101	U	0.00400	0.00101	mg/Kg		06/09/22 13:35	06/12/22 12:54	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		06/09/22 13:35	06/12/22 12:54	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		06/09/22 13:35	06/12/22 12:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*06/09/22 13:35*	*06/12/22 12:54*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*06/09/22 13:35*	*06/12/22 12:54*	*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			06/10/22 10:44	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			06/10/22 09:46	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		06/09/22 15:09	06/12/22 16:14	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		06/09/22 15:09	06/12/22 16:14	1
Oil Range Organics (Over C28-C36)	**18.5**	**J B**	49.9	15.0	mg/Kg		06/09/22 15:09	06/12/22 16:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*06/09/22 15:09*	*06/12/22 16:14*	*1*
o-Terphenyl	*104*		*70 - 130*	*06/09/22 15:09*	*06/12/22 16:14*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**38.9**		4.98	0.855	mg/Kg			06/14/22 13:15	1

Client Sample ID: B-33

Lab Sample ID: 890-2387-47
Matrix: Solid
Date Collected: 06/07/22 13:41
Date Received: 06/08/22 08:17
Sample Depth: 7

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		06/09/22 13:35	06/12/22 13:20	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		06/09/22 13:35	06/12/22 13:20	1
Ethylbenzene	<0.000563	U *- *1	0.00199	0.000563	mg/Kg		06/09/22 13:35	06/12/22 13:20	1
m,p-Xylenes	<0.00101	U	0.00398	0.00101	mg/Kg		06/09/22 13:35	06/12/22 13:20	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg		06/09/22 13:35	06/12/22 13:20	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		06/09/22 13:35	06/12/22 13:20	1

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: B-33

Date Collected: 06/07/22 13:41
Date Received: 06/08/22 08:17
Sample Depth: 7

Lab Sample ID: 890-2387-47

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*06/09/22 13:35*	*06/12/22 13:20*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*06/09/22 13:35*	*06/12/22 13:20*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00398	0.00101	mg/Kg			06/10/22 10:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**32.9**	**J**	49.9	15.0	mg/Kg			06/10/22 09:46	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	**32.9**	**J**	49.9	15.0	mg/Kg		06/09/22 15:09	06/12/22 16:35	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		06/09/22 15:09	06/12/22 16:35	1
OII Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		06/09/22 15:09	06/12/22 16:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*06/09/22 15:09*	*06/12/22 16:35*	*1*
o-Terphenyl	*114*		*70 - 130*	*06/09/22 15:09*	*06/12/22 16:35*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**90.1**		25.1	4.30	mg/Kg			06/14/22 07:34	5

Client Sample ID: B-34

Date Collected: 06/07/22 13:45
Date Received: 06/08/22 08:17
Sample Depth: 7

Lab Sample ID: 890-2387-48

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		06/09/22 13:35	06/12/22 13:46	1
Toluene	<0.000459	U	0.00201	0.000459	mg/Kg		06/09/22 13:35	06/12/22 13:46	1
Ethylbenzene	<0.000568	U *- *1	0.00201	0.000568	mg/Kg		06/09/22 13:35	06/12/22 13:46	1
m,p-Xylenes	<0.00102	U	0.00402	0.00102	mg/Kg		06/09/22 13:35	06/12/22 13:46	1
o-Xylene	<0.000346	U	0.00201	0.000346	mg/Kg		06/09/22 13:35	06/12/22 13:46	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg		06/09/22 13:35	06/12/22 13:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*06/09/22 13:35*	*06/12/22 13:46*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*06/09/22 13:35*	*06/12/22 13:46*	*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			06/10/22 10:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**15.7**	**J**	49.9	15.0	mg/Kg			06/10/22 09:46	1

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Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: B-34

Lab Sample ID: 890-2387-48
Matrix: Solid

Date Collected: 06/07/22 13:45
Date Received: 06/08/22 08:17
Sample Depth: 7

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	15.7	J	49.9	15.0	mg/Kg		06/09/22 15:09	06/12/22 16:57	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		06/09/22 15:09	06/12/22 16:57	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		06/09/22 15:09	06/12/22 16:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*06/09/22 15:09*	*06/12/22 16:57*	*1*
o-Terphenyl	*108*		*70 - 130*	*06/09/22 15:09*	*06/12/22 16:57*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40.5		5.00	0.858	mg/Kg			06/14/22 08:02	1

Client Sample ID: B-35

Lab Sample ID: 890-2387-49
Matrix: Solid

Date Collected: 06/07/22 13:48
Date Received: 06/08/22 08:17
Sample Depth: 7.5

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		06/09/22 13:35	06/12/22 14:13	1
Toluene	<0.000460	U	0.00202	0.000460	mg/Kg		06/09/22 13:35	06/12/22 14:13	1
Ethylbenzene	<0.000570	U *- *1	0.00202	0.000570	mg/Kg		06/09/22 13:35	06/12/22 14:13	1
m,p-Xylenes	<0.00102	U	0.00403	0.00102	mg/Kg		06/09/22 13:35	06/12/22 14:13	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg		06/09/22 13:35	06/12/22 14:13	1
Xylenes, Total	<0.00102	U	0.00403	0.00102	mg/Kg		06/09/22 13:35	06/12/22 14:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*06/09/22 13:35*	*06/12/22 14:13*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*06/09/22 13:35*	*06/12/22 14:13*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00403	0.00102	mg/Kg			06/10/22 10:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	16.1	J	50.0	15.0	mg/Kg			06/10/22 09:46	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	16.1	J	50.0	15.0	mg/Kg		06/09/22 15:09	06/12/22 17:19	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		06/09/22 15:09	06/12/22 17:19	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		06/09/22 15:09	06/12/22 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*06/09/22 15:09*	*06/12/22 17:19*	*1*
o-Terphenyl	*109*		*70 - 130*	*06/09/22 15:09*	*06/12/22 17:19*	*1*

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: B-35

Lab Sample ID: 890-2387-49
Matrix: Solid
Date Collected: 06/07/22 13:48
Date Received: 06/08/22 08:17
Sample Depth: 7.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**18.9**		4.95	0.850	mg/Kg			06/14/22 08:11	1

Client Sample ID: B-36

Lab Sample ID: 890-2387-50
Matrix: Solid
Date Collected: 06/07/22 13:52
Date Received: 06/08/22 08:17
Sample Depth: 7.5

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		06/09/22 13:35	06/12/22 14:39	1
Toluene	<0.000452	U	0.00198	0.000452	mg/Kg		06/09/22 13:35	06/12/22 14:39	1
Ethylbenzene	<0.000561	U *- *1	0.00198	0.000561	mg/Kg		06/09/22 13:35	06/12/22 14:39	1
m,p-Xylenes	<0.00100	U	0.00397	0.00100	mg/Kg		06/09/22 13:35	06/12/22 14:39	1
o-Xylene	<0.000341	U	0.00198	0.000341	mg/Kg		06/09/22 13:35	06/12/22 14:39	1
Xylenes, Total	<0.00100	U	0.00397	0.00100	mg/Kg		06/09/22 13:35	06/12/22 14:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*06/09/22 13:35*	*06/12/22 14:39*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*06/09/22 13:35*	*06/12/22 14:39*	*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			06/10/22 10:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**16.4**	**J**	50.0	15.0	mg/Kg			06/10/22 09:46	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	**16.4**	**J**	50.0	15.0	mg/Kg		06/09/22 15:09	06/12/22 17:40	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		06/09/22 15:09	06/12/22 17:40	1
OII Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		06/09/22 15:09	06/12/22 17:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*06/09/22 15:09*	*06/12/22 17:40*	*1*
o-Terphenyl	*106*		*70 - 130*	*06/09/22 15:09*	*06/12/22 17:40*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**29.7**		5.00	0.858	mg/Kg			06/14/22 08:20	1

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: R-1

Lab Sample ID: 890-2387-51
Matrix: Solid

Date Collected: 06/07/22 14:00
Date Received: 06/08/22 08:17
Sample Depth: 0 - 8

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		06/09/22 13:35	06/12/22 16:26	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		06/09/22 13:35	06/12/22 16:26	1
Ethylbenzene	<0.000562	U *- *1	0.00199	0.000562	mg/Kg		06/09/22 13:35	06/12/22 16:26	1
m,p-Xylenes	<0.00100	U	0.00398	0.00100	mg/Kg		06/09/22 13:35	06/12/22 16:26	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		06/09/22 13:35	06/12/22 16:26	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		06/09/22 13:35	06/12/22 16:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*06/09/22 13:35*	*06/12/22 16:26*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*06/09/22 13:35*	*06/12/22 16:26*	*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			06/10/22 10:44	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			06/10/22 09:46	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	**18.5**	**J**	49.9	15.0	mg/Kg		06/09/22 15:09	06/12/22 18:24	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		06/09/22 15:09	06/12/22 18:24	1
OII Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		06/09/22 15:09	06/12/22 18:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*06/09/22 15:09*	*06/12/22 18:24*	*1*
o-Terphenyl	*109*		*70 - 130*	*06/09/22 15:09*	*06/12/22 18:24*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**120**		25.0	4.28	mg/Kg			06/14/22 08:29	5

Client Sample ID: R-2

Lab Sample ID: 890-2387-52
Matrix: Solid

Date Collected: 06/07/22 14:05
Date Received: 06/08/22 08:17
Sample Depth: 0 - 8

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		06/09/22 13:35	06/12/22 16:52	1
Toluene	<0.000461	U	0.00202	0.000461	mg/Kg		06/09/22 13:35	06/12/22 16:52	1
Ethylbenzene	<0.000571	U *- *1	0.00202	0.000571	mg/Kg		06/09/22 13:35	06/12/22 16:52	1
m,p-Xylenes	<0.00102	U	0.00404	0.00102	mg/Kg		06/09/22 13:35	06/12/22 16:52	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg		06/09/22 13:35	06/12/22 16:52	1
Xylenes, Total	<0.00102	U	0.00404	0.00102	mg/Kg		06/09/22 13:35	06/12/22 16:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*	*06/09/22 13:35*	*06/12/22 16:52*	*1*

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: R-2

Lab Sample ID: 890-2387-52
Matrix: Solid

Date Collected: 06/07/22 14:05
Date Received: 06/08/22 08:17
Sample Depth: 0 - 8

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*06/09/22 13:35*	*06/12/22 16:52*	*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			06/10/22 10:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**33.1**	**J**	49.8	14.9	mg/Kg			06/10/22 09:46	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	**17.4**	**J**	49.8	14.9	mg/Kg		06/09/22 15:09	06/12/22 18:46	1
Diesel Range Organics (Over C10-C28)	<14.9	U	49.8	14.9	mg/Kg		06/09/22 15:09	06/12/22 18:46	1
Oil Range Organics (Over C28-C36)	**15.7**	**J B**	49.8	14.9	mg/Kg		06/09/22 15:09	06/12/22 18:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*102*		*70 - 130*	*06/09/22 15:09*	*06/12/22 18:46*	*1*
o-Terphenyl	*100*		*70 - 130*	*06/09/22 15:09*	*06/12/22 18:46*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**68.1**		4.95	0.850	mg/Kg			06/14/22 08:57	1

Client Sample ID: B-37

Lab Sample ID: 890-2387-53
Matrix: Solid

Date Collected: 06/07/22 14:13
Date Received: 06/08/22 08:17
Sample Depth: 8 - 9

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		06/09/22 13:35	06/12/22 17:18	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg		06/09/22 13:35	06/12/22 17:18	1
Ethylbenzene	<0.000566	U *- *1	0.00200	0.000566	mg/Kg		06/09/22 13:35	06/12/22 17:18	1
m,p-Xylenes	<0.00101	U	0.00401	0.00101	mg/Kg		06/09/22 13:35	06/12/22 17:18	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg		06/09/22 13:35	06/12/22 17:18	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		06/09/22 13:35	06/12/22 17:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*06/09/22 13:35*	*06/12/22 17:18*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*06/09/22 13:35*	*06/12/22 17:18*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00401	0.00101	mg/Kg			06/10/22 10:44	1

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: B-37

Date Collected: 06/07/22 14:13
Date Received: 06/08/22 08:17
Sample Depth: 8 - 9

Lab Sample ID: 890-2387-53

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	33.0	J	50.0	15.0	mg/Kg			06/10/22 09:46	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	33.0	J	50.0	15.0	mg/Kg		06/09/22 15:09	06/12/22 19:08	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		06/09/22 15:09	06/12/22 19:08	1
OII Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		06/09/22 15:09	06/12/22 19:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*06/09/22 15:09*	*06/12/22 19:08*	*1*
o-Terphenyl	*115*		*70 - 130*	*06/09/22 15:09*	*06/12/22 19:08*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.0		4.97	0.853	mg/Kg			06/14/22 09:06	1

Client Sample ID: B-38

Date Collected: 06/07/22 14:16
Date Received: 06/08/22 08:17
Sample Depth: 8 - 9

Lab Sample ID: 890-2387-54

Matrix: Solid

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		06/09/22 13:35	06/12/22 17:44	1
Toluene	<0.000451	U	0.00198	0.000451	mg/Kg		06/09/22 13:35	06/12/22 17:44	1
Ethylbenzene	<0.000559	U *- *1	0.00198	0.000559	mg/Kg		06/09/22 13:35	06/12/22 17:44	1
m,p-Xylenes	<0.00100	U	0.00396	0.00100	mg/Kg		06/09/22 13:35	06/12/22 17:44	1
o-Xylene	<0.000341	U	0.00198	0.000341	mg/Kg		06/09/22 13:35	06/12/22 17:44	1
Xylenes, Total	<0.00100	U	0.00396	0.00100	mg/Kg		06/09/22 13:35	06/12/22 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*06/09/22 13:35*	*06/12/22 17:44*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*06/09/22 13:35*	*06/12/22 17:44*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00396	0.00100	mg/Kg			06/10/22 10:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	17.3	J	50.0	15.0	mg/Kg			06/10/22 09:46	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		06/09/22 15:09	06/12/22 19:30	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		06/09/22 15:09	06/12/22 19:30	1
OII Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		06/09/22 15:09	06/12/22 19:30	1

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: B-38

Lab Sample ID: 890-2387-54
Matrix: Solid
Date Collected: 06/07/22 14:16
Date Received: 06/08/22 08:17
Sample Depth: 8 - 9

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*06/09/22 15:09*	*06/12/22 19:30*	*1*
o-Terphenyl	*117*		*70 - 130*	*06/09/22 15:09*	*06/12/22 19:30*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**28.6**		4.96	0.851	mg/Kg			06/14/22 09:15	1

Client Sample ID: B-39

Lab Sample ID: 890-2387-55
Matrix: Solid
Date Collected: 06/07/22 14:18
Date Received: 06/08/22 08:17
Sample Depth: 8 - 9

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		06/09/22 13:35	06/12/22 18:11	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		06/09/22 13:35	06/12/22 18:11	1
Ethylbenzene	<0.000565	U *- *1	0.00200	0.000565	mg/Kg		06/09/22 13:35	06/12/22 18:11	1
m,p-Xylenes	<0.00101	U	0.00400	0.00101	mg/Kg		06/09/22 13:35	06/12/22 18:11	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		06/09/22 13:35	06/12/22 18:11	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		06/09/22 13:35	06/12/22 18:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*06/09/22 13:35*	*06/12/22 18:11*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*06/09/22 13:35*	*06/12/22 18:11*	*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			06/10/22 10:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**17.6**	**J**	50.0	15.0	mg/Kg			06/10/22 09:46	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	**17.6**	**J**	50.0	15.0	mg/Kg		06/09/22 15:09	06/12/22 19:51	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		06/09/22 15:09	06/12/22 19:51	1
OII Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		06/09/22 15:09	06/12/22 19:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*06/09/22 15:09*	*06/12/22 19:51*	*1*
o-Terphenyl	*102*		*70 - 130*	*06/09/22 15:09*	*06/12/22 19:51*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**16.7**		5.05	0.867	mg/Kg			06/14/22 09:25	1

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: B-40

Date Collected: 06/07/22 14:20
Date Received: 06/08/22 08:17
Sample Depth: 8 - 9

Lab Sample ID: 890-2387-56

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		06/09/22 13:35	06/12/22 18:37	1
Toluene	<0.000458	U	0.00201	0.000458	mg/Kg		06/09/22 13:35	06/12/22 18:37	1
Ethylbenzene	<0.000567	U *- *1	0.00201	0.000567	mg/Kg		06/09/22 13:35	06/12/22 18:37	1
m,p-Xylenes	<0.00101	U	0.00402	0.00101	mg/Kg		06/09/22 13:35	06/12/22 18:37	1
o-Xylene	<0.000345	U	0.00201	0.000345	mg/Kg		06/09/22 13:35	06/12/22 18:37	1
Xylenes, Total	<0.00101	U	0.00402	0.00101	mg/Kg		06/09/22 13:35	06/12/22 18:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*06/09/22 13:35*	*06/12/22 18:37*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*06/09/22 13:35*	*06/12/22 18:37*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00402	0.00101	mg/Kg			06/10/22 10:44	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			06/10/22 09:46	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	**18.1**	**J**	50.0	15.0	mg/Kg		06/09/22 15:09	06/12/22 20:13	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		06/09/22 15:09	06/12/22 20:13	1
OII Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		06/09/22 15:09	06/12/22 20:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*06/09/22 15:09*	*06/12/22 20:13*	*1*
o-Terphenyl	*104*		*70 - 130*	*06/09/22 15:09*	*06/12/22 20:13*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**16.7**		4.98	0.855	mg/Kg			06/14/22 09:34	1

Client Sample ID: B-41

Date Collected: 06/07/22 14:24
Date Received: 06/08/22 08:17
Sample Depth: 8 - 9

Lab Sample ID: 890-2387-57

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		06/09/22 13:35	06/12/22 19:03	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		06/09/22 13:35	06/12/22 19:03	1
Ethylbenzene	<0.000564	U *- *1	0.00200	0.000564	mg/Kg		06/09/22 13:35	06/12/22 19:03	1
m,p-Xylenes	<0.00101	U	0.00399	0.00101	mg/Kg		06/09/22 13:35	06/12/22 19:03	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		06/09/22 13:35	06/12/22 19:03	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		06/09/22 13:35	06/12/22 19:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*06/09/22 13:35*	*06/12/22 19:03*	*1*

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: B-41

Date Collected: 06/07/22 14:24
Date Received: 06/08/22 08:17
Sample Depth: 8 - 9

Lab Sample ID: 890-2387-57

Matrix: Solid

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*06/09/22 13:35*	*06/12/22 19:03*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00399	0.00101	mg/Kg			06/10/22 10:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**16.7**	**J**	50.0	15.0	mg/Kg			06/10/22 09:46	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		06/09/22 15:09	06/12/22 20:35	1
Diesel Range Organics (Over C10-C28)	**16.7**	**J**	50.0	15.0	mg/Kg		06/09/22 15:09	06/12/22 20:35	1
OII Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		06/09/22 15:09	06/12/22 20:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*97*		*70 - 130*	*06/09/22 15:09*	*06/12/22 20:35*	*1*
o-Terphenyl	*99*		*70 - 130*	*06/09/22 15:09*	*06/12/22 20:35*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**23.2**		4.95	0.850	mg/Kg			06/14/22 09:43	1

Client Sample ID: B-42

Date Collected: 06/07/22 14:28
Date Received: 06/08/22 08:17
Sample Depth: 8 - 9

Lab Sample ID: 890-2387-58

Matrix: Solid

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		06/09/22 13:35	06/12/22 19:29	1
Toluene	<0.000451	U	0.00198	0.000451	mg/Kg		06/09/22 13:35	06/12/22 19:29	1
Ethylbenzene	<0.000559	U *- *1	0.00198	0.000559	mg/Kg		06/09/22 13:35	06/12/22 19:29	1
m,p-Xylenes	<0.00100	U	0.00396	0.00100	mg/Kg		06/09/22 13:35	06/12/22 19:29	1
o-Xylene	<0.000341	U	0.00198	0.000341	mg/Kg		06/09/22 13:35	06/12/22 19:29	1
Xylenes, Total	<0.00100	U	0.00396	0.00100	mg/Kg		06/09/22 13:35	06/12/22 19:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*06/09/22 13:35*	*06/12/22 19:29*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*06/09/22 13:35*	*06/12/22 19:29*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00396	0.00100	mg/Kg			06/10/22 10:44	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**	50.0	15.0	mg/Kg			06/10/22 09:46	1

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: B-42

Lab Sample ID: 890-2387-58
Matrix: Solid
Date Collected: 06/07/22 14:28
Date Received: 06/08/22 08:17
Sample Depth: 8 - 9

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	17.0	J	50.0	15.0	mg/Kg		06/09/22 15:09	06/12/22 20:57	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		06/09/22 15:09	06/12/22 20:57	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		06/09/22 15:09	06/12/22 20:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*119*		*70 - 130*	*06/09/22 15:09*	*06/12/22 20:57*	*1*
o-Terphenyl	*124*		*70 - 130*	*06/09/22 15:09*	*06/12/22 20:57*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.1		5.00	0.858	mg/Kg			06/14/22 10:11	1

Client Sample ID: B-43

Lab Sample ID: 890-2387-59
Matrix: Solid
Date Collected: 06/07/22 14:31
Date Received: 06/08/22 08:17
Sample Depth: 8 - 9

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		06/09/22 13:35	06/12/22 19:55	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		06/09/22 13:35	06/12/22 19:55	1
Ethylbenzene	<0.000565	U *- *1	0.00200	0.000565	mg/Kg		06/09/22 13:35	06/12/22 19:55	1
m,p-Xylenes	<0.00101	U	0.00400	0.00101	mg/Kg		06/09/22 13:35	06/12/22 19:55	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		06/09/22 13:35	06/12/22 19:55	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		06/09/22 13:35	06/12/22 19:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*	*06/09/22 13:35*	*06/12/22 19:55*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*06/09/22 13:35*	*06/12/22 19:55*	*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			06/10/22 10:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	16.3	J	49.9	15.0	mg/Kg			06/10/22 09:46	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	16.3	J	49.9	15.0	mg/Kg		06/09/22 15:09	06/12/22 21:18	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		06/09/22 15:09	06/12/22 21:18	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		06/09/22 15:09	06/12/22 21:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*06/09/22 15:09*	*06/12/22 21:18*	*1*
o-Terphenyl	*113*		*70 - 130*	*06/09/22 15:09*	*06/12/22 21:18*	*1*

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: B-43

Date Collected: 06/07/22 14:31
Date Received: 06/08/22 08:17
Sample Depth: 8 - 9

Lab Sample ID: 890-2387-59
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.1		4.99	0.857	mg/Kg			06/14/22 10:20	1

Client Sample ID: B-44

Date Collected: 06/07/22 14:34
Date Received: 06/08/22 08:17
Sample Depth: 8 - 9

Lab Sample ID: 890-2387-60
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		06/09/22 13:35	06/12/22 20:21	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg		06/09/22 13:35	06/12/22 20:21	1
Ethylbenzene	<0.000566	U *- *1	0.00200	0.000566	mg/Kg		06/09/22 13:35	06/12/22 20:21	1
m,p-Xylenes	<0.00101	U	0.00401	0.00101	mg/Kg		06/09/22 13:35	06/12/22 20:21	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg		06/09/22 13:35	06/12/22 20:21	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		06/09/22 13:35	06/12/22 20:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*06/09/22 13:35*	*06/12/22 20:21*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*06/09/22 13:35*	*06/12/22 20:21*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00401	0.00101	mg/Kg			06/10/22 10:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	19.3	J	49.9	15.0	mg/Kg			06/10/22 09:46	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	19.3	J	49.9	15.0	mg/Kg		06/09/22 15:09	06/12/22 21:39	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		06/09/22 15:09	06/12/22 21:39	1
OII Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		06/09/22 15:09	06/12/22 21:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*06/09/22 15:09*	*06/12/22 21:39*	*1*
o-Terphenyl	*109*		*70 - 130*	*06/09/22 15:09*	*06/12/22 21:39*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.1		5.04	0.865	mg/Kg			06/14/22 10:48	1

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: B-45

Date Collected: 06/07/22 14:38
Date Received: 06/08/22 08:17
Sample Depth: 8 - 9

Lab Sample ID: 890-2387-61
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		06/09/22 17:00	06/09/22 19:08	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		06/09/22 17:00	06/09/22 19:08	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		06/09/22 17:00	06/09/22 19:08	1
m,p-Xylenes	<0.00101	U	0.00399	0.00101	mg/Kg		06/09/22 17:00	06/09/22 19:08	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		06/09/22 17:00	06/09/22 19:08	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		06/09/22 17:00	06/09/22 19:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*06/09/22 17:00*	*06/09/22 19:08*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*06/09/22 17:00*	*06/09/22 19:08*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00399	0.00101	mg/Kg			06/10/22 10:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**15.6**	**J**	49.9	15.0	mg/Kg			06/10/22 09:46	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		06/09/22 11:40	06/09/22 21:40	1
Diesel Range Organics (Over C10-C28)	**15.6**	**J**	49.9	15.0	mg/Kg		06/09/22 11:40	06/09/22 21:40	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		06/09/22 11:40	06/09/22 21:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*06/09/22 11:40*	*06/09/22 21:40*	*1*
o-Terphenyl	*96*		*70 - 130*	*06/09/22 11:40*	*06/09/22 21:40*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**30.3**		4.97	0.853	mg/Kg			06/14/22 10:57	1

Client Sample ID: B-46

Date Collected: 06/07/22 14:42
Date Received: 06/08/22 08:17
Sample Depth: 8 - 9

Lab Sample ID: 890-2387-62
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		06/09/22 17:00	06/09/22 19:29	1
Toluene	<0.000459	U	0.00201	0.000459	mg/Kg		06/09/22 17:00	06/09/22 19:29	1
Ethylbenzene	<0.000568	U	0.00201	0.000568	mg/Kg		06/09/22 17:00	06/09/22 19:29	1
m,p-Xylenes	<0.00102	U	0.00402	0.00102	mg/Kg		06/09/22 17:00	06/09/22 19:29	1
o-Xylene	<0.000346	U	0.00201	0.000346	mg/Kg		06/09/22 17:00	06/09/22 19:29	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg		06/09/22 17:00	06/09/22 19:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*06/09/22 17:00*	*06/09/22 19:29*	*1*

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: B-46

Date Collected: 06/07/22 14:42
Date Received: 06/08/22 08:17
Sample Depth: 8 - 9

Lab Sample ID: 890-2387-62

Matrix: Solid

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*06/09/22 17:00*	*06/09/22 19:29*	*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			06/10/22 10:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**23.0**	**J**	50.0	15.0	mg/Kg			06/10/22 09:46	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		06/09/22 11:40	06/09/22 22:46	1
Diesel Range Organics (Over C10-C28)	**23.0**	**J**	50.0	15.0	mg/Kg		06/09/22 11:40	06/09/22 22:46	1
OII Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		06/09/22 11:40	06/09/22 22:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*87*		*70 - 130*	*06/09/22 11:40*	*06/09/22 22:46*	*1*
o-Terphenyl	*90*		*70 - 130*	*06/09/22 11:40*	*06/09/22 22:46*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**15.6**		4.99	0.857	mg/Kg			06/14/22 11:06	1

Client Sample ID: B-47

Date Collected: 06/07/22 14:45
Date Received: 06/08/22 08:17
Sample Depth: 8 - 9

Lab Sample ID: 890-2387-63

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		06/09/22 17:00	06/09/22 19:49	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		06/09/22 17:00	06/09/22 19:49	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		06/09/22 17:00	06/09/22 19:49	1
m,p-Xylenes	<0.00101	U	0.00398	0.00101	mg/Kg		06/09/22 17:00	06/09/22 19:49	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg		06/09/22 17:00	06/09/22 19:49	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		06/09/22 17:00	06/09/22 19:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*06/09/22 17:00*	*06/09/22 19:49*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*06/09/22 17:00*	*06/09/22 19:49*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00398	0.00101	mg/Kg			06/10/22 10:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**51.1**		50.0	15.0	mg/Kg			06/10/22 09:46	1

Eurofins Carlsbad

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: B-47

Date Collected: 06/07/22 14:45
Date Received: 06/08/22 08:17
Sample Depth: 8 - 9

Lab Sample ID: 890-2387-63

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	20.6	J	50.0	15.0	mg/Kg		06/09/22 11:40	06/09/22 23:08	1
Diesel Range Organics (Over C10-C28)	30.5	J	50.0	15.0	mg/Kg		06/09/22 11:40	06/09/22 23:08	1
OIl Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		06/09/22 11:40	06/09/22 23:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*06/09/22 11:40*	*06/09/22 23:08*	*1*
o-Terphenyl	*91*		*70 - 130*	*06/09/22 11:40*	*06/09/22 23:08*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.6		4.95	0.850	mg/Kg			06/14/22 11:15	1

Surrogate Summary

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
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)
890-2387-1	W-1	120	102
890-2387-1 MS	W-1	115	110
890-2387-1 MSD	W-1	113	97
890-2387-2	W-2	119	101
890-2387-3	W-3	124	94
890-2387-4	W-4	117	95
890-2387-5	W-5	123	95
890-2387-6	W-6	122	94
890-2387-7	W-7	130	96
890-2387-8	W-8	120	91
890-2387-9	W-9	126	93
890-2387-10	W-10	115	91
890-2387-11	W-11	120	92
890-2387-12	W-12	117	92
890-2387-13	W-13	127	93
890-2387-14	IW-1	122	100
890-2387-15	B-1	121	95
890-2387-16	B-2	117	94
890-2387-17	B-3	116	92
890-2387-18	B-4	114	100
890-2387-19	B-5	122	96
890-2387-20	B-6	116	101
890-2387-21	B-7	116	97
890-2387-21 MS	B-7	112	99
890-2387-21 MSD	B-7	124	100
890-2387-22	B-8	111	100
890-2387-23	B-9	103	106
890-2387-24	B-10	120	98
890-2387-25	B-11	104	90
890-2387-26	B-12	105	105
890-2387-27	B-13	107	104
890-2387-28	B-14	123	92
890-2387-29	B-15	116	94
890-2387-30	B-16	131 S1+	80
890-2387-31	B-17	137 S1+	88
890-2387-32	B-18	113	92
890-2387-33	B-19	111	93
890-2387-34	B-20	113	92
890-2387-35	B-21	108	93
890-2387-36	B-22	109	92
890-2387-37	B-23	109	92
890-2387-38	B-24	105	92
890-2387-39	B-25	106	92
890-2387-40	B-26	107	92
890-2387-41	B-27	114	101
890-2387-41 MS	B-27	117	103
890-2387-41 MSD	B-27	121	107
890-2387-42	B-28	120	100
890-2387-43	B-29	129	99

Surrogate Summary

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
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)
890-2387-44	B-30	122	104
890-2387-45	B-31	119	95
890-2387-46	B-32	122	95
890-2387-47	B-33	112	103
890-2387-48	B-34	119	94
890-2387-49	B-35	120	90
890-2387-50	B-36	125	94
890-2387-51	R-1	120	100
890-2387-52	R-2	128	106
890-2387-53	B-37	120	93
890-2387-54	B-38	120	92
890-2387-55	B-39	127	103
890-2387-56	B-40	126	93
890-2387-57	B-41	117	101
890-2387-58	B-42	125	93
890-2387-59	B-43	130	103
890-2387-60	B-44	119	91
890-2387-61	B-45	105	97
890-2387-62	B-46	105	96
890-2387-63	B-47	102	95
LCS 880-27164/1-A	Lab Control Sample	111	104
LCS 880-27190/1-A	Lab Control Sample	117	105
LCS 880-27192/1-A	Lab Control Sample	120	99
LCS 880-27201/1-A	Lab Control Sample	114	105
LCS 880-27259/1-A	Lab Control Sample	103	91
LCS 880-27306/1-A	Lab Control Sample	118	97
LCS 880-27360/1-A	Lab Control Sample	107	98
LCSD 880-27164/2-A	Lab Control Sample Dup	102	103
LCSD 880-27190/2-A	Lab Control Sample Dup	0.02 S1-	0.02 S1-
LCSD 880-27192/2-A	Lab Control Sample Dup	116	97
LCSD 880-27201/2-A	Lab Control Sample Dup	0.02 S1-	0.02 S1-
LCSD 880-27259/2-A	Lab Control Sample Dup	92	106
LCSD 880-27306/2-A	Lab Control Sample Dup	101	100
LCSD 880-27360/2-A	Lab Control Sample Dup	109	99
MB 880-27164/5-A	Method Blank	100	91
MB 880-27190/5-A	Method Blank	87	94
MB 880-27192/5-A	Method Blank	94	103
MB 880-27201/5-A	Method Blank	89	94
MB 880-27259/5-A	Method Blank	98	99
MB 880-27306/5-A	Method Blank	91	102
MB 880-27360/5-A	Method Blank	103	89
MB 880-27445/5-A	Method Blank	101	90

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Surrogate Summary

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

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)								
890-2387-1	W-1	93	103								
890-2387-1 MS	W-1	87	88								
890-2387-1 MSD	W-1	104	102								
890-2387-2	W-2	103	116								
890-2387-3	W-3	98	108								
890-2387-4	W-4	97	106								
890-2387-5	W-5	95	104								
890-2387-6	W-6	115	123								
890-2387-7	W-7	104	113								
890-2387-8	W-8	102	111								
890-2387-9	W-9	88	94								
890-2387-10	W-10	94	103								
890-2387-11	W-11	105	0.03 S1-								
890-2387-12	W-12	90	99								
890-2387-13	W-13	98	99								
890-2387-14	IW-1	104	110								
890-2387-15	B-1	97	107								
890-2387-16	B-2	97	109								
890-2387-17	B-3	94	102								
890-2387-18	B-4	100	108								
890-2387-19	B-5	123	132 S1+								
890-2387-20	B-6	90	98								
890-2387-21	B-7	84	88								
890-2387-21 MS	B-7	76	69 S1-								
890-2387-21 MSD	B-7	77	70								
890-2387-22	B-8	80	82								
890-2387-23	B-9	81	86								
890-2387-24	B-10	81	88								
890-2387-25	B-11	81	86								
890-2387-26	B-12	76	81								
890-2387-27	B-13	84	90								
890-2387-28	B-14	78	81								
890-2387-29	B-15	90	90								
890-2387-30	B-16	78	80								
890-2387-31	B-17	76	78								
890-2387-32	B-18	86	88								
890-2387-33	B-19	85	87								
890-2387-34	B-20	81	86								
890-2387-35	B-21	78	83								
890-2387-36	B-22	81	85								
890-2387-37	B-23	78	82								
890-2387-38	B-24	81	85								
890-2387-39	B-25	83	86								
890-2387-40	B-26	86	89								
890-2387-41	B-27	128	136 S1+								
890-2387-41 MS	B-27	98	91								
890-2387-41 MSD	B-27	95	83								
890-2387-42	B-28	117	124								
890-2387-43	B-29	88	91								
890-2387-44	B-30	105	109								

Surrogate Summary

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
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)								
890-2387-45	B-31	99	103								
890-2387-46	B-32	103	104								
890-2387-47	B-33	109	114								
890-2387-48	B-34	106	108								
890-2387-49	B-35	106	109								
890-2387-50	B-36	102	106								
890-2387-51	R-1	104	109								
890-2387-52	R-2	102	100								
890-2387-53	B-37	109	115								
890-2387-54	B-38	112	117								
890-2387-55	B-39	101	102								
890-2387-56	B-40	104	104								
890-2387-57	B-41	97	99								
890-2387-58	B-42	119	124								
890-2387-59	B-43	110	113								
890-2387-60	B-44	110	109								
890-2387-61	B-45	90	96								
890-2387-61 MS	B-45	84	82								
890-2387-61 MSD	B-45	84	82								
890-2387-62	B-46	87	90								
890-2387-63	B-47	89	91								
LCS 880-27170/2-A	Lab Control Sample	115	119								
LCS 880-27203/2-A	Lab Control Sample	98	109								
LCS 880-27209/2-A	Lab Control Sample	131 S1+	125								
LCS 880-27292/2-A	Lab Control Sample	98	93								
LCSD 880-27170/3-A	Lab Control Sample Dup	108	112								
LCSD 880-27203/3-A	Lab Control Sample Dup	98	109								
LCSD 880-27209/3-A	Lab Control Sample Dup	117	111								
LCSD 880-27292/3-A	Lab Control Sample Dup	100	15 S1-								
MB 880-27170/1-A	Method Blank	83	89								
MB 880-27203/1-A	Method Blank	95	107								
MB 880-27209/1-A	Method Blank	96	103								
MB 880-27292/1-A	Method Blank	76	81								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-27164/5-A
Matrix: Solid
Analysis Batch: 27136

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27164

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		06/09/22 10:05	06/09/22 12:16	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		06/09/22 10:05	06/09/22 12:16	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		06/09/22 10:05	06/09/22 12:16	1
m,p-Xylenes	<0.00101	U	0.00400	0.00101	mg/Kg		06/09/22 10:05	06/09/22 12:16	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		06/09/22 10:05	06/09/22 12:16	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		06/09/22 10:05	06/09/22 12:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*06/09/22 10:05*	*06/09/22 12:16*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*06/09/22 10:05*	*06/09/22 12:16*	*1*

Lab Sample ID: LCS 880-27164/1-A
Matrix: Solid
Analysis Batch: 27136

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27164

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1125		mg/Kg		112	70 - 130
Toluene	0.100	0.1094		mg/Kg		109	70 - 130
Ethylbenzene	0.100	0.1137		mg/Kg		114	70 - 130
m,p-Xylenes	0.200	0.2276		mg/Kg		114	70 - 130
o-Xylene	0.100	0.1160		mg/Kg		116	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 880-27164/2-A
Matrix: Solid
Analysis Batch: 27136

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27164

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09839		mg/Kg		98	70 - 130	13	35
Toluene	0.100	0.09249		mg/Kg		92	70 - 130	17	35
Ethylbenzene	0.100	0.09674		mg/Kg		97	70 - 130	16	35
m,p-Xylenes	0.200	0.1944		mg/Kg		97	70 - 130	16	35
o-Xylene	0.100	0.09787		mg/Kg		98	70 - 130	17	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: MB 880-27190/5-A
Matrix: Solid
Analysis Batch: 27336

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27190

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		06/09/22 12:42	06/11/22 20:52	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		06/09/22 12:42	06/11/22 20:52	1

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

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

Lab Sample ID: MB 880-27190/5-A
Matrix: Solid
Analysis Batch: 27336

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27190

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		06/09/22 12:42	06/11/22 20:52	1
m,p-Xylenes	<0.00101	U	0.00400	0.00101	mg/Kg		06/09/22 12:42	06/11/22 20:52	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		06/09/22 12:42	06/11/22 20:52	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		06/09/22 12:42	06/11/22 20:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*06/09/22 12:42*	*06/11/22 20:52*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*06/09/22 12:42*	*06/11/22 20:52*	*1*

Lab Sample ID: LCS 880-27190/1-A
Matrix: Solid
Analysis Batch: 27336

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27190

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1181		mg/Kg		118	70 - 130
Toluene	0.100	0.1038		mg/Kg		104	70 - 130
Ethylbenzene	0.100	0.1093		mg/Kg		109	70 - 130
m,p-Xylenes	0.200	0.2174		mg/Kg		109	70 - 130
o-Xylene	0.100	0.1078		mg/Kg		108	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 880-27190/2-A
Matrix: Solid
Analysis Batch: 27336

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27190

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09893		mg/Kg		99	70 - 130	18	35
Toluene	0.100	0.09515		mg/Kg		95	70 - 130	9	35
Ethylbenzene	0.100	0.1003		mg/Kg		100	70 - 130	9	35
m,p-Xylenes	0.200	0.1997		mg/Kg		100	70 - 130	8	35
o-Xylene	0.100	0.09922		mg/Kg		99	70 - 130	8	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*0.02*	*S1-*	*70 - 130*
1,4-Difluorobenzene (Surr)	*0.02*	*S1-*	*70 - 130*

Lab Sample ID: 890-2387-1 MS
Matrix: Solid
Analysis Batch: 27336

Client Sample ID: W-1
Prep Type: Total/NA
Prep Batch: 27190

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.000383	U	0.100	0.1088		mg/Kg		108	70 - 130
Toluene	<0.000453	U	0.100	0.09679		mg/Kg		96	70 - 130
Ethylbenzene	<0.000562	U	0.100	0.09649		mg/Kg		96	70 - 130
m,p-Xylenes	<0.00100	U	0.201	0.1933		mg/Kg		96	70 - 130

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

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

Lab Sample ID: 890-2387-1 MS
Matrix: Solid
Analysis Batch: 27336

Client Sample ID: W-1
Prep Type: Total/NA
Prep Batch: 27190

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.000501	J	0.100	0.09605		mg/Kg		95	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*

Lab Sample ID: 890-2387-1 MSD
Matrix: Solid
Analysis Batch: 27336

Client Sample ID: W-1
Prep Type: Total/NA
Prep Batch: 27190

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.000383	U	0.101	0.1087		mg/Kg		108	70 - 130	0	35
Toluene	<0.000453	U	0.101	0.1054		mg/Kg		104	70 - 130	8	35
Ethylbenzene	<0.000562	U	0.101	0.1038		mg/Kg		103	70 - 130	7	35
m,p-Xylenes	<0.00100	U	0.202	0.2066		mg/Kg		102	70 - 130	7	35
o-Xylene	0.000501	J	0.101	0.1026		mg/Kg		101	70 - 130	7	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: MB 880-27192/5-A
Matrix: Solid
Analysis Batch: 27334

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27192

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		06/09/22 13:00	06/11/22 20:38	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		06/09/22 13:00	06/11/22 20:38	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		06/09/22 13:00	06/11/22 20:38	1
m,p-Xylenes	<0.00101	U	0.00400	0.00101	mg/Kg		06/09/22 13:00	06/11/22 20:38	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		06/09/22 13:00	06/11/22 20:38	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		06/09/22 13:00	06/11/22 20:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*06/09/22 13:00*	*06/11/22 20:38*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*06/09/22 13:00*	*06/11/22 20:38*	*1*

Lab Sample ID: LCS 880-27192/1-A
Matrix: Solid
Analysis Batch: 27334

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27192

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1017		mg/Kg		102	70 - 130
Toluene	0.100	0.1107		mg/Kg		111	70 - 130
Ethylbenzene	0.100	0.1294		mg/Kg		129	70 - 130
m,p-Xylenes	0.200	0.2642	*+	mg/Kg		132	70 - 130
o-Xylene	0.100	0.1209		mg/Kg		121	70 - 130

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

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

Lab Sample ID: LCS 880-27192/1-A
Matrix: Solid
Analysis Batch: 27334

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27192

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-27192/2-A
Matrix: Solid
Analysis Batch: 27334

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27192

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09571		mg/Kg		96	70 - 130	6	35
Toluene			0.100	0.1053		mg/Kg		105	70 - 130	5	35
Ethylbenzene			0.100	0.1240		mg/Kg		124	70 - 130	4	35
m,p-Xylenes			0.200	0.2546		mg/Kg		127	70 - 130	4	35
o-Xylene			0.100	0.1161		mg/Kg		116	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 890-2387-21 MS
Matrix: Solid
Analysis Batch: 27334

Client Sample ID: B-7
Prep Type: Total/NA
Prep Batch: 27192

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.000428	J	0.101	0.08260		mg/Kg		81	70 - 130
Toluene	<0.000453	U	0.101	0.08111		mg/Kg		80	70 - 130
Ethylbenzene	<0.000562	U	0.101	0.08113		mg/Kg		80	70 - 130
m,p-Xylenes	<0.00100	U *+	0.202	0.1591		mg/Kg		79	70 - 130
o-Xylene	0.000709	J	0.101	0.07333		mg/Kg		72	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 890-2387-21 MSD
Matrix: Solid
Analysis Batch: 27334

Client Sample ID: B-7
Prep Type: Total/NA
Prep Batch: 27192

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.000428	J	0.101	0.08552		mg/Kg		85	70 - 130	3	35
Toluene	<0.000453	U	0.101	0.09266		mg/Kg		92	70 - 130	13	35
Ethylbenzene	<0.000562	U	0.101	0.1069		mg/Kg		106	70 - 130	27	35
m,p-Xylenes	<0.00100	U *+	0.201	0.2191		mg/Kg		109	70 - 130	32	35
o-Xylene	0.000709	J	0.101	0.1000		mg/Kg		99	70 - 130	31	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	124		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

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

Lab Sample ID: MB 880-27201/5-A
Matrix: Solid
Analysis Batch: 27336

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27201

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		06/09/22 13:35	06/12/22 10:16	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		06/09/22 13:35	06/12/22 10:16	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		06/09/22 13:35	06/12/22 10:16	1
m,p-Xylenes	<0.00101	U	0.00400	0.00101	mg/Kg		06/09/22 13:35	06/12/22 10:16	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		06/09/22 13:35	06/12/22 10:16	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		06/09/22 13:35	06/12/22 10:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*06/09/22 13:35*	*06/12/22 10:16*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*06/09/22 13:35*	*06/12/22 10:16*	*1*

Lab Sample ID: LCS 880-27201/1-A
Matrix: Solid
Analysis Batch: 27336

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27201

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08975		mg/Kg		90	70 - 130
Toluene	0.100	0.09302		mg/Kg		93	70 - 130
Ethylbenzene	0.100	0.09562		mg/Kg		96	70 - 130
m,p-Xylenes	0.200	0.1882		mg/Kg		94	70 - 130
o-Xylene	0.100	0.09476		mg/Kg		95	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 880-27201/2-A
Matrix: Solid
Analysis Batch: 27336

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27201

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1140		mg/Kg		114	70 - 130	24	35
Toluene	0.100	0.1011		mg/Kg		101	70 - 130	8	35
Ethylbenzene	0.100	0.1020		mg/Kg		102	70 - 130	6	35
m,p-Xylenes	0.200	0.1985		mg/Kg		99	70 - 130	5	35
o-Xylene	0.100	0.1032		mg/Kg		103	70 - 130	9	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*0.02*	*S1-*	*70 - 130*
1,4-Difluorobenzene (Surr)	*0.02*	*S1-*	*70 - 130*

Lab Sample ID: 890-2387-41 MS
Matrix: Solid
Analysis Batch: 27336

Client Sample ID: B-27
Prep Type: Total/NA
Prep Batch: 27201

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.000383	U	0.100	0.08047		mg/Kg		80	70 - 130
Toluene	<0.000453	U F1	0.100	0.05781	F1	mg/Kg		58	70 - 130

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

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

Lab Sample ID: 890-2387-41 MS
Matrix: Solid
Analysis Batch: 27336

Client Sample ID: B-27
Prep Type: Total/NA
Prep Batch: 27201

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.000562	U *- F1 *1	0.100	0.03952	F1	mg/Kg		39	70 - 130
m,p-Xylenes	<0.00100	U F1	0.201	0.07328	F1	mg/Kg		36	70 - 130
o-Xylene	<0.000342	U F1	0.100	0.04480	F1	mg/Kg		45	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 890-2387-41 MSD
Matrix: Solid
Analysis Batch: 27336

Client Sample ID: B-27
Prep Type: Total/NA
Prep Batch: 27201

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.000383	U	0.100	0.07929		mg/Kg		79	70 - 130	1	35
Toluene	<0.000453	U F1	0.100	0.05887	F1	mg/Kg		59	70 - 130	2	35
Ethylbenzene	<0.000562	U *- F1 *1	0.100	0.04511	F1	mg/Kg		45	70 - 130	13	35
m,p-Xylenes	<0.00100	U F1	0.200	0.08886	F1	mg/Kg		44	70 - 130	19	35
o-Xylene	<0.000342	U F1	0.100	0.05138	F1	mg/Kg		51	70 - 130	14	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: MB 880-27259/5-A
Matrix: Solid
Analysis Batch: 27440

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27259

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		06/10/22 09:30	06/14/22 03:26	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		06/10/22 09:30	06/14/22 03:26	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		06/10/22 09:30	06/14/22 03:26	1
m,p-Xylenes	<0.00101	U	0.00400	0.00101	mg/Kg		06/10/22 09:30	06/14/22 03:26	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		06/10/22 09:30	06/14/22 03:26	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		06/10/22 09:30	06/14/22 03:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*06/10/22 09:30*	*06/14/22 03:26*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*06/10/22 09:30*	*06/14/22 03:26*	*1*

Lab Sample ID: LCS 880-27259/1-A
Matrix: Solid
Analysis Batch: 27440

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27259

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.07243		mg/Kg		72	70 - 130
Toluene	0.100	0.08666		mg/Kg		87	70 - 130
Ethylbenzene	0.100	0.08391		mg/Kg		84	70 - 130
m,p-Xylenes	0.200	0.1688		mg/Kg		84	70 - 130

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

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

Lab Sample ID: LCS 880-27259/1-A
Matrix: Solid
Analysis Batch: 27440

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27259

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.09442		mg/Kg		94	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*

Lab Sample ID: LCSD 880-27259/2-A
Matrix: Solid
Analysis Batch: 27440

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27259

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1076	*1	mg/Kg		108	70 - 130	39	35
Toluene			0.100	0.09612		mg/Kg		96	70 - 130	10	35
Ethylbenzene			0.100	0.08092		mg/Kg		81	70 - 130	4	35
m,p-Xylenes			0.200	0.1513		mg/Kg		76	70 - 130	11	35
o-Xylene			0.100	0.08396		mg/Kg		84	70 - 130	12	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: MB 880-27306/5-A
Matrix: Solid
Analysis Batch: 27440

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27306

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		06/10/22 12:47	06/13/22 16:45	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		06/10/22 12:47	06/13/22 16:45	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		06/10/22 12:47	06/13/22 16:45	1
m,p-Xylenes	<0.00101	U	0.00400	0.00101	mg/Kg		06/10/22 12:47	06/13/22 16:45	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		06/10/22 12:47	06/13/22 16:45	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		06/10/22 12:47	06/13/22 16:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*06/10/22 12:47*	*06/13/22 16:45*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*06/10/22 12:47*	*06/13/22 16:45*	*1*

Lab Sample ID: LCS 880-27306/1-A
Matrix: Solid
Analysis Batch: 27440

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27306

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08388		mg/Kg		84	70 - 130		
Toluene			0.100	0.1036		mg/Kg		104	70 - 130		
Ethylbenzene			0.100	0.1050		mg/Kg		105	70 - 130		
m,p-Xylenes			0.200	0.2149		mg/Kg		107	70 - 130		
o-Xylene			0.100	0.1181		mg/Kg		118	70 - 130		

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

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

Lab Sample ID: LCS 880-27306/1-A
Matrix: Solid
Analysis Batch: 27440

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27306

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: LCSD 880-27306/2-A
Matrix: Solid
Analysis Batch: 27440

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27306

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08586		mg/Kg		86	70 - 130	2	35
Toluene			0.100	0.09646		mg/Kg		96	70 - 130	7	35
Ethylbenzene			0.100	0.09253		mg/Kg		93	70 - 130	13	35
m,p-Xylenes			0.200	0.1839		mg/Kg		92	70 - 130	16	35
o-Xylene			0.100	0.1006		mg/Kg		101	70 - 130	16	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: MB 880-27360/5-A
Matrix: Solid
Analysis Batch: 27442

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27360

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		06/13/22 07:45	06/14/22 04:46	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		06/13/22 07:45	06/14/22 04:46	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		06/13/22 07:45	06/14/22 04:46	1
m,p-Xylenes	<0.00101	U	0.00400	0.00101	mg/Kg		06/13/22 07:45	06/14/22 04:46	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		06/13/22 07:45	06/14/22 04:46	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		06/13/22 07:45	06/14/22 04:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	06/13/22 07:45	06/14/22 04:46	1
1,4-Difluorobenzene (Surr)	89		70 - 130	06/13/22 07:45	06/14/22 04:46	1

Lab Sample ID: LCS 880-27360/1-A
Matrix: Solid
Analysis Batch: 27442

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27360

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene			0.100	0.08289		mg/Kg		83	70 - 130
Toluene			0.100	0.08450		mg/Kg		84	70 - 130
Ethylbenzene			0.100	0.08928		mg/Kg		89	70 - 130
m,p-Xylenes			0.200	0.1841		mg/Kg		92	70 - 130
o-Xylene			0.100	0.09495		mg/Kg		95	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

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

Lab Sample ID: LCS 880-27360/1-A
Matrix: Solid
Analysis Batch: 27442

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27360

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 880-27360/2-A
Matrix: Solid
Analysis Batch: 27442

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27360

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08670		mg/Kg		87	70 - 130	4	35
Toluene			0.100	0.08916		mg/Kg		89	70 - 130	5	35
Ethylbenzene			0.100	0.09378		mg/Kg		94	70 - 130	5	35
m,p-Xylenes			0.200	0.1926		mg/Kg		96	70 - 130	5	35
o-Xylene			0.100	0.09955		mg/Kg		100	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: MB 880-27445/5-A
Matrix: Solid
Analysis Batch: 27442

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27445

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		06/13/22 13:48	06/13/22 18:12	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		06/13/22 13:48	06/13/22 18:12	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		06/13/22 13:48	06/13/22 18:12	1
m,p-Xylenes	<0.00101	U	0.00400	0.00101	mg/Kg		06/13/22 13:48	06/13/22 18:12	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		06/13/22 13:48	06/13/22 18:12	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		06/13/22 13:48	06/13/22 18:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	06/13/22 13:48	06/13/22 18:12	1
1,4-Difluorobenzene (Surr)	90		70 - 130	06/13/22 13:48	06/13/22 18:12	1

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

Lab Sample ID: MB 880-27170/1-A
Matrix: Solid
Analysis Batch: 27127

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27170

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		06/09/22 11:40	06/09/22 20:34	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		06/09/22 11:40	06/09/22 20:34	1
OII Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		06/09/22 11:40	06/09/22 20:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130	06/09/22 11:40	06/09/22 20:34	1

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

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

Lab Sample ID: MB 880-27170/1-A
Matrix: Solid
Analysis Batch: 27127

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27170

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	89		70 - 130	06/09/22 11:40	06/09/22 20:34	1

Lab Sample ID: LCS 880-27170/2-A
Matrix: Solid
Analysis Batch: 27127

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27170

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	953.3		mg/Kg		95	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	917.9		mg/Kg		92	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	115		70 - 130
o-Terphenyl	119		70 - 130

Lab Sample ID: LCSD 880-27170/3-A
Matrix: Solid
Analysis Batch: 27127

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27170

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	834.9		mg/Kg		83	70 - 130	13	20
Diesel Range Organics (Over C10-C28)			1000	832.9		mg/Kg		83	70 - 130	10	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	112		70 - 130

Lab Sample ID: 890-2387-61 MS
Matrix: Solid
Analysis Batch: 27127

Client Sample ID: B-45
Prep Type: Total/NA
Prep Batch: 27170

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	997	877.0		mg/Kg		88	70 - 130		
Diesel Range Organics (Over C10-C28)	15.6	J	997	800.5		mg/Kg		79	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	84		70 - 130
o-Terphenyl	82		70 - 130

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

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

Lab Sample ID: 890-2387-61 MSD
Matrix: Solid
Analysis Batch: 27127

Client Sample ID: B-45
Prep Type: Total/NA
Prep Batch: 27170

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	1000	947.0		mg/Kg		95	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	15.6	J	1000	808.6		mg/Kg		79	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*84*		*70 - 130*
o-Terphenyl	*82*		*70 - 130*

Lab Sample ID: MB 880-27203/1-A
Matrix: Solid
Analysis Batch: 27237

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27203

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	19.47	J	50.0	15.0	mg/Kg		06/09/22 14:22	06/10/22 10:16	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		06/09/22 14:22	06/10/22 10:16	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		06/09/22 14:22	06/10/22 10:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*06/09/22 14:22*	*06/10/22 10:16*	*1*
o-Terphenyl	*107*		*70 - 130*	*06/09/22 14:22*	*06/10/22 10:16*	*1*

Lab Sample ID: LCS 880-27203/2-A
Matrix: Solid
Analysis Batch: 27237

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27203

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1154		mg/Kg		115	70 - 130
Diesel Range Organics (Over C10-C28)	1000	879.7		mg/Kg		88	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*98*		*70 - 130*
o-Terphenyl	*109*		*70 - 130*

Lab Sample ID: LCSD 880-27203/3-A
Matrix: Solid
Analysis Batch: 27237

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27203

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1146		mg/Kg		115	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	871.6		mg/Kg		87	70 - 130	1	20

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

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

Lab Sample ID: LCSD 880-27203/3-A
Matrix: Solid
Analysis Batch: 27237

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27203

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*98*		*70 - 130*
o-Terphenyl	*109*		*70 - 130*

Lab Sample ID: 890-2387-1 MS
Matrix: Solid
Analysis Batch: 27237

Client Sample ID: W-1
Prep Type: Total/NA
Prep Batch: 27203

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	997	961.5		mg/Kg		96	70 - 130		
Diesel Range Organics (Over C10-C28)	<15.0	U	997	944.5		mg/Kg		95	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*87*		*70 - 130*
o-Terphenyl	*88*		*70 - 130*

Lab Sample ID: 890-2387-1 MSD
Matrix: Solid
Analysis Batch: 27237

Client Sample ID: W-1
Prep Type: Total/NA
Prep Batch: 27203

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	1000	1141		mg/Kg		114	70 - 130	17	20
Diesel Range Organics (Over C10-C28)	<15.0	U	1000	1102		mg/Kg		110	70 - 130	15	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*104*		*70 - 130*
o-Terphenyl	*102*		*70 - 130*

Lab Sample ID: MB 880-27209/1-A
Matrix: Solid
Analysis Batch: 27340

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27209

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		06/09/22 15:09	06/12/22 12:38	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		06/09/22 15:09	06/12/22 12:38	1
Oil Range Organics (Over C28-C36)	16.07	J	50.0	15.0	mg/Kg		06/09/22 15:09	06/12/22 12:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*06/09/22 15:09*	*06/12/22 12:38*	*1*
o-Terphenyl	*103*		*70 - 130*	*06/09/22 15:09*	*06/12/22 12:38*	*1*

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

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

Lab Sample ID: LCS 880-27209/2-A
Matrix: Solid
Analysis Batch: 27340

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27209

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1120		mg/Kg		112	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1270		mg/Kg		127	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*131*	*S1+*	*70 - 130*
o-Terphenyl	*125*		*70 - 130*

Lab Sample ID: LCSD 880-27209/3-A
Matrix: Solid
Analysis Batch: 27340

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27209

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1287		mg/Kg		129	70 - 130	14	20
Diesel Range Organics (Over C10-C28)			1000	1207		mg/Kg		121	70 - 130	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*117*		*70 - 130*
o-Terphenyl	*111*		*70 - 130*

Lab Sample ID: 890-2387-41 MS
Matrix: Solid
Analysis Batch: 27340

Client Sample ID: B-27
Prep Type: Total/NA
Prep Batch: 27209

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	33.2	J	997	1126		mg/Kg		110	70 - 130		
Diesel Range Organics (Over C10-C28)	15.4	J	997	940.1		mg/Kg		93	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*98*		*70 - 130*
o-Terphenyl	*91*		*70 - 130*

Lab Sample ID: 890-2387-41 MSD
Matrix: Solid
Analysis Batch: 27340

Client Sample ID: B-27
Prep Type: Total/NA
Prep Batch: 27209

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	33.2	J	1000	988.3		mg/Kg		96	70 - 130	13	20
Diesel Range Organics (Over C10-C28)	15.4	J	1000	860.6		mg/Kg		85	70 - 130	9	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*95*		*70 - 130*

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

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

Lab Sample ID: 890-2387-41 MSD
Matrix: Solid
Analysis Batch: 27340

Client Sample ID: B-27
Prep Type: Total/NA
Prep Batch: 27209

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*83*		*70 - 130*

Lab Sample ID: MB 880-27292/1-A
Matrix: Solid
Analysis Batch: 27330

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27292

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		06/10/22 11:10	06/11/22 10:55	1
Diesel Range Organics (Over C10-C28)	22.08	J	50.0	15.0	mg/Kg		06/10/22 11:10	06/11/22 10:55	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		06/10/22 11:10	06/11/22 10:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*06/10/22 11:10*	*06/11/22 10:55*	*1*
o-Terphenyl	*81*		*70 - 130*	*06/10/22 11:10*	*06/11/22 10:55*	*1*

Lab Sample ID: LCS 880-27292/2-A
Matrix: Solid
Analysis Batch: 27330

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27292

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	874.7		mg/Kg		87	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1080		mg/Kg		108	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*98*		*70 - 130*
o-Terphenyl	*93*		*70 - 130*

Lab Sample ID: LCSD 880-27292/3-A
Matrix: Solid
Analysis Batch: 27330

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27292

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	853.3		mg/Kg		85	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	1183		mg/Kg		118	70 - 130	9	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*100*		*70 - 130*
o-Terphenyl	*15*	*S1-*	*70 - 130*

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

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

Lab Sample ID: 890-2387-21 MS
Matrix: Solid
Analysis Batch: 27330

Client Sample ID: B-7
Prep Type: Total/NA
Prep Batch: 27292

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	15.7	J F1	997	666.8	F1	mg/Kg		65	70 - 130
Diesel Range Organics (Over C10-C28)	180	B	997	966.8		mg/Kg		79	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*76*		*70 - 130*
o-Terphenyl	*69*	*S1-*	*70 - 130*

Lab Sample ID: 890-2387-21 MSD
Matrix: Solid
Analysis Batch: 27330

Client Sample ID: B-7
Prep Type: Total/NA
Prep Batch: 27292

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	15.7	J F1	1000	681.4	F1	mg/Kg		67	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	180	B	1000	1010		mg/Kg		83	70 - 130	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*77*		*70 - 130*
o-Terphenyl	*70*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-27179/1-A
Matrix: Solid
Analysis Batch: 27395

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			06/13/22 18:57	1

Lab Sample ID: LCS 880-27179/2-A
Matrix: Solid
Analysis Batch: 27395

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	243.8		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-27179/3-A
Matrix: Solid
Analysis Batch: 27395

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	245.0		mg/Kg		98	90 - 110	0	20

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 880-27181/1-A
Matrix: Solid
Analysis Batch: 27455

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			06/13/22 23:32	1

Lab Sample ID: LCS 880-27181/2-A
Matrix: Solid
Analysis Batch: 27455

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	251.2		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-27181/3-A
Matrix: Solid
Analysis Batch: 27455

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	1	20

Lab Sample ID: 890-2387-7 MS
Matrix: Solid
Analysis Batch: 27455

Client Sample ID: W-7
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	107		250	343.7		mg/Kg		95	90 - 110

Lab Sample ID: 890-2387-7 MSD
Matrix: Solid
Analysis Batch: 27455

Client Sample ID: W-7
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	107		250	339.6		mg/Kg		93	90 - 110	1	20

Lab Sample ID: 890-2387-17 MS
Matrix: Solid
Analysis Batch: 27455

Client Sample ID: B-3
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	53.3		249	287.6		mg/Kg		94	90 - 110

Lab Sample ID: 890-2387-17 MSD
Matrix: Solid
Analysis Batch: 27455

Client Sample ID: B-3
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	53.3		249	287.7		mg/Kg		94	90 - 110	0	20

Lab Sample ID: MB 880-27182/1-A
Matrix: Solid
Analysis Batch: 27456

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			06/13/22 20:12	1

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-27182/2-A
Matrix: Solid
Analysis Batch: 27456

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	250.4		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-27182/3-A
Matrix: Solid
Analysis Batch: 27456

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	252.0		mg/Kg		101	90 - 110	1	20

Lab Sample ID: 890-2387-27 MS
Matrix: Solid
Analysis Batch: 27456

Client Sample ID: B-13
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	75.8		248	320.7		mg/Kg		99	90 - 110

Lab Sample ID: 890-2387-27 MSD
Matrix: Solid
Analysis Batch: 27456

Client Sample ID: B-13
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		248	325.9		mg/Kg		101	90 - 110	2	20

Lab Sample ID: 890-2387-37 MS
Matrix: Solid
Analysis Batch: 27456

Client Sample ID: B-23
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	39.9		250	304.9		mg/Kg		106	90 - 110

Lab Sample ID: 890-2387-37 MSD
Matrix: Solid
Analysis Batch: 27456

Client Sample ID: B-23
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	39.9		250	303.0		mg/Kg		105	90 - 110	1	20

Lab Sample ID: MB 880-27185/1-A
Matrix: Solid
Analysis Batch: 27474

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			06/14/22 07:07	1

Lab Sample ID: LCS 880-27185/2-A
Matrix: Solid
Analysis Batch: 27474

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	262.3		mg/Kg		105	90 - 110

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-27185/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 27474

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	256.2		mg/Kg		102	90 - 110	2	20

Lab Sample ID: 890-2387-47 MS — **Client Sample ID: B-33**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 27474

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	90.1		1250	1387		mg/Kg		104	90 - 110		

Lab Sample ID: 890-2387-47 MSD — **Client Sample ID: B-33**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 27474

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	90.1		1250	1441		mg/Kg		108	90 - 110	4	20

Lab Sample ID: 890-2387-57 MS — **Client Sample ID: B-41**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 27474

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	23.2		248	285.8		mg/Kg		106	90 - 110		

Lab Sample ID: 890-2387-57 MSD — **Client Sample ID: B-41**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 27474

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	23.2		248	280.2		mg/Kg		104	90 - 110	2	20

Lab Sample ID: MB 880-27617/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 27620

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.858	U	5.00	0.858	mg/Kg			06/15/22 18:37	1

Lab Sample ID: LCS 880-27617/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 27620

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 880-27617/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 27620

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	253.1		mg/Kg		101	90 - 110	0	20

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-2387-12 MS
Matrix: Solid
Analysis Batch: 27620

Client Sample ID: W-12
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	28.3		250	276.1		mg/Kg		99	90 - 110

Lab Sample ID: 890-2387-12 MSD
Matrix: Solid
Analysis Batch: 27620

Client Sample ID: W-12
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	28.3		250	277.0		mg/Kg		99	90 - 110	0	20

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

GC VOA

Analysis Batch: 27136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2387-61	B-45	Total/NA	Solid	8021B	27164
890-2387-62	B-46	Total/NA	Solid	8021B	27164
890-2387-63	B-47	Total/NA	Solid	8021B	27164
MB 880-27164/5-A	Method Blank	Total/NA	Solid	8021B	27164
LCS 880-27164/1-A	Lab Control Sample	Total/NA	Solid	8021B	27164
LCSD 880-27164/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	27164

Prep Batch: 27164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2387-61	B-45	Total/NA	Solid	5035	
890-2387-62	B-46	Total/NA	Solid	5035	
890-2387-63	B-47	Total/NA	Solid	5035	
MB 880-27164/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-27164/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-27164/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 27190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2387-1	W-1	Total/NA	Solid	5035	
890-2387-2	W-2	Total/NA	Solid	5035	
890-2387-3	W-3	Total/NA	Solid	5035	
890-2387-4	W-4	Total/NA	Solid	5035	
890-2387-5	W-5	Total/NA	Solid	5035	
890-2387-6	W-6	Total/NA	Solid	5035	
890-2387-7	W-7	Total/NA	Solid	5035	
890-2387-8	W-8	Total/NA	Solid	5035	
890-2387-9	W-9	Total/NA	Solid	5035	
890-2387-10	W-10	Total/NA	Solid	5035	
890-2387-11	W-11	Total/NA	Solid	5035	
890-2387-12	W-12	Total/NA	Solid	5035	
890-2387-13	W-13	Total/NA	Solid	5035	
890-2387-14	IW-1	Total/NA	Solid	5035	
890-2387-15	B-1	Total/NA	Solid	5035	
890-2387-16	B-2	Total/NA	Solid	5035	
890-2387-17	B-3	Total/NA	Solid	5035	
890-2387-18	B-4	Total/NA	Solid	5035	
890-2387-19	B-5	Total/NA	Solid	5035	
890-2387-20	B-6	Total/NA	Solid	5035	
MB 880-27190/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-27190/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-27190/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2387-1 MS	W-1	Total/NA	Solid	5035	
890-2387-1 MSD	W-1	Total/NA	Solid	5035	

Prep Batch: 27192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2387-21	B-7	Total/NA	Solid	5035	
890-2387-22	B-8	Total/NA	Solid	5035	
890-2387-23	B-9	Total/NA	Solid	5035	
890-2387-24	B-10	Total/NA	Solid	5035	
890-2387-25	B-11	Total/NA	Solid	5035	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

GC VOA (Continued)

Prep Batch: 27192 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2387-26	B-12	Total/NA	Solid	5035	
890-2387-27	B-13	Total/NA	Solid	5035	
890-2387-28	B-14	Total/NA	Solid	5035	
890-2387-29	B-15	Total/NA	Solid	5035	
890-2387-30	B-16	Total/NA	Solid	5035	
MB 880-27192/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-27192/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-27192/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2387-21 MS	B-7	Total/NA	Solid	5035	
890-2387-21 MSD	B-7	Total/NA	Solid	5035	

Prep Batch: 27201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2387-41	B-27	Total/NA	Solid	5035	
890-2387-42	B-28	Total/NA	Solid	5035	
890-2387-43	B-29	Total/NA	Solid	5035	
890-2387-44	B-30	Total/NA	Solid	5035	
890-2387-45	B-31	Total/NA	Solid	5035	
890-2387-46	B-32	Total/NA	Solid	5035	
890-2387-47	B-33	Total/NA	Solid	5035	
890-2387-48	B-34	Total/NA	Solid	5035	
890-2387-49	B-35	Total/NA	Solid	5035	
890-2387-50	B-36	Total/NA	Solid	5035	
890-2387-51	R-1	Total/NA	Solid	5035	
890-2387-52	R-2	Total/NA	Solid	5035	
890-2387-53	B-37	Total/NA	Solid	5035	
890-2387-54	B-38	Total/NA	Solid	5035	
890-2387-55	B-39	Total/NA	Solid	5035	
890-2387-56	B-40	Total/NA	Solid	5035	
890-2387-57	B-41	Total/NA	Solid	5035	
890-2387-58	B-42	Total/NA	Solid	5035	
890-2387-59	B-43	Total/NA	Solid	5035	
890-2387-60	B-44	Total/NA	Solid	5035	
MB 880-27201/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-27201/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-27201/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2387-41 MS	B-27	Total/NA	Solid	5035	
890-2387-41 MSD	B-27	Total/NA	Solid	5035	

Prep Batch: 27259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2387-31	B-17	Total/NA	Solid	5035	
MB 880-27259/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-27259/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-27259/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 27291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2387-1	W-1	Total/NA	Solid	Total BTEX	
890-2387-2	W-2	Total/NA	Solid	Total BTEX	
890-2387-3	W-3	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

GC VOA (Continued)

Analysis Batch: 27291 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2387-4	W-4	Total/NA	Solid	Total BTEX	
890-2387-5	W-5	Total/NA	Solid	Total BTEX	
890-2387-6	W-6	Total/NA	Solid	Total BTEX	
890-2387-7	W-7	Total/NA	Solid	Total BTEX	
890-2387-8	W-8	Total/NA	Solid	Total BTEX	
890-2387-9	W-9	Total/NA	Solid	Total BTEX	
890-2387-10	W-10	Total/NA	Solid	Total BTEX	
890-2387-11	W-11	Total/NA	Solid	Total BTEX	
890-2387-12	W-12	Total/NA	Solid	Total BTEX	
890-2387-13	W-13	Total/NA	Solid	Total BTEX	
890-2387-14	IW-1	Total/NA	Solid	Total BTEX	
890-2387-15	B-1	Total/NA	Solid	Total BTEX	
890-2387-16	B-2	Total/NA	Solid	Total BTEX	
890-2387-17	B-3	Total/NA	Solid	Total BTEX	
890-2387-18	B-4	Total/NA	Solid	Total BTEX	
890-2387-19	B-5	Total/NA	Solid	Total BTEX	
890-2387-20	B-6	Total/NA	Solid	Total BTEX	
890-2387-21	B-7	Total/NA	Solid	Total BTEX	
890-2387-22	B-8	Total/NA	Solid	Total BTEX	
890-2387-23	B-9	Total/NA	Solid	Total BTEX	
890-2387-24	B-10	Total/NA	Solid	Total BTEX	
890-2387-25	B-11	Total/NA	Solid	Total BTEX	
890-2387-26	B-12	Total/NA	Solid	Total BTEX	
890-2387-27	B-13	Total/NA	Solid	Total BTEX	
890-2387-28	B-14	Total/NA	Solid	Total BTEX	
890-2387-29	B-15	Total/NA	Solid	Total BTEX	
890-2387-30	B-16	Total/NA	Solid	Total BTEX	
890-2387-31	B-17	Total/NA	Solid	Total BTEX	
890-2387-32	B-18	Total/NA	Solid	Total BTEX	
890-2387-33	B-19	Total/NA	Solid	Total BTEX	
890-2387-34	B-20	Total/NA	Solid	Total BTEX	
890-2387-35	B-21	Total/NA	Solid	Total BTEX	
890-2387-36	B-22	Total/NA	Solid	Total BTEX	
890-2387-37	B-23	Total/NA	Solid	Total BTEX	
890-2387-38	B-24	Total/NA	Solid	Total BTEX	
890-2387-39	B-25	Total/NA	Solid	Total BTEX	
890-2387-40	B-26	Total/NA	Solid	Total BTEX	
890-2387-41	B-27	Total/NA	Solid	Total BTEX	
890-2387-42	B-28	Total/NA	Solid	Total BTEX	
890-2387-43	B-29	Total/NA	Solid	Total BTEX	
890-2387-44	B-30	Total/NA	Solid	Total BTEX	
890-2387-45	B-31	Total/NA	Solid	Total BTEX	
890-2387-46	B-32	Total/NA	Solid	Total BTEX	
890-2387-47	B-33	Total/NA	Solid	Total BTEX	
890-2387-48	B-34	Total/NA	Solid	Total BTEX	
890-2387-49	B-35	Total/NA	Solid	Total BTEX	
890-2387-50	B-36	Total/NA	Solid	Total BTEX	
890-2387-51	R-1	Total/NA	Solid	Total BTEX	
890-2387-52	R-2	Total/NA	Solid	Total BTEX	
890-2387-53	B-37	Total/NA	Solid	Total BTEX	
890-2387-54	B-38	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

GC VOA (Continued)

Analysis Batch: 27291 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2387-55	B-39	Total/NA	Solid	Total BTEX	
890-2387-56	B-40	Total/NA	Solid	Total BTEX	
890-2387-57	B-41	Total/NA	Solid	Total BTEX	
890-2387-58	B-42	Total/NA	Solid	Total BTEX	
890-2387-59	B-43	Total/NA	Solid	Total BTEX	
890-2387-60	B-44	Total/NA	Solid	Total BTEX	
890-2387-61	B-45	Total/NA	Solid	Total BTEX	
890-2387-62	B-46	Total/NA	Solid	Total BTEX	
890-2387-63	B-47	Total/NA	Solid	Total BTEX	

Prep Batch: 27306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-27306/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-27306/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-27306/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 27334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2387-21	B-7	Total/NA	Solid	8021B	27192
890-2387-22	B-8	Total/NA	Solid	8021B	27192
890-2387-23	B-9	Total/NA	Solid	8021B	27192
890-2387-24	B-10	Total/NA	Solid	8021B	27192
890-2387-25	B-11	Total/NA	Solid	8021B	27192
890-2387-26	B-12	Total/NA	Solid	8021B	27192
890-2387-27	B-13	Total/NA	Solid	8021B	27192
890-2387-28	B-14	Total/NA	Solid	8021B	27192
890-2387-29	B-15	Total/NA	Solid	8021B	27192
890-2387-30	B-16	Total/NA	Solid	8021B	27192
MB 880-27192/5-A	Method Blank	Total/NA	Solid	8021B	27192
LCS 880-27192/1-A	Lab Control Sample	Total/NA	Solid	8021B	27192
LCSD 880-27192/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	27192
890-2387-21 MS	B-7	Total/NA	Solid	8021B	27192
890-2387-21 MSD	B-7	Total/NA	Solid	8021B	27192

Analysis Batch: 27336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2387-1	W-1	Total/NA	Solid	8021B	27190
890-2387-2	W-2	Total/NA	Solid	8021B	27190
890-2387-3	W-3	Total/NA	Solid	8021B	27190
890-2387-4	W-4	Total/NA	Solid	8021B	27190
890-2387-5	W-5	Total/NA	Solid	8021B	27190
890-2387-6	W-6	Total/NA	Solid	8021B	27190
890-2387-7	W-7	Total/NA	Solid	8021B	27190
890-2387-8	W-8	Total/NA	Solid	8021B	27190
890-2387-9	W-9	Total/NA	Solid	8021B	27190
890-2387-10	W-10	Total/NA	Solid	8021B	27190
890-2387-11	W-11	Total/NA	Solid	8021B	27190
890-2387-12	W-12	Total/NA	Solid	8021B	27190
890-2387-13	W-13	Total/NA	Solid	8021B	27190
890-2387-14	IW-1	Total/NA	Solid	8021B	27190
890-2387-15	B-1	Total/NA	Solid	8021B	27190

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

GC VOA (Continued)

Analysis Batch: 27336 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2387-16	B-2	Total/NA	Solid	8021B	27190
890-2387-17	B-3	Total/NA	Solid	8021B	27190
890-2387-18	B-4	Total/NA	Solid	8021B	27190
890-2387-19	B-5	Total/NA	Solid	8021B	27190
890-2387-20	B-6	Total/NA	Solid	8021B	27190
890-2387-41	B-27	Total/NA	Solid	8021B	27201
890-2387-42	B-28	Total/NA	Solid	8021B	27201
890-2387-43	B-29	Total/NA	Solid	8021B	27201
890-2387-44	B-30	Total/NA	Solid	8021B	27201
890-2387-45	B-31	Total/NA	Solid	8021B	27201
890-2387-46	B-32	Total/NA	Solid	8021B	27201
890-2387-47	B-33	Total/NA	Solid	8021B	27201
890-2387-48	B-34	Total/NA	Solid	8021B	27201
890-2387-49	B-35	Total/NA	Solid	8021B	27201
890-2387-50	B-36	Total/NA	Solid	8021B	27201
890-2387-51	R-1	Total/NA	Solid	8021B	27201
890-2387-52	R-2	Total/NA	Solid	8021B	27201
890-2387-53	B-37	Total/NA	Solid	8021B	27201
890-2387-54	B-38	Total/NA	Solid	8021B	27201
890-2387-55	B-39	Total/NA	Solid	8021B	27201
890-2387-56	B-40	Total/NA	Solid	8021B	27201
890-2387-57	B-41	Total/NA	Solid	8021B	27201
890-2387-58	B-42	Total/NA	Solid	8021B	27201
890-2387-59	B-43	Total/NA	Solid	8021B	27201
890-2387-60	B-44	Total/NA	Solid	8021B	27201
MB 880-27190/5-A	Method Blank	Total/NA	Solid	8021B	27190
MB 880-27201/5-A	Method Blank	Total/NA	Solid	8021B	27201
LCS 880-27190/1-A	Lab Control Sample	Total/NA	Solid	8021B	27190
LCS 880-27201/1-A	Lab Control Sample	Total/NA	Solid	8021B	27201
LCSD 880-27190/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	27190
LCSD 880-27201/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	27201
890-2387-1 MS	W-1	Total/NA	Solid	8021B	27190
890-2387-1 MSD	W-1	Total/NA	Solid	8021B	27190
890-2387-41 MS	B-27	Total/NA	Solid	8021B	27201
890-2387-41 MSD	B-27	Total/NA	Solid	8021B	27201

Prep Batch: 27360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2387-32	B-18	Total/NA	Solid	5035	
890-2387-33	B-19	Total/NA	Solid	5035	
890-2387-34	B-20	Total/NA	Solid	5035	
890-2387-35	B-21	Total/NA	Solid	5035	
890-2387-36	B-22	Total/NA	Solid	5035	
890-2387-37	B-23	Total/NA	Solid	5035	
890-2387-38	B-24	Total/NA	Solid	5035	
890-2387-39	B-25	Total/NA	Solid	5035	
890-2387-40	B-26	Total/NA	Solid	5035	
MB 880-27360/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-27360/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-27360/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

GC VOA

Analysis Batch: 27440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2387-31	B-17	Total/NA	Solid	8021B	27259
MB 880-27259/5-A	Method Blank	Total/NA	Solid	8021B	27259
MB 880-27306/5-A	Method Blank	Total/NA	Solid	8021B	27306
LCS 880-27259/1-A	Lab Control Sample	Total/NA	Solid	8021B	27259
LCS 880-27306/1-A	Lab Control Sample	Total/NA	Solid	8021B	27306
LCSD 880-27259/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	27259
LCSD 880-27306/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	27306

Analysis Batch: 27442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2387-32	B-18	Total/NA	Solid	8021B	27360
890-2387-33	B-19	Total/NA	Solid	8021B	27360
890-2387-34	B-20	Total/NA	Solid	8021B	27360
890-2387-35	B-21	Total/NA	Solid	8021B	27360
890-2387-36	B-22	Total/NA	Solid	8021B	27360
890-2387-37	B-23	Total/NA	Solid	8021B	27360
890-2387-38	B-24	Total/NA	Solid	8021B	27360
890-2387-39	B-25	Total/NA	Solid	8021B	27360
890-2387-40	B-26	Total/NA	Solid	8021B	27360
MB 880-27360/5-A	Method Blank	Total/NA	Solid	8021B	27360
MB 880-27445/5-A	Method Blank	Total/NA	Solid	8021B	27445
LCS 880-27360/1-A	Lab Control Sample	Total/NA	Solid	8021B	27360
LCSD 880-27360/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	27360

Prep Batch: 27445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-27445/5-A	Method Blank	Total/NA	Solid	5035	

GC Semi VOA

Analysis Batch: 27127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2387-61	B-45	Total/NA	Solid	8015B NM	27170
890-2387-62	B-46	Total/NA	Solid	8015B NM	27170
890-2387-63	B-47	Total/NA	Solid	8015B NM	27170
MB 880-27170/1-A	Method Blank	Total/NA	Solid	8015B NM	27170
LCS 880-27170/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	27170
LCSD 880-27170/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	27170
890-2387-61 MS	B-45	Total/NA	Solid	8015B NM	27170
890-2387-61 MSD	B-45	Total/NA	Solid	8015B NM	27170

Prep Batch: 27170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2387-61	B-45	Total/NA	Solid	8015NM Prep	
890-2387-62	B-46	Total/NA	Solid	8015NM Prep	
890-2387-63	B-47	Total/NA	Solid	8015NM Prep	
MB 880-27170/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-27170/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-27170/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2387-61 MS	B-45	Total/NA	Solid	8015NM Prep	
890-2387-61 MSD	B-45	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

GC Semi VOA

Prep Batch: 27203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2387-1	W-1	Total/NA	Solid	8015NM Prep	
890-2387-2	W-2	Total/NA	Solid	8015NM Prep	
890-2387-3	W-3	Total/NA	Solid	8015NM Prep	
890-2387-4	W-4	Total/NA	Solid	8015NM Prep	
890-2387-5	W-5	Total/NA	Solid	8015NM Prep	
890-2387-6	W-6	Total/NA	Solid	8015NM Prep	
890-2387-7	W-7	Total/NA	Solid	8015NM Prep	
890-2387-8	W-8	Total/NA	Solid	8015NM Prep	
890-2387-9	W-9	Total/NA	Solid	8015NM Prep	
890-2387-10	W-10	Total/NA	Solid	8015NM Prep	
890-2387-11	W-11	Total/NA	Solid	8015NM Prep	
890-2387-12	W-12	Total/NA	Solid	8015NM Prep	
890-2387-13	W-13	Total/NA	Solid	8015NM Prep	
890-2387-14	IW-1	Total/NA	Solid	8015NM Prep	
890-2387-15	B-1	Total/NA	Solid	8015NM Prep	
890-2387-16	B-2	Total/NA	Solid	8015NM Prep	
890-2387-17	B-3	Total/NA	Solid	8015NM Prep	
890-2387-18	B-4	Total/NA	Solid	8015NM Prep	
890-2387-19	B-5	Total/NA	Solid	8015NM Prep	
890-2387-20	B-6	Total/NA	Solid	8015NM Prep	
MB 880-27203/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-27203/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-27203/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2387-1 MS	W-1	Total/NA	Solid	8015NM Prep	
890-2387-1 MSD	W-1	Total/NA	Solid	8015NM Prep	

Prep Batch: 27209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2387-41	B-27	Total/NA	Solid	8015NM Prep	
890-2387-42	B-28	Total/NA	Solid	8015NM Prep	
890-2387-43	B-29	Total/NA	Solid	8015NM Prep	
890-2387-44	B-30	Total/NA	Solid	8015NM Prep	
890-2387-45	B-31	Total/NA	Solid	8015NM Prep	
890-2387-46	B-32	Total/NA	Solid	8015NM Prep	
890-2387-47	B-33	Total/NA	Solid	8015NM Prep	
890-2387-48	B-34	Total/NA	Solid	8015NM Prep	
890-2387-49	B-35	Total/NA	Solid	8015NM Prep	
890-2387-50	B-36	Total/NA	Solid	8015NM Prep	
890-2387-51	R-1	Total/NA	Solid	8015NM Prep	
890-2387-52	R-2	Total/NA	Solid	8015NM Prep	
890-2387-53	B-37	Total/NA	Solid	8015NM Prep	
890-2387-54	B-38	Total/NA	Solid	8015NM Prep	
890-2387-55	B-39	Total/NA	Solid	8015NM Prep	
890-2387-56	B-40	Total/NA	Solid	8015NM Prep	
890-2387-57	B-41	Total/NA	Solid	8015NM Prep	
890-2387-58	B-42	Total/NA	Solid	8015NM Prep	
890-2387-59	B-43	Total/NA	Solid	8015NM Prep	
890-2387-60	B-44	Total/NA	Solid	8015NM Prep	
MB 880-27209/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-27209/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-27209/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

GC Semi VOA (Continued)

Prep Batch: 27209 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2387-41 MS	B-27	Total/NA	Solid	8015NM Prep	
890-2387-41 MSD	B-27	Total/NA	Solid	8015NM Prep	

Analysis Batch: 27237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2387-1	W-1	Total/NA	Solid	8015B NM	27203
890-2387-2	W-2	Total/NA	Solid	8015B NM	27203
890-2387-3	W-3	Total/NA	Solid	8015B NM	27203
890-2387-4	W-4	Total/NA	Solid	8015B NM	27203
890-2387-5	W-5	Total/NA	Solid	8015B NM	27203
890-2387-6	W-6	Total/NA	Solid	8015B NM	27203
890-2387-7	W-7	Total/NA	Solid	8015B NM	27203
890-2387-8	W-8	Total/NA	Solid	8015B NM	27203
890-2387-9	W-9	Total/NA	Solid	8015B NM	27203
890-2387-10	W-10	Total/NA	Solid	8015B NM	27203
890-2387-11	W-11	Total/NA	Solid	8015B NM	27203
890-2387-12	W-12	Total/NA	Solid	8015B NM	27203
890-2387-13	W-13	Total/NA	Solid	8015B NM	27203
890-2387-14	IW-1	Total/NA	Solid	8015B NM	27203
890-2387-15	B-1	Total/NA	Solid	8015B NM	27203
890-2387-16	B-2	Total/NA	Solid	8015B NM	27203
890-2387-17	B-3	Total/NA	Solid	8015B NM	27203
890-2387-18	B-4	Total/NA	Solid	8015B NM	27203
890-2387-19	B-5	Total/NA	Solid	8015B NM	27203
890-2387-20	B-6	Total/NA	Solid	8015B NM	27203
MB 880-27203/1-A	Method Blank	Total/NA	Solid	8015B NM	27203
LCS 880-27203/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	27203
LCSD 880-27203/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	27203
890-2387-1 MS	W-1	Total/NA	Solid	8015B NM	27203
890-2387-1 MSD	W-1	Total/NA	Solid	8015B NM	27203

Analysis Batch: 27261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2387-1	W-1	Total/NA	Solid	8015 NM	
890-2387-2	W-2	Total/NA	Solid	8015 NM	
890-2387-3	W-3	Total/NA	Solid	8015 NM	
890-2387-4	W-4	Total/NA	Solid	8015 NM	
890-2387-5	W-5	Total/NA	Solid	8015 NM	
890-2387-6	W-6	Total/NA	Solid	8015 NM	
890-2387-7	W-7	Total/NA	Solid	8015 NM	
890-2387-8	W-8	Total/NA	Solid	8015 NM	
890-2387-9	W-9	Total/NA	Solid	8015 NM	
890-2387-10	W-10	Total/NA	Solid	8015 NM	
890-2387-11	W-11	Total/NA	Solid	8015 NM	
890-2387-12	W-12	Total/NA	Solid	8015 NM	
890-2387-13	W-13	Total/NA	Solid	8015 NM	
890-2387-14	IW-1	Total/NA	Solid	8015 NM	
890-2387-15	B-1	Total/NA	Solid	8015 NM	
890-2387-16	B-2	Total/NA	Solid	8015 NM	
890-2387-17	B-3	Total/NA	Solid	8015 NM	
890-2387-18	B-4	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

GC Semi VOA (Continued)

Analysis Batch: 27261 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2387-19	B-5	Total/NA	Solid	8015 NM	
890-2387-20	B-6	Total/NA	Solid	8015 NM	
890-2387-21	B-7	Total/NA	Solid	8015 NM	
890-2387-22	B-8	Total/NA	Solid	8015 NM	
890-2387-23	B-9	Total/NA	Solid	8015 NM	
890-2387-24	B-10	Total/NA	Solid	8015 NM	
890-2387-25	B-11	Total/NA	Solid	8015 NM	
890-2387-26	B-12	Total/NA	Solid	8015 NM	
890-2387-27	B-13	Total/NA	Solid	8015 NM	
890-2387-28	B-14	Total/NA	Solid	8015 NM	
890-2387-29	B-15	Total/NA	Solid	8015 NM	
890-2387-30	B-16	Total/NA	Solid	8015 NM	
890-2387-31	B-17	Total/NA	Solid	8015 NM	
890-2387-32	B-18	Total/NA	Solid	8015 NM	
890-2387-33	B-19	Total/NA	Solid	8015 NM	
890-2387-34	B-20	Total/NA	Solid	8015 NM	
890-2387-35	B-21	Total/NA	Solid	8015 NM	
890-2387-36	B-22	Total/NA	Solid	8015 NM	
890-2387-37	B-23	Total/NA	Solid	8015 NM	
890-2387-38	B-24	Total/NA	Solid	8015 NM	
890-2387-39	B-25	Total/NA	Solid	8015 NM	
890-2387-40	B-26	Total/NA	Solid	8015 NM	
890-2387-41	B-27	Total/NA	Solid	8015 NM	
890-2387-42	B-28	Total/NA	Solid	8015 NM	
890-2387-43	B-29	Total/NA	Solid	8015 NM	
890-2387-44	B-30	Total/NA	Solid	8015 NM	
890-2387-45	B-31	Total/NA	Solid	8015 NM	
890-2387-46	B-32	Total/NA	Solid	8015 NM	
890-2387-47	B-33	Total/NA	Solid	8015 NM	
890-2387-48	B-34	Total/NA	Solid	8015 NM	
890-2387-49	B-35	Total/NA	Solid	8015 NM	
890-2387-50	B-36	Total/NA	Solid	8015 NM	
890-2387-51	R-1	Total/NA	Solid	8015 NM	
890-2387-52	R-2	Total/NA	Solid	8015 NM	
890-2387-53	B-37	Total/NA	Solid	8015 NM	
890-2387-54	B-38	Total/NA	Solid	8015 NM	
890-2387-55	B-39	Total/NA	Solid	8015 NM	
890-2387-56	B-40	Total/NA	Solid	8015 NM	
890-2387-57	B-41	Total/NA	Solid	8015 NM	
890-2387-58	B-42	Total/NA	Solid	8015 NM	
890-2387-59	B-43	Total/NA	Solid	8015 NM	
890-2387-60	B-44	Total/NA	Solid	8015 NM	
890-2387-61	B-45	Total/NA	Solid	8015 NM	
890-2387-62	B-46	Total/NA	Solid	8015 NM	
890-2387-63	B-47	Total/NA	Solid	8015 NM	

Prep Batch: 27292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2387-21	B-7	Total/NA	Solid	8015NM Prep	
890-2387-22	B-8	Total/NA	Solid	8015NM Prep	
890-2387-23	B-9	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

GC Semi VOA (Continued)

Prep Batch: 27292 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2387-24	B-10	Total/NA	Solid	8015NM Prep	
890-2387-25	B-11	Total/NA	Solid	8015NM Prep	
890-2387-26	B-12	Total/NA	Solid	8015NM Prep	
890-2387-27	B-13	Total/NA	Solid	8015NM Prep	
890-2387-28	B-14	Total/NA	Solid	8015NM Prep	
890-2387-29	B-15	Total/NA	Solid	8015NM Prep	
890-2387-30	B-16	Total/NA	Solid	8015NM Prep	
890-2387-31	B-17	Total/NA	Solid	8015NM Prep	
890-2387-32	B-18	Total/NA	Solid	8015NM Prep	
890-2387-33	B-19	Total/NA	Solid	8015NM Prep	
890-2387-34	B-20	Total/NA	Solid	8015NM Prep	
890-2387-35	B-21	Total/NA	Solid	8015NM Prep	
890-2387-36	B-22	Total/NA	Solid	8015NM Prep	
890-2387-37	B-23	Total/NA	Solid	8015NM Prep	
890-2387-38	B-24	Total/NA	Solid	8015NM Prep	
890-2387-39	B-25	Total/NA	Solid	8015NM Prep	
890-2387-40	B-26	Total/NA	Solid	8015NM Prep	
MB 880-27292/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-27292/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-27292/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2387-21 MS	B-7	Total/NA	Solid	8015NM Prep	
890-2387-21 MSD	B-7	Total/NA	Solid	8015NM Prep	

Analysis Batch: 27330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2387-21	B-7	Total/NA	Solid	8015B NM	27292
890-2387-22	B-8	Total/NA	Solid	8015B NM	27292
890-2387-23	B-9	Total/NA	Solid	8015B NM	27292
890-2387-24	B-10	Total/NA	Solid	8015B NM	27292
890-2387-25	B-11	Total/NA	Solid	8015B NM	27292
890-2387-26	B-12	Total/NA	Solid	8015B NM	27292
890-2387-27	B-13	Total/NA	Solid	8015B NM	27292
890-2387-28	B-14	Total/NA	Solid	8015B NM	27292
890-2387-29	B-15	Total/NA	Solid	8015B NM	27292
890-2387-30	B-16	Total/NA	Solid	8015B NM	27292
890-2387-31	B-17	Total/NA	Solid	8015B NM	27292
890-2387-32	B-18	Total/NA	Solid	8015B NM	27292
890-2387-33	B-19	Total/NA	Solid	8015B NM	27292
890-2387-34	B-20	Total/NA	Solid	8015B NM	27292
890-2387-35	B-21	Total/NA	Solid	8015B NM	27292
890-2387-36	B-22	Total/NA	Solid	8015B NM	27292
890-2387-37	B-23	Total/NA	Solid	8015B NM	27292
890-2387-38	B-24	Total/NA	Solid	8015B NM	27292
890-2387-39	B-25	Total/NA	Solid	8015B NM	27292
890-2387-40	B-26	Total/NA	Solid	8015B NM	27292
MB 880-27292/1-A	Method Blank	Total/NA	Solid	8015B NM	27292
LCS 880-27292/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	27292
LCSD 880-27292/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	27292
890-2387-21 MS	B-7	Total/NA	Solid	8015B NM	27292
890-2387-21 MSD	B-7	Total/NA	Solid	8015B NM	27292

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

GC Semi VOA

Analysis Batch: 27340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2387-41	B-27	Total/NA	Solid	8015B NM	27209
890-2387-42	B-28	Total/NA	Solid	8015B NM	27209
890-2387-43	B-29	Total/NA	Solid	8015B NM	27209
890-2387-44	B-30	Total/NA	Solid	8015B NM	27209
890-2387-45	B-31	Total/NA	Solid	8015B NM	27209
890-2387-46	B-32	Total/NA	Solid	8015B NM	27209
890-2387-47	B-33	Total/NA	Solid	8015B NM	27209
890-2387-48	B-34	Total/NA	Solid	8015B NM	27209
890-2387-49	B-35	Total/NA	Solid	8015B NM	27209
890-2387-50	B-36	Total/NA	Solid	8015B NM	27209
890-2387-51	R-1	Total/NA	Solid	8015B NM	27209
890-2387-52	R-2	Total/NA	Solid	8015B NM	27209
890-2387-53	B-37	Total/NA	Solid	8015B NM	27209
890-2387-54	B-38	Total/NA	Solid	8015B NM	27209
890-2387-55	B-39	Total/NA	Solid	8015B NM	27209
890-2387-56	B-40	Total/NA	Solid	8015B NM	27209
890-2387-57	B-41	Total/NA	Solid	8015B NM	27209
890-2387-58	B-42	Total/NA	Solid	8015B NM	27209
890-2387-59	B-43	Total/NA	Solid	8015B NM	27209
890-2387-60	B-44	Total/NA	Solid	8015B NM	27209
MB 880-27209/1-A	Method Blank	Total/NA	Solid	8015B NM	27209
LCS 880-27209/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	27209
LCSD 880-27209/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	27209
890-2387-41 MS	B-27	Total/NA	Solid	8015B NM	27209
890-2387-41 MSD	B-27	Total/NA	Solid	8015B NM	27209

HPLC/IC

Leach Batch: 27179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2387-1	W-1	Soluble	Solid	DI Leach	
890-2387-2	W-2	Soluble	Solid	DI Leach	
890-2387-3	W-3	Soluble	Solid	DI Leach	
890-2387-4	W-4	Soluble	Solid	DI Leach	
890-2387-5	W-5	Soluble	Solid	DI Leach	
890-2387-6	W-6	Soluble	Solid	DI Leach	
MB 880-27179/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-27179/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-27179/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 27181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2387-7	W-7	Soluble	Solid	DI Leach	
890-2387-8	W-8	Soluble	Solid	DI Leach	
890-2387-9	W-9	Soluble	Solid	DI Leach	
890-2387-10	W-10	Soluble	Solid	DI Leach	
890-2387-11	W-11	Soluble	Solid	DI Leach	
890-2387-13	W-13	Soluble	Solid	DI Leach	
890-2387-14	IW-1	Soluble	Solid	DI Leach	
890-2387-15	B-1	Soluble	Solid	DI Leach	
890-2387-16	B-2	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

HPLC/IC (Continued)

Leach Batch: 27181 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2387-17	B-3	Soluble	Solid	DI Leach	
890-2387-18	B-4	Soluble	Solid	DI Leach	
890-2387-19	B-5	Soluble	Solid	DI Leach	
MB 880-27181/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-27181/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-27181/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2387-7 MS	W-7	Soluble	Solid	DI Leach	
890-2387-7 MSD	W-7	Soluble	Solid	DI Leach	
890-2387-17 MS	B-3	Soluble	Solid	DI Leach	
890-2387-17 MSD	B-3	Soluble	Solid	DI Leach	

Leach Batch: 27182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2387-27	B-13	Soluble	Solid	DI Leach	
890-2387-28	B-14	Soluble	Solid	DI Leach	
890-2387-29	B-15	Soluble	Solid	DI Leach	
890-2387-30	B-16	Soluble	Solid	DI Leach	
890-2387-31	B-17	Soluble	Solid	DI Leach	
890-2387-32	B-18	Soluble	Solid	DI Leach	
890-2387-33	B-19	Soluble	Solid	DI Leach	
890-2387-34	B-20	Soluble	Solid	DI Leach	
890-2387-35	B-21	Soluble	Solid	DI Leach	
890-2387-36	B-22	Soluble	Solid	DI Leach	
890-2387-37	B-23	Soluble	Solid	DI Leach	
890-2387-38	B-24	Soluble	Solid	DI Leach	
890-2387-39	B-25	Soluble	Solid	DI Leach	
890-2387-40	B-26	Soluble	Solid	DI Leach	
890-2387-41	B-27	Soluble	Solid	DI Leach	
890-2387-42	B-28	Soluble	Solid	DI Leach	
890-2387-43	B-29	Soluble	Solid	DI Leach	
890-2387-44	B-30	Soluble	Solid	DI Leach	
890-2387-45	B-31	Soluble	Solid	DI Leach	
890-2387-46	B-32	Soluble	Solid	DI Leach	
MB 880-27182/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-27182/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-27182/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2387-27 MS	B-13	Soluble	Solid	DI Leach	
890-2387-27 MSD	B-13	Soluble	Solid	DI Leach	
890-2387-37 MS	B-23	Soluble	Solid	DI Leach	
890-2387-37 MSD	B-23	Soluble	Solid	DI Leach	

Leach Batch: 27185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2387-47	B-33	Soluble	Solid	DI Leach	
890-2387-48	B-34	Soluble	Solid	DI Leach	
890-2387-49	B-35	Soluble	Solid	DI Leach	
890-2387-50	B-36	Soluble	Solid	DI Leach	
890-2387-51	R-1	Soluble	Solid	DI Leach	
890-2387-52	R-2	Soluble	Solid	DI Leach	
890-2387-53	B-37	Soluble	Solid	DI Leach	
890-2387-54	B-38	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

HPLC/IC (Continued)

Leach Batch: 27185 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2387-55	B-39	Soluble	Solid	DI Leach	
890-2387-56	B-40	Soluble	Solid	DI Leach	
890-2387-57	B-41	Soluble	Solid	DI Leach	
890-2387-58	B-42	Soluble	Solid	DI Leach	
890-2387-59	B-43	Soluble	Solid	DI Leach	
890-2387-60	B-44	Soluble	Solid	DI Leach	
890-2387-61	B-45	Soluble	Solid	DI Leach	
890-2387-62	B-46	Soluble	Solid	DI Leach	
890-2387-63	B-47	Soluble	Solid	DI Leach	
MB 880-27185/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-27185/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-27185/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2387-47 MS	B-33	Soluble	Solid	DI Leach	
890-2387-47 MSD	B-33	Soluble	Solid	DI Leach	
890-2387-57 MS	B-41	Soluble	Solid	DI Leach	
890-2387-57 MSD	B-41	Soluble	Solid	DI Leach	

Analysis Batch: 27395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2387-1	W-1	Soluble	Solid	300.0	27179
890-2387-2	W-2	Soluble	Solid	300.0	27179
890-2387-3	W-3	Soluble	Solid	300.0	27179
890-2387-4	W-4	Soluble	Solid	300.0	27179
890-2387-5	W-5	Soluble	Solid	300.0	27179
890-2387-6	W-6	Soluble	Solid	300.0	27179
MB 880-27179/1-A	Method Blank	Soluble	Solid	300.0	27179
LCS 880-27179/2-A	Lab Control Sample	Soluble	Solid	300.0	27179
LCSD 880-27179/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	27179

Analysis Batch: 27455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2387-7	W-7	Soluble	Solid	300.0	27181
890-2387-8	W-8	Soluble	Solid	300.0	27181
890-2387-9	W-9	Soluble	Solid	300.0	27181
890-2387-10	W-10	Soluble	Solid	300.0	27181
890-2387-11	W-11	Soluble	Solid	300.0	27181
890-2387-13	W-13	Soluble	Solid	300.0	27181
890-2387-14	IW-1	Soluble	Solid	300.0	27181
890-2387-15	B-1	Soluble	Solid	300.0	27181
890-2387-16	B-2	Soluble	Solid	300.0	27181
890-2387-17	B-3	Soluble	Solid	300.0	27181
890-2387-18	B-4	Soluble	Solid	300.0	27181
890-2387-19	B-5	Soluble	Solid	300.0	27181
MB 880-27181/1-A	Method Blank	Soluble	Solid	300.0	27181
LCS 880-27181/2-A	Lab Control Sample	Soluble	Solid	300.0	27181
LCSD 880-27181/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	27181
890-2387-7 MS	W-7	Soluble	Solid	300.0	27181
890-2387-7 MSD	W-7	Soluble	Solid	300.0	27181
890-2387-17 MS	B-3	Soluble	Solid	300.0	27181
890-2387-17 MSD	B-3	Soluble	Solid	300.0	27181

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

HPLC/IC

Analysis Batch: 27456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2387-27	B-13	Soluble	Solid	300.0	27182
890-2387-28	B-14	Soluble	Solid	300.0	27182
890-2387-29	B-15	Soluble	Solid	300.0	27182
890-2387-30	B-16	Soluble	Solid	300.0	27182
890-2387-31	B-17	Soluble	Solid	300.0	27182
890-2387-32	B-18	Soluble	Solid	300.0	27182
890-2387-33	B-19	Soluble	Solid	300.0	27182
890-2387-34	B-20	Soluble	Solid	300.0	27182
890-2387-35	B-21	Soluble	Solid	300.0	27182
890-2387-36	B-22	Soluble	Solid	300.0	27182
890-2387-37	B-23	Soluble	Solid	300.0	27182
890-2387-38	B-24	Soluble	Solid	300.0	27182
890-2387-39	B-25	Soluble	Solid	300.0	27182
890-2387-40	B-26	Soluble	Solid	300.0	27182
890-2387-41	B-27	Soluble	Solid	300.0	27182
890-2387-42	B-28	Soluble	Solid	300.0	27182
890-2387-43	B-29	Soluble	Solid	300.0	27182
890-2387-44	B-30	Soluble	Solid	300.0	27182
890-2387-45	B-31	Soluble	Solid	300.0	27182
890-2387-46	B-32	Soluble	Solid	300.0	27182
MB 880-27182/1-A	Method Blank	Soluble	Solid	300.0	27182
LCS 880-27182/2-A	Lab Control Sample	Soluble	Solid	300.0	27182
LCSD 880-27182/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	27182
890-2387-27 MS	B-13	Soluble	Solid	300.0	27182
890-2387-27 MSD	B-13	Soluble	Solid	300.0	27182
890-2387-37 MS	B-23	Soluble	Solid	300.0	27182
890-2387-37 MSD	B-23	Soluble	Solid	300.0	27182

Analysis Batch: 27474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2387-47	B-33	Soluble	Solid	300.0	27185
890-2387-48	B-34	Soluble	Solid	300.0	27185
890-2387-49	B-35	Soluble	Solid	300.0	27185
890-2387-50	B-36	Soluble	Solid	300.0	27185
890-2387-51	R-1	Soluble	Solid	300.0	27185
890-2387-52	R-2	Soluble	Solid	300.0	27185
890-2387-53	B-37	Soluble	Solid	300.0	27185
890-2387-54	B-38	Soluble	Solid	300.0	27185
890-2387-55	B-39	Soluble	Solid	300.0	27185
890-2387-56	B-40	Soluble	Solid	300.0	27185
890-2387-57	B-41	Soluble	Solid	300.0	27185
890-2387-58	B-42	Soluble	Solid	300.0	27185
890-2387-59	B-43	Soluble	Solid	300.0	27185
890-2387-60	B-44	Soluble	Solid	300.0	27185
890-2387-61	B-45	Soluble	Solid	300.0	27185
890-2387-62	B-46	Soluble	Solid	300.0	27185
890-2387-63	B-47	Soluble	Solid	300.0	27185
MB 880-27185/1-A	Method Blank	Soluble	Solid	300.0	27185
LCS 880-27185/2-A	Lab Control Sample	Soluble	Solid	300.0	27185
LCSD 880-27185/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	27185
890-2387-47 MS	B-33	Soluble	Solid	300.0	27185

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

HPLC/IC (Continued)

Analysis Batch: 27474 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2387-47 MSD	B-33	Soluble	Solid	300.0	27185
890-2387-57 MS	B-41	Soluble	Solid	300.0	27185
890-2387-57 MSD	B-41	Soluble	Solid	300.0	27185

Leach Batch: 27617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2387-12	W-12	Soluble	Solid	DI Leach	
890-2387-20	B-6	Soluble	Solid	DI Leach	
890-2387-21	B-7	Soluble	Solid	DI Leach	
890-2387-22	B-8	Soluble	Solid	DI Leach	
890-2387-23	B-9	Soluble	Solid	DI Leach	
890-2387-24	B-10	Soluble	Solid	DI Leach	
890-2387-25	B-11	Soluble	Solid	DI Leach	
890-2387-26	B-12	Soluble	Solid	DI Leach	
MB 880-27617/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-27617/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-27617/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2387-12 MS	W-12	Soluble	Solid	DI Leach	
890-2387-12 MSD	W-12	Soluble	Solid	DI Leach	

Analysis Batch: 27620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2387-12	W-12	Soluble	Solid	300.0	27617
890-2387-20	B-6	Soluble	Solid	300.0	27617
890-2387-21	B-7	Soluble	Solid	300.0	27617
890-2387-22	B-8	Soluble	Solid	300.0	27617
890-2387-23	B-9	Soluble	Solid	300.0	27617
890-2387-24	B-10	Soluble	Solid	300.0	27617
890-2387-25	B-11	Soluble	Solid	300.0	27617
890-2387-26	B-12	Soluble	Solid	300.0	27617
MB 880-27617/1-A	Method Blank	Soluble	Solid	300.0	27617
LCS 880-27617/2-A	Lab Control Sample	Soluble	Solid	300.0	27617
LCSD 880-27617/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	27617
890-2387-12 MS	W-12	Soluble	Solid	300.0	27617
890-2387-12 MSD	W-12	Soluble	Solid	300.0	27617

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: W-1
Date Collected: 06/07/22 08:24
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-1
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	27190	06/09/22 12:42	EL	XEN MID
Total/NA	Analysis	8021B		1			27336	06/11/22 21:19	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27203	06/09/22 14:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27237	06/10/22 11:22	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	27179	06/09/22 12:12	CH	XEN MID
Soluble	Analysis	300.0		1			27395	06/13/22 22:13	CH	XEN MID

Client Sample ID: W-2
Date Collected: 06/07/22 08:27
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-2
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			5.04 g	5 mL	27190	06/09/22 12:42	EL	XEN MID
Total/NA	Analysis	8021B		1			27336	06/11/22 21:46	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27203	06/09/22 14:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27237	06/10/22 12:27	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	27179	06/09/22 12:12	CH	XEN MID
Soluble	Analysis	300.0		1			27395	06/14/22 11:47	CH	XEN MID

Client Sample ID: W-3
Date Collected: 06/07/22 08:32
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-3
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			5.01 g	5 mL	27190	06/09/22 12:42	EL	XEN MID
Total/NA	Analysis	8021B		1			27336	06/11/22 22:13	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27203	06/09/22 14:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27237	06/10/22 12:49	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	27179	06/09/22 12:12	CH	XEN MID
Soluble	Analysis	300.0		1			27395	06/14/22 11:55	CH	XEN MID

Client Sample ID: W-4
Date Collected: 06/07/22 08:37
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-4
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			5.05 g	5 mL	27190	06/09/22 12:42	EL	XEN MID
Total/NA	Analysis	8021B		1			27336	06/11/22 22:38	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: W-4
Date Collected: 06/07/22 08:37
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27203	06/09/22 14:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27237	06/10/22 13:10	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	27179	06/09/22 12:12	CH	XEN MID
Soluble	Analysis	300.0		1			27395	06/13/22 22:37	CH	XEN MID

Client Sample ID: W-5
Date Collected: 06/07/22 08:40
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-5
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			5.00 g	5 mL	27190	06/09/22 12:42	EL	XEN MID
Total/NA	Analysis	8021B		1			27336	06/11/22 23:04	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27203	06/09/22 14:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27237	06/10/22 13:32	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	27179	06/09/22 12:12	CH	XEN MID
Soluble	Analysis	300.0		5			27395	06/13/22 22:45	CH	XEN MID

Client Sample ID: W-6
Date Collected: 06/07/22 08:42
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-6
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			4.97 g	5 mL	27190	06/09/22 12:42	EL	XEN MID
Total/NA	Analysis	8021B		1			27336	06/11/22 23:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	27203	06/09/22 14:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27237	06/10/22 13:54	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	27179	06/09/22 12:12	CH	XEN MID
Soluble	Analysis	300.0		1			27395	06/13/22 22:53	CH	XEN MID

Client Sample ID: W-7
Date Collected: 06/07/22 08:44
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-7
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			5.05 g	5 mL	27190	06/09/22 12:42	EL	XEN MID
Total/NA	Analysis	8021B		1			27336	06/11/22 23:54	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27203	06/09/22 14:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27237	06/10/22 14:16	AJ	XEN MID

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: W-7

Date Collected: 06/07/22 08:44
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-7
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	27181	06/09/22 12:19	CH	XEN MID
Soluble	Analysis	300.0		1			27455	06/14/22 13:45	CH	XEN MID

Client Sample ID: W-8

Date Collected: 06/07/22 08:46
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-8
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			4.96 g	5 mL	27190	06/09/22 12:42	EL	XEN MID
Total/NA	Analysis	8021B		1			27336	06/12/22 00:20	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	27203	06/09/22 14:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27237	06/10/22 14:37	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	27181	06/09/22 12:19	CH	XEN MID
Soluble	Analysis	300.0		1			27455	06/14/22 14:08	CH	XEN MID

Client Sample ID: W-9

Date Collected: 06/07/22 08:47
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-9
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			4.95 g	5 mL	27190	06/09/22 12:42	EL	XEN MID
Total/NA	Analysis	8021B		1			27336	06/12/22 00:45	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27203	06/09/22 14:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27237	06/10/22 14:59	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	27181	06/09/22 12:19	CH	XEN MID
Soluble	Analysis	300.0		1			27455	06/14/22 14:16	CH	XEN MID

Client Sample ID: W-10

Date Collected: 06/07/22 08:50
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-10
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			4.98 g	5 mL	27190	06/09/22 12:42	EL	XEN MID
Total/NA	Analysis	8021B		1			27336	06/12/22 01:11	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27203	06/09/22 14:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27237	06/10/22 15:21	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	27181	06/09/22 12:19	CH	XEN MID
Soluble	Analysis	300.0		1			27455	06/14/22 14:24	CH	XEN MID

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: W-11
Date Collected: 06/07/22 08:55
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-11
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			4.95 g	5 mL	27190	06/09/22 12:42	EL	XEN MID
Total/NA	Analysis	8021B		1			27336	06/12/22 02:52	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27203	06/09/22 14:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27237	06/10/22 16:05	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	27181	06/09/22 12:19	CH	XEN MID
Soluble	Analysis	300.0		1			27455	06/14/22 14:32	CH	XEN MID

Client Sample ID: W-12
Date Collected: 06/07/22 09:00
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-12
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			5.05 g	5 mL	27190	06/09/22 12:42	EL	XEN MID
Total/NA	Analysis	8021B		1			27336	06/12/22 03:18	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	27203	06/09/22 14:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27237	06/10/22 16:27	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	27617	06/15/22 13:13	CH	XEN MID
Soluble	Analysis	300.0		1			27620	06/15/22 19:05	CH	XEN MID

Client Sample ID: W-13
Date Collected: 06/07/22 09:04
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-13
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			5.00 g	5 mL	27190	06/09/22 12:42	EL	XEN MID
Total/NA	Analysis	8021B		1			27336	06/12/22 03:43	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27203	06/09/22 14:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27237	06/10/22 16:48	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	27181	06/09/22 12:19	CH	XEN MID
Soluble	Analysis	300.0		5			27455	06/14/22 15:03	CH	XEN MID

Client Sample ID: IW-1
Date Collected: 06/07/22 09:07
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-14
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			4.95 g	5 mL	27190	06/09/22 12:42	EL	XEN MID
Total/NA	Analysis	8021B		1			27336	06/12/22 04:09	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: IW-1
Date Collected: 06/07/22 09:07
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27203	06/09/22 14:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27237	06/10/22 17:10	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	27181	06/09/22 12:19	CH	XEN MID
Soluble	Analysis	300.0		1			27455	06/14/22 15:11	CH	XEN MID

Client Sample ID: B-1
Date Collected: 06/07/22 10:34
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-15
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			4.98 g	5 mL	27190	06/09/22 12:42	EL	XEN MID
Total/NA	Analysis	8021B		1			27336	06/12/22 04:34	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27203	06/09/22 14:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27237	06/10/22 17:32	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	27181	06/09/22 12:19	CH	XEN MID
Soluble	Analysis	300.0		1			27455	06/14/22 15:19	CH	XEN MID

Client Sample ID: B-2
Date Collected: 06/07/22 10:38
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-16
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			4.96 g	5 mL	27190	06/09/22 12:42	EL	XEN MID
Total/NA	Analysis	8021B		1			27336	06/12/22 05:00	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	27203	06/09/22 14:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27237	06/10/22 17:54	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	27181	06/09/22 12:19	CH	XEN MID
Soluble	Analysis	300.0		1			27455	06/14/22 15:27	CH	XEN MID

Client Sample ID: B-3
Date Collected: 06/07/22 10:41
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-17
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	27190	06/09/22 12:42	EL	XEN MID
Total/NA	Analysis	8021B		1			27336	06/12/22 05:25	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	27203	06/09/22 14:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27237	06/10/22 18:15	AJ	XEN MID

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: B-3
Date Collected: 06/07/22 10:41
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-17
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			5.02 g	50 mL	27181	06/09/22 12:19	CH	XEN MID
Soluble	Analysis	300.0		1			27455	06/14/22 15:35	CH	XEN MID

Client Sample ID: B-4
Date Collected: 06/07/22 10:44
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-18
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			4.97 g	5 mL	27190	06/09/22 12:42	EL	XEN MID
Total/NA	Analysis	8021B		1			27336	06/12/22 05:51	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27203	06/09/22 14:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27237	06/10/22 18:37	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	27181	06/09/22 12:19	CH	XEN MID
Soluble	Analysis	300.0		1			27455	06/14/22 15:58	CH	XEN MID

Client Sample ID: B-5
Date Collected: 06/07/22 10:47
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-19
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			5.00 g	5 mL	27190	06/09/22 12:42	EL	XEN MID
Total/NA	Analysis	8021B		1			27336	06/12/22 06:16	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	27203	06/09/22 14:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27237	06/10/22 18:59	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	27181	06/09/22 12:19	CH	XEN MID
Soluble	Analysis	300.0		1			27455	06/14/22 16:06	CH	XEN MID

Client Sample ID: B-6
Date Collected: 06/07/22 10:50
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-20
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	27190	06/09/22 12:42	EL	XEN MID
Total/NA	Analysis	8021B		1			27336	06/12/22 06:42	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27203	06/09/22 14:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27237	06/10/22 19:21	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	27617	06/15/22 13:13	CH	XEN MID
Soluble	Analysis	300.0		1			27620	06/15/22 19:32	CH	XEN MID

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: B-7
Date Collected: 06/07/22 10:52
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-21
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	27192	06/09/22 13:00	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27334	06/11/22 21:00	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27292	06/10/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27330	06/11/22 12:00	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	27617	06/15/22 13:13	CH	XEN MID
Soluble	Analysis	300.0		1			27620	06/15/22 19:42	CH	XEN MID

Client Sample ID: B-8
Date Collected: 06/07/22 10:57
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-22
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			5.05 g	5 mL	27192	06/09/22 13:00	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27334	06/11/22 21:20	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27292	06/10/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27330	06/11/22 13:04	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	27617	06/15/22 13:13	CH	XEN MID
Soluble	Analysis	300.0		1			27620	06/15/22 19:51	CH	XEN MID

Client Sample ID: B-9
Date Collected: 06/07/22 11:00
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-23
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	27192	06/09/22 13:00	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27334	06/11/22 21:41	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27292	06/10/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27330	06/11/22 13:27	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	27617	06/15/22 13:13	CH	XEN MID
Soluble	Analysis	300.0		1			27620	06/15/22 20:00	CH	XEN MID

Client Sample ID: B-10
Date Collected: 06/07/22 11:05
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-24
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			4.95 g	5 mL	27192	06/09/22 13:00	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27334	06/11/22 22:02	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: B-10
Date Collected: 06/07/22 11:05
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27292	06/10/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27330	06/11/22 13:49	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	27617	06/15/22 13:13	CH	XEN MID
Soluble	Analysis	300.0		1			27620	06/15/22 20:28	CH	XEN MID

Client Sample ID: B-11
Date Collected: 06/07/22 11:07
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-25
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			4.97 g	5 mL	27192	06/09/22 13:00	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27334	06/11/22 22:23	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27292	06/10/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27330	06/11/22 14:11	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	27617	06/15/22 13:13	CH	XEN MID
Soluble	Analysis	300.0		1			27620	06/15/22 20:37	CH	XEN MID

Client Sample ID: B-12
Date Collected: 06/07/22 11:10
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-26
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			4.96 g	5 mL	27192	06/09/22 13:00	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27334	06/11/22 22:44	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27292	06/10/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27330	06/11/22 14:33	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	27617	06/15/22 13:13	CH	XEN MID
Soluble	Analysis	300.0		1			27620	06/16/22 11:49	CH	XEN MID

Client Sample ID: B-13
Date Collected: 06/07/22 11:13
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-27
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	27192	06/09/22 13:00	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27334	06/11/22 23:04	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27292	06/10/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27330	06/11/22 14:56	AJ	XEN MID

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: B-13
Date Collected: 06/07/22 11:13
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-27
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			5.04 g	50 mL	27182	06/09/22 12:22	CH	XEN MID
Soluble	Analysis	300.0		1			27456	06/13/22 20:40	CH	XEN MID

Client Sample ID: B-14
Date Collected: 06/07/22 11:15
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-28
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			5.00 g	5 mL	27192	06/09/22 13:00	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27334	06/11/22 23:25	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	27292	06/10/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27330	06/11/22 15:18	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	27182	06/09/22 12:22	CH	XEN MID
Soluble	Analysis	300.0		1			27456	06/14/22 12:29	CH	XEN MID

Client Sample ID: B-15
Date Collected: 06/07/22 11:38
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-29
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	27192	06/09/22 13:00	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27334	06/11/22 23:46	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27292	06/10/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27330	06/11/22 15:40	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	27182	06/09/22 12:22	CH	XEN MID
Soluble	Analysis	300.0		1			27456	06/13/22 21:17	CH	XEN MID

Client Sample ID: B-16
Date Collected: 06/07/22 11:41
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-30
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	27192	06/09/22 13:00	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27334	06/12/22 00:06	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	27292	06/10/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27330	06/11/22 16:02	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	27182	06/09/22 12:22	CH	XEN MID
Soluble	Analysis	300.0		1			27456	06/13/22 21:26	CH	XEN MID

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: B-17
Date Collected: 06/07/22 11:45
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-31
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	27259	06/10/22 12:19	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27440	06/14/22 10:43	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27292	06/10/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27330	06/11/22 16:46	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	27182	06/09/22 12:22	CH	XEN MID
Soluble	Analysis	300.0		1			27456	06/13/22 21:35	CH	XEN MID

Client Sample ID: B-18
Date Collected: 06/07/22 11:50
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-32
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			5.00 g	5 mL	27360	06/13/22 07:45	EL	XEN MID
Total/NA	Analysis	8021B		1	5 g	5 mL	27442	06/14/22 05:28	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27292	06/10/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27330	06/11/22 17:09	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	27182	06/09/22 12:22	CH	XEN MID
Soluble	Analysis	300.0		1			27456	06/14/22 12:38	CH	XEN MID

Client Sample ID: B-19
Date Collected: 06/07/22 11:54
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-33
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			4.97 g	5 mL	27360	06/13/22 07:45	EL	XEN MID
Total/NA	Analysis	8021B		1	5 g	5 mL	27442	06/14/22 05:48	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27292	06/10/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27330	06/11/22 17:31	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	27182	06/09/22 12:22	CH	XEN MID
Soluble	Analysis	300.0		1			27456	06/13/22 22:12	CH	XEN MID

Client Sample ID: B-20
Date Collected: 06/07/22 11:57
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-34
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	27360	06/13/22 07:45	EL	XEN MID
Total/NA	Analysis	8021B		1	5 g	5 mL	27442	06/14/22 06:09	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: B-20
Date Collected: 06/07/22 11:57
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-34
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27292	06/10/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27330	06/11/22 17:53	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	27182	06/09/22 12:22	CH	XEN MID
Soluble	Analysis	300.0		1			27456	06/13/22 22:21	CH	XEN MID

Client Sample ID: B-21
Date Collected: 06/07/22 12:00
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-35
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	27360	06/13/22 07:45	EL	XEN MID
Total/NA	Analysis	8021B		1	5 g	5 mL	27442	06/14/22 06:29	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27292	06/10/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27330	06/11/22 18:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	27182	06/09/22 12:22	CH	XEN MID
Soluble	Analysis	300.0		1			27456	06/13/22 22:30	CH	XEN MID

Client Sample ID: B-22
Date Collected: 06/07/22 12:04
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-36
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	27360	06/13/22 07:45	EL	XEN MID
Total/NA	Analysis	8021B		1	5 g	5 mL	27442	06/14/22 06:50	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27292	06/10/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27330	06/11/22 18:36	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	27182	06/09/22 12:22	CH	XEN MID
Soluble	Analysis	300.0		1			27456	06/13/22 22:40	CH	XEN MID

Client Sample ID: B-23
Date Collected: 06/07/22 12:05
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-37
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			4.95 g	5 mL	27360	06/13/22 07:45	EL	XEN MID
Total/NA	Analysis	8021B		1	5 g	5 mL	27442	06/14/22 07:10	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27292	06/10/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27330	06/11/22 18:58	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: B-23
Date Collected: 06/07/22 12:05
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-37
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	27182	06/09/22 12:22	CH	XEN MID
Soluble	Analysis	300.0		1			27456	06/13/22 22:49	CH	XEN MID

Client Sample ID: B-24
Date Collected: 06/07/22 12:10
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-38
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			4.98 g	5 mL	27360	06/13/22 07:45	EL	XEN MID
Total/NA	Analysis	8021B		1	5 g	5 mL	27442	06/14/22 07:31	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27292	06/10/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27330	06/11/22 19:20	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	27182	06/09/22 12:22	CH	XEN MID
Soluble	Analysis	300.0		1			27456	06/13/22 23:16	CH	XEN MID

Client Sample ID: B-25
Date Collected: 06/07/22 12:15
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-39
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			5.05 g	5 mL	27360	06/13/22 07:45	EL	XEN MID
Total/NA	Analysis	8021B		1	5 g	5 mL	27442	06/14/22 07:51	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27292	06/10/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27330	06/11/22 19:42	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	27182	06/09/22 12:22	CH	XEN MID
Soluble	Analysis	300.0		1			27456	06/13/22 23:26	CH	XEN MID

Client Sample ID: B-26
Date Collected: 06/07/22 12:20
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-40
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	27360	06/13/22 07:45	EL	XEN MID
Total/NA	Analysis	8021B		1	5 g	5 mL	27442	06/14/22 08:12	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27292	06/10/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27330	06/11/22 20:04	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	27182	06/09/22 12:22	CH	XEN MID
Soluble	Analysis	300.0		1			27456	06/13/22 23:53	CH	XEN MID

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: B-27
Date Collected: 06/07/22 12:24
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-41
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	27201	06/09/22 13:35	EL	XEN MID
Total/NA	Analysis	8021B		1			27336	06/12/22 10:42	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27209	06/09/22 15:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27340	06/12/22 13:42	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	27182	06/09/22 12:22	CH	XEN MID
Soluble	Analysis	300.0		1			27456	06/14/22 12:48	CH	XEN MID

Client Sample ID: B-28
Date Collected: 06/07/22 12:30
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-42
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	27201	06/09/22 13:35	EL	XEN MID
Total/NA	Analysis	8021B		1			27336	06/12/22 11:09	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27209	06/09/22 15:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27340	06/12/22 14:47	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	27182	06/09/22 12:22	CH	XEN MID
Soluble	Analysis	300.0		1			27456	06/14/22 12:57	CH	XEN MID

Client Sample ID: B-29
Date Collected: 06/07/22 13:20
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-43
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			5.05 g	5 mL	27201	06/09/22 13:35	EL	XEN MID
Total/NA	Analysis	8021B		1			27336	06/12/22 11:35	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27209	06/09/22 15:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27340	06/12/22 15:09	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	27182	06/09/22 12:22	CH	XEN MID
Soluble	Analysis	300.0		1			27456	06/14/22 13:06	CH	XEN MID

Client Sample ID: B-30
Date Collected: 06/07/22 13:24
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-44
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			5.00 g	5 mL	27201	06/09/22 13:35	EL	XEN MID
Total/NA	Analysis	8021B		1			27336	06/12/22 12:01	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: B-30
Date Collected: 06/07/22 13:24
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-44
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27209	06/09/22 15:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27340	06/12/22 15:31	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	27182	06/09/22 12:22	CH	XEN MID
Soluble	Analysis	300.0		1			27456	06/14/22 00:30	CH	XEN MID

Client Sample ID: B-31
Date Collected: 06/07/22 13:29
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-45
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	27201	06/09/22 13:35	EL	XEN MID
Total/NA	Analysis	8021B		1			27336	06/12/22 12:28	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27209	06/09/22 15:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27340	06/12/22 15:52	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	27182	06/09/22 12:22	CH	XEN MID
Soluble	Analysis	300.0		1			27456	06/14/22 00:39	CH	XEN MID

Client Sample ID: B-32
Date Collected: 06/07/22 13:37
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-46
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			5.00 g	5 mL	27201	06/09/22 13:35	EL	XEN MID
Total/NA	Analysis	8021B		1			27336	06/12/22 12:54	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	27209	06/09/22 15:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27340	06/12/22 16:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	27182	06/09/22 12:22	CH	XEN MID
Soluble	Analysis	300.0		1			27456	06/14/22 13:15	CH	XEN MID

Client Sample ID: B-33
Date Collected: 06/07/22 13:41
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-47
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	27201	06/09/22 13:35	EL	XEN MID
Total/NA	Analysis	8021B		1			27336	06/12/22 13:20	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27209	06/09/22 15:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27340	06/12/22 16:35	AJ	XEN MID

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: B-33
Date Collected: 06/07/22 13:41
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-47
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			4.99 g	50 mL	27185	06/09/22 12:25	CH	XEN MID
Soluble	Analysis	300.0		5			27474	06/14/22 07:34	CH	XEN MID

Client Sample ID: B-34
Date Collected: 06/07/22 13:45
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-48
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			4.97 g	5 mL	27201	06/09/22 13:35	EL	XEN MID
Total/NA	Analysis	8021B		1			27336	06/12/22 13:46	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27209	06/09/22 15:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27340	06/12/22 16:57	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	27185	06/09/22 12:25	CH	XEN MID
Soluble	Analysis	300.0		1			27474	06/14/22 08:02	CH	XEN MID

Client Sample ID: B-35
Date Collected: 06/07/22 13:48
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-49
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			4.96 g	5 mL	27201	06/09/22 13:35	EL	XEN MID
Total/NA	Analysis	8021B		1			27336	06/12/22 14:13	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27209	06/09/22 15:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27340	06/12/22 17:19	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	27185	06/09/22 12:25	CH	XEN MID
Soluble	Analysis	300.0		1			27474	06/14/22 08:11	CH	XEN MID

Client Sample ID: B-36
Date Collected: 06/07/22 13:52
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-50
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	27201	06/09/22 13:35	EL	XEN MID
Total/NA	Analysis	8021B		1			27336	06/12/22 14:39	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	27209	06/09/22 15:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27340	06/12/22 17:40	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	27185	06/09/22 12:25	CH	XEN MID
Soluble	Analysis	300.0		1			27474	06/14/22 08:20	CH	XEN MID

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: R-1
Date Collected: 06/07/22 14:00
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-51
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	27201	06/09/22 13:35	EL	XEN MID
Total/NA	Analysis	8021B		1			27336	06/12/22 16:26	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27209	06/09/22 15:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27340	06/12/22 18:24	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	27185	06/09/22 12:25	CH	XEN MID
Soluble	Analysis	300.0		5			27474	06/14/22 08:29	CH	XEN MID

Client Sample ID: R-2
Date Collected: 06/07/22 14:05
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-52
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			4.95 g	5 mL	27201	06/09/22 13:35	EL	XEN MID
Total/NA	Analysis	8021B		1			27336	06/12/22 16:52	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	27209	06/09/22 15:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27340	06/12/22 18:46	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	27185	06/09/22 12:25	CH	XEN MID
Soluble	Analysis	300.0		1			27474	06/14/22 08:57	CH	XEN MID

Client Sample ID: B-37
Date Collected: 06/07/22 14:13
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-53
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	27201	06/09/22 13:35	EL	XEN MID
Total/NA	Analysis	8021B		1			27336	06/12/22 17:18	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27209	06/09/22 15:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27340	06/12/22 19:08	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	27185	06/09/22 12:25	CH	XEN MID
Soluble	Analysis	300.0		1			27474	06/14/22 09:06	CH	XEN MID

Client Sample ID: B-38
Date Collected: 06/07/22 14:16
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-54
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			5.05 g	5 mL	27201	06/09/22 13:35	EL	XEN MID
Total/NA	Analysis	8021B		1			27336	06/12/22 17:44	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: B-38
Date Collected: 06/07/22 14:16
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-54
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27209	06/09/22 15:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27340	06/12/22 19:30	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	27185	06/09/22 12:25	CH	XEN MID
Soluble	Analysis	300.0		1			27474	06/14/22 09:15	CH	XEN MID

Client Sample ID: B-39
Date Collected: 06/07/22 14:18
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-55
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			5.00 g	5 mL	27201	06/09/22 13:35	EL	XEN MID
Total/NA	Analysis	8021B		1			27336	06/12/22 18:11	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27209	06/09/22 15:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27340	06/12/22 19:51	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	27185	06/09/22 12:25	CH	XEN MID
Soluble	Analysis	300.0		1			27474	06/14/22 09:25	CH	XEN MID

Client Sample ID: B-40
Date Collected: 06/07/22 14:20
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-56
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			4.98 g	5 mL	27201	06/09/22 13:35	EL	XEN MID
Total/NA	Analysis	8021B		1			27336	06/12/22 18:37	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	27209	06/09/22 15:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27340	06/12/22 20:13	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	27185	06/09/22 12:25	CH	XEN MID
Soluble	Analysis	300.0		1			27474	06/14/22 09:34	CH	XEN MID

Client Sample ID: B-41
Date Collected: 06/07/22 14:24
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-57
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	27201	06/09/22 13:35	EL	XEN MID
Total/NA	Analysis	8021B		1			27336	06/12/22 19:03	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	27209	06/09/22 15:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27340	06/12/22 20:35	AJ	XEN MID

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: B-41
Date Collected: 06/07/22 14:24
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-57
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			5.05 g	50 mL	27185	06/09/22 12:25	CH	XEN MID
Soluble	Analysis	300.0		1			27474	06/14/22 09:43	CH	XEN MID

Client Sample ID: B-42
Date Collected: 06/07/22 14:28
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-58
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			5.05 g	5 mL	27201	06/09/22 13:35	EL	XEN MID
Total/NA	Analysis	8021B		1			27336	06/12/22 19:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27209	06/09/22 15:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27340	06/12/22 20:57	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	27185	06/09/22 12:25	CH	XEN MID
Soluble	Analysis	300.0		1			27474	06/14/22 10:11	CH	XEN MID

Client Sample ID: B-43
Date Collected: 06/07/22 14:31
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-59
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			5.00 g	5 mL	27201	06/09/22 13:35	EL	XEN MID
Total/NA	Analysis	8021B		1			27336	06/12/22 19:55	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27209	06/09/22 15:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27340	06/12/22 21:18	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	27185	06/09/22 12:25	CH	XEN MID
Soluble	Analysis	300.0		1			27474	06/14/22 10:20	CH	XEN MID

Client Sample ID: B-44
Date Collected: 06/07/22 14:34
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-60
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	27201	06/09/22 13:35	EL	XEN MID
Total/NA	Analysis	8021B		1			27336	06/12/22 20:21	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	27209	06/09/22 15:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27340	06/12/22 21:39	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	27185	06/09/22 12:25	CH	XEN MID
Soluble	Analysis	300.0		1			27474	06/14/22 10:48	CH	XEN MID

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Client Sample ID: B-45

Date Collected: 06/07/22 14:38
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-61
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	27164	06/09/22 17:00	MR	XEN MID
Total/NA	Analysis	8021B		1			27136	06/09/22 19:08	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27170	06/09/22 11:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27127	06/09/22 21:40	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	27185	06/09/22 12:25	CH	XEN MID
Soluble	Analysis	300.0		1			27474	06/14/22 10:57	CH	XEN MID

Client Sample ID: B-46

Date Collected: 06/07/22 14:42
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-62
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			4.97 g	5 mL	27164	06/09/22 17:00	MR	XEN MID
Total/NA	Analysis	8021B		1			27136	06/09/22 19:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27170	06/09/22 11:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27127	06/09/22 22:46	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	27185	06/09/22 12:25	CH	XEN MID
Soluble	Analysis	300.0		1			27474	06/14/22 11:06	CH	XEN MID

Client Sample ID: B-47

Date Collected: 06/07/22 14:45
Date Received: 06/08/22 08:17

Lab Sample ID: 890-2387-63
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	27164	06/09/22 17:00	MR	XEN MID
Total/NA	Analysis	8021B		1			27136	06/09/22 19:49	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27291	06/10/22 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27261	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	27170	06/09/22 11:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27127	06/09/22 23:08	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	27185	06/09/22 12:25	CH	XEN MID
Soluble	Analysis	300.0		1			27474	06/14/22 11:15	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
Job ID: 890-2387-1
Project/Site: Resolute 12 Fed Com 505 & 506
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: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
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: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2387-1	W-1	Solid	06/07/22 08:24	06/08/22 08:17	0 - 7
890-2387-2	W-2	Solid	06/07/22 08:27	06/08/22 08:17	0 - 7
890-2387-3	W-3	Solid	06/07/22 08:32	06/08/22 08:17	0 - 7.5
890-2387-4	W-4	Solid	06/07/22 08:37	06/08/22 08:17	0 - 7.5
890-2387-5	W-5	Solid	06/07/22 08:40	06/08/22 08:17	0 - 8
890-2387-6	W-6	Solid	06/07/22 08:42	06/08/22 08:17	0 - 8
890-2387-7	W-7	Solid	06/07/22 08:44	06/08/22 08:17	0 - 8
890-2387-8	W-8	Solid	06/07/22 08:46	06/08/22 08:17	0 - 8
890-2387-9	W-9	Solid	06/07/22 08:47	06/08/22 08:17	0 - 8
890-2387-10	W-10	Solid	06/07/22 08:50	06/08/22 08:17	0 - 8
890-2387-11	W-11	Solid	06/07/22 08:55	06/08/22 08:17	0 - 6
890-2387-12	W-12	Solid	06/07/22 09:00	06/08/22 08:17	0 - 6
890-2387-13	W-13	Solid	06/07/22 09:04	06/08/22 08:17	0 - 6
890-2387-14	IW-1	Solid	06/07/22 09:07	06/08/22 08:17	7 - 9
890-2387-15	B-1	Solid	06/07/22 10:34	06/08/22 08:17	5 - 7
890-2387-16	B-2	Solid	06/07/22 10:38	06/08/22 08:17	5 - 7
890-2387-17	B-3	Solid	06/07/22 10:41	06/08/22 08:17	5 - 7
890-2387-18	B-4	Solid	06/07/22 10:44	06/08/22 08:17	7 - 7
890-2387-19	B-5	Solid	06/07/22 10:47	06/08/22 08:17	6 - 7
890-2387-20	B-6	Solid	06/07/22 10:50	06/08/22 08:17	6 - 7
890-2387-21	B-7	Solid	06/07/22 10:52	06/08/22 08:17	7
890-2387-22	B-8	Solid	06/07/22 10:57	06/08/22 08:17	6
890-2387-23	B-9	Solid	06/07/22 11:00	06/08/22 08:17	7
890-2387-24	B-10	Solid	06/07/22 11:05	06/08/22 08:17	7
890-2387-25	B-11	Solid	06/07/22 11:07	06/08/22 08:17	7.5
890-2387-26	B-12	Solid	06/07/22 11:10	06/08/22 08:17	7.5
890-2387-27	B-13	Solid	06/07/22 11:13	06/08/22 08:17	7.5
890-2387-28	B-14	Solid	06/07/22 11:15	06/08/22 08:17	6 - 7
890-2387-29	B-15	Solid	06/07/22 11:38	06/08/22 08:17	6 - 7
890-2387-30	B-16	Solid	06/07/22 11:41	06/08/22 08:17	7
890-2387-31	B-17	Solid	06/07/22 11:45	06/08/22 08:17	7
890-2387-32	B-18	Solid	06/07/22 11:50	06/08/22 08:17	7.5
890-2387-33	B-19	Solid	06/07/22 11:54	06/08/22 08:17	7.5
890-2387-34	B-20	Solid	06/07/22 11:57	06/08/22 08:17	6
890-2387-35	B-21	Solid	06/07/22 12:00	06/08/22 08:17	6
890-2387-36	B-22	Solid	06/07/22 12:04	06/08/22 08:17	7
890-2387-37	B-23	Solid	06/07/22 12:05	06/08/22 08:17	7 - 7.5
890-2387-38	B-24	Solid	06/07/22 12:10	06/08/22 08:17	7
890-2387-39	B-25	Solid	06/07/22 12:15	06/08/22 08:17	6 - 7
890-2387-40	B-26	Solid	06/07/22 12:20	06/08/22 08:17	6 - 7
890-2387-41	B-27	Solid	06/07/22 12:24	06/08/22 08:17	7
890-2387-42	B-28	Solid	06/07/22 12:30	06/08/22 08:17	7
890-2387-43	B-29	Solid	06/07/22 13:20	06/08/22 08:17	7.5
890-2387-44	B-30	Solid	06/07/22 13:24	06/08/22 08:17	7.5
890-2387-45	B-31	Solid	06/07/22 13:29	06/08/22 08:17	7.5
890-2387-46	B-32	Solid	06/07/22 13:37	06/08/22 08:17	6 - 7
890-2387-47	B-33	Solid	06/07/22 13:41	06/08/22 08:17	7
890-2387-48	B-34	Solid	06/07/22 13:45	06/08/22 08:17	7
890-2387-49	B-35	Solid	06/07/22 13:48	06/08/22 08:17	7.5
890-2387-50	B-36	Solid	06/07/22 13:52	06/08/22 08:17	7.5
890-2387-51	R-1	Solid	06/07/22 14:00	06/08/22 08:17	0 - 8
890-2387-52	R-2	Solid	06/07/22 14:05	06/08/22 08:17	0 - 8
890-2387-53	B-37	Solid	06/07/22 14:13	06/08/22 08:17	8 - 9
890-2387-54	B-38	Solid	06/07/22 14:16	06/08/22 08:17	8 - 9
890-2387-55	B-39	Solid	06/07/22 14:18	06/08/22 08:17	8 - 9

Sample Summary

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 Fed Com 505 & 506

Job ID: 890-2387-1
SDG: 5198

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2387-56	B-40	Solid	06/07/22 14:20	06/08/22 08:17	8 - 9
890-2387-57	B-41	Solid	06/07/22 14:24	06/08/22 08:17	8 - 9
890-2387-58	B-42	Solid	06/07/22 14:28	06/08/22 08:17	8 - 9
890-2387-59	B-43	Solid	06/07/22 14:31	06/08/22 08:17	8 - 9
890-2387-60	B-44	Solid	06/07/22 14:34	06/08/22 08:17	8 - 9
890-2387-61	B-45	Solid	06/07/22 14:38	06/08/22 08:17	8 - 9
890-2387-62	B-46	Solid	06/07/22 14:42	06/08/22 08:17	8 - 9
890-2387-63	B-47	Solid	06/07/22 14:45	06/08/22 08:17	8 - 9

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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 1 of 7

Project Manager:	WILL WIEDORFF	Bill to: (if different)	MR KEVEN BLACK
Company Name:	RANGER ENV	Company Name:	EOG RESOURCES INC. - MIDLAND
Address:	PO BOX 201179	Address:	5509 CHAMPIONS DRIVE
City, State ZIP:	AUSTIN TX 78720	City, State ZIP:	MIDLAND TX
Phone:	512-389-3272 Email:	WILL@RANGERENV.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 Name:	RESOLUTE 12 FED COM 505&506	Turn Around	
Project Number:	5198	☒ Routine ☐ Rush	
Project Location:	RURAL LEA CO NM	Due Date:	
Sampler's Name:	W. WIEDORFF / J. MARTINEZ	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:	NM-007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	1.4
Total Containers:		Corrected Temperature:	1.2

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX (8021)	TPH (8015)	Chloride (EPA 300)	Sample Comments
W-1	SOIL	6/7/22	0824	0-7'	COMP	1		X	X	X	
W-2			0827	0-7'							
W-3			0832	0-7.5'							
W-4			0837	⊥							
W-5			0840	0-8'							
W-6			0842								
W-7			0844								
W-8			0846								
W-9			0847								
W-10	⊥	⊥	0850	⊥	⊥	⊥		⊥	⊥	⊥	

890-2387 Chain of Custody

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2SO_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

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

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			6-8-22 0847			
3				4		
5				6		

Revised Date: 08/25/2020 Rev. 2020.2

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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: _____

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Project Manager:	SEE PAGE 1	Bill to: (if different)	SEE PAGE 1
Company Name:		Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	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:	RESOLUTE 12 FED COM 505+505	Turn Around	
Project Number:		☒ Routine ☐ Rush	
Project Location:	SEE PAGE 1	Due Date:	
Sampler's Name:		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:	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	
Total Containers:		Corrected Temperature:	

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX (8021)	TPH (8015)	CHLORIDE (EPA 300)	Sample Comments
W-11	SOIL	6/7/22	0855	0-6	Comp	1		X	X	X	
W-12			0900								
W-13			0904								
IW-1			0907	7-9'							
B-1			1034	6-7'							
B-2			1038								
B-3			1041								
B-4			1044	7'							
B-5			1047	6-7'							
B-6			1050								

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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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: _____

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Project Manager:		Bill to: (if different)	
Company Name:	SEE PAGE 7	Company Name:	SEE PAGE 7
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	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:	Resolute 12 Fed Com 503H	Turn Around	
Project Number:	See page 7	☒Routine ☐Rush	
Project Location:		Due Date:	
Sampler's Name:		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:	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	
Total Containers:		Corrected Temperature:	

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX (8021)	TPH (8015)	Chlorides (EPA 300)	Sample Comments
B-7	SOIL	6/7/22	1052	7'	Comp	1		X	X	X	
B-8			1057	6-7'							
B-9			1100	7'							
B-10			1105	7'							
B-11			1107	7.5'							
B-12			1110	7.5'							
B-13			1113	7.5'							
B-14			1115	6-7'							
B-15			1138	6-7'							
B-16			1141	7'							

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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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: _____

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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:		

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:	RESOLUTE 12 FED COM 505H5G6	Turn Around	
Project Number:		☒ Routine ☐ Rush	
Project Location:	SEE PAGE 1	Due Date:	
Sampler's Name:		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:	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	
Total Containers:		Corrected Temperature:	

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2SO_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX (8021)	TDM (8015)	CHLORIDE (EPA 300)	Sample Comments
B-17	SOIL	5/7/22	1146	7'	Comp	1		X	X	X	
B-18			1150	7.5'							
B-19			1154	⊥							
B-20			1157	6-7'							
B-21			1200	⊥							
B-22			1204	7'							
B-23			1205	7-7.5'							
B-24			1210	7.5'							
B-25			1215	6-7'							
B-26	⊥	⊥	1220	⊥	⊥	⊥		⊥	⊥	⊥	

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 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			2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

eurofins | 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
www.xenco.com

Work Order No: _____

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:		

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:	RESOLUTE 12 FED COM 305H/306H	Turn Around	
Project Number:		☒ Routine ☐ Rush	
Project Location:	SEE PAGE 1	Due Date:	
Sampler's Name:		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:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX (8021)	TPH (8015)	Chloride (EPA 300)	Sample Comments
B-27	SOIL	6/7/22	1224	7'	Comp	1		X	X	X	
B-28			1230	7'							
B-29			1320	7.5'							
B-30			1324	"							
B-31			1329	"							
B-32			1337	6-7'							
B-33			1341	7'							
B-34			1345	7'							
B-35			1348	7.5'							
B-36			1352	7.5'							

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 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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev: 2020.2

eurofins | 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 6 of 7

Project Manager:	SEE PAGE 1	Bill to: (if different)	SEE PAGE 1
Company Name:		Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	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:	RESOLVE 12 FED COM 505 #506	Turn Around	
Project Number:		☑ Routine ☐ Rush	
Project Location:	SEE PAGE 2	Due Date:	
Sampler's Name:		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:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2SO_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX (8021)	TPH (8015)	Chlorides (EPA 300)	Sample Comments
R-1	SOIL	6/7/22	1400	0-8'	COMP	1		X	X	X	
R-2			1405	1							
B-37			1413	8-9'							
B-38			1416								
B-39			1418								
B-40			1420								
B-41			1424								
B-42			1428								
B-43			1431								
B-44			1434								

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 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			2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

eurofins | 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 7

Project Manager:		Bill to: (if different)	
Company Name:		Company Name:	
Address:	SEE PAGE 7	Address:	SEE PAGE 7
City, State ZIP:		City, State ZIP:	
Phone:	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:	RESOLUTE ID FED COM 505H 506	Turn Around	
Project Number:	SEE PAGE 7	☒ Routine ☐ Rush	
Project Location:		Due Date:	
Sampler's Name:		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:	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	
Total Containers:		Corrected Temperature:	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX (8021)	TPH (8015)	Chlorides (EPA 300)
B-45	SOIL	6/7/22	1438	8-9'	COMP	1		X	X	X
B-46	1	1	1442	1	1	1		1	1	1
B-47	1	1	1445	1	1	1		1	1	1

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2SO_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
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 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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			2		
3			4		
5			6		

Revised Date 08/25/2020 Rev. 2020.2

Eurofins Carlsbad
1089 N Canal St
Carlsbad NM 88220
Phone 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler	Lab PM: Taylor Holly	Carrier Tracking No(s)	COC No.: 890-784 1
Client Contact: Shipping/Receiving	Phone	E-Mail: Holly Taylor@et.eurofinsus com	State of Origin: New Mexico	Page: Page 1 of 7
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Louisiana, NELAP - Texas		Job #: 890-2387-1
Address: 1211 W Florida Ave	Due Date Requested: 6/14/2022			
City: Midland	TAT Requested (days):			
State Zip: TX 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: Reslute4 12 Fed Com 505 & 506	Project #: 89000029			
Site	SSOW#:			

Analysis Requested

Preservation Codes

A HCL, B - NaOH, C Zn Acetate, D - Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc (MOD) BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note
			Preservation Code:										
W-1 (890-2387-1)	6/7/22	08 24 Mountain		Solid			X	X	X	X	X	1	
W-2 (890-2387-2)	6/7/22	08 27 Mountain		Solid			X	X	X	X	X	1	
W-3 (890-2387-3)	6/7/22	08 32 Mountain		Solid			X	X	X	X	X	1	
W-4 (890-2387-4)	6/7/22	08 37 Mountain		Solid			X	X	X	X	X	1	
W-5 (890-2387-5)	6/7/22	08 40 Mountain		Solid			X	X	X	X	X	1	
W-6 (890-2387-6)	6/7/22	08 42 Mountain		Solid			X	X	X	X	X	1	
W-7 (890-2387-7)	6/7/22	08 44 Mountain		Solid			X	X	X	X	X	1	
W-8 (890-2387-8)	6/7/22	08 46 Mountain		Solid			X	X	X	X	X	1	
W-9 (890-2387-9)	6/7/22	08 47 Mountain		Solid			X	X	X	X	X	1	

Note Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment
Relinquished by:	Date/Time	Company	Received by: Date/Time: 6/9/22 Company
Relinquished by:	Date/Time	Company	Received by: Date/Time Company
Relinquished by:	Date/Time:	Company	Received by: Date/Time: Company

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 1.2/1.0

Ver: 06/08/2021

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler	Lab PM: Taylor Holly	Carrier Tracking No(s)	COC No: 890-784 2
Client Contact: Shipping/Receiving	Phone	E-Mail: Holly Taylor@et eurofinsus com	State of Origin: New Mexico	Page: Page 2 of 7
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Louisiana NELAP - Texas		Job #: 890-2387-1
Address: 1211 W Florida Ave	Due Date Requested: 6/14/2022			
City: Midland	TAT Requested (days):			
State Zip: TX 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: Reslute4 12 Fed Com 505 & 506	Project #: 89000029			
Site	SSOW#:			

Analysis Requested

Preservation Codes

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G - Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q - Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8016MOD_NM/8016NM_S_Prep (MOD) Full TPH	8016MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc (MOD) BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note.
			Preservation Code:		X	X							
W-10 (890-2387-10)	6/7/22	08 50 Mountain		Solid			X	X	X	X	X	1	
W-11 (890-2387-11)	6/7/22	08 53 Mountain		Solid			X	X	X	X	X	1	
W-12 (890-2387-12)	6/7/22	09 00 Mountain		Solid			X	X	X	X	X	1	
W-13 (890-2387-13)	6/7/22	09 04 Mountain		Solid			X	X	X	X	X	1	
IW-1 (890-2387-14)	6/7/22	09 07 Mountain		Solid			X	X	X	X	X	1	
B-1 (890-2387-15)	6/7/22	10 34 Mountain		Solid			X	X	X	X	X	1	
B-2 (890-2387-16)	6/7/22	10 38 Mountain		Solid			X	X	X	X	X	1	
B-3 (890-2387-17)	6/7/22	10 41 Mountain		Solid			X	X	X	X	X	1	
B-4 (890-2387-18)	6/7/22	10 44 Mountain		Solid			X	X	X	X	X	1	

Note Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time.	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.

Ver: 06/08/2021

Eurofins Carlsbad
1089 N Canal St
Carlsbad NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler	Lab PM: Taylor Holly	Carrier Tracking No(s)	COC No: 890-784 3
Client Contact: Shipping/Receiving	Phone	E-Mail: Holly Taylor@et.eurofinsus com	State of Origin: New Mexico	Page: Page 3 of 7
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Louisiana NELAP - Texas		Job #: 890-2387-1
Address: 1211 W Florida Ave	Due Date Requested: 6/14/2022			
City: Midland	TAT Requested (days):			
State Zip: TX 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: Reslute4 12 Fed Com 505 & 506	Project #: 89000029			
Site	SSOW#:			

Analysis Requested

Preservation Codes

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc (MOD) BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
B-5 (890-2387-19)	6/7/22	10 47 Mountain		Solid			X	X	X	X	X	1	
B-6 (890-2387-20)	6/7/22	10 50 Mountain		Solid			X	X	X	X	X	1	
B-7 (890-2387-21)	6/7/22	10 52 Mountain		Solid			X	X	X	X	X	1	
B-8 (890-2387-22)	6/7/22	10 57 Mountain		Solid			X	X	X	X	X	1	
B-9 (890-2387-23)	6/7/22	11 00 Mountain		Solid			X	X	X	X	X	1	
B-10 (890-2387-24)	6/7/22	11 05 Mountain		Solid			X	X	X	X	X	1	
B-11 (890-2387-25)	6/7/22	11 07 Mountain		Solid			X	X	X	X	X	1	
B-12 (890-2387-26)	6/7/22	11 10 Mountain		Solid			X	X	X	X	X	1	
B-13 (890-2387-27)	6/7/22	11 13 Mountain		Solid			X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

Relinquished by: Clue	Date/Time	Company	Received by: Kramer	Date/Time	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks

Ver: 06/08/2021

Eurofins Carlsbad
1089 N Canal St
Carlsbad NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler	Lab PM: Taylor Holly	Carrier Tracking No(s)	COC No: 890-784 4
Client Contact: Shipping/Receiving	Phone	E-Mail: Holly Taylor@et.eurofinsus com	State of Origin: New Mexico	Page: Page 4 of 7
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Louisiana, NELAP - Texas		Job #: 890-2387-1
Address: 1211 W Florida Ave	Due Date Requested: 6/14/2022			
City: Midland	TAT Requested (days):			
State Zip: TX 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: Reslute4 12 Fed Com 505 & 506	Project #: 89000029			
Site	SSOW#:			

Analysis Requested

Preservation Codes

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc (MOD) BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note
			Preservation Code:										
B-14 (890-2387-28)	6/7/22	11 15 Mountain		Solid			X	X	X	X	X	1	
B-15 (890-2387-29)	6/7/22	11 38 Mountain		Solid			X	X	X	X	X	1	
B-16 (890-2387-30)	6/7/22	11 41 Mountain		Solid			X	X	X	X	X	1	
B-17 (890-2387-31)	6/7/22	11 45 Mountain		Solid			X	X	X	X	X	1	
B-18 (890-2387-32)	6/7/22	11 50 Mountain		Solid			X	X	X	X	X	1	
B-19 (890-2387-33)	6/7/22	11 54 Mountain		Solid			X	X	X	X	X	1	
B-20 (890-2387-34)	6/7/22	11 57 Mountain		Solid			X	X	X	X	X	1	
B-21 (890-2387-35)	6/7/22	12 00 Mountain		Solid			X	X	X	X	X	1	
B-22 (890-2387-36)	6/7/22	12 04 Mountain		Solid			X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company

Custody Seals Intact. ∆ Yes ∆ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks

Ver: 06/08/2021

Eurofins Carlsbad
1089 N Canal St
Carlsbad NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler	Lab PM: Taylor Holly	Carrier Tracking No(s)	COC No: 890-784 5
Client Contact: Shipping/Receiving	Phone	E-Mail: Holly Taylor@et.eurofinsus com	State of Origin: New Mexico	Page: Page 5 of 7
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Louisiana, NELAP - Texas		Job #: 890-2387-1
Address: 1211 W Florida Ave	Due Date Requested: 6/14/2022			
City: Midland	TAT Requested (days):			
State, Zip: TX 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #			
Project Name: Reslute4 12 Fed Com 505 & 506	Project #: 89000029			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/6036FP_Calc (MOD) BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note
			Preservation Code:		X	X							
B-23 (890-2387-37)	6/7/22	12 06 Mountain		Solid			X	X	X	X	X	1	
B-24 (890-2387-38)	6/7/22	12 10 Mountain		Solid			X	X	X	X	X	1	
B-25 (890-2387-39)	6/7/22	12 15 Mountain		Solid			X	X	X	X	X	1	
B-26 (890-2387-40)	6/7/22	12 20 Mountain		Solid			X	X	X	X	X	1	
B-27 (890-2387-41)	6/7/22	12 24 Mountain		Solid			X	X	X	X	X	1	
B-28 (890-2387-42)	6/7/22	12 30 Mountain		Solid			X	X	X	X	X	1	
B-29 (890-2387-43)	6/7/22	13 20 Mountain		Solid			X	X	X	X	X	1	
B-30 (890-2387-44)	6/7/22	13 24 Mountain		Solid			X	X	X	X	X	1	
B-31 (890-2387-45)	6/7/22	13 29 Mountain		Solid			X	X	X	X	X	1	

Note Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Date/Time	Company		Date/Time	Company
Relinquished by: Clue			Received by: Kramer		
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time.	Company

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks

Ver: 06/08/2021

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220
Phone 575-988-3199 Fax. 575-988-3199

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Taylor Holly	Carrier Tracking No(s):	COC No: 890-784 6
Client Contact: Shipping/Receiving	Phone	E-Mail: Holly Taylor@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 6 of 7
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Louisiana NELAP - Texas		Job #: 890-2387-1
Address: 1211 W Florida Ave	Due Date Requested: 6/14/2022			
City: Midland	TAT Requested (days):			
State Zip: TX 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: Reslute4 12 Fed Com 505 & 506	Project #: 89000029			
Site	SSOW#:			

Analysis Requested

Preservation Codes

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc (MOD) BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note.
			Preservation Code:										
B-32 (890-2387-46)	6/7/22	13 37 Mountain		Solid			X	X	X	X	X	1	
B-33 (890-2387-47)	6/7/22	13 41 Mountain		Solid			X	X	X	X	X	1	
B-34 (890-2387-48)	6/7/22	13 45 Mountain		Solid			X	X	X	X	X	1	
B-35 (890-2387-49)	6/7/22	13 14 Mountain		Solid			X	X	X	X	X	1	
B-36 (890-2387-50)	6/7/22	13 52 Mountain		Solid			X	X	X	X	X	1	
R-1 (890-2387-51)	6/7/22	14 00 Mountain		Solid			X	X	X	X	X	1	
R-2 (890-2387-52)	6/7/22	14 05 Mountain		Solid			X	X	X	X	X	1	
B-37 (890-2387-53)	6/7/22	14 13 Mountain		Solid			X	X	X	X	X	1	
B-38 (890-2387-54)	6/7/22	14 16 Mountain		Solid			X	X	X	X	X	1	

Note Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC

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Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank. 2	Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Date/Time	Company		Date/Time	Company
Relinquished by:			Received by:		
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks

Ver: 06/08/2021

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220
Phone 575-988-3199 Fax. 575-988-3199

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler	Lab PM: Taylor, Holly	Carrier Tracking No(s):	COC No: 890-784 7
Client Contact: Shipping/Receiving	Phone	E-Mail: Holly Taylor@et.eurofinsus com	State of Origin: New Mexico	Page: Page 7 of 7
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Louisiana NELAP - Texas		Job #: 890-2387-1
Address: 1211 W Florida Ave	Due Date Requested: 6/14/2022			
City: Midland	TAT Requested (days):			
State Zip: TX 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #			
Project Name: Reslute4 12 Fed Com 505 & 506	Project #: 89000029			
Site	SSOW#:			

Analysis Requested

Preservation Codes

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8016MOD_NM/8016NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/6035FP_Calc (MOD) BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note
			Preservation Code:										
B-39 (890-2387-55)	6/7/22	14 18 Mountain		Solid			X	X	X	X	X	1	
B-40 (890-2387-56)	6/7/22	14 20 Mountain		Solid			X	X	X	X	X	1	
B-41 (890-2387-57)	6/7/22	14 24 Mountain		Solid			X	X	X	X	X	1	
B-42 (890-2387-58)	6/7/22	14 28 Mountain		Solid			X	X	X	X	X	1	
B-43 (890-2387-59)	6/7/22	14 31 Mountain		Solid			X	X	X	X	X	1	
B-44 (890-2387-60)	6/7/22	14 34 Mountain		Solid			X	X	X	X	X	1	
B-45 (890-2387-61)	6/7/22	14 38 Mountain		Solid			X	X	X	X	X	1	
B-46 (890-2387-62)	6/7/22	14 42 Mountain		Solid			X	X	X	X	X	1	
B-47 (890-2387-63)	6/7/22	14 45 Mountain		Solid			X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

Relinquished by:	Date/Time	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time.	Company	Received by:	Date/Time	Company

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Ranger Environmental Services, Inc

Job Number: 890-2387-1
SDG Number: 5198

Login Number: 2387
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: 890-2387-1
SDG Number: 5198

Login Number: 2387
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 06/09/22 11:11 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 <6mm (1/4").	N/A	

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2473-1
Laboratory Sample Delivery Group: 5198
Client Project/Site: Resolute 12 FED Com

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

Attn: Will Kierdorf

Holly Taylor

Authorized for release by:
7/8/2022 4:39:03 PM

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

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 FED Com

Laboratory Job ID: 890-2473-1
SDG: 5198

Table of Contents

Definitions/Glossary

Client: Ranger Environmental Services, Inc Job ID: 890-2473-1
Project/Site: Resolute 12 FED Com SDG: 5198

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
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.

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: Resolute 12 FED Com

Job ID: 890-2473-1
SDG: 5198

Job ID: 890-2473-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2473-1

Receipt
The sample was received on 6/28/2022 9:11 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.8°C

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-28745 and analytical batch 880-29171 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
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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

Client Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 FED Com

Job ID: 890-2473-1
SDG: 5198

Client Sample ID: B-7/A

Date Collected: 06/27/22 08:40
Date Received: 06/28/22 09:11
Sample Depth: 1' - 7'

Lab Sample ID: 890-2473-1

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U F1 F2	0.00201		mg/Kg		06/30/22 10:55	07/07/22 13:16	1
Toluene	<0.00201	U F1 F2	0.00201		mg/Kg		06/30/22 10:55	07/07/22 13:16	1
Ethylbenzene	<0.00201	U F1 F2	0.00201		mg/Kg		06/30/22 10:55	07/07/22 13:16	1
m,p-Xylenes	<0.00402	U F1 F2	0.00402		mg/Kg		06/30/22 10:55	07/07/22 13:16	1
o-Xylene	<0.00201	U F1 F2	0.00201		mg/Kg		06/30/22 10:55	07/07/22 13:16	1
Xylenes, Total	<0.00402	U F1 F2	0.00402		mg/Kg		06/30/22 10:55	07/07/22 13:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*06/30/22 10:55*	*07/07/22 13:16*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*06/30/22 10:55*	*07/07/22 13:16*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			07/07/22 17:00	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/30/22 12:35	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/29/22 15:50	06/30/22 10:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/29/22 15:50	06/30/22 10:34	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/29/22 15:50	06/30/22 10:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*111*		*70 - 130*	*06/29/22 15:50*	*06/30/22 10:34*	*1*
o-Terphenyl (Surr)	*121*		*70 - 130*	*06/29/22 15:50*	*06/30/22 10:34*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**516**		5.05		mg/Kg			07/05/22 18:31	1

Surrogate Summary

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 FED Com

Job ID: 890-2473-1
SDG: 5198

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		BFB1	DFBZ1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
890-2473-1	B-7/A	105	90										
890-2473-1 MS	B-7/A	107	91										
890-2473-1 MSD	B-7/A	101	98										
LCS 880-28745/1-A	Lab Control Sample	109	93										
LCSD 880-28745/2-A	Lab Control Sample Dup	108	102										
MB 880-28745/5-A	Method Blank	78	89										

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)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
890-2473-1	B-7/A	111	121										
LCS 880-28683/2-A	Lab Control Sample	110	109										
LCSD 880-28683/3-A	Lab Control Sample Dup	110	110										
MB 880-28683/1-A	Method Blank	105	119										

Surrogate Legend

1CO = 1-Chlorooctane (Surr)
OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 FED Com

Job ID: 890-2473-1
SDG: 5198

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-28745/5-A
Matrix: Solid
Analysis Batch: 29171

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 28745

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/30/22 10:55	07/07/22 12:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/30/22 10:55	07/07/22 12:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/30/22 10:55	07/07/22 12:49	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		06/30/22 10:55	07/07/22 12:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/30/22 10:55	07/07/22 12:49	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/30/22 10:55	07/07/22 12:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*78*		*70 - 130*	*06/30/22 10:55*	*07/07/22 12:49*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*06/30/22 10:55*	*07/07/22 12:49*	*1*

Lab Sample ID: LCS 880-28745/1-A
Matrix: Solid
Analysis Batch: 29171

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 28745

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09078		mg/Kg		91	70 - 130		
Toluene			0.100	0.09125		mg/Kg		91	70 - 130		
Ethylbenzene			0.100	0.08895		mg/Kg		89	70 - 130		
m,p-Xylenes			0.200	0.1809		mg/Kg		90	70 - 130		
o-Xylene			0.100	0.09935		mg/Kg		99	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: LCSD 880-28745/2-A
Matrix: Solid
Analysis Batch: 29171

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 28745

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09216		mg/Kg		92	70 - 130	2	35
Toluene			0.100	0.09349		mg/Kg		93	70 - 130	2	35
Ethylbenzene			0.100	0.08979		mg/Kg		90	70 - 130	1	35
m,p-Xylenes			0.200	0.1818		mg/Kg		91	70 - 130	0	35
o-Xylene			0.100	0.1004		mg/Kg		100	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 890-2473-1 MS
Matrix: Solid
Analysis Batch: 29171

Client Sample ID: B-7/A
Prep Type: Total/NA
Prep Batch: 28745

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00201	U F1 F2	0.100	0.08163		mg/Kg		81	70 - 130		
Toluene	<0.00201	U F1 F2	0.100	0.08143		mg/Kg		81	70 - 130		

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 FED Com

Job ID: 890-2473-1
SDG: 5198

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

Lab Sample ID: 890-2473-1 MS
Matrix: Solid
Analysis Batch: 29171

Client Sample ID: B-7/A
Prep Type: Total/NA
Prep Batch: 28745

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U F1 F2	0.100	0.07367		mg/Kg		74	70 - 130
m,p-Xylenes	<0.00402	U F1 F2	0.200	0.1476		mg/Kg		74	70 - 130
o-Xylene	<0.00201	U F1 F2	0.100	0.08926		mg/Kg		89	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*

Lab Sample ID: 890-2473-1 MSD
Matrix: Solid
Analysis Batch: 29171

Client Sample ID: B-7/A
Prep Type: Total/NA
Prep Batch: 28745

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U F1 F2	0.0996	0.03414	F1 F2	mg/Kg		34	70 - 130	82	35
Toluene	<0.00201	U F1 F2	0.0996	0.03418	F1 F2	mg/Kg		34	70 - 130	82	35
Ethylbenzene	<0.00201	U F1 F2	0.0996	0.03240	F1 F2	mg/Kg		33	70 - 130	78	35
m,p-Xylenes	<0.00402	U F1 F2	0.199	0.06716	F1 F2	mg/Kg		34	70 - 130	75	35
o-Xylene	<0.00201	U F1 F2	0.0996	0.04394	F1 F2	mg/Kg		44	70 - 130	68	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

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

Lab Sample ID: MB 880-28683/1-A
Matrix: Solid
Analysis Batch: 28603

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 28683

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/29/22 15:50	06/29/22 19:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/29/22 15:50	06/29/22 19:46	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/29/22 15:50	06/29/22 19:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*105*		*70 - 130*	*06/29/22 15:50*	*06/29/22 19:46*	*1*
o-Terphenyl (Surr)	*119*		*70 - 130*	*06/29/22 15:50*	*06/29/22 19:46*	*1*

Lab Sample ID: LCS 880-28683/2-A
Matrix: Solid
Analysis Batch: 28603

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 28683

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	1244		mg/Kg		124	70 - 130
Diesel Range Organics (Over C10-C28)			1000	1171		mg/Kg		117	70 - 130

QC Sample Results

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 FED Com

Job ID: 890-2473-1
SDG: 5198

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

Lab Sample ID: LCS 880-28683/2-A
Matrix: Solid
Analysis Batch: 28603

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 28683

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	110		70 - 130
o-Terphenyl (Surr)	109		70 - 130

Lab Sample ID: LCSD 880-28683/3-A
Matrix: Solid
Analysis Batch: 28603

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 28683

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1207		mg/Kg		121	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	1222		mg/Kg		122	70 - 130	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	110		70 - 130
o-Terphenyl (Surr)	110		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-28633/1-A
Matrix: Solid
Analysis Batch: 28885

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/04/22 13:12	1

Lab Sample ID: LCS 880-28633/2-A
Matrix: Solid
Analysis Batch: 28885

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	229.1		mg/Kg		92	90 - 110		

Lab Sample ID: LCSD 880-28633/3-A
Matrix: Solid
Analysis Batch: 28885

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	230.3		mg/Kg		92	90 - 110	0	20

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 FED Com

Job ID: 890-2473-1
SDG: 5198

GC VOA

Prep Batch: 28745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2473-1	B-7/A	Total/NA	Solid	5035	
MB 880-28745/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-28745/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-28745/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2473-1 MS	B-7/A	Total/NA	Solid	5035	
890-2473-1 MSD	B-7/A	Total/NA	Solid	5035	

Analysis Batch: 29171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2473-1	B-7/A	Total/NA	Solid	8021B	28745
MB 880-28745/5-A	Method Blank	Total/NA	Solid	8021B	28745
LCS 880-28745/1-A	Lab Control Sample	Total/NA	Solid	8021B	28745
LCSD 880-28745/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	28745
890-2473-1 MS	B-7/A	Total/NA	Solid	8021B	28745
890-2473-1 MSD	B-7/A	Total/NA	Solid	8021B	28745

Analysis Batch: 29245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2473-1	B-7/A	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 28603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2473-1	B-7/A	Total/NA	Solid	8015B NM	28683
MB 880-28683/1-A	Method Blank	Total/NA	Solid	8015B NM	28683
LCS 880-28683/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	28683
LCSD 880-28683/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	28683

Prep Batch: 28683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2473-1	B-7/A	Total/NA	Solid	8015NM Prep	
MB 880-28683/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-28683/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-28683/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 28755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2473-1	B-7/A	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 28633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2473-1	B-7/A	Soluble	Solid	DI Leach	
MB 880-28633/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-28633/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-28633/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 28885

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2473-1	B-7/A	Soluble	Solid	300.0	28633

QC Association Summary

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 FED Com

Job ID: 890-2473-1
SDG: 5198

HPLC/IC (Continued)

Analysis Batch: 28885 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-28633/1-A	Method Blank	Soluble	Solid	300.0	28633
LCS 880-28633/2-A	Lab Control Sample	Soluble	Solid	300.0	28633
LCSD 880-28633/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	28633

Lab Chronicle

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 FED Com

Job ID: 890-2473-1
SDG: 5198

Client Sample ID: B-7/A

Date Collected: 06/27/22 08:40
Date Received: 06/28/22 09:11

Lab Sample ID: 890-2473-1

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			4.98 g	5 mL	28745	06/30/22 10:55	MR	XEN MID
Total/NA	Analysis	8021B		1			29171	07/07/22 13:16	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			29245	07/07/22 17:00	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			28755	06/30/22 12:35	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	28683	06/29/22 15:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28603	06/30/22 10:34	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	28633	06/29/22 11:09	CH	XEN MID
Soluble	Analysis	300.0		1			28885	07/05/22 18:31	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: Resolute 12 FED Com

Job ID: 890-2473-1
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	T104704400-22-23	06-30-23

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
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ranger Environmental Services, Inc
Project/Site: Resolute 12 FED Com

Job ID: 890-2473-1
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: Resolute 12 FED Com

Job ID: 890-2473-1
SDG: 5198

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2473-1	B-7/A	Solid	06/27/22 08:40	06/28/22 09:11	1' - 7'

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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: _____

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Project Manager:	W. Kierdorf	Bill to: (if different)	
Company Name:	Ranger	Company Name:	EOG - Resources Inc - Midland
Address:	PO Box 201174	Address:	5509 Champion Dr.
City, State ZIP:	Austin, TX 78720	City, State ZIP:	Midland, TX
Phone:	Email:		will@rangerenv.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 Name:	Resolute 12 Fed com 505	Turn Around	
Project Number:	5198	☒ Routine ☐ Rush	
Project Location:	Lea Co.	Due Date:	
Sampler's Name:	W. Kennedy & J. Martinez	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:	Tam-007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	5.0
Total Containers:		Corrected Temperature:	4.8

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	BTEX (8021)	TPH (8015)	Chloride (EPA 300)
B-7/A	S	06/27/22	0840	1'-7'	Comp	1		X	X	X

ANALYSIS REQUEST

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2SO_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
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 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 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 W. Kennedy	Amanda Stuf	6/28/22 911	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ranger Environmental Services, Inc

Job Number: 890-2473-1
SDG Number: 5198

Login Number: 2473
List Number: 1
Creator: Stutzman, Amanda

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: 890-2473-1
SDG Number: 5198

Login Number: 2473
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 06/29/22 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 <6mm (1/4").	N/A	

ATTACHMENT 4 – NMOCD CORRESPONDENCE

From: Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>
Sent: Friday, June 24, 2022 12:07 PM
To: Todd Wells <Todd_Wells@eogresources.com>
Cc: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@state.nm.us>
Subject: RE: [EXTERNAL] EOG - Resolute 12 Fed Com #505

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Todd

Your request for a 60-day extension is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Thank you,
Jennifer Nobui

From: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Sent: Friday, June 24, 2022 9:19 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>
Subject: Fw: [EXTERNAL] EOG - Resolute 12 Fed Com #505

From: Todd Wells <Todd_Wells@eogresources.com>
Sent: Friday, June 24, 2022 9:10 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Cc: James Kennedy <James_Kennedy@eogresources.com>
Subject: [EXTERNAL] EOG - Resolute 12 Fed Com #505

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments

Good Morning,

This correspondence is to request a sixty day extension of time from the OCD for the reuse water release at the EOG, Resolute 12 Fed Com #505H, Incident #nAPP2209732674, location in Lea County, New Mexico. Following the release, the completions operations continued for weeks on the site. The completions operations and equipment at the site prevented access to begin the remediation. Remediation activities are ongoing and we are currently excavating at the site in order to complete the remediation. The requested extension of time is to complete the remediation, write and submit the closure report. Please let us know if you have any questions regarding this site.

Thank you,

Todd Wells

Environmental Specialist

Midland Division

5509 Champions Drive

Midland, TX 79706

O: (432) 686-3613

C: (432) 312-7736

Todd_Wells@eogresources.com

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 127825

CONDITIONS

Operator:	OGRID:
EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	7377
	Action Number: 127825
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	7/26/2022