

SITE STATUS UPDATE AND PROPOSED REMEDIATION PLAN

TANK BATTERY AREA 2RP-4576 & 2RP-5094

ROY SWD #3 UNIT P, SECTION 7, TOWNSHIP 19S, RANGE 25E EDDY COUNTY, NEW MEXICO 32.67059, -104.51773

PREPARED FOR:

EOG RESOURCES, INC.
ARTESIA DIVISION
105 S 4TH STREET
ARTESIA, NEW MEXICO 88210

PREPARED BY:

P.O. BOX 201179
AUSTIN, TEXAS 78720

NOVEMBER 1, 2022

Patrick K. Finn, P.G. (TX)
Project Geoscientist

William Kierdorf, REM Project Manager

TABLE OF CONTENTS

1.0	INTRODUCTION	. 1
2.0	SITE CHARACTERIZATION	.3
2.1	Depth-to-Groundwater	.3
2.2	Wellhead Protection Area	.4
2.3	Distance to Nearest Significant Watercourse	.4
2.4	Closure Criteria	.4
3.0	MAY 18, 2022 VERTICAL SOIL DELINEATION ACTIVITIES	.4
3.1	Assessment Methodologies	.4
3.2	Assessment Results	.6
4.0	AUGUST AND SEPTEMBER, 2022 HORIZONTAL SOIL DELINEATION ACTIVITIES.	.7
5.0	REMEDIATION PLAN	. 8
6.0	REPORTING	.9

FORM C-141

FIGURES

- Topographic Map
- Area Map
- National Wetland Inventory Map
- FEMA Floodplain Map
- Karst Topography Map
- Sample Location Map
- Proposed Remediation Map

TABLES

Soil BTEX, TPH & Chloride Analytical Data

ATTACHMENTS

- Attachment 1 USGS and NMOSE Water Well Data
- Attachment 2 NM Energy, Minerals and Natural Resources Department Active Mines Map
- Attachment 3 Photographic Documentation
- Attachment 4 Laboratory Analytical Reports
- Attachment 5 NMOCD Correspondence
- Attachment 6 Historic Field Screening Results Tables
- Attachment 7 Soil Boring Logs (May 2022 Soil Borings 1 to 3)



SITE STATUS UPDATE AND PROPOSED REMEDIATION PLAN TANK BATTERY AREA (2RP-4576 & 2RP-5094)

ROY SWD #3
UNIT P, SECTION 7, TOWNSHIP 19S, RANGE 25E
EDDY COUNTY, NEW MEXICO
32.67059, -104.51773
RANGER REFERENCE NO. 5375

1.0 INTRODUCTION

The Roy SWD #3 (site) is located on private land, approximately 13.6 miles southwest of Artesia, within Eddy County, New Mexico. The facility is situated in Unit N, Section 16, T20S-R24E at GPS coordinates 32.67059, -104.51773. The site, operated by EOG Resources, Inc. (EOG), formerly consisted of a saltwater disposal well, a tank battery with an earthen containment berm, pump houses and associated equipment. An earthen berm surrounded the extent of the facility pad footprint. Historically, operations at the site were conducted within the full extent of the facility pad, however a reduction of operations at the site left the southern approximate half of the facility pad unused. Reclamation efforts to decommission the southern portion of the pad have been completed. In April and May of 2022, plugging and abandonment of the on-site disposal well was completed. Additionally, the on-site tank battery and associated equipment has been taken out-of-service, decommissioned, and removed from the Site.

On January 4, 2018, a release was discovered at the Site due to a failure in the PVC waterleg line that connects the gun barrel to the water tank. The impacted area was approximately 90 feet (ft) by 20 ft inside of the battery berm to the north of the tanks. Initial response activities included source elimination and site stabilization activities, which recovered approximately 5 barrels (bbls) of fluid. The release and initial response activities were reported by EOG to New Mexico Oil Conservation Division (NMOCD) on Form C-141, dated January 18, 2018. NMOCD assigned Remediation Permit RP-4576 to the release. As part of the initial action, the visually impacted area of the release on the north side of the battery was excavated with the removal of impacted material resulting in an approximate 40 ft by 20 ft by 4 ft excavation which remained open for some time.

Souder, Miller and Associates (SMA) drilled two soil borings, L1 and L2, to 4 ft and 5 ft below ground surface (bgs), respectively, on January 23, 2018. Samples were collected at approximately 1-foot intervals and selected samples were analyzed for benzene, toluene, ethylbenzene and xylenes (BTEX), total petroleum hydrocarbons (TPH) and chlorides. Three samples were tested for TPH which ranged in concentration from 540 mg/kg (L1 at 1 ft) to 20,240 mg/kg (L1 at 3 ft). The lone L2 sample (L2 at 5 ft) had a TPH concentration of 8,950 mg/kg. Chloride concentrations in the shallow boring soil samples ranged from 1,000 mg/kg to 13,000 mg/kg in L1 and from 720 mg/kg to 21,000 mg/kg in L2. The chloride concentrations decreased with depth. It was at some point after the shallow borings were drilled and sampled the aforementioned excavation was conducted.

STATE OF TEXAS PROFESSIONAL GEOSCIENTIST FIRM NO. 50140 • STATE OF TEXAS PROFESSIONAL ENGINEERING FIRM NO. F-6160

On November 13, 2018, another release was discovered at the Site due to failure on the line that connects the gun barrel to the produced water tank. The impacted area was approximately 20 ft by 150 ft and was confined within the battery's earthen containment. Initial response activities were conducted by EOG which included source elimination and site stabilization, recovering 120 bbls of fluid. The release and initial response activities were reported by EOG to NMOCD on Form C-141, dated November 28, 2018. NMOCD assigned Remediation Permit RP-5094 to the release.

A third soil boring, L3, was drilled to a depth of 30 ft bgs on December 10, 2018. Laboratory results documented BTEX and total TPH concentrations below laboratory reporting levels in the 15 to 27 ft bgs range; however, the chloride concentrations in this depth interval ranged from 1,420 mg/kg to 2,440 mg/kg. The SMA report also indicates that boring L2 was apparently deepened during October of 2018 and indicates samples were collected at depths of 10, 12, 14 and 17 ft bgs. Samples analyzed for BTEX were below the laboratory reporting levels and total TPH ranged from nondetect at 10 ft bgs to 11 mg/kg at 17 ft bgs. Chloride concentrations analyzed over the same depth interval ranged from 340 mg/kg at 12 ft bgs to 1,410 mg/kg at 17 ft bgs.

SMA returned to the Site in April 2019 to conduct assessment activities in response to the second release. A sonic drill rig was mobilized into the tank battery and re-entered sample locations L1, L2 and L3 (becoming then L1R, L2R and L3R). The borings were advanced to total depths of 70' (L1R) to 75' (L2R and L3R). Samples were collected at 5-foot intervals and field screened for chlorides. Selected samples were laboratory analyzed for BTEX, TPH and chlorides. Analytical data presented in SMA's June 13, 2019 report (*Table 3: Summary of Sample Results*) inexplicably omits results for the 5 ft to 25 ft bgs range for borings L1R and L3R. Below is a summary of the field and laboratory analytical data for the April 2019 soil borings:

- The BTEX and TPH results for the April 2019 soil borings were all nondetectable.
- Laboratory chloride concentrations in L1R ranged from 3,100 mg/kg at 35 ft to 530 mg/kg at 40 ft and 410 mg/kg at 60 ft bgs, with only minimal field screen results below 60 feet to the total depth of 70 feet bgs.
- The highest chloride concentration in L2R was 10,000 mg/kg at 25 ft bgs with 1,700 mg/kg being reported at both 0 ft and 20 ft bgs. Below 25 feet bgs, the field screens significantly declined with only minimal readings being noted below 35 feet bgs to the boring total depth of 75 feet bgs.
- The highest chloride concentration in L3R was 220 mg/kg at 30 ft bgs. Below this depth laboratory chloride concentrations were documented to decrease, and only minimal field screen results were documented to the boring total depth of 75 feet bgs.
- No groundwater was reported as being encountered to the boring total depths of 70'-75' bgs.

During September 3-4, 2019, GHD Services Inc. (GHD), on behalf of EOG, conducted additional assessment of the tank battery area. Eleven test pits (TP-1 through TP-8 and SWE, SWW and SWNC) were installed within the bermed area of the tank battery and a total of 21 soil samples were analyzed to assess the horizontal and vertical extents of the soil impacts. Further assessment was conducted in the northeast portion of the tank battery where the releases had



occurred. This included test pits (TP-1 and TP-2) at the approximate locations where the L1R and L2R borings were drilled in order to obtain additional TPH data. Test pit TP-3 was excavated beneath where the former easternmost produced water storage tank was located. Test pits SWE, SWW and SWNC were excavated at the approximate edges of the SMA excavation to confirm SMA's December 2018 sidewall sample results. Test pits TP-4 through TP-8 were installed within the remainder of the bermed tank battery area. The laboratory analytical results documented elevated TPH and/or chloride impacts in all of the installed test pits with the exception of test pits TP-4 and TP-8 which were located in the southern portion of the tank battery bermed area.

EOG subsequently retained Ranger Environmental Services, Inc. (Ranger) to oversee the remaining site assessment and remediation activities as Ranger is already conducting other assessment and remediation activities at the former Roy SWD #3 facility, on the southern half of the well pad and east of the well pad around a pipeline right-of-way (NMOCD Incident #nAPP2111046250), and in the northern on-pad area (NMOCD Incident # nAPP2123047534).

On May 18, 2022, Ranger mobilized to the Site with HCI Drilling (HCI) to conduct additional vertical soil delineation activities in the tank battery area to confirm the depth of the soil impacts in the release source area and the absence of any groundwater impacts. On August 22, 2022 and September 23, 2022, Ranger also conducted additional horizontal delineation activities through the installation and sampling of test excavations. This report has been prepared to provide a summary of the May-August 2022 assessment activities, as well as site characterization information, proposed closure criteria, and a conceptual site remediation plan. A copy of the Form C-141 Release Notifications, as well as the Site Assessment/Characterization and Remediation Plan sections of Form C-141, are attached.

A Topographic Map and Area Map noting the location of the subject property and surrounding areas, and multiple site maps illustrating the Site features, sampling locations, and proposed activities are provided in the Figures section.

2.0 SITE CHARACTERIZATION

2.1 <u>Depth-to-Groundwater</u>

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, recent (<25-year-old) water well information within one half-mile of the site is not available.

Attachment 1 includes the area USGS and NMOSE water well data and locations. In the area ranging between approximately 0.7 - 2 miles from the subject site, the depth to water was reported as ranging from approximately 72' bgs to 265' bgs. The depth to water for the wells located closest to the subject site ranged between 72' – 97' bgs. It should also be noted that during the on-site drilling of soil borings L1R through L3R, no groundwater was reported to have been encountered to the boring terminal depths of 70'-75' bgs.

Since a significant watercourse is located within 300 feet of the subject site, the site release will be treated as if it occurred less than 50 feet to ground water. Since this will result in the usage of the most stringent site cleanup levels, Ranger believes that the available depth to groundwater data is satisfactory, and that the depth to groundwater can reasonably be assumed to be greater than 75' bgs.



2.2 Wellhead Protection Area

Based upon the USGS and NMOSE information, no consistent known water sources were identified within a half-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 "Medium Karst" probability.

2.3 Distance to Nearest Significant Watercourse

The closest significant watercourse, "Fourmile Draw" is located approximately 100 feet from the western facility pad boundary. Upon review of the National Wetland Inventory, "Fourmile Draw" is mapped as a wetland feature. The feature is classified as a R4SBJ, which is defined as a riverine, intermittent, streambed and intermittently flooded.

The presence of this significant watercourse located within 300 feet of the subject site will require the site release to be treated as if it occurred less than 50 feet to ground water in Table 1 of 19.15.29.12 NMAC.

2.4 Closure Criteria

Based upon the site characterization details (within 300' of a significant watercourse and a mapped wetland), and per NMAC 19.15.29.12, the Site will be remediated to the Table 1 19.15.29.12 NMAC (groundwater ≤50 feet) criteria, as well as the 19.15.29.13 NMAC Restoration, Reclamation and Re-Vegetation (Soils 0'-4') criteria. The proposed closure criteria are detailed below:

PROPOSED SITE CLOSURE CRITERIA

REGULATORY STANDARD	CHLORIDE	TPH (GRO+DRO +MRO)	ВТЕХ	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 MAY 18, 2022 VERTICAL SOIL DELINEATION ACTIVITIES

3.1 Assessment Methodologies

On May 18, 2022, Ranger mobilized to the Site with HCI Drilling (HCI) to conduct vertical soil delineation activities in the former tank battery area to confirm the depth of the soil impacts in the



release source area and to ensure that groundwater is not threatened or affected. The soil borings were drilled and sampled using air rotary drilling techniques. Soil borings SB-1 and SB-2 were drilled in the northeastern portion of the former tank battery area within the former 40'x20'x4'-deep excavated area. Soil boring SB-3 was drilled in the central portion of the former tank battery to the west of the former excavation area. The soil borings were advanced to terminal drilling depths of 30 to 50 feet bgs. No groundwater was encountered.

Soil samples were continuously collected and monitored during the drilling process, and each soil sample was inspected and described by the on-site Ranger field geologist. The soils were generally field screened at one-foot intervals with an organic vapor monitor (OVM) and field chloride titration kit. The lithologic descriptions, field chloride readings and OVM readings are presented on the attached soil boring logs.

Multiple soil samples were collected from each soil boring for laboratory analysis, primarily from the intervals at and near the boring terminal depths in order to confirm the vertical extent of the soil closure criteria exceedances. Below is a discussion of the field chloride titration results and a summary of the soil samples collected from each boring:

- **SB-1**: In soil boring SB-1, the field chloride titration results began declining below the soil closure criteria at an approximate depth of 29' bgs, and no field chloride readings above the closure criteria were encountered beyond a depth of 35' bgs. As such, the boring was terminated at a depth of 40' bgs. One soil sample was collected for laboratory analysis at a depth of 23' bgs, which was the interval containing the highest field chloride result (1,050 ppm) below 6' bgs. Three soil samples were collected from the base of the boring at depths of 38', 39' and 40' bgs to confirm that the vertical extent of impact in this boring had been defined.
- **SB-2**: In soil boring SB-2, significantly elevated field chloride readings up to 3,000(+) ppm were encountered to a depth of 29' bgs. Due to poor recovery, no field readings were collected from 31'-39' bgs. The field chloride titration results began declining below the soil closure criteria at an approximate depth of 43' bgs, and no field chloride readings above the closure criteria were encountered beyond a depth of 46' bgs. As such, the boring was terminated at a depth of 50' bgs. One soil sample was collected for laboratory analysis at a depth of 29' bgs, which was one of the intervals containing the highest field chloride results below 6' bgs. Four soil samples were collected from the base of the boring at depths of 47', 48', 49' and 50' bgs to confirm that the vertical extent of impact in this boring had been defined.
- **SB-3**: In soil boring SB-3, there were no elevated field chloride titration results to the terminal boring depth of 30' bgs. Soil samples were collected for laboratory analysis at depths of 4', 14', 29' and 30' bgs.

The soil samples were collected using new nitrile gloves and were containerized in sterile, laboratory-supplied containers. The sample jars were placed into multiple new Ziploc® bags and were immediately stored in a sample shuttle full of ice. The soil samples collected for laboratory analysis were subsequently submitted to Hall Laboratory in Albuquerque, New Mexico for analysis of TPH using EPA Method 8015; 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.



The attached "Sample Location Map" illustrates the locations of the May 2022 soil borings. The soil sample analytical results are summarized in the attached soil analytical table. A copy of the laboratory analytical report is also attached.

3.2 Assessment Results

The May 18, 2022 soil boring sample analytical results documented nondetectable BTEX and TPH concentrations in all three of the soil borings. Below is a summary of the soil chloride analytical results for each of the three soil borings and a comparison to the proposed site soil chloride closure criteria (600 mg/Kg):

- **SB-1**: In soil boring SB-1, the sample collected for laboratory analysis at a depth of 23' bgs, which was the interval containing the highest field chloride result below 6' bgs, was documented to contain a chloride concentration of 1,400 mg/kg which exceeds the proposed closure criteria. The three soil samples collected from the base of the boring at depths of 38', 39' and 40' bgs confirmed that the vertical extent of impact in this boring had been defined. The 38' sample had a minor exceedance of the proposed site closure criteria (670 mg/Kg chloride); however, the samples collected at depths of 39' and 40' were both documented to contain chloride concentrations below the closure criteria. As such, the maximum extent of soil impact in this boring was documented to be approximately 38' bgs.
- **SB-2**: In soil boring SB-2, the soil sample collected for laboratory analysis at a depth of 29' bgs, which was one of the intervals containing the highest field chloride results below 6' bgs, was documented to contain 5,200 mg/Kg chloride which is significantly in excess of the proposed closure criteria. The four soil samples collected from the base of the boring at depths of 47', 48', 49' and 50' bgs confirmed that the vertical extent of impact in this boring had been defined. The 47' sample had a minor exceedance of the proposed site closure criteria (750 mg/Kg chloride); however, the samples collected at depths of 48', 49' and 50' were documented to contain chloride concentrations below the closure criteria. As such, the maximum extent of soil impact in this boring was documented to be approximately 47' bgs.
- **SB-3**: In soil boring SB-3, all soil analytical results were found to be below the proposed site closure criteria.

In summary, soil borings SB-1 and SB-2, which were installed in the northeastern portion of the former tank battery area within the former 40'x20'x4'-deep excavated area, were found to contain soil chloride impacts in excess of the proposed site closure criteria. No impacts exceeding the proposed site closure criteria were documented in soil boring SB-3, located just west of the former 40'x20'x4'-deep excavated area.

The maximum vertical extent of the soil impacts in the release source area was documented to be approximately 47' bgs. As such, the vertical delineation activities documented that the soil impacts do not appear to pose a threat to the underlying groundwater. As summarized in Section 2.1, the depth to water for the wells located closest to the subject site ranged between 72' – 97' bgs, and during the on-site drilling of soil borings L1R through L3R, no groundwater was reported to have been encountered to the boring terminal depths of 70'-75' bgs.



4.0 AUGUST AND SEPTEMBER, 2022 HORIZONTAL SOIL DELINEATION ACTIVITIES

On August 22-23, 2022, Ranger personnel and representatives for EOG returned to the Site to complete additional horizontal soil delineation activities. As summarized in Section 1.0, above, the September 3-4, 2019 GHD test pit assessment activities had documented elevated TPH and/or chloride impacts in all of the installed test pits within the tank battery bermed area with the exception of test pits TP-4 and TP-8 which were located in the southern portion of the tank battery bermed area. As such, eight (8) excavation test holes (RTP-1 thru RTP-8) were completed along the western, northern and eastern boundaries of the former tank battery bermed area.

During the test pit installation process, the excavated soils were screened with an OVM and a field chloride titration kit to assist in evaluating the soil conditions and to determine appropriate sample locations and depths. The test pit excavation soils were screened at the surface and at one-foot intervals thereafter until reaching a minimum terminal depth of 6' bgs or until the field chloride readings were below 600 mg/kg. The deepest test hole was RTP-2 which was advanced to a terminal depth of 11' bgs.

Soil samples were subsequently collected from each test excavation. For those excavations in which elevated field chloride readings were obtained, samples were collected at depths of 1' bgs, the zone(s) exhibiting the highest field chloride reading(s), and at the terminal excavation depths. For those excavations in which no elevated field chloride readings were obtained, samples were collected at depths of 1' bgs and at the terminal excavation depths. It should be noted that there were no elevated field OVM readings or other field indications of hydrocarbon impact (e.g. – staining, odor, etc.) noted during the test excavation installation process.

The soil samples collected for laboratory analysis were subsequently submitted to Hall Laboratory in Albuquerque, New Mexico for analysis of TPH using EPA Method 8015; 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.

The soil analytical results documented elevated (>600 mg/Kg) chloride concentrations in select samples collected from test holes RTP-2 and RTP-6. It should be noted that the terminal depth samples collected from these two test pits at depths of 11' bgs and 7' bgs, respectively, contained relatively minor chloride concentrations (610-670 mg/Kg) at their terminal depths which were slightly higher than their field chloride results which were below 600 mg/Kg.

Based upon the August 2022 assessment results, additional horizontal delineation activities were conducted at the subject site on September 23, 2022. Two additional test pits were installed to the north and northwest of RTP-2, and one additional test pit was installed to the north of RTP-6. The additional test pits were field screened and sampled in general accordance with the above-described methodologies utilized on August 22-23, 2022. Due to the absence of any elevated field readings, the test pits were only advanced to a terminal depth of 4' bgs.

The soil analytical results for the September 23, 2022 samples were all found to be below the site closure criteria with the exception of a relatively minimal TPH concentration (156 mg/Kg) reported for soil sample RTP-6N/1 which was collected at one foot bgs. Since there were no field indications of a potential contaminant impact (no staining, odor, or elevated OVM readings) at this location, Ranger considers this result as being potentially suspect; however, as noted below, the exceedance will be addressed under the site Remediation Plan (including both the delineation and remediation of this area).



The attached "Sample Location Map" illustrates the locations of the August-September 2022 test holes. The soil sample analytical results are summarized in the attached soil analytical table. Copies of the laboratory analytical reports are attached.

5.0 REMEDIATION PLAN

Since the vertical soil delineation activities documented that the site soil impacts do not appear to pose any imminent threat of impact to the underlying groundwater, the proposed remediation plan for the subject site is to request a variance to NMAC 19.15.29.12 in order to excavate and dispose of all soils which contain exceedances of the proposed site closure criteria in the 0'-6' bgs depth interval, and to place a geosynthetic clay liner (GCL) over any remaining soils below 6' bgs which contain exceedances of the site closure criteria. The remediation plans for the northern on-pad area and the southern half of the well pad and east of the well pad around a pipeline right-of-way (NMOCD Incident Nos. nAPP2123047534 and nAPP2111046250) contained these same provisions and the plans have been approved by the NMOCD.

All soils in the former tank battery area which contain exceedances of the proposed site closure criteria and that are within the 0'-6' bgs depth interval will be excavated and disposed at an authorized off-site disposal facility. Areas of BTEX and TPH concentrations above the Table 1 Criteria at a depth of 6' bgs, encountered during the confirmation sampling process, will be overexcavated until concentrations are confirmed be within the Table 1 Criteria via the proposed confirmation sampling methods detailed below. Additional areas of elevated chloride concentrations may be excavated deeper than 6' bgs depending upon the encountered site conditions. Any remaining soils below 6' bgs which contain exceedances of the site closure criteria for chloride are proposed to be covered with a geosynthetic clay liner (GCL) as a variance to NMAC 19.15.29.12. Prior to the liner placement, the excavation base will be prepared according to manufacturer's specifications. Subsequent to the liner placement, the excavation will be backfilled with clean fill material.

The attached "Proposed Remediation Map" illustrates the approximate boundaries of the areas at the site which exceed the site closure criteria and require remediation. It should be noted that the boundaries of the proposed remediation area may be subject to change if field conditions warrant. The proposed remediation area may potentially be expanded based upon the results of the proposed field screening and cleanup confirmation sampling activities. The proposed remediation area also does not include any additional benching and shoring areas that may be necessary for safety reasons or as field conditions warrant.

During the performance of the site excavation activities, Ranger will utilize an OVM and field chloride titration kit to guide the excavation boundaries. Upon reaching excavation limits which appear to be within the site closure criteria, cleanup confirmation sampling activities will be conducted. Excavation sidewall samples are proposed to be collected in accordance with NMAC 19.15.29.12, as five-part composite samples, with each sample representing no more than 200 square feet. The excavation base samples are proposed to be collected as five-part composite samples, with each sample representing no more than 400 square feet. Each cleanup confirmation soil sample collected for laboratory analysis will be analyzed for TPH using EPA Method 8015; BTEX using EPA Method 8021; and, total chloride using EPA Method 300.

The attached "Proposed Remediation Map" illustrates the approximate area to be excavated to a depth of 6' bgs and covered with the geosynthetic clay liner. Based on the proposed excavation



boundaries and depth, it is anticipated that approximately 1,500 cubic yards of soil will be excavated and disposed.

Following placement of the GCL liner, the excavated areas will be backfilled to grade with clean fill material of similar type to that which was removed. The location will then be re-vegetated during the subsequent facility pad reclamation efforts.

Upon approval of the proposed remediation plan, all field activities will be scheduled as soon as reasonably possible. It is anticipated that the proposed remedial operations and cleanup confirmation soil sampling activities can be completed within 120 days of initiation. If for any reason the proposed activities cannot be completed within this timeframe, the NMOCD will be updated and provided with a revised schedule. Appropriate notification to the NMOCD will also be provided prior to the performance of the cleanup confirmation soil sampling activities.

6.0 REPORTING

Upon completion of the remedial excavation, liner installation and backfilling activities at the Site, a C-141 Closure Report will be submitted to the NMOCD, and site closure will be requested. The Closure Report will be completed in accordance with the closure reporting criteria detailed in NMAC 19.15.29.12(E).



rived by OCD: 2/3/20	023 9:41:33 AM			Page 12 o
		FORM C-1	141	
			•	

NM OIL CONSERVATION

ARTESIA DISTRICT

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

JAN 19 2018

Form C-141 Revised April 3, 2017

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in **RECEIVED** cordance with 19.15.29 NMAC.

-			Rele	ase Notif	icatio	n and Co	rrective A	ction				·
MARIO	20102	1.1.60			OPI	ERATOR			K-71 T ***	10		n' in
Name of Co	101931	<i>YUSS</i>				Contact				l Report		Final Report
EOG Y Res		c		25575	-	Contact Chase Settle	<u>,</u>					
Address	ources, III	<u>. </u>		00070		Telephone 1						
	treet Artes	ia NM 8821	10			575-748-14						
Facility Nar		, a : 1111 002				Facility Typ						
Roy #3 SW						SWD						!
		***************************************							Lantar			
Surface Ow	ner			Mineral	Owner				API No.			
Private		,		Private					30-015-	26562		
, <u>, </u>				LOC	CATIO	N OF RE	LEASE					****
Unit Letter	Section	Township	Range	Feet from the		/South Line	Feet from the		est Line	County		
P	7	19S	25E	810	South		660	Ea	ıst	Eddy		
			La	titude <u>32,670</u>	<u>5933</u> Lo	ngitude <u>-10</u>	<u>4.5177307</u> NA	D83				
				NA	TURE	OF REL	EASE					
Type of Rele						Volume of	···		Volume R	ecovered		
Produced Wa						6 B/PW			5 B/PW			
Source of Re	lease						lour of Occurrence	ce		Hour of Dis	cover	y
Pipeline		<u> </u>				1/4/2018;			1/4/2018;	8:00 AM		
Was Immedia	ate Notice	_] Yes □	No 🛛 Not	Required	If YES, To	Whom?					
By Whom?				110 23 1101		Date and I	Iou#					
by whom?						Date and r	iour					·
Was a Water	course Rea					If YES, V	olume Impacting	the Wate	rcourse.			
		L	Yes 🛚	No								
If a Watercou	ırse was Im	pacted, Descr	ribe Fully.*	N/A								
Describe Cau	ise of Prob	lem and Reme	dial Action	n Taken.*								
					nbarrel to	the water tan	k. A vacuum truc	k was ca	illed to coll	ect all free	standi	ng fluids and a
backhoe cont	tracted to re	emove all visu	ally impact	ted soils.								
Describe Are	a Affected	and Cleanup	Action Tak	en.*								
					nside of	the battery b	erm to the nort	h of the	produced	water tank	s. Ve	rtical and
horizontal de	lineation sa	amples will be	taken and	analysis ran for	r TPH, B	TEX and chlo	rides. If initial an	alytical	results for I	TPH & BTE	EX are	under
							sting closure. If t					
							T19S, R25E, p	er NM(OSE, USC	SS), Wellho	ead Pi	rotection
I hereby certi	fy that the	information a	iven above	is true and con	anking	the best of my	knowledge and u	ınderstan	d that nurs	uant to NM	OCD	rules and
							nd perform correct					
							arked as "Final R					
should their o	operations l	have failed to	adequately	investigate and	l remedia	te contaminat	ion that pose a thi	reat to gr	ound water	, surface wa	ater, h	uman health
				tance of a C-14	l report o	does not reliev	e the operator of	responsi	bility for co	ompliance v	vith ar	ny other
federal, state,	or local la	ws and/or reg	ulations.				OW 601	~=====================================	- TION	DILIGIO		
Signature:	Than S	Sottle					OIL CON		7	DIVISIO	<u> N</u>	
Oignature: [*							Signe	eď Rv	Al ko	يسديد بالمستعجد		
Printed Name	e: Chase S	ettle				Approved by	Environmental S			A STATE OF THE STA	600	i refere
							11,61,0			<u>, 1</u>	10	
Title: Rep Sa	afety & En	vironmental II				Approval Da	te: //////	I	Expiration 1	Date: N	TH	
F-mail Addre	ess chase	settle@engre	sources cor	n		Conditions o	f Approval:					

See attached

* Attach Additional Sheets If Necessary

114/18 AB

Date: January 18, 2018

Phone: 575-748-4171

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 1/19/2018 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 1/19/19 has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 2 office in ARTESIA on or before 2/19/2018. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- •Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.
- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.
- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold
OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

Bratcher, Mike, EMNRD

From: Chase Settle < Chase_Settle@eogresources.com>

Sent: Friday, January 19, 2018 8:10 AM

To: Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD
Cc: Bob Asher; Heather Patterson; Austin Weyant

Subject: C-141 Initial Roy #3 SWD **Attachments:** C-141_Initial Roy #3 SWD.pdf

Please find attached the C-141 Initial for the below listed location.

Roy #3 SWD 30-015-26562 Sec. 7, T19S-R25E Eddy County, New Mexico

Thank you,

Chase Settle, M.S.
Rep Safety & Environmental II

EOG Resources 105 S. 4th Street Artesia, NM 88210 575-748-4171 (Office) 575-703-6537 (Cell)



District I 1625 N. French Dr., Hobbs, NM 88240 District II 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

Responsible Party

Contact Name

Chase Settle

104 S. 4th

Contact email

EOG Y Resources, Inc.

Contact mailing address

chase_settle@eogresources.com

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	NAB1834454137
District RP	2RP-5094
Facility ID	
Application ID	pAB1834453495

Release Notification

Responsible Party

Location of Release Source

OGRID

Contact Telephone

Incident # (assigned by OCD)

575-748-4171

25575

Latitude 32.6	705933		OVAD 92 in da	Longitude g	-104.5177307
		DALIAN MANAGEMENT	(NAD 85 III det		пан ріасезу
Site Name Ro	by #3 SWD			Site Type	
Date Release	Discovered	11/13/18		API# 30-01	5-26562
Unit Letter	Section	Township	Range	Cour	ntv
P	7	19S	25E	Edd	<u>·</u>
Surface Owner	r: State	☐ Federal ☐ Ti	ribal Nature and	Name:	Palassa
	Mataria	I(a) Dalaggad (Salagt a			
Crude Oil		Volume Release		calculations or specific	justification for the volumes provided below) Volume Recovered (bbls)
☐ Produced	Water	Volume Release	d (bbls) 190		Volume Recovered (bbls) 120
		Is the concentrate produced water	ion of dissolved cl >10,000 mg/l?	hloride in the	⊠ Yes □ No
Condensa	te	Volume Release			Volume Recovered (bbls)
☐ Natural G	as	Volume Release	d (Mcf)		Volume Recovered (Mcf)
Other (de	scribe)	Volume/Weight	Released (provide	units)	Volume/Weight Recovered (provide units)
Cause of Rele Coupling bet		nipples failed on t	he line between gu	in barrel and produ	ced water tank.

State of New Mexico Oil Conservation Division

Incident ID	NAB1834454137
District RP	2RP-5094
Facility ID	
Application ID	pAB1834453495

release as defined by	If YES, for what reason(s) does the responsible party consider this a major release? **
9.15.29.7(A) NMAC?	
Yes □ No	
	12
	** Operator failed to supply the answer to this question regarding the major release. $^{\mathcal{A}\mathcal{B}}$
f YES, was immediate n	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? **
* Operator failed to su	oply the answer to these questions. AB
	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 rele	ease has been stopped.
☐ The impacted area has	s been secured to protect human health and the environment.
Released materials ha	we been contained via the use of berms or dikes, absorbent pads, or other containment devices.
All free liquids and r	ecoverable materials have been removed and managed appropriately.
	d above have <u>not</u> been undertaken, explain why:
f all the actions describe Per 19.15.29.8 B. (4) NM has begun, please attach	AC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
er 19.15.29.8 B. (4) NM as begun, please attach vithin a lined containment thereby certify that the infogulations all operators are ublic health or the environmented to adequately investig ddition, OCD acceptance of	AC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred
f all the actions described at the actions described at the actions described at the action acceptance of action action acceptance and/or regulations.	IAC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation. Immation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and required to report and/or file certain release notifications and perform corrective actions for releases which may endanger nent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have ate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In fa C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
Per 19.15.29.8 B. (4) NM has begun, please attach within a lined containment hereby certify that the information hereby certify that the environmental to adequately investig ddition, OCD acceptance of and/or regulations.	IAC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation. Immation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and required to report and/or file certain release notifications and perform corrective actions for releases which may endanger nent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have ate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In fa C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
Per 19.15.29,8 B. (4) NM has begun, please attach within a lined containment hereby certify that the informations all operators are public health or the environs alled to adequately investigned.	AC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation. Immation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and required to report and/or file certain release notifications and perform corrective actions for releases which may endanger ment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have ate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In f a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws Title: Rep Safety & Environmental II Date: //-28-/8

Received by OCD: 2/3/2023 9:41:33 AM

	Page 19 of 17.	2
Incident ID	nAB1801936658	
District RP	2RP-4576	
Facility ID		
Application ID		

Site Assessment/Characterization

This information must be provided to the appropriate district office no taler man 20 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>75'</u> (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	⊠ Yes □ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a wetland?	⊠ Yes □ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
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 well	ls.

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.

Received by OCD: 2/3/2023 9:41:33 AM State of New Mexico
Page 4 Oil Conservation Division

All:33 AM State of New Mexico
Oil Conservation Division

Incident ID
District RP

	Page 20 of 17	72
Incident ID	nAB1801936658	
District RP	2RP-4576	
Facility ID		
Application ID		

	otifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have reat to groundwater, surface water, human health or the environment. In
Printed Name: _Chase Settle	Title: Rep Safety & Environmental Sr
Signature: Chase Settle	Date: <u>02/03/2023</u>
email: Chase_Settle@eogresources.com Telephone:	575-748-1471
OCD Only	
Received by:	Date: 03/02/2023

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

State of New Mexico

Incident ID PARISO1026659

Incident ID nAB1801936658
District RP 2RP-4576
Facility ID
Application ID

Remediation 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: Chase Settle Title: Rep Safety & Environmental Sr Signature: Chase Settle@eogresources.com Telephone: 575-748-1471
OCD Only
Received by: Jocelyn Harimon Date:
☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved
Signature: Date:

	I ugc mm oj 17
Incident ID	nAB1834454137
District RP	2RP-5094
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no taler than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>75'</u> (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	⊠ Yes □ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a wetland?	⊠ Yes □ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
Characterization Report Checklist: Each of the following items must be included in the report.	

Characterization Report Checklist: Each of the following items must be included in the report.
<u></u>
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.

Received by OCD: 2/3/2023 9:41:33 AM State of New Mexico
Page 4 Oil Conservation Division

	Page 23 of 172
Incident ID	nAB1834454137
District RP	2RP-5094
Facility ID	

Application ID

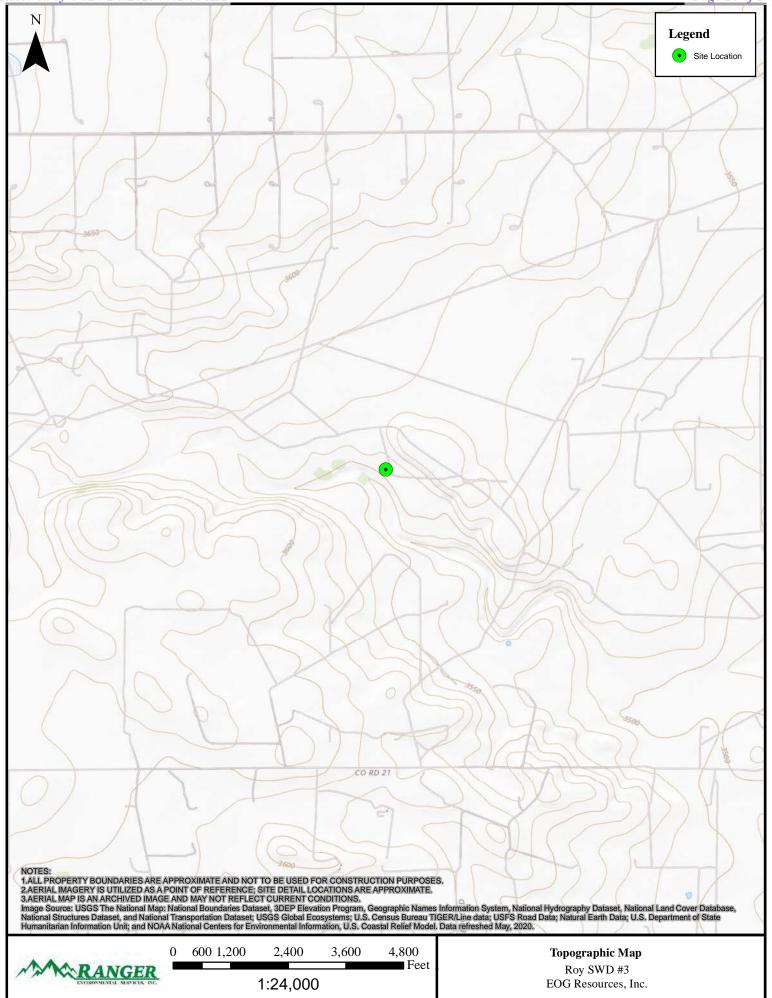
	Page 24 of 1	72
Incident ID	nAB1834454137	
District RP	2RP-5094	
Facility ID		
Application ID		

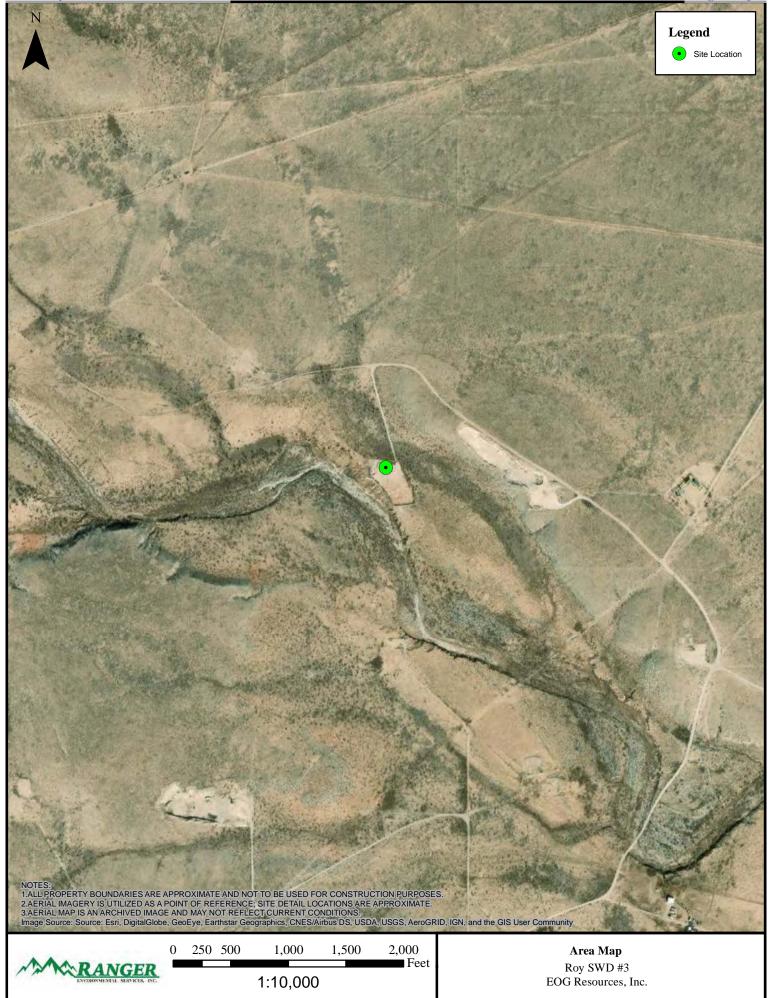
Remediation Plan

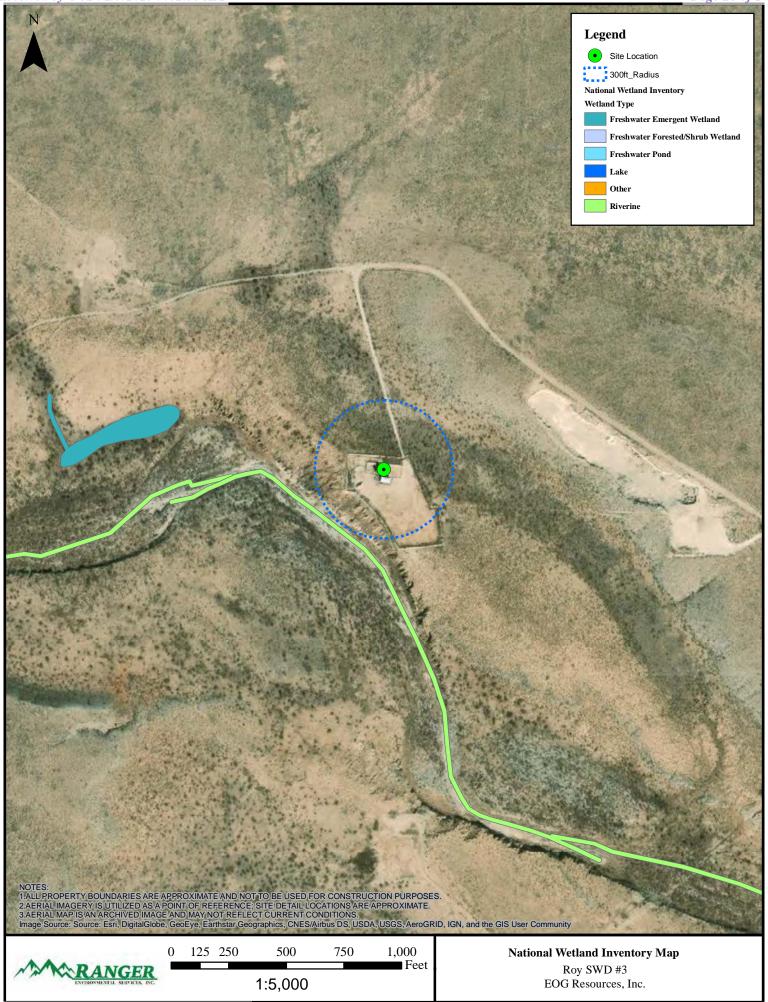
Remediation Plan Checklist: Each of the following items must be included in the plan.
 Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)
Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
Extents of contamination must be fully delineated.
Contamination does not cause an imminent risk to human health, the environment, or groundwater.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: Chase Settle Title: Rep Safety & Environmental Sr
Signature: Chase Settle Date: 02/03/2023
email: Chase_Settle@eogresources.com Telephone: 575-748-1471
OCD Only
Received by: Date:
Approved
Signature: Date:

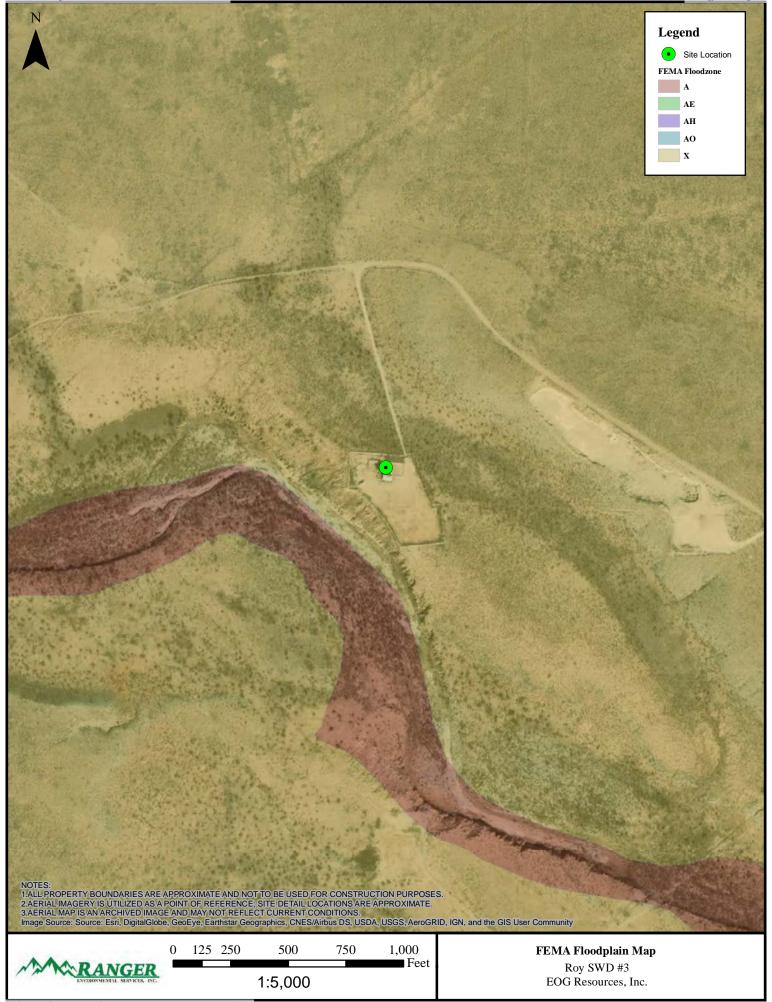
FIGURES

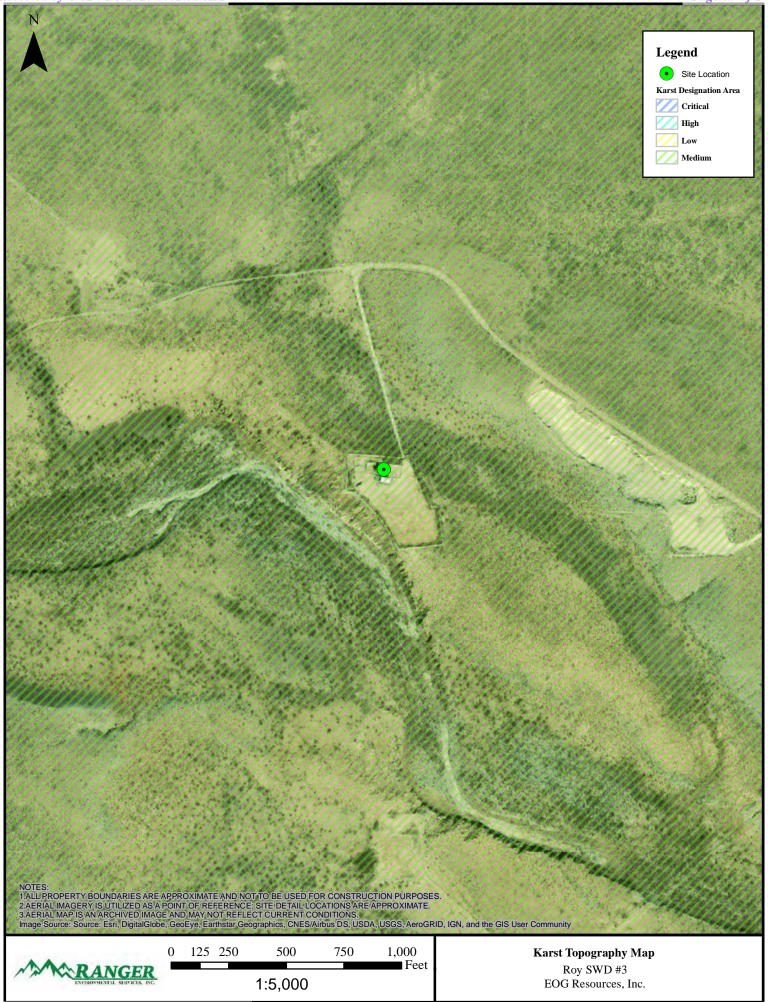
Topographic Map
Area Map
National Wetland Inventory Map
FEMA Floodplain Map
Karst Topography Map
Sample Location Map
Proposed Remediation Map

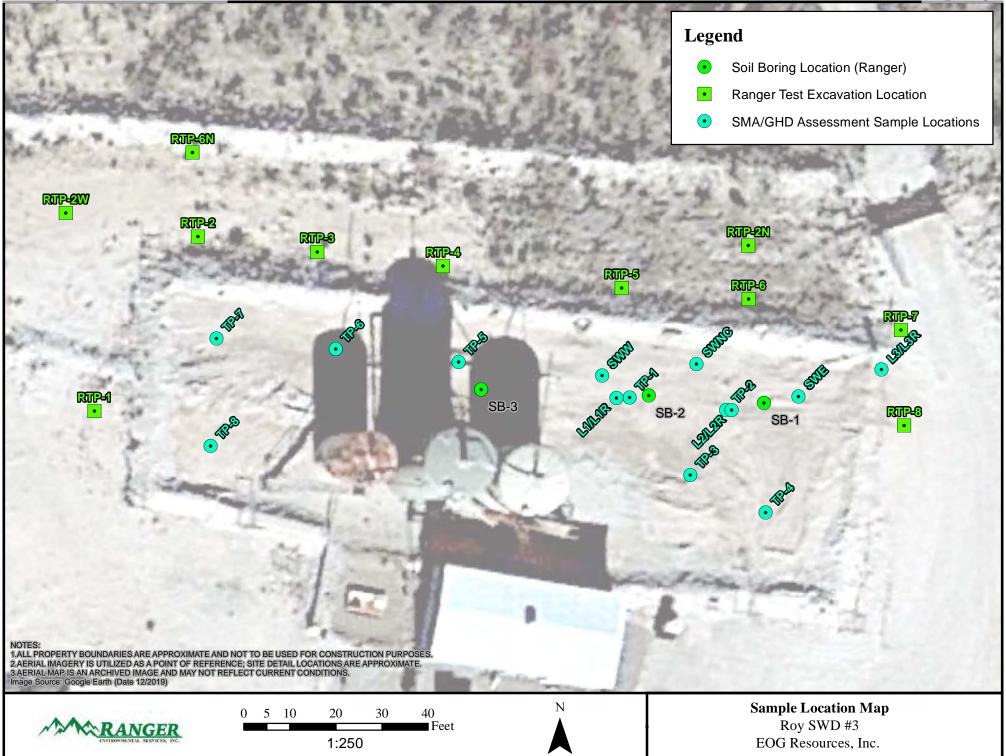


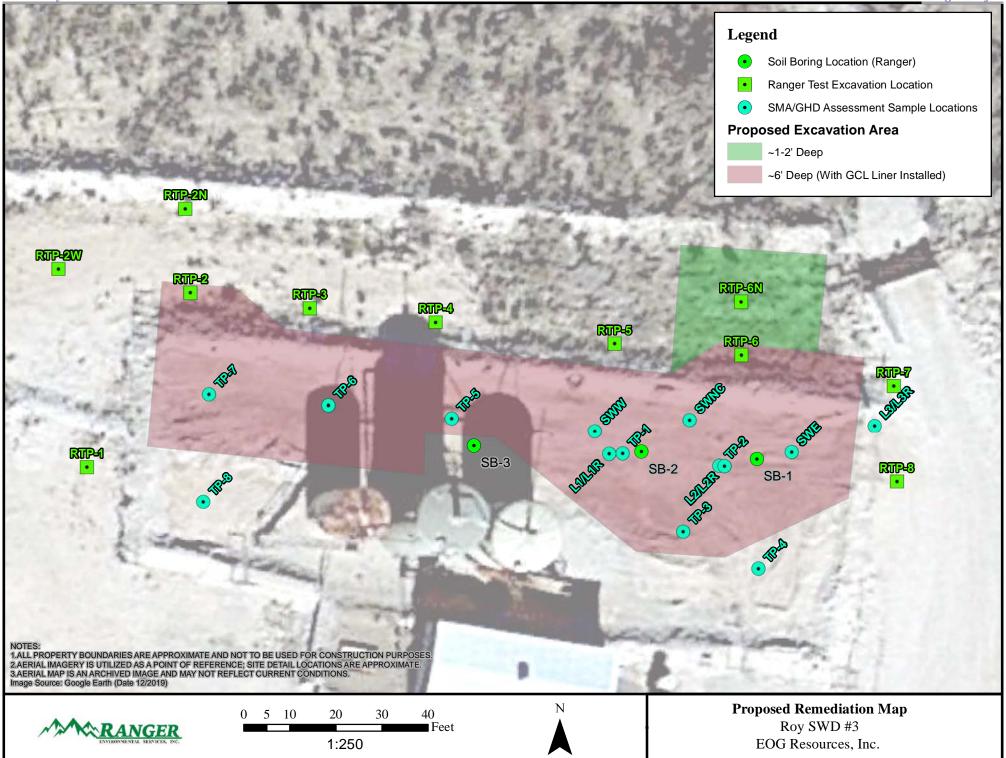












TABLES

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

Received by OCD: 2/3/2023 9:41:33 AM

SOIL BTEX (EPA 8260), TPH (EPA 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA ROY SWD #3 - TANK BATTERY AREA EDDY COUNTY, NEW MEXICO

All values presented in parts per million (mg/Kg)

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
April 10-11, 2019 Soil Borings	•				,								
L1R / 35'	4/10/2019	35	<0.025	<0.050	<0.050	<0.10	<0.225	<5.0	<9.9	<50	<14.9	<64.9	3,100
L1R / 40'	4/10/2019	40	<0.025	<0.048	<0.048	<0.097	<0.225	<4.8	<9.9	<49	<14.7	<63.7	530
L1R / 60'	4/10/2019	60	<0.023	<0.047	<0.047	<0.093	<0.210	<4.7	<9.1	<45	<13.8	<58.8	410
L2R / 0'	4/11/2019	0	<0.024	<0.048	<0.048	<0.097	<0.0217	<4.8	<9.0	<45	<13.8	<58.8	1,700
L2R / 20'	4/11/2019	20	<0.023	<0.047	<0.047	<0.094	<0.211	<4.7	<9.0	<45	<13.7	<58.7	1,700
L2R / 25'	4/11/2019	25	<0.024	<0.048	<0.048	<0.097	<0.217	<4.8	<8.8>	<44	<13.6	<57.6	10,000
L3R / 30'	4/11/2019	30	<0.212	<0.047	<0.047	<0.094	<0.212	<4.7	<8.7	<44	<13.4	<57.4	220
L3R / 35'	4/11/2019	35	<0.208	<0.046	<0.046	<0.093	<0.208	<4.6	<8.9	<45	<13.5	<58.5	140
L3R / 40'	4/11/2019	40	<0.212	<0.047	<0.047	<0.094	<0.212	<4.7	<9.8	<49	<14.5	<63.5	110
L3I(7 40	4/11/2019	40	Q0.212	<0.047	C0.047	V0.094	VO.212	V4. 1	\3.0	V43	V14.5	V03.3	110
eptember 3-4, 2019 Test Pits													
TP-1-12'	9/3/2019	12	<0.025	<0.050	<0.050	<0.100	<0.225	<5.0	<9.3	<46	<9.3	<60.3	2,900
TP-1-16'	9/3/2019	16	<0.024	<0.048	<0.048	<0.097	<0.217	<4.8	<9.9	<50	<9.9	<64.7	940
TP-1-20'	9/3/2019	20	<0.025	<0.049	<0.049	<0.099	<0.222	<4.9	<8.8	<44	<8.8	<57.7	3,500
TP-2-12'	9/3/2019	12	<0.025	<0.049	<0.049	<0.098	<0.221	<4.9	<9.4	<47	<9.4	<61.3	320
TP-2-16'	9/3/2019	16	<0.025	<0.050	<0.050	<0.099	<0.224	11	290	150	301	451	760
TP-2-20'	9/3/2019	20	<0.024	<0.049	<0.049	<0.098	<0.220	<4.9	<9.1	<45	<9.1	<59.0	1,000
TP-3-16'	9/3/2019	16	<0.024	<0.048	<0.048	<0.097	<0.217	<4.8	<9.0	<45	<9.0	<58.8	13,000
TP-3-20'	9/3/2019	20	<0.025	<0.049	<0.049	<0.099	<0.222	<4.9	<9.6	<48	<9.6	<62.5	12,000
2115 #	2/1/22/2												
SWE-4'	9/4/2019	4	<0.025	<0.049	<0.049	<0.098	<0.221	<4.9	<9.7	<49	<9.7	<63.6	1,800
SWW-4'	9/4/2019	4	<0.024	<0.048	<0.048	<0.096	<0.216	<4.8	7,100	5,000	7,100	12,100	3,900
SWNC-4'	9/4/2019	4	<0.025	<0.049	<0.049	<0.098	<0.221	<4.9	830	790	830	1,620	1,100
TP-4-5'	9/4/2019	5	<0.024	<0.047	<0.047	<0.095	<0.213	<4.7	<8.7	<44	<8.7	<57.4	400
TP-4-12'	9/4/2019	12	<0.023	<0.047	<0.047	<0.093	<0.210	<4.7	<9.6	<48	<9.6	<62.3	300
TP-5-5'	9/4/2019	5	<0.024	<0.048	<0.048	<0.096	<0.216	<4.8	1,200	1,100	1,200	2,300	200
TP-5-12'	9/4/2019	12	<0.024	<0.048	<0.048	<0.097	<0.217	<4.8	1,300	750	1,300	2,050	260
	0/4/22/2	_	0 :	0.51	0.51	0.10	4.55						r
TP-6-5'	9/4/2019	5	<0.120	<0.24	<0.24	<0.49	<1.09	17	4,200	2,100	4,217	6,317	350
TP-6-12'	9/4/2019	12	<0.023	<0.047	<0.047	<0.094	<0.211	<4.7	<9.3	<47	<9.3	<61	240
TD 7 C	0/4/0040		0.004	0.046	0.040	0.007	0.047	4.0	200	040	202		
TP-7-5'	9/4/2019	5	<0.024	<0.048	<0.048	<0.097	<0.217	<4.8	280	610	280	890	<60
TP-7-12'	9/4/2019	12	<0.025	<0.049	<0.049	<0.098	<0.221	<4.9	<10	<50	<10	<64.9	<60

Received by OCD: 2/3/2023 9:41:33 AM

SOIL BTEX (EPA 8260), TPH (EPA 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA ROY SWD #3 - TANK BATTERY AREA EDDY COUNTY, NEW MEXICO

All values presented in parts per million (mg/Kg)

					T							TPH	
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)	(GRO+DRO+ MRO)	CHLORID
TP-8-5'	9/4/2019	5	<0.024	<0.048	<0.048	<0.096	<0.216	<4.8	<8.5	<42	<8.5	<55.3	530
TP-8-12'	9/4/2019	12	<0.023	<0.046	<0.046	<0.093	<0.208	<4.6	<10	<51	<10	<65.6	430
18, 2022 Soil Borings			ļ										
SB1-23	5/18/2022	23'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<9.2	<46	<9.2	<46	1,400
SB1-38	5/18/2022	38'	<0.024	<0.048	<0.048	<0.095	<0.10	<4.8	<9.5	<47	<9.5	<47	670
SB1-39	5/18/2022	39'	<0.024	<0.047	<0.047	<0.094	<0.09	<4.7	<9.0	<45	<9.0	<45	590
SB1-40	5/18/2022	40'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<9.0	<45	<9.0	<45	260
051 40	0,10,2022	40	40.0 <u>2</u> 4	40.040	VO.040	40.000	40.10	44.0	νο.υ	440	40.0	440	200
SB2-29	5/18/2022	29'	< 0.023	<0.046	<0.046	<0.092	<0.09	<4.6	<9.8	<49	<9.8	<49	5,200
SB2-47	5/18/2022	47'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<8.6	<43	<8.6	<43	750
SB2-48	5/18/2022	48'	<0.024	<0.048	<0.048	<0.095	<0.10	<4.8	<9.9	<49	<9.9	<49	310
SB2-49	5/18/2022	49'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<9.9	<49	<9.9	<49	300
SB2-50	5/18/2022	50'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<9.1	<45	<9.1	<45	500
SB3-4	5/18/2022	4'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<10	<50	<10	<50	130
SB3-14	5/18/2022	14'	<0.023	<0.047	<0.047	<0.094	<0.09	<4.7	<10	<50	<10	<50	<60
SB3-29	5/18/2022	29'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<10	<50	<10	<50	63
SB3-30	5/18/2022	30'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<9.5	<47	<9.5	<47	<60
ust 2022 - Test Excavations			,	,		1							
RTP-1/1	8/22/2022	1'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<14	<48	<14	<48	<60
RTP-1/6	8/22/2022	6'	<0.024	<0.048	<0.048	<0.095	<0.10	<4.8	<15	<49	<15	<49	370
	1		1	1	1			1	1	1	ı	, ,	
RTP-2/1	8/22/2022	1'	<0.024	<0.047	<0.047	<0.094	<0.09	<4.7	<13	<44	<13	<44	<60
RTP-2/6	8/22/2022	6'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<15	<50	<15	<50	810
RTP-2/9	8/22/2022	9'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<15	<49	<15	<49	1,200
RTP-2/11	8/22/2022	11'	<0.024	<0.048	<0.048	<0.095	<0.10	<4.8	<15	<48	<15	<48	610
RTP-3/1	8/22/2022	1'	<0.023	<0.047	<0.047	<0.093	<0.09	<4.7	<15	<49	<15	<49	<60
RTP-3/1	8/22/2022	4'	<0.023	<0.047	<0.047	<0.093	<0.09	<4.7	<15	<49 <47	<15	<49 <47	440
RTP-3/6	8/22/2022	6'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9 <4.9	<13	<47 <45	<14	<47 <45	440
1(11 0/0	0,22,2022		10.020	30.040	30.040	10.000	30.10	\T.0	×10	\ 1 0	\10	\ 1 0	440
RTP-4/1	8/22/2022	1'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<14	<48	<14	<48	<60
RTP-4/6	8/22/2022	6'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<14	<46	<14	<46	80
	L	•	•		•					ı	1		
RTP-5/1	8/22/2022	1'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<13	<44	<13	<44	<60

Received by OCD: 2/3/2023 9:41:33 AM

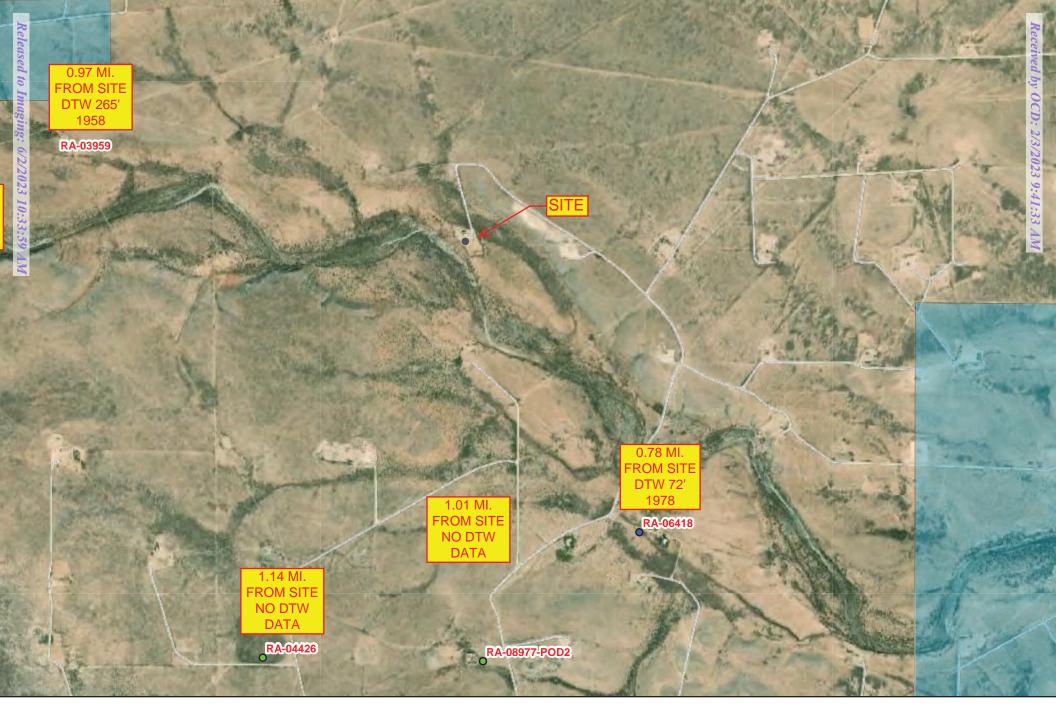
SOIL BTEX (EPA 8260), TPH (EPA 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA ROY SWD #3 - TANK BATTERY AREA EDDY COUNTY, NEW MEXICO

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
RTP-6/1	8/22/2022	1'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	<13	<44	<13	<44	<60
RTP-6/6	8/22/2022	6'	<0.024	<0.048	<0.048	<0.095	<0.10	<4.8	<14	<45	<14	<45	940
RTP-6/7	8/22/2022	7'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<15	<49	<15	<49	670
RTP-7/1	8/23/2022	1'	<0.023	<0.046	<0.046	<0.091	<0.09	<4.6	<15	<49	<15	<49	<60
RTP-7/6	8/23/2022	6'	<0.024	<0.048	<0.048	<0.095	<0.10	<4.8	<15	<50	<15	<50	<60
RTP-8/1	8/23/2022	1'	<0.024	<0.047	<0.047	<0.094	<0.09	<4.7	20	72	20	92	69
RTP-8/6	8/23/2022	6'	<0.024	<0.047	<0.047	<0.094	<0.09	<4.7 <4.9	<15	<49	<15	92 <49	140
ptember 2022 - Test Excavations RTP-2W/2	9/23/2022	2'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<14	<48	<14	<48	160
RTP-2W/2 RTP-2W/4	9/23/2022 9/23/2022	2' 4'	<0.025 <0.024	<0.050 <0.047	<0.050 <0.047	<0.099 <0.094	<0.10	<5.0 <4.7	<14 <15	<48 <49	<14 <15	<48 <49	160 590
	1				•			•					
RTP-2N/1	9/23/2022	1'	<0.024	<0.047	<0.047	<0.094	<0.09	<4.7	<14	<46	<14	<46	<60
RTP-2N/4	9/23/2022	4'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	<14	<48	<14	<48	95
RTP-6N/1	9/23/2022	1'	<0.023	<0.046	<0.046	<0.093	<0.09	<4.6	61	95	61	156	<60
RTP-6N/4	9/23/2022	4'	<0.023	<0.047	<0.047	<0.094	<0.09	<4.7	<14	<46	<14	<46	<60
9.15.29.12 NMAC Table 1 Closure by a Release (G		s Impacted	10				50					100	600
19.15.29.13 NMAC Recl (0'-4' Soils 0			10 ³				50 ³					100 ³	600

Notes:

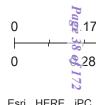
- 1. Results exceeding the Table 1 Closure Criteria are presented in bold type and are highlighted yellow.
- 2. Results exceeding the NMAC Restoration, Reclamation and re-vegetation chloride concentration requirements are presented in bold red type.
- 3. Value derived from the State of New Mexico Energy, Minerals and Natural Resources Department document Procedures for the Implementation of the Spill Rule (19.15.29 NMAC) dated September 6, 2019.
- 4. NA Not Analyzed



District Boundary SiteBoundaries

State Trust Lands

Estates





New Mexico Office of the State Engineer

Point of Diversion Summary

	OD Number	(quarters	are small	2=NE 3=St est to larges Sec Tws	Rng	X	TM in meters) Y	
Driller License	A 06418 e: 406	Driller C		17 19S 7: TIE		545925 CLYDE J.	3613710*	
Drill Start Date:		Drill Fini PCW Re		: 13	2/18/1978		ug Date: ource:	Shallow
Pump Type:	7.00	Pipe Disc	_		20 feet		timated Yield	: 72 feet
Casing Size:	/ater Bearing Stratif	Depth W		Bottom 75	Descrip Shallow	otion / Alluviun	n/Basin Fill	72 feet
	Casing Per	forations:	Тор	Bottom				

^{*}UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

51

109

10/8/21 12:23 PM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

715 feet

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

POD Number

Q64 Q16 Q4 Sec Tws Rng

RA 04426

4 3 18 19S 25E

544412 3613201*

Driller License:

Well Tag

Driller Company:

Driller Name: PETERS

Drill Start Date: Drill Finish Date: Log File Date: **PCW Rcv Date:**

Plug Date: Source:

Pump Type: **Casing Size:** Pipe Discharge Size:

Estimated Yield:

7.00

Depth Well:

Depth Water:

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

10/8/21 1:05 PM

POINT OF DIVERSION SUMMARY

^{*}UTM location was derived from PLSS - see Help



Click to hideNews Bulletins

- Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

site_no list =

323948104302801

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 323948104302801 19S.25E.17.321212

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°39'48", Longitude 104°30'28" NAD27

Land-surface elevation 3,526 feet above NAVD88

This well is completed in the Roswell Basin aquifer system (S400RSWLBS) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

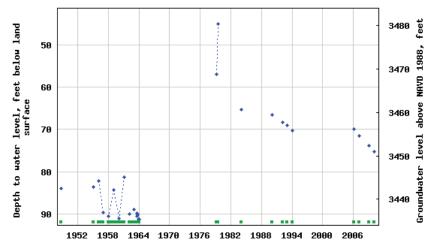
Output formats

<u>Table of data</u> <u>Tab-separated data</u>

Graph of data

Reselect period





- Period of approved data

Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u> Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels

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

Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2021-10-08 15:51:31 EDT

0.61 0.53 nadww02





Click to hideNews Bulletins

- Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

site_no list =

323948104302901

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 323948104302901 19S.25E.17.321211

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°39'48", Longitude 104°30'29" NAD27

Land-surface elevation 3,528 feet above NAVD88

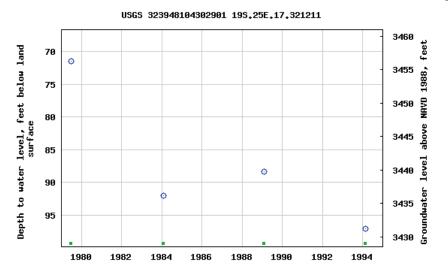
The depth of the well is 120 feet below land surface.

This well is completed in the Roswell Basin aquifer system (S400RSWLBS) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats





Period of approved data

Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u> Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility FOIA Privacy Policies and Notice

<u>U.S. Department of the Interior</u> | <u>U.S. Geological Survey</u>

Title: Groundwater for USA: Water Levels

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

Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2021-10-08 15:49:26 EDT

0.55 0.48 nadww02





Click to hideNews Bulletins

- Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

site_no list =

324004104285801

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 324004104285801 19S.25E.16.22332

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°40'04", Longitude 104°28'58" NAD27

Land-surface elevation 3,487 feet above NAVD88

This well is completed in the Roswell Basin aquifer system (S400RSWLBS) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

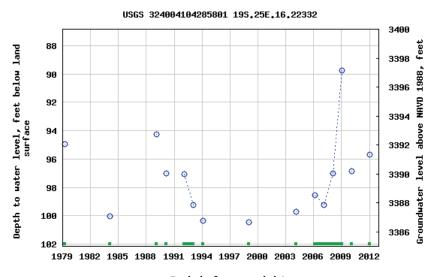
Output formats

Table of data

Tab-separated data

Craph of data

Reselect period



Period of approved data

Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u> Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels

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

Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2021-10-08 15:55:24 EDT

0.59 0.5 nadww02





0

Click to hideNews Bulletins

- Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

site_no list =

324024104322201

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 324024104322201 19S.24E.12.413200

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°40'24", Longitude 104°32'22" NAD27

Land-surface elevation 3,589 feet above NGVD29

This well is completed in the Roswell Basin aquifer system (S400RSWLBS) national aquifer.

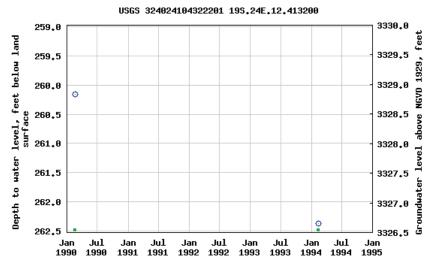
This well is completed in the Artesia Group (313ARTS) local aquifer.

Output formats

<u>Table of data</u>

<u>Tab-separated data</u>

Reselect period



Period of approved data

Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u> Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels

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

Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2021-10-08 15:22:52 EDT

0.71 0.63 nadww02





Click to hideNews Bulletins

- Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

site_no list =

324041104294801

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 324041104294801 19S.25E.08.42222

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°40'41", Longitude 104°29'48" NAD27

Land-surface elevation 3,539 feet above NAVD88

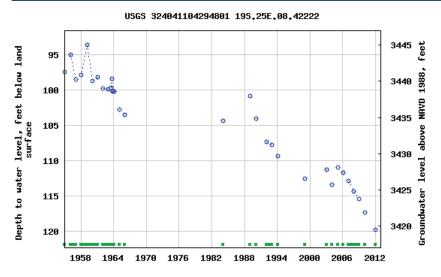
The depth of the well is 142 feet below land surface.

This well is completed in the Roswell Basin aquifer system (S400RSWLBS) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats





Period of approved data

Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u> Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility FOIA Privacy Policies a

U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels

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

Page Contact Information: <u>USGS Water Data Support Team</u>

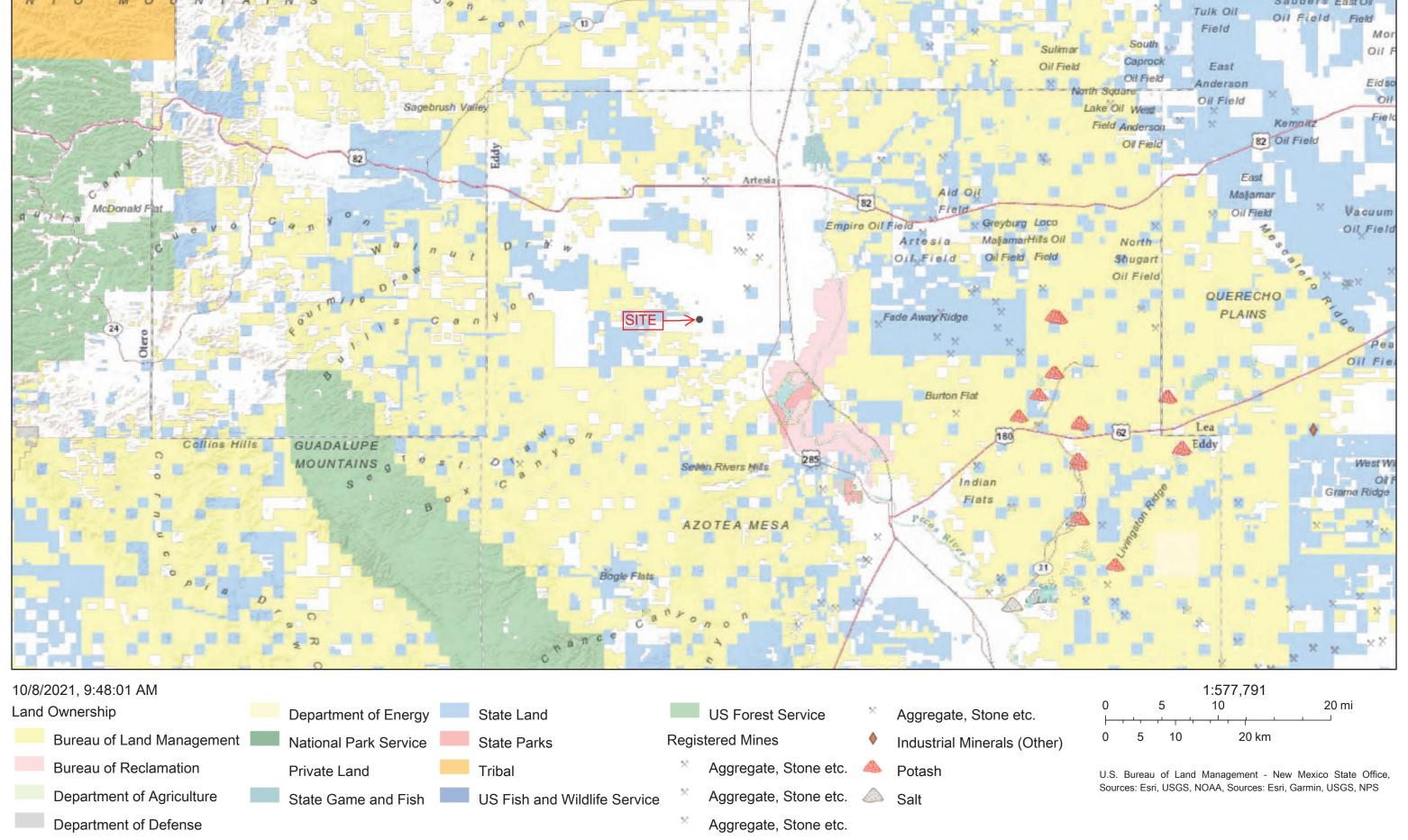
Page Last Modified: 2021-10-08 15:54:11 EDT

0.6 0.51 nadww02



ATTACHMENT 2 – NM ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT ACTIVE MINES MAP

Active Mines in New Mexico



ATTACHMENT 3 – PHOTOGRAPHIC DOCUMENTATION

Released to Imaging: 6/2/2023 10:33:59 AM



PHOTOGRAPH NO. 1 – A typical view of the soil boring installation activities at the SB-2 location. The view is towards the west.

(Approximate GPS: 32.670983, -104.517602)



PHOTOGRAPH NO. 2 - A typical view of the soil boring plugging and abandonment activities following installation and sampling.
(Approximate GPS: 32.670981, -104.517583)



PHOTOGRAPH NO. 3-A typical view of the assessment activities on August 23, 2022. The view is towards the north.

(Approximate GPS: 32.670948, -104.517505)

ATTACHMENT 4 – LABORATORY RE	EPORTS



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

June 02, 2022

Will Kierdorf
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX:

RE: Roy SWD 3 OrderNo.: 2205923

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 21 sample(s) on 5/20/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

and st

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order **2205923**

Hall Environmental Analysis Laboratory, Inc. Date Reported: 6/2/2022

CLIENT: EOG Client Sample ID: SB1-23

 Project:
 Roy SWD 3
 Collection Date: 5/18/2022 8:37:00 AM

 Lab ID:
 2205923-001
 Matrix: SOIL
 Received Date: 5/20/2022 7:05:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: NAI
Chloride	1400	60	mg/Kg	20	5/25/2022 7:29:55 PM	67690
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	t: SB
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	5/23/2022 1:17:23 PM	67607
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	5/23/2022 1:17:23 PM	67607
Surr: DNOP	86.1	51.1-141	%Rec	1	5/23/2022 1:17:23 PM	67607
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: BRM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/24/2022	67603
Surr: BFB	83.8	37.7-212	%Rec	1	5/24/2022	67603
EPA METHOD 8021B: VOLATILES					Analys	t: BRM
Benzene	ND	0.024	mg/Kg	1	5/24/2022	67603
Toluene	ND	0.048	mg/Kg	1	5/24/2022	67603
Ethylbenzene	ND	0.048	mg/Kg	1	5/24/2022	67603
Xylenes, Total	ND	0.097	mg/Kg	1	5/24/2022	67603
Surr: 4-Bromofluorobenzene	86.0	70-130	%Rec	1	5/24/2022	67603

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 27

Lab Order **2205923**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/2/2022

CLIENT: EOG Client Sample ID: SB1-38

 Project:
 Roy SWD 3
 Collection Date: 5/18/2022 9:35:00 AM

 Lab ID:
 2205923-002
 Matrix: SOIL
 Received Date: 5/20/2022 7:05:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: NAI
Chloride	670	60	mg/Kg	20	5/25/2022 7:42:16 PM	67690
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	:: SB
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	5/23/2022 1:41:05 PM	67607
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/23/2022 1:41:05 PM	67607
Surr: DNOP	82.3	51.1-141	%Rec	1	5/23/2022 1:41:05 PM	67607
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: BRM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/24/2022 12:40:00 AM	67603
Surr: BFB	90.9	37.7-212	%Rec	1	5/24/2022 12:40:00 AM	67603
EPA METHOD 8021B: VOLATILES					Analyst	: BRM
Benzene	ND	0.024	mg/Kg	1	5/24/2022 12:40:00 AM	67603
Toluene	ND	0.048	mg/Kg	1	5/24/2022 12:40:00 AM	67603
Ethylbenzene	ND	0.048	mg/Kg	1	5/24/2022 12:40:00 AM	67603
Xylenes, Total	ND	0.095	mg/Kg	1	5/24/2022 12:40:00 AM	67603
Surr: 4-Bromofluorobenzene	89.9	70-130	%Rec	1	5/24/2022 12:40:00 AM	67603

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 27

CLIENT: EOG

Analytical Report

Lab Order **2205923**

Date Reported: 6/2/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SB1-39

 Project:
 Roy SWD 3
 Collection Date: 5/18/2022 9:36:00 AM

 Lab ID:
 2205923-003
 Matrix: SOIL
 Received Date: 5/20/2022 7:05:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	t: NAI
Chloride	590	60	mg/Kg	20	5/25/2022 7:54:37 PM	67690
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	t: SB
Diesel Range Organics (DRO)	ND	9.0	mg/Kg	1	5/23/2022 2:04:55 PM	67607
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	5/23/2022 2:04:55 PM	67607
Surr: DNOP	82.4	51.1-141	%Rec	1	5/23/2022 2:04:55 PM	67607
EPA METHOD 8015D: GASOLINE RANGE					Analyst	t: BRM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/24/2022 12:59:00 AM	67603
Surr: BFB	92.9	37.7-212	%Rec	1	5/24/2022 12:59:00 AM	67603
EPA METHOD 8021B: VOLATILES					Analyst	t: BRM
Benzene	ND	0.024	mg/Kg	1	5/24/2022 12:59:00 AM	67603
Toluene	ND	0.047	mg/Kg	1	5/24/2022 12:59:00 AM	67603
Ethylbenzene	ND	0.047	mg/Kg	1	5/24/2022 12:59:00 AM	67603
Xylenes, Total	ND	0.094	mg/Kg	1	5/24/2022 12:59:00 AM	67603
Surr: 4-Bromofluorobenzene	93.4	70-130	%Rec	1	5/24/2022 12:59:00 AM	67603

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 27

CLIENT: EOG

Analytical Report

Lab Order **2205923**Date Reported: **6/2/2022**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SB1-40

 Project:
 Roy SWD 3
 Collection Date: 5/18/2022 9:37:00 AM

 Lab ID:
 2205923-004
 Matrix: SOIL
 Received Date: 5/20/2022 7:05:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride 260 61 mg/Kg 20 5/25/2022 8:06:57 PM 67690 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 9.0 mg/Kg 5/23/2022 2:28:44 PM 67607 Motor Oil Range Organics (MRO) ND 45 mg/Kg 1 5/23/2022 2:28:44 PM 67607 Surr: DNOP 80.4 51.1-141 %Rec 5/23/2022 2:28:44 PM 67607 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 5/24/2022 1:19:00 AM 67603 4.8 mg/Kg Surr: BFB 93.2 37.7-212 %Rec 5/24/2022 1:19:00 AM 67603 **EPA METHOD 8021B: VOLATILES** Analyst: BRM ND 0.024 5/24/2022 1:19:00 AM 67603 Benzene mg/Kg Toluene ND 0.048 mg/Kg 5/24/2022 1:19:00 AM 67603 Ethylbenzene ND 0.048 mg/Kg 1 5/24/2022 1:19:00 AM 67603 Xylenes, Total ND 0.096 mg/Kg 5/24/2022 1:19:00 AM 67603 Surr: 4-Bromofluorobenzene 70-130 95.3 %Rec 5/24/2022 1:19:00 AM 67603

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

rting Limit Page 4 of 27

Lab Order **2205923**Date Reported: 6/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SB2-29

 Project:
 Roy SWD 3
 Collection Date: 5/18/2022 10:49:00 AM

 Lab ID:
 2205923-005
 Matrix: SOIL
 Received Date: 5/20/2022 7:05:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: NAI
Chloride	5200	300	mg/Kg	100	5/26/2022 10:36:38 AM	67690
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	t: SB
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	5/23/2022 2:52:34 PM	67607
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/23/2022 2:52:34 PM	67607
Surr: DNOP	83.2	51.1-141	%Rec	1	5/23/2022 2:52:34 PM	67607
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: BRM
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	5/24/2022 1:39:00 AM	67603
Surr: BFB	94.5	37.7-212	%Rec	1	5/24/2022 1:39:00 AM	67603
EPA METHOD 8021B: VOLATILES					Analys	t: BRM
Benzene	ND	0.023	mg/Kg	1	5/24/2022 1:39:00 AM	67603
Toluene	ND	0.046	mg/Kg	1	5/24/2022 1:39:00 AM	67603
Ethylbenzene	ND	0.046	mg/Kg	1	5/24/2022 1:39:00 AM	67603
Xylenes, Total	ND	0.092	mg/Kg	1	5/24/2022 1:39:00 AM	67603
Surr: 4-Bromofluorobenzene	96.1	70-130	%Rec	1	5/24/2022 1:39:00 AM	67603

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 27

CLIENT: EOG

Analytical Report

Lab Order **2205923**Date Reported: 6/2/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SB2-47

 Project:
 Roy SWD 3
 Collection Date: 5/18/2022 11:57:00 AM

 Lab ID:
 2205923-006
 Matrix: SOIL
 Received Date: 5/20/2022 7:05:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: NAI
Chloride	750	60	mg/Kg	20	5/25/2022 8:56:19 PM	67690
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analys	t: SB
Diesel Range Organics (DRO)	ND	8.6	mg/Kg	1	5/23/2022 3:16:20 PM	67607
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	5/23/2022 3:16:20 PM	67607
Surr: DNOP	85.5	51.1-141	%Rec	1	5/23/2022 3:16:20 PM	67607
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: BRM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/24/2022 1:58:00 AM	67603
Surr: BFB	91.4	37.7-212	%Rec	1	5/24/2022 1:58:00 AM	67603
EPA METHOD 8021B: VOLATILES					Analys	t: BRM
Benzene	ND	0.024	mg/Kg	1	5/24/2022 1:58:00 AM	67603
Toluene	ND	0.048	mg/Kg	1	5/24/2022 1:58:00 AM	67603
Ethylbenzene	ND	0.048	mg/Kg	1	5/24/2022 1:58:00 AM	67603
Xylenes, Total	ND	0.096	mg/Kg	1	5/24/2022 1:58:00 AM	67603
Surr: 4-Bromofluorobenzene	93.4	70-130	%Rec	1	5/24/2022 1:58:00 AM	67603

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 27

Lab Order **2205923**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/2/2022

CLIENT: EOG Client Sample ID: SB2-48

 Project:
 Roy SWD 3
 Collection Date: 5/18/2022 11:58:00 AM

 Lab ID:
 2205923-007
 Matrix: SOIL
 Received Date: 5/20/2022 7:05:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: NAI
Chloride	310	60	mg/Kg	20	5/25/2022 9:08:40 PM	67690
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	t: SB
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	5/23/2022 3:40:20 PM	67607
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/23/2022 3:40:20 PM	67607
Surr: DNOP	84.3	51.1-141	%Rec	1	5/23/2022 3:40:20 PM	67607
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: BRM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/24/2022 2:18:00 AM	67603
Surr: BFB	92.2	37.7-212	%Rec	1	5/24/2022 2:18:00 AM	67603
EPA METHOD 8021B: VOLATILES					Analys	t: BRM
Benzene	ND	0.024	mg/Kg	1	5/24/2022 2:18:00 AM	67603
Toluene	ND	0.048	mg/Kg	1	5/24/2022 2:18:00 AM	67603
Ethylbenzene	ND	0.048	mg/Kg	1	5/24/2022 2:18:00 AM	67603
Xylenes, Total	ND	0.095	mg/Kg	1	5/24/2022 2:18:00 AM	67603
Surr: 4-Bromofluorobenzene	95.8	70-130	%Rec	1	5/24/2022 2:18:00 AM	67603

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 7 of 27

Lab Order **2205923**

Date Reported: 6/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SB2-49

 Project:
 Roy SWD 3
 Collection Date: 5/18/2022 11:59:00 AM

 Lab ID:
 2205923-008
 Matrix: SOIL
 Received Date: 5/20/2022 7:05:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: NAI
Chloride	300	60	mg/Kg	20	5/25/2022 9:21:00 PM	67690
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	t: SB
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	5/23/2022 4:04:25 PM	67607
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/23/2022 4:04:25 PM	67607
Surr: DNOP	81.5	51.1-141	%Rec	1	5/23/2022 4:04:25 PM	67607
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/24/2022 2:38:00 AM	67603
Surr: BFB	95.7	37.7-212	%Rec	1	5/24/2022 2:38:00 AM	67603
EPA METHOD 8021B: VOLATILES					Analys	t: BRM
Benzene	ND	0.025	mg/Kg	1	5/24/2022 2:38:00 AM	67603
Toluene	ND	0.049	mg/Kg	1	5/24/2022 2:38:00 AM	67603
Ethylbenzene	ND	0.049	mg/Kg	1	5/24/2022 2:38:00 AM	67603
Xylenes, Total	ND	0.098	mg/Kg	1	5/24/2022 2:38:00 AM	67603
Surr: 4-Bromofluorobenzene	97.4	70-130	%Rec	1	5/24/2022 2:38:00 AM	67603

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 8 of 27

Lab Order **2205923**

Date Reported: 6/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SB2-50

 Project:
 Roy SWD 3
 Collection Date: 5/18/2022 12:00:00 PM

 Lab ID:
 2205923-009
 Matrix: SOIL
 Received Date: 5/20/2022 7:05:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: NAI
Chloride	500	60	mg/Kg	20	5/25/2022 9:33:21 PM	67690
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	t: SB
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	5/23/2022 4:28:29 PM	67607
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	5/23/2022 4:28:29 PM	67607
Surr: DNOP	83.7	51.1-141	%Rec	1	5/23/2022 4:28:29 PM	67607
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/24/2022 2:58:00 AM	67603
Surr: BFB	101	37.7-212	%Rec	1	5/24/2022 2:58:00 AM	67603
EPA METHOD 8021B: VOLATILES					Analys	t: BRM
Benzene	ND	0.025	mg/Kg	1	5/24/2022 2:58:00 AM	67603
Toluene	ND	0.049	mg/Kg	1	5/24/2022 2:58:00 AM	67603
Ethylbenzene	ND	0.049	mg/Kg	1	5/24/2022 2:58:00 AM	67603
Xylenes, Total	ND	0.098	mg/Kg	1	5/24/2022 2:58:00 AM	67603
Surr: 4-Bromofluorobenzene	98.8	70-130	%Rec	1	5/24/2022 2:58:00 AM	67603

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 9 of 27

Lab Order **2205923**

Hall Environmental Analysis Laboratory, Inc. Date Reported: 6/2/2022

CLIENT: EOG Client Sample ID: SB3-4

 Project:
 Roy SWD 3
 Collection Date: 5/18/2022 1:04:00 PM

 Lab ID:
 2205923-010
 Matrix: SOIL
 Received Date: 5/20/2022 7:05:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	: NAI
Chloride	130	60	mg/Kg	20	5/25/2022 10:35:03 PM	67699
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	t: SB
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/23/2022 4:52:34 PM	67607
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/23/2022 4:52:34 PM	67607
Surr: DNOP	87.9	51.1-141	%Rec	1	5/23/2022 4:52:34 PM	67607
EPA METHOD 8015D: GASOLINE RANGE					Analys	: BRM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/24/2022 3:17:00 AM	67603
Surr: BFB	97.3	37.7-212	%Rec	1	5/24/2022 3:17:00 AM	67603
EPA METHOD 8021B: VOLATILES					Analys	t: BRM
Benzene	ND	0.024	mg/Kg	1	5/24/2022 3:17:00 AM	67603
Toluene	ND	0.048	mg/Kg	1	5/24/2022 3:17:00 AM	67603
Ethylbenzene	ND	0.048	mg/Kg	1	5/24/2022 3:17:00 AM	67603
Xylenes, Total	ND	0.096	mg/Kg	1	5/24/2022 3:17:00 AM	67603
Surr: 4-Bromofluorobenzene	99.1	70-130	%Rec	1	5/24/2022 3:17:00 AM	67603

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 10 of 27

Lab Order **2205923**

Hall Environmental Analysis Laboratory, Inc. Date Reported: 6/2/2022

CLIENT: EOG Client Sample ID: SB3-14

 Project:
 Roy SWD 3
 Collection Date: 5/18/2022 1:14:00 PM

 Lab ID:
 2205923-011
 Matrix: SOIL
 Received Date: 5/20/2022 7:05:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	: NAI
Chloride	ND	60	mg/Kg	20	5/25/2022 10:47:24 PM	67699
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	: ED
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/26/2022 1:40:05 AM	67669
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/26/2022 1:40:05 AM	67669
Surr: DNOP	96.5	51.1-141	%Rec	1	5/26/2022 1:40:05 AM	67669
EPA METHOD 8015D: GASOLINE RANGE					Analys	: BRM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/24/2022 3:37:00 AM	67603
Surr: BFB	92.9	37.7-212	%Rec	1	5/24/2022 3:37:00 AM	67603
EPA METHOD 8021B: VOLATILES					Analys	BRM
Benzene	ND	0.023	mg/Kg	1	5/24/2022 3:37:00 AM	67603
Toluene	ND	0.047	mg/Kg	1	5/24/2022 3:37:00 AM	67603
Ethylbenzene	ND	0.047	mg/Kg	1	5/24/2022 3:37:00 AM	67603
Xylenes, Total	ND	0.094	mg/Kg	1	5/24/2022 3:37:00 AM	67603
Surr: 4-Bromofluorobenzene	97.1	70-130	%Rec	1	5/24/2022 3:37:00 AM	67603

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 11 of 27

Lab Order **2205923**

Hall Environmental Analysis Laboratory, Inc. Date Reported: 6/2/2022

CLIENT: EOG Client Sample ID: SB3-29

 Project:
 Roy SWD 3
 Collection Date: 5/18/2022 1:31:00 PM

 Lab ID:
 2205923-012
 Matrix: SOIL
 Received Date: 5/20/2022 7:05:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	: NAI
Chloride	63	60	mg/Kg	20	5/25/2022 11:24:26 PM	67699
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analys	: ED
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/26/2022 2:53:17 AM	67669
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/26/2022 2:53:17 AM	67669
Surr: DNOP	93.8	51.1-141	%Rec	1	5/26/2022 2:53:17 AM	67669
EPA METHOD 8015D: GASOLINE RANGE					Analys	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/23/2022 9:40:57 PM	67605
Surr: BFB	90.7	37.7-212	%Rec	1	5/23/2022 9:40:57 PM	67605
EPA METHOD 8021B: VOLATILES					Analys	: NSB
Benzene	ND	0.025	mg/Kg	1	5/23/2022 9:40:57 PM	67605
Toluene	ND	0.049	mg/Kg	1	5/23/2022 9:40:57 PM	67605
Ethylbenzene	ND	0.049	mg/Kg	1	5/23/2022 9:40:57 PM	67605
Xylenes, Total	ND	0.099	mg/Kg	1	5/23/2022 9:40:57 PM	67605
Surr: 4-Bromofluorobenzene	95.5	70-130	%Rec	1	5/23/2022 9:40:57 PM	67605

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 12 of 27

Lab Order 2205923

Date Reported: 6/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SB3-30

 Project:
 Roy SWD 3
 Collection Date: 5/18/2022 1:32:00 PM

 Lab ID:
 2205923-013
 Matrix: SOIL
 Received Date: 5/20/2022 7:05:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	: NAI
Chloride	ND	60	mg/Kg	20	5/25/2022 11:36:46 PM	67699
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analys	: ED
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	5/26/2022 3:17:42 AM	67669
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/26/2022 3:17:42 AM	67669
Surr: DNOP	91.1	51.1-141	%Rec	1	5/26/2022 3:17:42 AM	67669
EPA METHOD 8015D: GASOLINE RANGE					Analys	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/23/2022 10:51:34 PM	67605
Surr: BFB	92.4	37.7-212	%Rec	1	5/23/2022 10:51:34 PM	67605
EPA METHOD 8021B: VOLATILES					Analys	: NSB
Benzene	ND	0.024	mg/Kg	1	5/23/2022 10:51:34 PM	67605
Toluene	ND	0.049	mg/Kg	1	5/23/2022 10:51:34 PM	67605
Ethylbenzene	ND	0.049	mg/Kg	1	5/23/2022 10:51:34 PM	67605
Xylenes, Total	ND	0.098	mg/Kg	1	5/23/2022 10:51:34 PM	67605
Surr: 4-Bromofluorobenzene	97.0	70-130	%Rec	1	5/23/2022 10:51:34 PM	67605

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 13 of 27

Lab Order 2205923

Hall Environmental Analysis Laboratory, Inc. Date Reported: 6/2/2022

CLIENT: EOG Client Sample ID: SB4-10

 Project:
 Roy SWD 3
 Collection Date: 5/19/2022 7:40:00 AM

 Lab ID:
 2205923-014
 Matrix: SOIL
 Received Date: 5/20/2022 7:05:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: NAI
Chloride	1300	59	mg/Kg	20	5/25/2022 11:49:07 PM	67699
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst	:: ED
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	5/26/2022 4:06:15 AM	67669
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/26/2022 4:06:15 AM	67669
Surr: DNOP	96.6	51.1-141	%Rec	1	5/26/2022 4:06:15 AM	67669
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/24/2022 12:02:08 AM	67605
Surr: BFB	89.7	37.7-212	%Rec	1	5/24/2022 12:02:08 AM	67605
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	5/24/2022 12:02:08 AM	67605
Toluene	ND	0.050	mg/Kg	1	5/24/2022 12:02:08 AM	67605
Ethylbenzene	ND	0.050	mg/Kg	1	5/24/2022 12:02:08 AM	67605
Xylenes, Total	ND	0.10	mg/Kg	1	5/24/2022 12:02:08 AM	67605
Surr: 4-Bromofluorobenzene	94.2	70-130	%Rec	1	5/24/2022 12:02:08 AM	67605

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 14 of 27

Analytical Report

Lab Order **2205923**Date Reported: 6/2/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SB4-15

 Project:
 Roy SWD 3
 Collection Date: 5/19/2022 7:45:00 AM

 Lab ID:
 2205923-015
 Matrix: SOIL
 Received Date: 5/20/2022 7:05:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: NAI
Chloride	890	60	mg/Kg	20	5/26/2022 12:01:28 AM	67699
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: ED
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	5/26/2022 4:30:33 AM	67669
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/26/2022 4:30:33 AM	67669
Surr: DNOP	97.9	51.1-141	%Rec	1	5/26/2022 4:30:33 AM	67669
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/24/2022 12:25:48 AM	67605
Surr: BFB	92.3	37.7-212	%Rec	1	5/24/2022 12:25:48 AM	67605
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	5/24/2022 12:25:48 AM	67605
Toluene	ND	0.049	mg/Kg	1	5/24/2022 12:25:48 AM	67605
Ethylbenzene	ND	0.049	mg/Kg	1	5/24/2022 12:25:48 AM	67605
Xylenes, Total	ND	0.097	mg/Kg	1	5/24/2022 12:25:48 AM	67605
Surr: 4-Bromofluorobenzene	95.4	70-130	%Rec	1	5/24/2022 12:25:48 AM	67605

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 15 of 27

Analytical Report

Lab Order **2205923**Date Reported: **6/2/2022**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SB4-20

 Project:
 Roy SWD 3
 Collection Date: 5/19/2022 7:50:00 AM

 Lab ID:
 2205923-016
 Matrix: SOIL
 Received Date: 5/20/2022 7:05:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: NAI
Chloride	250	59	mg/Kg	20	5/26/2022 12:13:48 AM	67699
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	:: ED
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	5/26/2022 4:54:48 AM	67669
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	5/26/2022 4:54:48 AM	67669
Surr: DNOP	97.4	51.1-141	%Rec	1	5/26/2022 4:54:48 AM	67669
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/24/2022 12:49:23 AM	67605
Surr: BFB	89.7	37.7-212	%Rec	1	5/24/2022 12:49:23 AM	67605
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	5/24/2022 12:49:23 AM	67605
Toluene	ND	0.049	mg/Kg	1	5/24/2022 12:49:23 AM	67605
Ethylbenzene	ND	0.049	mg/Kg	1	5/24/2022 12:49:23 AM	67605
Xylenes, Total	ND	0.097	mg/Kg	1	5/24/2022 12:49:23 AM	67605
Surr: 4-Bromofluorobenzene	93.3	70-130	%Rec	1	5/24/2022 12:49:23 AM	67605

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 16 of 27

Lab Order **2205923**

Hall Environmental Analysis Laboratory, Inc. Date Reported: 6/2/2022

CLIENT: EOG Client Sample ID: SB4-30

 Project:
 Roy SWD 3
 Collection Date: 5/19/2022 8:00:00 AM

 Lab ID:
 2205923-017
 Matrix: SOIL
 Received Date: 5/20/2022 7:05:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	: NAI
Chloride	ND	60	mg/Kg	20	5/26/2022 12:26:09 AM	67699
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	:: ED
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	5/26/2022 5:18:59 AM	67669
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/26/2022 5:18:59 AM	67669
Surr: DNOP	95.4	51.1-141	%Rec	1	5/26/2022 5:18:59 AM	67669
EPA METHOD 8015D: GASOLINE RANGE					Analys	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/24/2022 1:13:03 AM	67605
Surr: BFB	89.4	37.7-212	%Rec	1	5/24/2022 1:13:03 AM	67605
EPA METHOD 8021B: VOLATILES					Analys	: NSB
Benzene	ND	0.025	mg/Kg	1	5/24/2022 1:13:03 AM	67605
Toluene	ND	0.050	mg/Kg	1	5/24/2022 1:13:03 AM	67605
Ethylbenzene	ND	0.050	mg/Kg	1	5/24/2022 1:13:03 AM	67605
Xylenes, Total	ND	0.10	mg/Kg	1	5/24/2022 1:13:03 AM	67605
Surr: 4-Bromofluorobenzene	93.6	70-130	%Rec	1	5/24/2022 1:13:03 AM	67605

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 17 of 27

Lab Order **2205923**Date Reported: 6/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SB5-26

 Project:
 Roy SWD 3
 Collection Date: 5/19/2022 8:46:00 AM

 Lab ID:
 2205923-018
 Matrix: SOIL
 Received Date: 5/20/2022 7:05:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: NAI
Chloride	4300	150	mg/Kg	50	5/26/2022 10:48:58 AM	67699
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	t: ED
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	5/26/2022 5:43:08 AM	67669
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/26/2022 5:43:08 AM	67669
Surr: DNOP	97.8	51.1-141	%Rec	1	5/26/2022 5:43:08 AM	67669
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/24/2022 1:36:44 AM	67605
Surr: BFB	91.6	37.7-212	%Rec	1	5/24/2022 1:36:44 AM	67605
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.024	mg/Kg	1	5/24/2022 1:36:44 AM	67605
Toluene	ND	0.048	mg/Kg	1	5/24/2022 1:36:44 AM	67605
Ethylbenzene	ND	0.048	mg/Kg	1	5/24/2022 1:36:44 AM	67605
Xylenes, Total	ND	0.095	mg/Kg	1	5/24/2022 1:36:44 AM	67605
Surr: 4-Bromofluorobenzene	93.5	70-130	%Rec	1	5/24/2022 1:36:44 AM	67605

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 18 of 27

Analytical Report

Lab Order **2205923**Date Reported: 6/2/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SB5-38

 Project:
 Roy SWD 3
 Collection Date: 5/19/2022 9:20:00 AM

 Lab ID:
 2205923-019
 Matrix: SOIL
 Received Date: 5/20/2022 7:05:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: NAI
Chloride	1100	60	mg/Kg	20	5/26/2022 12:50:51 AM	67699
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: ED
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	5/26/2022 6:07:01 AM	67669
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/26/2022 6:07:01 AM	67669
Surr: DNOP	100	51.1-141	%Rec	1	5/26/2022 6:07:01 AM	67669
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/24/2022 2:00:25 AM	67605
Surr: BFB	92.6	37.7-212	%Rec	1	5/24/2022 2:00:25 AM	67605
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	5/24/2022 2:00:25 AM	67605
Toluene	ND	0.049	mg/Kg	1	5/24/2022 2:00:25 AM	67605
Ethylbenzene	ND	0.049	mg/Kg	1	5/24/2022 2:00:25 AM	67605
Xylenes, Total	ND	0.098	mg/Kg	1	5/24/2022 2:00:25 AM	67605
Surr: 4-Bromofluorobenzene	94.8	70-130	%Rec	1	5/24/2022 2:00:25 AM	67605

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 19 of 27

Lab Order **2205923**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/2/2022

CLIENT: EOG Client Sample ID: SB5-39

 Project:
 Roy SWD 3
 Collection Date: 5/19/2022 9:21:00 AM

 Lab ID:
 2205923-020
 Matrix: SOIL
 Received Date: 5/20/2022 7:05:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: NAI
Chloride	420	60	mg/Kg	20	5/26/2022 1:03:12 AM	67699
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	t: ED
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	5/26/2022 6:30:56 AM	67669
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/26/2022 6:30:56 AM	67669
Surr: DNOP	100	51.1-141	%Rec	1	5/26/2022 6:30:56 AM	67669
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/24/2022 3:11:22 AM	67605
Surr: BFB	94.6	37.7-212	%Rec	1	5/24/2022 3:11:22 AM	67605
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.024	mg/Kg	1	5/24/2022 3:11:22 AM	67605
Toluene	ND	0.048	mg/Kg	1	5/24/2022 3:11:22 AM	67605
Ethylbenzene	ND	0.048	mg/Kg	1	5/24/2022 3:11:22 AM	67605
Xylenes, Total	ND	0.095	mg/Kg	1	5/24/2022 3:11:22 AM	67605
Surr: 4-Bromofluorobenzene	94.2	70-130	%Rec	1	5/24/2022 3:11:22 AM	67605

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 20 of 27

Lab Order **2205923**

Date Reported: 6/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: SB5-40

 Project:
 Roy SWD 3
 Collection Date: 5/19/2022 9:22:00 AM

 Lab ID:
 2205923-021
 Matrix: SOIL
 Received Date: 5/20/2022 7:05:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: NAI
Chloride	380	60	mg/Kg	20	5/26/2022 1:15:33 AM	67699
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analys	t: ED
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	5/26/2022 6:54:55 AM	67669
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/26/2022 6:54:55 AM	67669
Surr: DNOP	101	51.1-141	%Rec	1	5/26/2022 6:54:55 AM	67669
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/24/2022 3:35:01 AM	67605
Surr: BFB	91.2	37.7-212	%Rec	1	5/24/2022 3:35:01 AM	67605
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.024	mg/Kg	1	5/24/2022 3:35:01 AM	67605
Toluene	ND	0.049	mg/Kg	1	5/24/2022 3:35:01 AM	67605
Ethylbenzene	ND	0.049	mg/Kg	1	5/24/2022 3:35:01 AM	67605
Xylenes, Total	ND	0.098	mg/Kg	1	5/24/2022 3:35:01 AM	67605
Surr: 4-Bromofluorobenzene	93.6	70-130	%Rec	1	5/24/2022 3:35:01 AM	67605

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 21 of 27

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205923 02-Jun-22**

Client: EOG

Project: Roy SWD 3

Sample ID: MB-67690 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 67690 RunNo: 88285

Prep Date: 5/25/2022 Analysis Date: 5/25/2022 SeqNo: 3130981 Units: mq/Kq

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-67690 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 67690 RunNo: 88285

Prep Date: 5/25/2022 Analysis Date: 5/25/2022 SeqNo: 3130982 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 95.1 90 110

Sample ID: LCS-67699 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 67699 RunNo: 88285

Prep Date: 5/25/2022 Analysis Date: 5/25/2022 SeqNo: 3131011 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 94.0 90 110

Sample ID: MB-67699 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **67699** RunNo: **88285**

Prep Date: 5/25/2022 Analysis Date: 5/25/2022 SeqNo: 3131012 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 22 of 27

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205923**

02-Jun-22

Client: EOG

Project: Roy SWD 3

Project: Roy SW	Ъ3		
Sample ID: LCS-67607	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics	
Client ID: LCSS	Batch ID: 67607	RunNo: 88200	
Prep Date: 5/20/2022	Analysis Date: 5/23/2022	SeqNo: 3127567 Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Diesel Range Organics (DRO)	58 10 50.00	0 116 64.4 127	
Surr: DNOP	6.4 5.000	127 51.1 141	
Sample ID: MB-67607	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics	
Client ID: PBS	Batch ID: 67607	RunNo: 88200	
Prep Date: 5/20/2022	Analysis Date: 5/23/2022	SeqNo: 3127570 Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Diesel Range Organics (DRO)	ND 10		
Motor Oil Range Organics (MRO)	ND 50		
Surr: DNOP	13 10.00	132 51.1 141	
Sample ID: MB-67669	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics	
Client ID: PBS	Batch ID: 67669	RunNo: 88246	
Prep Date: 5/24/2022	Analysis Date: 5/26/2022	SeqNo: 3131392 Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Diesel Range Organics (DRO)	ND 10		
Motor Oil Range Organics (MRO)	ND 50		
Surr: DNOP	9.2 10.00	92.1 51.1 141	
Sample ID: LCS-67669	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics	
Client ID: LCSS	Batch ID: 67669	RunNo: 88246	
Prep Date: 5/24/2022	Analysis Date: 5/26/2022	SeqNo: 3131393 Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Diesel Range Organics (DRO)	48 10 50.00	0 96.4 64.4 127	
Surr: DNOP	4.8 5.000	95.9 51.1 141	
Sample ID: MB-67666	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics	
Client ID: PBS	Batch ID: 67666	RunNo: 88263	
Prep Date: 5/24/2022	Analysis Date: 5/26/2022	SeqNo: 3131422 Units: %Rec	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual

Qualifiers:

Surr: DNOP

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference

10

B Analyte detected in the associated Method Blank

101

51.1

141

E Estimated value

10.00

- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 23 of 27

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205923**

02-Jun-22

Client: EOG

Surr: DNOP

Project: Roy SWD 3

Sample ID: LCS-67666 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 67666 RunNo: 88263

Prep Date: 5/24/2022 Analysis Date: 5/26/2022 SegNo: 3131423 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 5.4 5.000 108 51.1 141

Sample ID: MB-67680 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 67680 RunNo: 88246 Prep Date: 5/25/2022 Analysis Date: 5/26/2022 SeqNo: 3132682 Units: %Rec %REC %RPD **RPDLimit** Analyte Result **PQL** SPK value SPK Ref Val LowLimit HighLimit Qual

93.1

51.1

141

Sample ID: LCS-67680 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

10.00

Client ID: LCSS Batch ID: 67680 RunNo: 88246

9.3

Prep Date: 5/25/2022 Analysis Date: 5/26/2022 SeqNo: 3132685 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 4.7 5.000 93.1 51.1 14

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 24 of 27

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205923 02-Jun-22**

Client: EOG

Sample ID: Ics-67605

Surr: BFB

Surr: BFB

Project: Roy SWD 3

Sample ID: mb-67605	SampT	SampType: MBLK TestCode: EPA Method					8015D: Gasol	ine Range		
Client ID: PBS	Batch	ID: 676	605	F	RunNo: 88	3206				
Prep Date: 5/20/2022	Analysis D	ate: 5/2	24/2022	9	SeqNo: 31	126958	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								

Surr: BFB 920 1000 91.8 37.7 212

1000

1000

SampType: LCS

2000

2000

Client ID: LCSS Batch ID: 67605 RunNo: 88206 Analysis Date: 5/23/2022 Prep Date: 5/20/2022 SeqNo: 3126959 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC I owl imit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 25 25.00 102 72.3 137

200

198

TestCode: EPA Method 8015D: Gasoline Range

37.7

37.7

212

212

Sample ID: Ics-67603 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 67603 RunNo: 88207 Prep Date: 5/20/2022 Analysis Date: 5/23/2022 SeqNo: 3127053 Units: mg/Kg SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result **PQL** LowLimit HighLimit Qual Gasoline Range Organics (GRO) 24 5.0 25.00 96.1 72.3 137

Sample ID: mb-67603 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range PBS Batch ID: 67603 Client ID: RunNo: 88207 Prep Date: 5/20/2022 Analysis Date: 5/23/2022 SeqNo: 3127054 Units: mg/Kg Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) ND 5.0 Surr: BFB 850 1000 85.5 37.7 212

Sample ID: Ics-67637 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 67637 RunNo: 88236 Prep Date: Analysis Date: 5/24/2022 SeqNo: 3128820 Units: %Rec 5/23/2022 SPK value Analyte Result SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Surr: BFB 2000 1000 37.7 202 212

Sample ID: mb-67637 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: **PBS** Batch ID: 67637 RunNo: 88236 Prep Date: 5/23/2022 Analysis Date: 5/24/2022 SeqNo: 3128821 Units: %Rec Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

 Surr: BFB
 930
 1000
 93.2
 37.7
 212

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 25 of 27

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205923**

02-Jun-22

Client: EOG

Project: Roy SWD 3

Sample ID: mb-67605	SampT	SampType: MBLK TestCode: EPA Method 80				8021B: Volati	les			
Client ID: PBS	Batcl	n ID: 676	605	F	RunNo: 88	3206				
Prep Date: 5/20/2022	Analysis D	Date: 5/2	24/2022	S	SeqNo: 3	127001	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1.000		95.4	70	130			
0 15 15 15										

Sample ID: LCS-67605	SampT	Гуре: LC	S	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: LCSS	Batcl	h ID: 67 6	605	F	RunNo: 8	3206				
Prep Date: 5/20/2022	Analysis D	Date: 5/ 2	23/2022	5	SeqNo: 3	127002	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	89.3	80	120			
Toluene	0.92	0.050	1.000	0	92.3	80	120			
Ethylbenzene	0.93	0.050	1.000	0	92.6	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.6	80	120			
Surr: 4-Bromofluorobenzene	0.99		1.000		98.8	70	130			

Sample ID: Ics-67603	SampT	ype: LC	S	Tes	tCode: EF	PA Method	d 8021B: Volatiles			
Client ID: LCSS	Batcl	n ID: 676	603	F	RunNo: 88	3207				
Prep Date: 5/20/2022	Analysis Date: 5/23/2022			5	SeqNo: 31	127099	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.1	80	120			
Toluene	0.95	0.050	1.000	0	95.0	80	120			
Ethylbenzene	0.95	0.050	1.000	0	94.8	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.0	80	120			
Surr: 4-Bromofluorobenzene	0.90		1.000		90.4	70	130			

Sample ID: mb-67603	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: PBS	Batcl	n ID: 676	603	F	RunNo: 88	3207				
Prep Date: 5/20/2022	Analysis D	Date: 5/ 2	23/2022	9	SeqNo: 31	127100	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.89		1.000		88.7	70	130			

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 26 of 27

Hall Environmental Analysis Laboratory, Inc.

0.94

WO#: **2205923 02-Jun-22**

Client: EOG

Surr: 4-Bromofluorobenzene

Project: Roy SWD 3

Sample ID: Ics-67637 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 67637 RunNo: 88236

Prep Date: 5/23/2022 Analysis Date: 5/24/2022 SeqNo: 3128876 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

94.0

70

130

Sample ID: mb-67637 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

1.000

Client ID: PBS Batch ID: 67637 RunNo: 88236

Prep Date: 5/23/2022 Analysis Date: 5/24/2022 SeqNo: 3128877 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: 4-Bromofluorobenzene 0.94 1.000 94.5 70 130

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 27 of 27



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: EOG	Work Order Nur	nber: 220592	3	RcptNo: 1
Received By: Juan Rojas	5/20/2022 7:05:00) AM	Glean Engl	
Completed By: Juan Rojas	5/20/2022 7:36:50	AM	Guaran S	t _a
Reviewed By: See 5/201-	22		7	
Chain of Custody				
1. Is Chain of Custody complete	?	Yes 🗸	No 🗆	Not Present
2. How was the sample delivered	d?	Courier		
Log In				
Was an attempt made to cool	the samples?	Yes 🗸	No 🗌	NA 🗆
4. Were all samples received at a	a temperature of >0° C to 6.0°C	Yes 🗸	No 🗆	NA 🗆
5. Sample(s) in proper container	(s)?	Yes 🗸	No 🗆	
6. Sufficient sample volume for in	ndicated test(s)?	Yes 🗸	No 🗌	
7. Are samples (except VOA and	ONG) properly preserved?	Yes 🗸	No 🗌	
8. Was preservative added to bot	ttles?	Yes 🗌	No 🗸	NA 🗆
9. Received at least 1 vial with he	eadspace <1/4" for AQ VOA?	Yes 🗌	No 🗌	NA 🗹
10. Were any sample containers r	eceived broken?	Yes	No 🗸	# of preserved bottles checked
11. Does paperwork match bottle I (Note discrepancies on chain of		Yes 🗸	No 🗆	for pH: (<2 or >12 unless noted)
12. Are matrices correctly identified		Yes 🗸	No 🗆	Adjusted?
13. Is it clear what analyses were r	requested?	Yes 🗸	No 🗌	
 Were all holding times able to (If no, notify customer for author) 		Yes 🗸	No 🗆	effecked by: - JN \$ 120/22
Special Handling (if applic			(
15. Was client notified of all discre		Yes _	No 🗌	NA 🗹
Person Notified:	Date			
By Whom:	Via:	eMail	Phone Fax	☐ In Person
Regarding:				
Client Instructions:				
16. Additional remarks:				
17. Cooler Information				
Cooler No Temp °C C	Condition Seal Intact Seal No	Seal Date	Signed By	
1 1.5 Go	ood			

5		Chain-oi-Custody Record				I	ALIANAMA CTANAMA LIAL
Client: E(Client: EOG-Artesia / Ranger Env.	anger Env.	Standard	K Rush	K Rush 5 Daw		ANALYSIS LABORATORY
			Project Name:				www.hallenvironmental.com
Mailing Ad	dress: EOG - 10	Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210	Roy SWD	# X # 3		4901 Hawkins NE	kins NE - Albuquerque, NM 87109
Ranger: P	O Box 201179,	Ranger: PO Box 201179, Austin TX 78720	Project #: 5375	2		Tel. 505-345-3975	
Phone #:	Phone #: 521-335-1785						√nal
email or f	email or Fax#: Will@RangerEnv.com	ingerEnv.com	Project Manag	jer. W. Kierdorf	orf	((
QA/QC Package: Standard	ickage: ard	☐ Level 4 (Full Validation)) I MBC	
Accreditation:		□ Az Compliance □ Other	Sampler: W. On Ice:	Kennedy	□ No		
■ EDD (Type)	Type) Excel		# of Coolers:	_		SPO	
			Cooler Temp(including CF): 1	rcluding CF): 1 (5-0-1=1.5)DSI	
Date T	Time Matrix	Sample Name	Container Type and #	Preservative Type	7205723	BTEX (8	
5/12/22 0837	1837 50:1	581-23	1 402 Jar	Içe	-001	×- ×-	
0	5860	581-38			700-		
	9860	581-39			-603		
0	0937	581-40			400-		
2/	6401	582-29			-005-		
1	1157	582-47			700-		
1	1158	582-48			-007		
1	1159	582-49			200-		
	1200	582-50			1000		
,	1304	583-4			2010		
,	1314	563-14			110-		
1	1331	563-29	4	4	-012	1-1-1-	
Date: Ti		shed by:	Received by:	Via:	Date Time	Remarks: Bill to	EOG Artesia
27/16/12	10	The state of the s	WWWLL	2	22		
Date: Time:	8	shed by:	Received by:	Via:			
100	200	0 1 4	1	/ Or Nepve	18/20 7:0	_	

वृद्ध यूष्ट

Page 88 of 172 Received by OCD: 2/3/2023 9:41:33 **ANALYSIS LABORATORY** HALL ENVIRONMENTAL If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 4 0 300 Vd3 www.hallenvironmental.com **Analysis Request** Total Coliform (Present/Absent) EOG-Autesia (AOV-ima2) 07S8 (AOV) 09S8 'EON NO5, PO4, SO4 Br, CI' E' RCRA 8 Metals 2MI20728 10 0168 yd 2HA9 Remarks: Bill to EDB (Method 504.1) 8081 Pesticides/8082 PCB's PH:8015D(GRO / DRO / MRO) MTBE / TMB's (8021) X3T8 170117 125 (S) 7.00 -20-020 7 20 (59 2 3 Time 1019 5/19/12 410 120-310-20--014 2012 210 110-Date 200 Project Manager: W. Kier dont K Rush SUNDEY S Preservative Sampler: W. Kennedu #3 5375 Cooler Temp(including CF): 8-Yes Type Turn-Around Time: Via: ROYSWD Project Name: 国 Standard 11/1/1 # of Coolers: 1 yozular Type and # Container Received by: Project #: Received by On Ice: Chain of-Custody Record

Client: Ele-Artesia / Ranger Env

Suis Mailing Address: Ele-1055 4th St. Artesia, NM, 88210 / Ranger: PO BOX 201179, Austin Tx. 78720 □ Level 4 (Full Validation) Sample Name 30 email or Fax#: Will Pranger Env. com 26 200 583-30 584-20 584-15 39 20% 585.~ □ Az Compliance 784 584 585 58 Phone #: 521-335-1785 Relinquished by: Relinquished by: □ Other Matrix 1:05 1 1900 QA/QC Package: 2450 0800 0922 9480 0920 0220 5/X/121332 1/2/220740 0921 EDD (Type) Time Accreditation: Time: Time: Standard NELAC Ship Date -Date:



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

September 02, 2022

Will Kierdorf
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX:

RE: Roy SWD 3 OrderNo.: 2208E19

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 16 sample(s) on 8/24/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order **2208E19**Date Reported: **9/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: RTP-2/1

 Project:
 Roy SWD 3
 Collection Date: 8/22/2022 9:48:00 AM

 Lab ID:
 2208E19-001
 Matrix: SOIL
 Received Date: 8/24/2022 7:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	8/30/2022 1:15:20 PM	69846
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	DGH
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	8/27/2022 12:18:52 AM	69775
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	8/27/2022 12:18:52 AM	69775
Surr: DNOP	97.6	21-129	%Rec	1	8/27/2022 12:18:52 AM	69775
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/26/2022 4:41:57 AM	69740
Surr: BFB	99.1	37.7-212	%Rec	1	8/26/2022 4:41:57 AM	69740
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	8/26/2022 4:41:57 AM	69740
Toluene	ND	0.047	mg/Kg	1	8/26/2022 4:41:57 AM	69740
Ethylbenzene	ND	0.047	mg/Kg	1	8/26/2022 4:41:57 AM	69740
Xylenes, Total	ND	0.094	mg/Kg	1	8/26/2022 4:41:57 AM	69740
Surr: 4-Bromofluorobenzene	93.9	70-130	%Rec	1	8/26/2022 4:41:57 AM	69740

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- D Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 21

Analytical Report

Lab Order **2208E19**

Date Reported: 9/2/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: RTP-2/6

 Project:
 Roy SWD 3
 Collection Date: 8/22/2022 10:00:00 AM

 Lab ID:
 2208E19-002
 Matrix: SOIL
 Received Date: 8/24/2022 7:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	810	60	mg/Kg	20	8/30/2022 1:52:34 PM	69846
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/27/2022 12:40:36 AM	69775
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/27/2022 12:40:36 AM	69775
Surr: DNOP	83.4	21-129	%Rec	1	8/27/2022 12:40:36 AM	69775
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/25/2022 6:44:00 PM	69740
Surr: BFB	105	37.7-212	%Rec	1	8/25/2022 6:44:00 PM	69740
EPA METHOD 8021B: VOLATILES					Analyst	: BRM
Benzene	ND	0.025	mg/Kg	1	8/25/2022 6:44:00 PM	69740
Toluene	ND	0.050	mg/Kg	1	8/25/2022 6:44:00 PM	69740
Ethylbenzene	ND	0.050	mg/Kg	1	8/25/2022 6:44:00 PM	69740
Xylenes, Total	ND	0.099	mg/Kg	1	8/25/2022 6:44:00 PM	69740
Surr: 4-Bromofluorobenzene	98.9	70-130	%Rec	1	8/25/2022 6:44:00 PM	69740

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- D Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 21

Lab Order **2208E19**

Date Reported: 9/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: RTP-2/9

 Project:
 Roy SWD 3
 Collection Date: 8/22/2022 10:20:00 AM

 Lab ID:
 2208E19-003
 Matrix: SOIL
 Received Date: 8/24/2022 7:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	1200	60	mg/Kg	20	8/30/2022 2:04:59 PM	69846
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/27/2022 12:51:31 AM	69775
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/27/2022 12:51:31 AM	69775
Surr: DNOP	81.4	21-129	%Rec	1	8/27/2022 12:51:31 AM	69775
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/25/2022 7:03:00 PM	69740
Surr: BFB	101	37.7-212	%Rec	1	8/25/2022 7:03:00 PM	69740
EPA METHOD 8021B: VOLATILES					Analyst	: BRM
Benzene	ND	0.024	mg/Kg	1	8/25/2022 7:03:00 PM	69740
Toluene	ND	0.048	mg/Kg	1	8/25/2022 7:03:00 PM	69740
Ethylbenzene	ND	0.048	mg/Kg	1	8/25/2022 7:03:00 PM	69740
Xylenes, Total	ND	0.097	mg/Kg	1	8/25/2022 7:03:00 PM	69740
Surr: 4-Bromofluorobenzene	99.1	70-130	%Rec	1	8/25/2022 7:03:00 PM	69740

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 21

Project:

Analytical Report

Lab Order **2208E19**Date Reported: **9/2/2022**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: RTP-2/11

Roy SWD 3 **Collection Date:** 8/22/2022 10:26:00 AM

Lab ID: 2208E19-004 **Matrix:** SOIL **Received Date:** 8/24/2022 7:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	610	60	mg/Kg	20	8/30/2022 2:42:14 PM	69846
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/27/2022 1:02:25 AM	69775
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/27/2022 1:02:25 AM	69775
Surr: DNOP	84.6	21-129	%Rec	1	8/27/2022 1:02:25 AM	69775
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/25/2022 7:23:00 PM	69740
Surr: BFB	103	37.7-212	%Rec	1	8/25/2022 7:23:00 PM	69740
EPA METHOD 8021B: VOLATILES					Analyst	: BRM
Benzene	ND	0.024	mg/Kg	1	8/25/2022 7:23:00 PM	69740
Toluene	ND	0.048	mg/Kg	1	8/25/2022 7:23:00 PM	69740
Ethylbenzene	ND	0.048	mg/Kg	1	8/25/2022 7:23:00 PM	69740
Xylenes, Total	ND	0.095	mg/Kg	1	8/25/2022 7:23:00 PM	69740
Surr: 4-Bromofluorobenzene	99.5	70-130	%Rec	1	8/25/2022 7:23:00 PM	69740

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 21

Lab Order **2208E19**Date Reported: **9/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: RTP-1/1

 Project:
 Roy SWD 3
 Collection Date: 8/22/2022 10:42:00 AM

 Lab ID:
 2208E19-005
 Matrix: SOIL
 Received Date: 8/24/2022 7:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	8/30/2022 2:54:39 PM	69846
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/27/2022 1:13:21 AM	69775
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/27/2022 1:13:21 AM	69775
Surr: DNOP	104	21-129	%Rec	1	8/27/2022 1:13:21 AM	69775
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/25/2022 7:43:00 PM	69740
Surr: BFB	103	37.7-212	%Rec	1	8/25/2022 7:43:00 PM	69740
EPA METHOD 8021B: VOLATILES					Analyst	: BRM
Benzene	ND	0.025	mg/Kg	1	8/25/2022 7:43:00 PM	69740
Toluene	ND	0.050	mg/Kg	1	8/25/2022 7:43:00 PM	69740
Ethylbenzene	ND	0.050	mg/Kg	1	8/25/2022 7:43:00 PM	69740
Xylenes, Total	ND	0.10	mg/Kg	1	8/25/2022 7:43:00 PM	69740
Surr: 4-Bromofluorobenzene	97.5	70-130	%Rec	1	8/25/2022 7:43:00 PM	69740

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- D Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 21

Lab Order **2208E19**Date Reported: **9/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: RTP-1/6

 Project:
 Roy SWD 3
 Collection Date: 8/22/2022 10:56:00 AM

 Lab ID:
 2208E19-006
 Matrix: SOIL
 Received Date: 8/24/2022 7:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	370	60	mg/Kg	20	8/30/2022 3:07:04 PM	69846
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/27/2022 1:24:19 AM	69775
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/27/2022 1:24:19 AM	69775
Surr: DNOP	83.4	21-129	%Rec	1	8/27/2022 1:24:19 AM	69775
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/25/2022 8:03:00 PM	69740
Surr: BFB	103	37.7-212	%Rec	1	8/25/2022 8:03:00 PM	69740
EPA METHOD 8021B: VOLATILES					Analyst	: BRM
Benzene	ND	0.024	mg/Kg	1	8/25/2022 8:03:00 PM	69740
Toluene	ND	0.048	mg/Kg	1	8/25/2022 8:03:00 PM	69740
Ethylbenzene	ND	0.048	mg/Kg	1	8/25/2022 8:03:00 PM	69740
Xylenes, Total	ND	0.095	mg/Kg	1	8/25/2022 8:03:00 PM	69740
Surr: 4-Bromofluorobenzene	98.3	70-130	%Rec	1	8/25/2022 8:03:00 PM	69740

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- D Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 21

Analytical Report

Lab Order **2208E19**Date Reported: **9/2/2022**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: RTP-3/1

 Project:
 Roy SWD 3
 Collection Date: 8/22/2022 12:02:00 PM

 Lab ID:
 2208E19-007
 Matrix: SOIL
 Received Date: 8/24/2022 7:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	8/30/2022 3:19:29 PM	69846
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/27/2022 1:35:17 AM	69775
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/27/2022 1:35:17 AM	69775
Surr: DNOP	82.5	21-129	%Rec	1	8/27/2022 1:35:17 AM	69775
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/25/2022 8:22:00 PM	69740
Surr: BFB	101	37.7-212	%Rec	1	8/25/2022 8:22:00 PM	69740
EPA METHOD 8021B: VOLATILES					Analyst	: BRM
Benzene	ND	0.023	mg/Kg	1	8/25/2022 8:22:00 PM	69740
Toluene	ND	0.047	mg/Kg	1	8/25/2022 8:22:00 PM	69740
Ethylbenzene	ND	0.047	mg/Kg	1	8/25/2022 8:22:00 PM	69740
Xylenes, Total	ND	0.093	mg/Kg	1	8/25/2022 8:22:00 PM	69740
Surr: 4-Bromofluorobenzene	98.2	70-130	%Rec	1	8/25/2022 8:22:00 PM	69740

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- D Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 7 of 21

Analytical Report

Lab Order **2208E19**Date Reported: **9/2/2022**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: RTP-3/4

 Project:
 Roy SWD 3
 Collection Date: 8/22/2022 1:30:00 PM

 Lab ID:
 2208E19-008
 Matrix: SOIL
 Received Date: 8/24/2022 7:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	440	60	mg/Kg	20	8/30/2022 3:31:54 PM	69846
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/29/2022 3:20:27 PM	69807
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/29/2022 3:20:27 PM	69807
Surr: DNOP	88.8	21-129	%Rec	1	8/29/2022 3:20:27 PM	69807
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/26/2022 10:31:00 AM	69768
Surr: BFB	103	37.7-212	%Rec	1	8/26/2022 10:31:00 AM	69768
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.024	mg/Kg	1	8/26/2022 10:31:00 AM	69768
Toluene	ND	0.049	mg/Kg	1	8/26/2022 10:31:00 AM	69768
Ethylbenzene	ND	0.049	mg/Kg	1	8/26/2022 10:31:00 AM	69768
Xylenes, Total	ND	0.097	mg/Kg	1	8/26/2022 10:31:00 AM	69768
Surr: 4-Bromofluorobenzene	97.8	70-130	%Rec	1	8/26/2022 10:31:00 AM	69768

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 8 of 21

Lab Order **2208E19**Date Reported: **9/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: RTP-3/6

Project: Roy SWD 3
 Collection Date: 8/22/2022 1:36:00 PM

 Lab ID: 2208E19-009
 Matrix: SOIL
 Received Date: 8/24/2022 7:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	440	60	mg/Kg	20	8/30/2022 3:44:19 PM	69846
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	DGH
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	8/29/2022 3:52:46 PM	69807
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	8/29/2022 3:52:46 PM	69807
Surr: DNOP	90.9	21-129	%Rec	1	8/29/2022 3:52:46 PM	69807
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/26/2022 11:30:00 AM	69768
Surr: BFB	104	37.7-212	%Rec	1	8/26/2022 11:30:00 AM	69768
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.025	mg/Kg	1	8/26/2022 11:30:00 AM	69768
Toluene	ND	0.049	mg/Kg	1	8/26/2022 11:30:00 AM	69768
Ethylbenzene	ND	0.049	mg/Kg	1	8/26/2022 11:30:00 AM	69768
Xylenes, Total	ND	0.099	mg/Kg	1	8/26/2022 11:30:00 AM	69768
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	8/26/2022 11:30:00 AM	69768

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 9 of 21

Analytical Report Lab Order 2208E19

Date Reported: 9/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: RTP-4/1

 Project:
 Roy SWD 3
 Collection Date: 8/22/2022 2:10:00 PM

 Lab ID:
 2208E19-010
 Matrix: SOIL
 Received Date: 8/24/2022 7:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	60	mg/Kg	20	8/30/2022 11:27:22 AM	69853
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/29/2022 4:24:51 PM	69807
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/29/2022 4:24:51 PM	69807
Surr: DNOP	87.3	21-129	%Rec	1	8/29/2022 4:24:51 PM	69807
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/26/2022 12:29:00 PM	69768
Surr: BFB	111	37.7-212	%Rec	1	8/26/2022 12:29:00 PM	69768
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.025	mg/Kg	1	8/26/2022 12:29:00 PM	69768
Toluene	ND	0.050	mg/Kg	1	8/26/2022 12:29:00 PM	69768
Ethylbenzene	ND	0.050	mg/Kg	1	8/26/2022 12:29:00 PM	69768
Xylenes, Total	ND	0.10	mg/Kg	1	8/26/2022 12:29:00 PM	69768
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	8/26/2022 12:29:00 PM	69768

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- D Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 10 of 21

Lab Order **2208E19**

Date Reported: 9/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: RTP-4/6

 Project:
 Roy SWD 3
 Collection Date: 8/22/2022 2:30:00 PM

 Lab ID:
 2208E19-011
 Matrix: SOIL
 Received Date: 8/24/2022 7:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	80	60	mg/Kg	20	8/30/2022 11:39:43 AM	69853
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/29/2022 4:35:44 PM	69807
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	8/29/2022 4:35:44 PM	69807
Surr: DNOP	94.3	21-129	%Rec	1	8/29/2022 4:35:44 PM	69807
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/26/2022 12:49:00 PM	69768
Surr: BFB	107	37.7-212	%Rec	1	8/26/2022 12:49:00 PM	69768
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.025	mg/Kg	1	8/26/2022 12:49:00 PM	69768
Toluene	ND	0.049	mg/Kg	1	8/26/2022 12:49:00 PM	69768
Ethylbenzene	ND	0.049	mg/Kg	1	8/26/2022 12:49:00 PM	69768
Xylenes, Total	ND	0.098	mg/Kg	1	8/26/2022 12:49:00 PM	69768
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	8/26/2022 12:49:00 PM	69768

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 11 of 21

Lab Order **2208E19**

Hall Environmental Analysis Laboratory, Inc. Date Reported: 9/2/2022

CLIENT: EOG Client Sample ID: RTP-5/1

Project: Roy SWD 3
 Collection Date: 8/22/2022 2:35:00 PM

 Lab ID: 2208E19-012
 Matrix: SOIL
 Received Date: 8/24/2022 7:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	60	mg/Kg	20	8/30/2022 11:52:04 AM	69853
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	DGH
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	8/29/2022 4:46:35 PM	69807
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	8/29/2022 4:46:35 PM	69807
Surr: DNOP	96.2	21-129	%Rec	1	8/29/2022 4:46:35 PM	69807
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/26/2022 1:08:00 PM	69768
Surr: BFB	106	37.7-212	%Rec	1	8/26/2022 1:08:00 PM	69768
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.025	mg/Kg	1	8/26/2022 1:08:00 PM	69768
Toluene	ND	0.050	mg/Kg	1	8/26/2022 1:08:00 PM	69768
Ethylbenzene	ND	0.050	mg/Kg	1	8/26/2022 1:08:00 PM	69768
Xylenes, Total	ND	0.10	mg/Kg	1	8/26/2022 1:08:00 PM	69768
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	8/26/2022 1:08:00 PM	69768

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 12 of 21

Lab Order **2208E19**Date Reported: **9/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: RTP-5/6

 Project:
 Roy SWD 3
 Collection Date: 8/22/2022 2:45:00 PM

 Lab ID:
 2208E19-013
 Matrix: SOIL
 Received Date: 8/24/2022 7:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	260	60	mg/Kg	20	8/30/2022 12:04:24 PM	69853
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/29/2022 5:09:24 PM	69807
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/29/2022 5:09:24 PM	69807
Surr: DNOP	94.8	21-129	%Rec	1	8/29/2022 5:09:24 PM	69807
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/26/2022 1:28:00 PM	69768
Surr: BFB	106	37.7-212	%Rec	1	8/26/2022 1:28:00 PM	69768
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.025	mg/Kg	1	8/26/2022 1:28:00 PM	69768
Toluene	ND	0.050	mg/Kg	1	8/26/2022 1:28:00 PM	69768
Ethylbenzene	ND	0.050	mg/Kg	1	8/26/2022 1:28:00 PM	69768
Xylenes, Total	ND	0.10	mg/Kg	1	8/26/2022 1:28:00 PM	69768
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	8/26/2022 1:28:00 PM	69768

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 13 of 21

Analytical Report Lab Order 2208E19

Date Reported: 9/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: RTP-6/1

 Project:
 Roy SWD 3
 Collection Date: 8/22/2022 3:02:00 PM

 Lab ID:
 2208E19-014
 Matrix: SOIL
 Received Date: 8/24/2022 7:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	60	mg/Kg	20	8/30/2022 12:16:46 PM	69853
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	DGH
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	8/29/2022 5:20:15 PM	69807
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	8/29/2022 5:20:15 PM	69807
Surr: DNOP	95.3	21-129	%Rec	1	8/29/2022 5:20:15 PM	69807
EPA METHOD 8015D: GASOLINE RANGE					Analyst	ССМ
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/26/2022 2:08:00 PM	69768
Surr: BFB	106	37.7-212	%Rec	1	8/26/2022 2:08:00 PM	69768
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.024	mg/Kg	1	8/26/2022 2:08:00 PM	69768
Toluene	ND	0.049	mg/Kg	1	8/26/2022 2:08:00 PM	69768
Ethylbenzene	ND	0.049	mg/Kg	1	8/26/2022 2:08:00 PM	69768
Xylenes, Total	ND	0.097	mg/Kg	1	8/26/2022 2:08:00 PM	69768
Surr: 4-Bromofluorobenzene	99.3	70-130	%Rec	1	8/26/2022 2:08:00 PM	69768

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ID Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 14 of 21

Analytical Report

Lab Order **2208E19**Date Reported: **9/2/2022**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: RTP-6/6

 Project:
 Roy SWD 3
 Collection Date: 8/22/2022 3:20:00 PM

 Lab ID:
 2208E19-015
 Matrix: SOIL
 Received Date: 8/24/2022 7:15:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch Analyses EPA METHOD 300.0: ANIONS** Analyst: CAS Chloride 940 61 mg/Kg 20 8/30/2022 12:29:07 PM 69853 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) ND 14 mg/Kg 8/29/2022 5:31:05 PM Motor Oil Range Organics (MRO) ND 45 mg/Kg 1 8/29/2022 5:31:05 PM 69807 Surr: DNOP 89.8 21-129 %Rec 8/29/2022 5:31:05 PM 69807 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM 8/26/2022 2:27:00 PM Gasoline Range Organics (GRO) ND 69768 4.8 mg/Kg Surr: BFB 109 37.7-212 %Rec 8/26/2022 2:27:00 PM 69768 **EPA METHOD 8021B: VOLATILES** Analyst: CCM ND 0.024 8/26/2022 2:27:00 PM 69768 Benzene mg/Kg Toluene ND 0.048 mg/Kg 8/26/2022 2:27:00 PM 69768 Ethylbenzene ND 0.048 mg/Kg 1 8/26/2022 2:27:00 PM 69768 Xylenes, Total ND 0.095 mg/Kg 8/26/2022 2:27:00 PM 69768 Surr: 4-Bromofluorobenzene 70-130 103 %Rec 8/26/2022 2:27:00 PM 69768

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 15 of 21

Lab Order **2208E19**Date Reported: **9/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: RTP-6/7

 Project:
 Roy SWD 3
 Collection Date: 8/22/2022 3:24:00 PM

 Lab ID:
 2208E19-016
 Matrix: SOIL
 Received Date: 8/24/2022 7:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	670	61	mg/Kg	20	8/30/2022 12:49:05 PM	69853
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/29/2022 6:18:48 PM	69807
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/29/2022 6:18:48 PM	69807
Surr: DNOP	99.6	21-129	%Rec	1	8/29/2022 6:18:48 PM	69807
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/26/2022 2:47:00 PM	69768
Surr: BFB	107	37.7-212	%Rec	1	8/26/2022 2:47:00 PM	69768
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.024	mg/Kg	1	8/26/2022 2:47:00 PM	69768
Toluene	ND	0.048	mg/Kg	1	8/26/2022 2:47:00 PM	69768
Ethylbenzene	ND	0.048	mg/Kg	1	8/26/2022 2:47:00 PM	69768
Xylenes, Total	ND	0.097	mg/Kg	1	8/26/2022 2:47:00 PM	69768
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	8/26/2022 2:47:00 PM	69768

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 16 of 21

Hall Environmental Analysis Laboratory, Inc.

2208E19 02-Sep-22

WO#:

Client: EOG

Project: Roy SWD 3

Sample ID: MB-69853 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 69853 RunNo: 90679

Prep Date: 8/30/2022 Analysis Date: 8/30/2022 SeqNo: 3240572 Units: mq/Kq

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-69853 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 69853 RunNo: 90679

Prep Date: 8/30/2022 Analysis Date: 8/30/2022 SeqNo: 3240573 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 94.9 90 110

Sample ID: MB-69846 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **69846** RunNo: **90664**

Prep Date: 8/30/2022 Analysis Date: 8/30/2022 SeqNo: 3241292 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-69846 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 69846 RunNo: 90664

Prep Date: 8/30/2022 Analysis Date: 8/30/2022 SeqNo: 3241294 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 93.1 90 110

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 17 of 21

Hall Environmental Analysis Laboratory, Inc.

WO#: 2208E19 02-Sep-22

Client: EOG

Project. Roy SWD 3

Project: Roy SW	7D 3		
Sample ID: LCS-69775	SampType: LCS	TestCode: EPA Metho	d 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 69775	RunNo: 90606	
Prep Date: 8/25/2022	Analysis Date: 8/26/2022	SeqNo: 3238776	Units: mg/Kg
Analyte	Result PQL SPK val	ue SPK Ref Val %REC LowLimi	t HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	46 15 50.	00 0 92.8 64.4	127
Surr: DNOP	4.3 5.0	00 85.2 21	129
Sample ID: MB-69775	SampType: MBLK	TestCode: EPA Metho	d 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 69775	RunNo: 90606	
Prep Date: 8/25/2022	Analysis Date: 8/26/2022	SeqNo: 3238777	Units: mg/Kg
Analyte	Result PQL SPK val	ue SPK Ref Val %REC LowLimi	t HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND 15		
Motor Oil Range Organics (MRO)	ND 50		
Surr: DNOP	8.4 10.	00 84.1 21	129
Sample ID: LCS-69807	SampType: LCS	TestCode: EPA Metho	d 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 69807	RunNo: 90634	
Prep Date: 8/26/2022	Analysis Date: 8/29/2022	SeqNo: 3238841	Units: mg/Kg
Analyte	Result PQL SPK val	ue SPK Ref Val %REC LowLimi	t HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	40 15 50.	00 0 80.1 64.4	127
Surr: DNOP	4.0 5.0	00 79.2 21	129
Sample ID: MB-69807	SampType: MBLK	TestCode: EPA Metho	d 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 69807	RunNo: 90634	
Prep Date: 8/26/2022	Analysis Date: 8/29/2022	SeqNo: 3238842	Units: mg/Kg
Analyte	Result PQL SPK val	ue SPK Ref Val %REC LowLimi	t HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND 15		
Motor Oil Range Organics (MRO)	ND 50		
Surr: DNOP	8.8 10.	00 88.3 21	129
Sample ID: LCS-69837	SampType: LCS	TestCode: EPA Metho	d 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 69837	RunNo: 90655	
Prep Date: 8/29/2022	Analysis Date: 8/30/2022	SeqNo: 3239736	Units: %Rec
Analyte	Result PQL SPK val	ue SPK Ref Val %REC LowLimi	t HighLimit %RPD RPDLimit Qual
Surr: DNOP	4.6 5.0	00 91.9 21	129

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference

Analyte detected in the associated Method Blank

- Estimated value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Page 18 of 21

Hall Environmental Analysis Laboratory, Inc.

2208E19 02-Sep-22

WO#:

Client: EOG

Project: Roy SWD 3

Sample ID: MB-69837 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 69837 RunNo: 90655

Prep Date: 8/29/2022 Analysis Date: 8/30/2022 SeqNo: 3239737 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Surr: DNOP
 10
 10.00
 101
 21
 129

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 19 of 21

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

02-Sep-22

2208E19

WO#:

Client: EOG

Project: Roy SWD 3

Sample ID: mb-69740 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 69740 RunNo: 90581

Prep Date: 8/24/2022 Analysis Date: 8/25/2022 SeqNo: 3235756 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1000 1000 99.6 37.7 212

Sample ID: Ics-69740 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 69740 RunNo: 90581

Prep Date: 8/24/2022 Analysis Date: 8/25/2022 SeqNo: 3235757 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 25 5.0 25.00 O 99.4 72.3 137

Surr: BFB 2000 1000 196 37.7 212

Sample ID: Ics-69768 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 69768 RunNo: 90614

Prep Date: 8/25/2022 Analysis Date: 8/26/2022 SeqNo: 3237469 Units: mg/Kg

%REC Result PQL SPK value SPK Ref Val HighLimit %RPD **RPDLimit** Analyte LowLimit Qual Gasoline Range Organics (GRO) 27 5.0 25.00 0 109 72.3 137 Surr: BFB 37.7 S 2300 1000 227 212

Sample ID: mb-69768 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 69768 RunNo: 90614

Prep Date: 8/25/2022 Analysis Date: 8/26/2022 SeqNo: 3237470 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 970 1000 97.0 37.7 212

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 20 of 21

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

0.97

WO#: **2208E19**

02-Sep-22

Client: EOG

Surr: 4-Bromofluorobenzene

Project: Roy SWD 3

Sample ID: mb-69740	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles

Client ID: **PBS** Batch ID: **69740** RunNo: **90581**

Prep Date: 8/24/2022 Analysis Date: 8/25/2022 SeqNo: 3235803 Units: mg/Kg

1.000

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1.000		94.7	70	130			

Sample ID: LCS-69740 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 69740 RunNo: 90581 Prep Date: 8/24/2022 Analysis Date: 8/25/2022 SeqNo: 3235804 Units: mg/Kg Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 1.000 93.4 80 0.93 0.025 0 120 Benzene Toluene 0.96 0.050 1.000 0 96.0 80 120 0 96.8 80 Ethylbenzene 0.97 0.050 1.000 120 2.9 0.10 3.000 0 96.1 80 120 Xylenes, Total

96.8

70

130

Sample ID: Ics-69768	Samp ⁻	Гуре: LC	S	TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batc	h ID: 69 '	768	F	RunNo: 9	0614				
Prep Date: 8/25/2022	Analysis [Date: 8/	26/2022	5	SeqNo: 3	237522	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.81	0.025	1.000	0	80.9	80	120			
Toluene	0.83	0.050	1.000	0	83.1	80	120			
Ethylbenzene	0.85	0.050	1.000	0	84.5	80	120			
Xylenes, Total	2.5	0.10	3.000	0	84.5	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		99.7	70	130			

Sample ID: mb-69768	Samp ⁻	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batc	h ID: 69	768	F	unNo: 9	0614				
Prep Date: 8/25/2022	Analysis [Date: 8/	26/2022	S	SeqNo: 3	237523	Units: mg/K	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1.000		95.3	70	130			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 21 of 21



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: EOG	Work Order Num	ber: 2208E19		RcptNo: 1	
Received By: Juan Rojas	8/24/2022 7:15:00	AM	- warring		
Completed By: Juan Rojas	8/24/2022 7:25:37	AM	Harring		
Reviewed By: \$8-24-0			-2		
Chain of Custody					
1. Is Chain of Custody complete?		Yes 🗸	No 🗌	Not Present	
2. How was the sample delivered?		Courier			
Log In					
3. Was an attempt made to cool th	e samples?	Yes 🗹	No 🗌	NA 🗆	
4. Were all samples received at a t	emperature of >0° C to 6.0°C	Yes 🔽	No 🗌	NA 🗆	
5. Sample(s) in proper container(s)	?	Yes 🔽	No 🗆		
6. Sufficient sample volume for indi	cated test(s)?	Yes 🔽	No 🗆		
7. Are samples (except VOA and O	NG) properly preserved?	Yes 🗸	No 🗌		
8. Was preservative added to bottle	es?	Yes	No 🗸	NA 🗆	
9. Received at least 1 vial with head	dspace <1/4" for AQ VOA?	Yes	No 🗆	NA 🗷	
0. Were any sample containers rec	ceived broken?	Yes	No 🗸	# of preserved	
			w. D	bottles checked	
 Does paperwork match bottle lab (Note discrepancies on chain of 		Yes 🗸	No 🗔	for pH: (<2 or >12 unless no	oted)
2. Are matrices correctly identified		Yes 🗸	No 🗌	Adjusted?	
3. Is it clear what analyses were rec	quested?	Yes 🗸	No 🗌	/	. 1
Were all holding times able to be (If no, notify customer for authori	met?	Yes 🗹	No 🗆	Checked by: JN \$/21	1/2
Special Handling (if applical			2		
15. Was client notified of all discrep		Yes 🗌	No 🗆	NA 🗹	
Person Notified:	Date				
By Whom:	Via:	eMail	Phone Fax	☐ In Person	
Regarding:					
Client Instructions:					
16. Additional remarks:				17.	
17. Cooler Information					

				000	14		
Client: EOG-Artesia / Ranger Env.	tesia / Ra	inger Env.	Standard	Standard			ANAI VSTS I ABOBATOBY
			Project Name:	io			AINTERST PABORALOR
Mailing Address:	E0G - 10	Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210	Roy	SWD#3		7007	WWW.italiettyllollitettal.Coff
Ranger: PO Box 201179, Austin TX 78720	201179, 4	Austin TX 78720	Project #: 53	5375		Tel 5	Tel 505-345-3975
Phone #: 521-335-1785	35-1785						nal
email or Fax#: Will@RangerEnv.com	Will@Rar	ngerEnv.com	Project Mana	Project Manager: W. Kierdorf	orf	(
QA/QC Package: ■ Standard		☐ Level 4 (Full Validation)				/ MRO	
Accreditation:	☐ Az Co	□ Az Compliance □ Other	Sampler: On Ice:	J, Martinez DYes DNo	nez D No		
■ EDD (Type)	Excel		# of Coolers:	_		SRC	
			Cooler Temp(including CF):	1.6	0=1.6	5D(C	
Date Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL NO.	B) X∃TB 108:H9T Chloride	
3hbo perces	50:1	RTP-2/1	1x402)ar	116	100-	× ×	
1000		RTP-2/6		1	-000-		
1090		RTP-2/4			-00 3		
10016		RTP-2/11			1500-		
1043		RTP-1/2			-800-		
950/		RTP-1/6		\	200		
1200		RTP-3/2		\	-007		
1330		RTP-3/4			2002		
1336		RTP-3/6			-000		
0141		BTP-4/2			0/0_		
1430		RTP-416			170-		
J433	9	Rrp-5/1	1	4	210	-1 -1 -1	
Date: Time:	Relinquished by:	ed by:	Received by:	Via:	Date Time	Remarks: Bill	Remarks: Bill to EOG Artesia
3.20	7	Martinez	(LYMULL)	SW	State 120	I	
Washer Imme:	Kelinquished by:	ed by:	Received by:	Via:	Date Time		
			1	000011000	ノーていているとうしている		

tesia / Ranger Env. EOG - 105 S 4th St, Artesia NM, 88210 201179, Austin TX 78720 335-1785 Will@RangerEnv.com	Standard Rush Project Name:	HALL ENVIRONMENTAL
ssia NM, 88210	oject Name:	ALCHACON DIVINION IN THE
esia NM, 88210 :0		AIMALISTS LABORATORY
03	ROVSED #3	www.hallenvironmental.com
	Project #: 5375	₹
		lei. 505-345-3975 Fax 505-345-4107
	Project Manager: W. Kierdorf	Jeanhay sednest
ge:		(OAV
		N/ (
☐ Az Compliance ☐ Other_	Sampler: J. Martinez On Ice: Pres PNo	
■ EDD (Type) Excel # of	olers: 1	ОЫ
Coo	Cooler Temp(including CF): 1.6-0=1.6	eD(G
Date Time Matrix Sample Name Type	Container Preservative HEAL No.	PTEX (8)
1445 Soil 8To-5 /	Day of the	dI ;
9/0-10	1 402 201 (CE (U)	N X X
1305	700-	
1520 RTP-6/6	-CIS-	
- 1524 - ATP-6/7	910- + +	-h
Relinquished by:	Received by: Via: Date Time	Remarks: Bill to EOG Artesia
0130 I. Martinez	alumi, 8/12/12 720	
	Via:	
3 =	SII'L CONNER SISVIDI	1 m while white with the state of the state



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

October 13, 2022

Will Kierdorf
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX:

RE: Roy SWD 3 OrderNo.: 2209E05

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 32 sample(s) on 9/27/2022 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued October 07, 2022.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: B-1

 Project:
 Roy SWD 3
 Collection Date: 9/23/2022 2:00:00 PM

 Lab ID:
 2209E05-001
 Matrix: SOIL
 Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	390	60	mg/Kg	20	10/1/2022 2:10:43 PM	70532
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	9/30/2022 3:42:34 AM	70443
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/30/2022 3:42:34 AM	70443
Surr: DNOP	107	21-129	%Rec	1	9/30/2022 3:42:34 AM	70443
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/28/2022 8:13:32 PM	70438
Surr: BFB	94.1	37.7-212	%Rec	1	9/28/2022 8:13:32 PM	70438
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.025	mg/Kg	1	9/28/2022 8:13:32 PM	70438
Toluene	ND	0.049	mg/Kg	1	9/28/2022 8:13:32 PM	70438
Ethylbenzene	ND	0.049	mg/Kg	1	9/28/2022 8:13:32 PM	70438
Xylenes, Total	ND	0.099	mg/Kg	1	9/28/2022 8:13:32 PM	70438
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	9/28/2022 8:13:32 PM	70438

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- D Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 39

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: B-2

 Project:
 Roy SWD 3
 Collection Date: 9/23/2022 2:02:00 PM

 Lab ID:
 2209E05-002
 Matrix: SOIL
 Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	1000	61	mg/Kg	20	10/1/2022 2:47:56 PM	70532
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	9/30/2022 3:53:15 AM	70443
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	9/30/2022 3:53:15 AM	70443
Surr: DNOP	95.6	21-129	%Rec	1	9/30/2022 3:53:15 AM	70443
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	9/28/2022 8:36:52 PM	70438
Surr: BFB	93.3	37.7-212	%Rec	1	9/28/2022 8:36:52 PM	70438
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.025	mg/Kg	1	9/28/2022 8:36:52 PM	70438
Toluene	ND	0.050	mg/Kg	1	9/28/2022 8:36:52 PM	70438
Ethylbenzene	ND	0.050	mg/Kg	1	9/28/2022 8:36:52 PM	70438
Xylenes, Total	ND	0.10	mg/Kg	1	9/28/2022 8:36:52 PM	70438
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	9/28/2022 8:36:52 PM	70438

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- D Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 39

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: B-3

 Project:
 Roy SWD 3
 Collection Date: 9/23/2022 2:04:00 PM

 Lab ID:
 2209E05-003
 Matrix: SOIL
 Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	1200	60	mg/Kg	20	10/1/2022 3:00:21 PM	70532
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	9/30/2022 4:03:53 AM	70443
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	9/30/2022 4:03:53 AM	70443
Surr: DNOP	91.8	21-129	%Rec	1	9/30/2022 4:03:53 AM	70443
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	9/28/2022 9:00:20 PM	70438
Surr: BFB	94.2	37.7-212	%Rec	1	9/28/2022 9:00:20 PM	70438
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.025	mg/Kg	1	9/28/2022 9:00:20 PM	70438
Toluene	ND	0.050	mg/Kg	1	9/28/2022 9:00:20 PM	70438
Ethylbenzene	ND	0.050	mg/Kg	1	9/28/2022 9:00:20 PM	70438
Xylenes, Total	ND	0.10	mg/Kg	1	9/28/2022 9:00:20 PM	70438
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	9/28/2022 9:00:20 PM	70438

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 39

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: B-4

 Project:
 Roy SWD 3
 Collection Date: 9/23/2022 2:06:00 PM

 Lab ID:
 2209E05-004
 Matrix: SOIL
 Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL Q	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	1200	60	mg/Kg	20	10/1/2022 3:12:46 PM	70532
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	9/30/2022 4:14:31 AM	70443
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/30/2022 4:14:31 AM	70443
Surr: DNOP	87.6	21-129	%Rec	1	9/30/2022 4:14:31 AM	70443
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/28/2022 9:23:45 PM	70438
Surr: BFB	92.6	37.7-212	%Rec	1	9/28/2022 9:23:45 PM	70438
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.024	mg/Kg	1	9/28/2022 9:23:45 PM	70438
Toluene	ND	0.048	mg/Kg	1	9/28/2022 9:23:45 PM	70438
Ethylbenzene	ND	0.048	mg/Kg	1	9/28/2022 9:23:45 PM	70438
Xylenes, Total	ND	0.097	mg/Kg	1	9/28/2022 9:23:45 PM	70438
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	9/28/2022 9:23:45 PM	70438

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- D Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 39

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: B-5

Project: Roy SWD 3
 Collection Date: 9/23/2022 2:08:00 PM

 Lab ID: 2209E05-005
 Matrix: SOIL
 Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	1000	60	mg/Kg	20	10/1/2022 3:25:11 PM	70532
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	9/30/2022 4:25:09 AM	70443
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/30/2022 4:25:09 AM	70443
Surr: DNOP	87.8	21-129	%Rec	1	9/30/2022 4:25:09 AM	70443
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/28/2022 9:47:18 PM	70438
Surr: BFB	91.3	37.7-212	%Rec	1	9/28/2022 9:47:18 PM	70438
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.025	mg/Kg	1	9/28/2022 9:47:18 PM	70438
Toluene	ND	0.049	mg/Kg	1	9/28/2022 9:47:18 PM	70438
Ethylbenzene	ND	0.049	mg/Kg	1	9/28/2022 9:47:18 PM	70438
Xylenes, Total	ND	0.099	mg/Kg	1	9/28/2022 9:47:18 PM	70438
Surr: 4-Bromofluorobenzene	98.5	70-130	%Rec	1	9/28/2022 9:47:18 PM	70438

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- D Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 39

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: B-6

 Project:
 Roy SWD 3
 Collection Date: 9/23/2022 2:10:00 PM

 Lab ID:
 2209E05-006
 Matrix: SOIL
 Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	950	60	mg/Kg	20	10/1/2022 3:37:36 PM	70532
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	mb
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	9/30/2022 12:43:05 AM	70446
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/30/2022 12:43:05 AM	70446
Surr: DNOP	112	21-129	%Rec	1	9/30/2022 12:43:05 AM	70446
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/28/2022 10:41:00 PM	70439
Surr: BFB	104	37.7-212	%Rec	1	9/28/2022 10:41:00 PM	70439
EPA METHOD 8021B: VOLATILES					Analyst	BRM
Benzene	ND	0.024	mg/Kg	1	9/28/2022 10:41:00 PM	70439
Toluene	ND	0.049	mg/Kg	1	9/28/2022 10:41:00 PM	70439
Ethylbenzene	ND	0.049	mg/Kg	1	9/28/2022 10:41:00 PM	70439
Xylenes, Total	ND	0.097	mg/Kg	1	9/28/2022 10:41:00 PM	70439
Surr: 4-Bromofluorobenzene	93.6	70-130	%Rec	1	9/28/2022 10:41:00 PM	70439

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ID Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

e pH Not In Range ting Limit Page 6 of 39

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: B-7

 Project:
 Roy SWD 3
 Collection Date: 9/23/2022 2:12:00 PM

 Lab ID:
 2209E05-007
 Matrix: SOIL
 Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	470	60	mg/Kg	20	10/1/2022 3:50:01 PM	70532
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: mb
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	9/30/2022 1:26:49 AM	70446
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	9/30/2022 1:26:49 AM	70446
Surr: DNOP	105	21-129	%Rec	1	9/30/2022 1:26:49 AM	70446
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/28/2022 11:40:00 PM	70439
Surr: BFB	111	37.7-212	%Rec	1	9/28/2022 11:40:00 PM	70439
EPA METHOD 8021B: VOLATILES					Analyst	BRM
Benzene	ND	0.024	mg/Kg	1	9/28/2022 11:40:00 PM	70439
Toluene	ND	0.049	mg/Kg	1	9/28/2022 11:40:00 PM	70439
Ethylbenzene	ND	0.049	mg/Kg	1	9/28/2022 11:40:00 PM	70439
Xylenes, Total	ND	0.098	mg/Kg	1	9/28/2022 11:40:00 PM	70439
Surr: 4-Bromofluorobenzene	96.4	70-130	%Rec	1	9/28/2022 11:40:00 PM	70439

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- D Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 7 of 39

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: B-8

 Project:
 Roy SWD 3
 Collection Date: 9/23/2022 2:14:00 PM

 Lab ID:
 2209E05-008
 Matrix: SOIL
 Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	1000	60	mg/Kg	20	10/1/2022 4:27:14 PM	70532
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst	: mb
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	9/30/2022 1:41:15 AM	70446
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	9/30/2022 1:41:15 AM	70446
Surr: DNOP	107	21-129	%Rec	1	9/30/2022 1:41:15 AM	70446
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/29/2022 12:39:00 AM	70439
Surr: BFB	106	37.7-212	%Rec	1	9/29/2022 12:39:00 AM	70439
EPA METHOD 8021B: VOLATILES					Analyst	: BRM
Benzene	ND	0.025	mg/Kg	1	9/29/2022 12:39:00 AM	70439
Toluene	ND	0.049	mg/Kg	1	9/29/2022 12:39:00 AM	70439
Ethylbenzene	ND	0.049	mg/Kg	1	9/29/2022 12:39:00 AM	70439
Xylenes, Total	ND	0.098	mg/Kg	1	9/29/2022 12:39:00 AM	70439
Surr: 4-Bromofluorobenzene	94.2	70-130	%Rec	1	9/29/2022 12:39:00 AM	70439

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 8 of 39

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: B-9

 Project:
 Roy SWD 3
 Collection Date: 9/23/2022 2:16:00 PM

 Lab ID:
 2209E05-009
 Matrix: SOIL
 Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	1200	60	mg/Kg	20	10/1/2022 4:39:38 PM	70532
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: mb
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	9/30/2022 1:55:41 AM	70446
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	9/30/2022 1:55:41 AM	70446
Surr: DNOP	75.5	21-129	%Rec	1	9/30/2022 1:55:41 AM	70446
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	9/29/2022 12:59:00 AM	70439
Surr: BFB	101	37.7-212	%Rec	1	9/29/2022 12:59:00 AM	70439
EPA METHOD 8021B: VOLATILES					Analyst	BRM
Benzene	ND	0.023	mg/Kg	1	9/29/2022 12:59:00 AM	70439
Toluene	ND	0.046	mg/Kg	1	9/29/2022 12:59:00 AM	70439
Ethylbenzene	ND	0.046	mg/Kg	1	9/29/2022 12:59:00 AM	70439
Xylenes, Total	ND	0.093	mg/Kg	1	9/29/2022 12:59:00 AM	70439
Surr: 4-Bromofluorobenzene	92.6	70-130	%Rec	1	9/29/2022 12:59:00 AM	70439

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ID Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 9 of 39

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: B-10

Project: Roy SWD 3
 Collection Date: 9/23/2022 2:18:00 PM

 Lab ID: 2209E05-010
 Matrix: SOIL
 Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	1000	60	mg/Kg	20	10/1/2022 4:52:03 PM	70532
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: mb
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	9/30/2022 2:10:07 AM	70446
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	9/30/2022 2:10:07 AM	70446
Surr: DNOP	85.9	21-129	%Rec	1	9/30/2022 2:10:07 AM	70446
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/29/2022 1:18:00 AM	70439
Surr: BFB	103	37.7-212	%Rec	1	9/29/2022 1:18:00 AM	70439
EPA METHOD 8021B: VOLATILES					Analyst	: BRM
Benzene	ND	0.024	mg/Kg	1	9/29/2022 1:18:00 AM	70439
Toluene	ND	0.048	mg/Kg	1	9/29/2022 1:18:00 AM	70439
Ethylbenzene	ND	0.048	mg/Kg	1	9/29/2022 1:18:00 AM	70439
Xylenes, Total	ND	0.095	mg/Kg	1	9/29/2022 1:18:00 AM	70439
Surr: 4-Bromofluorobenzene	94.8	70-130	%Rec	1	9/29/2022 1:18:00 AM	70439

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 10 of 39

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: B-11

 Project:
 Roy SWD 3
 Collection Date: 9/23/2022 2:20:00 PM

 Lab ID:
 2209E05-011
 Matrix: SOIL
 Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	680	60	mg/Kg	20	10/1/2022 5:04:28 PM	70532
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: mb
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	9/30/2022 2:24:31 AM	70446
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	9/30/2022 2:24:31 AM	70446
Surr: DNOP	99.0	21-129	%Rec	1	9/30/2022 2:24:31 AM	70446
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/29/2022 1:38:00 AM	70439
Surr: BFB	100	37.7-212	%Rec	1	9/29/2022 1:38:00 AM	70439
EPA METHOD 8021B: VOLATILES					Analyst	BRM
Benzene	ND	0.024	mg/Kg	1	9/29/2022 1:38:00 AM	70439
Toluene	ND	0.047	mg/Kg	1	9/29/2022 1:38:00 AM	70439
Ethylbenzene	ND	0.047	mg/Kg	1	9/29/2022 1:38:00 AM	70439
Xylenes, Total	ND	0.095	mg/Kg	1	9/29/2022 1:38:00 AM	70439
Surr: 4-Bromofluorobenzene	94.1	70-130	%Rec	1	9/29/2022 1:38:00 AM	70439

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 11 of 39

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: B-12

 Project:
 Roy SWD 3
 Collection Date: 9/23/2022 2:22:00 PM

 Lab ID:
 2209E05-012
 Matrix: SOIL
 Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	860	60	mg/Kg	20	10/1/2022 5:16:53 PM	70532
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: mb
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	9/30/2022 2:38:51 AM	70446
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/30/2022 2:38:51 AM	70446
Surr: DNOP	70.8	21-129	%Rec	1	9/30/2022 2:38:51 AM	70446
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	9/29/2022 1:57:00 AM	70439
Surr: BFB	103	37.7-212	%Rec	1	9/29/2022 1:57:00 AM	70439
EPA METHOD 8021B: VOLATILES					Analyst	BRM
Benzene	ND	0.025	mg/Kg	1	9/29/2022 1:57:00 AM	70439
Toluene	ND	0.050	mg/Kg	1	9/29/2022 1:57:00 AM	70439
Ethylbenzene	ND	0.050	mg/Kg	1	9/29/2022 1:57:00 AM	70439
Xylenes, Total	ND	0.099	mg/Kg	1	9/29/2022 1:57:00 AM	70439
Surr: 4-Bromofluorobenzene	95.7	70-130	%Rec	1	9/29/2022 1:57:00 AM	70439

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 12 of 39

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: B-13

 Project:
 Roy SWD 3
 Collection Date: 9/23/2022 2:24:00 PM

 Lab ID:
 2209E05-013
 Matrix: SOIL
 Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	630	60	mg/Kg	20	10/1/2022 5:29:18 PM	70532
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: mb
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	9/30/2022 2:53:15 AM	70446
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	9/30/2022 2:53:15 AM	70446
Surr: DNOP	87.9	21-129	%Rec	1	9/30/2022 2:53:15 AM	70446
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	9/29/2022 2:17:00 AM	70439
Surr: BFB	107	37.7-212	%Rec	1	9/29/2022 2:17:00 AM	70439
EPA METHOD 8021B: VOLATILES					Analyst	BRM
Benzene	ND	0.025	mg/Kg	1	9/29/2022 2:17:00 AM	70439
Toluene	ND	0.050	mg/Kg	1	9/29/2022 2:17:00 AM	70439
Ethylbenzene	ND	0.050	mg/Kg	1	9/29/2022 2:17:00 AM	70439
Xylenes, Total	ND	0.099	mg/Kg	1	9/29/2022 2:17:00 AM	70439
Surr: 4-Bromofluorobenzene	95.7	70-130	%Rec	1	9/29/2022 2:17:00 AM	70439

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 13 of 39

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: B-14

 Project:
 Roy SWD 3
 Collection Date: 9/23/2022 2:26:00 PM

 Lab ID:
 2209E05-014
 Matrix: SOIL
 Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JTT
Chloride	650	60	mg/Kg	20	10/3/2022 9:25:41 AM	70539
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	: mb
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	9/30/2022 3:07:32 AM	70446
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	9/30/2022 3:07:32 AM	70446
Surr: DNOP	80.3	21-129	%Rec	1	9/30/2022 3:07:32 AM	70446
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/29/2022 2:37:00 AM	70439
Surr: BFB	108	37.7-212	%Rec	1	9/29/2022 2:37:00 AM	70439
EPA METHOD 8021B: VOLATILES					Analyst	: BRM
Benzene	ND	0.024	mg/Kg	1	9/29/2022 2:37:00 AM	70439
Toluene	ND	0.048	mg/Kg	1	9/29/2022 2:37:00 AM	70439
Ethylbenzene	ND	0.048	mg/Kg	1	9/29/2022 2:37:00 AM	70439
Xylenes, Total	ND	0.096	mg/Kg	1	9/29/2022 2:37:00 AM	70439
Surr: 4-Bromofluorobenzene	95.9	70-130	%Rec	1	9/29/2022 2:37:00 AM	70439

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- D Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 14 of 39

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: B-15

 Project:
 Roy SWD 3
 Collection Date: 9/23/2022 2:28:00 PM

 Lab ID:
 2209E05-015
 Matrix: SOIL
 Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	:: JTT
Chloride	1000	61	mg/Kg	20	10/3/2022 10:02:55 AM	70539
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	:: mb
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	9/30/2022 3:21:42 AM	70446
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/30/2022 3:21:42 AM	70446
Surr: DNOP	80.3	21-129	%Rec	1	9/30/2022 3:21:42 AM	70446
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: BRM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	9/29/2022 2:56:00 AM	70439
Surr: BFB	108	37.7-212	%Rec	1	9/29/2022 2:56:00 AM	70439
EPA METHOD 8021B: VOLATILES					Analyst	: BRM
Benzene	ND	0.025	mg/Kg	1	9/29/2022 2:56:00 AM	70439
Toluene	ND	0.050	mg/Kg	1	9/29/2022 2:56:00 AM	70439
Ethylbenzene	ND	0.050	mg/Kg	1	9/29/2022 2:56:00 AM	70439
Xylenes, Total	ND	0.10	mg/Kg	1	9/29/2022 2:56:00 AM	70439
Surr: 4-Bromofluorobenzene	94.0	70-130	%Rec	1	9/29/2022 2:56:00 AM	70439

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 15 of 39

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: B-16

 Project:
 Roy SWD 3
 Collection Date: 9/23/2022 2:30:00 PM

 Lab ID:
 2209E05-016
 Matrix: SOIL
 Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL Q	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JTT
Chloride	570	60	mg/Kg	20	10/3/2022 10:15:19 AM	70539
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: mb
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	9/30/2022 3:35:59 AM	70446
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	9/30/2022 3:35:59 AM	70446
Surr: DNOP	75.9	21-129	%Rec	1	9/30/2022 3:35:59 AM	70446
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/29/2022 3:36:00 AM	70439
Surr: BFB	104	37.7-212	%Rec	1	9/29/2022 3:36:00 AM	70439
EPA METHOD 8021B: VOLATILES					Analyst	BRM
Benzene	ND	0.024	mg/Kg	1	9/29/2022 3:36:00 AM	70439
Toluene	ND	0.048	mg/Kg	1	9/29/2022 3:36:00 AM	70439
Ethylbenzene	ND	0.048	mg/Kg	1	9/29/2022 3:36:00 AM	70439
Xylenes, Total	ND	0.097	mg/Kg	1	9/29/2022 3:36:00 AM	70439
Surr: 4-Bromofluorobenzene	95.2	70-130	%Rec	1	9/29/2022 3:36:00 AM	70439

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 16 of 39

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: B-17

Project: Roy SWD 3
 Collection Date: 9/23/2022 2:32:00 PM

 Lab ID: 2209E05-017
 Matrix: SOIL
 Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JTT
Chloride	1000	59	mg/Kg	20	10/3/2022 10:27:44 AM	70539
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: mb
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	9/30/2022 3:50:04 AM	70446
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/30/2022 3:50:04 AM	70446
Surr: DNOP	79.9	21-129	%Rec	1	9/30/2022 3:50:04 AM	70446
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/29/2022 3:55:00 AM	70439
Surr: BFB	100	37.7-212	%Rec	1	9/29/2022 3:55:00 AM	70439
EPA METHOD 8021B: VOLATILES					Analyst	: BRM
Benzene	ND	0.024	mg/Kg	1	9/29/2022 3:55:00 AM	70439
Toluene	ND	0.048	mg/Kg	1	9/29/2022 3:55:00 AM	70439
Ethylbenzene	ND	0.048	mg/Kg	1	9/29/2022 3:55:00 AM	70439
Xylenes, Total	ND	0.095	mg/Kg	1	9/29/2022 3:55:00 AM	70439
Surr: 4-Bromofluorobenzene	92.7	70-130	%Rec	1	9/29/2022 3:55:00 AM	70439

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- D Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 17 of 39

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: B-18

 Project:
 Roy SWD 3
 Collection Date: 9/23/2022 2:34:00 PM

 Lab ID:
 2209E05-018
 Matrix: SOIL
 Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JTT
Chloride	1300	60	mg/Kg	20	10/3/2022 10:40:09 AM	70539
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	: mb
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	9/30/2022 4:04:08 AM	70446
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	9/30/2022 4:04:08 AM	70446
Surr: DNOP	89.9	21-129	%Rec	1	9/30/2022 4:04:08 AM	70446
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/29/2022 4:15:00 AM	70439
Surr: BFB	106	37.7-212	%Rec	1	9/29/2022 4:15:00 AM	70439
EPA METHOD 8021B: VOLATILES					Analyst	: BRM
Benzene	ND	0.024	mg/Kg	1	9/29/2022 4:15:00 AM	70439
Toluene	ND	0.047	mg/Kg	1	9/29/2022 4:15:00 AM	70439
Ethylbenzene	ND	0.047	mg/Kg	1	9/29/2022 4:15:00 AM	70439
Xylenes, Total	ND	0.095	mg/Kg	1	9/29/2022 4:15:00 AM	70439
Surr: 4-Bromofluorobenzene	95.9	70-130	%Rec	1	9/29/2022 4:15:00 AM	70439

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 18 of 39

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: B-19

 Project:
 Roy SWD 3
 Collection Date: 9/23/2022 2:36:00 PM

 Lab ID:
 2209E05-019
 Matrix: SOIL
 Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL Q	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JTT
Chloride	900	60	mg/Kg	20	10/3/2022 11:42:14 AM	70539
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: mb
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	9/30/2022 4:18:20 AM	70446
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	9/30/2022 4:18:20 AM	70446
Surr: DNOP	79.9	21-129	%Rec	1	9/30/2022 4:18:20 AM	70446
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/29/2022 4:35:00 AM	70439
Surr: BFB	104	37.7-212	%Rec	1	9/29/2022 4:35:00 AM	70439
EPA METHOD 8021B: VOLATILES					Analyst	BRM
Benzene	ND	0.024	mg/Kg	1	9/29/2022 4:35:00 AM	70439
Toluene	ND	0.048	mg/Kg	1	9/29/2022 4:35:00 AM	70439
Ethylbenzene	ND	0.048	mg/Kg	1	9/29/2022 4:35:00 AM	70439
Xylenes, Total	ND	0.097	mg/Kg	1	9/29/2022 4:35:00 AM	70439
Surr: 4-Bromofluorobenzene	95.1	70-130	%Rec	1	9/29/2022 4:35:00 AM	70439

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 19 of 39

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: W-1

 Project:
 Roy SWD 3
 Collection Date: 9/23/2022 2:38:00 PM

 Lab ID:
 2209E05-020
 Matrix: SOIL
 Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JTT
Chloride	450	60	mg/Kg	20	10/3/2022 11:54:38 AM	70539
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: mb
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	9/30/2022 4:32:16 AM	70446
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/30/2022 4:32:16 AM	70446
Surr: DNOP	76.3	21-129	%Rec	1	9/30/2022 4:32:16 AM	70446
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/29/2022 4:54:00 AM	70439
Surr: BFB	105	37.7-212	%Rec	1	9/29/2022 4:54:00 AM	70439
EPA METHOD 8021B: VOLATILES					Analyst	: BRM
Benzene	ND	0.024	mg/Kg	1	9/29/2022 4:54:00 AM	70439
Toluene	ND	0.048	mg/Kg	1	9/29/2022 4:54:00 AM	70439
Ethylbenzene	ND	0.048	mg/Kg	1	9/29/2022 4:54:00 AM	70439
Xylenes, Total	ND	0.095	mg/Kg	1	9/29/2022 4:54:00 AM	70439
Surr: 4-Bromofluorobenzene	97.3	70-130	%Rec	1	9/29/2022 4:54:00 AM	70439

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 20 of 39

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: W-2

 Project:
 Roy SWD 3
 Collection Date: 9/23/2022 2:40:00 PM

 Lab ID:
 2209E05-021
 Matrix: SOIL
 Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JTT
Chloride	850	60	mg/Kg	20	10/3/2022 12:07:02 PM	70539
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: mb
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	9/30/2022 4:46:15 AM	70446
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/30/2022 4:46:15 AM	70446
Surr: DNOP	79.7	21-129	%Rec	1	9/30/2022 4:46:15 AM	70446
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/29/2022 5:14:00 AM	70439
Surr: BFB	102	37.7-212	%Rec	1	9/29/2022 5:14:00 AM	70439
EPA METHOD 8021B: VOLATILES					Analyst	BRM
Benzene	ND	0.024	mg/Kg	1	9/29/2022 5:14:00 AM	70439
Toluene	ND	0.048	mg/Kg	1	9/29/2022 5:14:00 AM	70439
Ethylbenzene	ND	0.048	mg/Kg	1	9/29/2022 5:14:00 AM	70439
Xylenes, Total	ND	0.096	mg/Kg	1	9/29/2022 5:14:00 AM	70439
Surr: 4-Bromofluorobenzene	94.8	70-130	%Rec	1	9/29/2022 5:14:00 AM	70439

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- D Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 21 of 39

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: W-3

Project: Roy SWD 3
 Collection Date: 9/23/2022 2:42:00 PM

 Lab ID: 2209E05-022
 Matrix: SOIL
 Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JTT
Chloride	480	60	mg/Kg	20	10/3/2022 12:19:26 PM	70539
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: mb
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	9/30/2022 4:59:59 AM	70446
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	9/30/2022 4:59:59 AM	70446
Surr: DNOP	91.2	21-129	%Rec	1	9/30/2022 4:59:59 AM	70446
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/29/2022 5:34:00 AM	70439
Surr: BFB	98.8	37.7-212	%Rec	1	9/29/2022 5:34:00 AM	70439
EPA METHOD 8021B: VOLATILES					Analyst	: BRM
Benzene	ND	0.023	mg/Kg	1	9/29/2022 5:34:00 AM	70439
Toluene	ND	0.047	mg/Kg	1	9/29/2022 5:34:00 AM	70439
Ethylbenzene	ND	0.047	mg/Kg	1	9/29/2022 5:34:00 AM	70439
Xylenes, Total	ND	0.094	mg/Kg	1	9/29/2022 5:34:00 AM	70439
Surr: 4-Bromofluorobenzene	93.8	70-130	%Rec	1	9/29/2022 5:34:00 AM	70439

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 22 of 39

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: W-4

Project: Roy SWD 3
 Collection Date: 9/23/2022 2:44:00 PM

 Lab ID: 2209E05-023
 Matrix: SOIL
 Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JTT
Chloride	1500	60	mg/Kg	20	10/3/2022 12:31:51 PM	70539
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: mb
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	9/30/2022 5:13:51 AM	70446
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	9/30/2022 5:13:51 AM	70446
Surr: DNOP	82.8	21-129	%Rec	1	9/30/2022 5:13:51 AM	70446
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/29/2022 5:53:00 AM	70439
Surr: BFB	105	37.7-212	%Rec	1	9/29/2022 5:53:00 AM	70439
EPA METHOD 8021B: VOLATILES					Analyst	BRM
Benzene	ND	0.025	mg/Kg	1	9/29/2022 5:53:00 AM	70439
Toluene	ND	0.049	mg/Kg	1	9/29/2022 5:53:00 AM	70439
Ethylbenzene	ND	0.049	mg/Kg	1	9/29/2022 5:53:00 AM	70439
Xylenes, Total	ND	0.099	mg/Kg	1	9/29/2022 5:53:00 AM	70439
Surr: 4-Bromofluorobenzene	95.5	70-130	%Rec	1	9/29/2022 5:53:00 AM	70439

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 23 of 39

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: W-5

 Project:
 Roy SWD 3
 Collection Date: 9/23/2022 2:46:00 PM

 Lab ID:
 2209E05-024
 Matrix: SOIL
 Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JTT
Chloride	890	60	mg/Kg	20	10/3/2022 12:44:16 PM	70539
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: mb
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	9/30/2022 5:27:22 AM	70446
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	9/30/2022 5:27:22 AM	70446
Surr: DNOP	55.0	21-129	%Rec	1	9/30/2022 5:27:22 AM	70446
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	9/29/2022 4:49:01 AM	70439
Surr: BFB	93.4	37.7-212	%Rec	1	9/29/2022 4:49:01 AM	70439
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.023	mg/Kg	1	9/29/2022 4:49:01 AM	70439
Toluene	ND	0.046	mg/Kg	1	9/29/2022 4:49:01 AM	70439
Ethylbenzene	ND	0.046	mg/Kg	1	9/29/2022 4:49:01 AM	70439
Xylenes, Total	ND	0.092	mg/Kg	1	9/29/2022 4:49:01 AM	70439
Surr: 4-Bromofluorobenzene	99.6	70-130	%Rec	1	9/29/2022 4:49:01 AM	70439

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- D Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 24 of 39

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: W-6

Project: Roy SWD 3
 Collection Date: 9/23/2022 2:46:00 PM

 Lab ID: 2209E05-025
 Matrix: SOIL
 Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JTT
Chloride	2000	60	mg/Kg	20	10/3/2022 12:56:41 PM	70539
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: mb
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	9/30/2022 5:40:57 AM	70446
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	9/30/2022 5:40:57 AM	70446
Surr: DNOP	77.4	21-129	%Rec	1	9/30/2022 5:40:57 AM	70446
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/29/2022 5:36:15 AM	70439
Surr: BFB	93.6	37.7-212	%Rec	1	9/29/2022 5:36:15 AM	70439
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.024	mg/Kg	1	9/29/2022 5:36:15 AM	70439
Toluene	ND	0.048	mg/Kg	1	9/29/2022 5:36:15 AM	70439
Ethylbenzene	ND	0.048	mg/Kg	1	9/29/2022 5:36:15 AM	70439
Xylenes, Total	ND	0.096	mg/Kg	1	9/29/2022 5:36:15 AM	70439
Surr: 4-Bromofluorobenzene	99.0	70-130	%Rec	1	9/29/2022 5:36:15 AM	70439

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- D Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 25 of 39

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: W-7

 Project:
 Roy SWD 3
 Collection Date: 9/23/2022 2:48:00 PM

 Lab ID:
 2209E05-026
 Matrix: SOIL
 Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JTT
Chloride	1700	60	mg/Kg	20	10/3/2022 1:09:05 PM	70539
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst	: mb
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	9/29/2022 11:13:27 AM	70465
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/29/2022 11:13:27 AM	70465
Surr: DNOP	101	21-129	%Rec	1	9/29/2022 11:13:27 AM	70465
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	9/29/2022 12:48:00 PM	70460
Surr: BFB	106	37.7-212	%Rec	1	9/29/2022 12:48:00 PM	70460
EPA METHOD 8021B: VOLATILES					Analyst	: BRM
Benzene	ND	0.025	mg/Kg	1	9/29/2022 12:48:00 PM	70460
Toluene	ND	0.050	mg/Kg	1	9/29/2022 12:48:00 PM	70460
Ethylbenzene	ND	0.050	mg/Kg	1	9/29/2022 12:48:00 PM	70460
Xylenes, Total	ND	0.10	mg/Kg	1	9/29/2022 12:48:00 PM	70460
Surr: 4-Bromofluorobenzene	93.8	70-130	%Rec	1	9/29/2022 12:48:00 PM	70460

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 26 of 39

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: RTP-2W/2

 Project:
 Roy SWD 3
 Collection Date: 9/23/2022 11:50:00 AM

 Lab ID:
 2209E05-027
 Matrix: SOIL
 Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	:: JTT
Chloride	160	60	mg/Kg	20	10/3/2022 1:46:19 PM	70539
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	:: mb
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	9/29/2022 11:53:53 AM	70465
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/29/2022 11:53:53 AM	70465
Surr: DNOP	106	21-129	%Rec	1	9/29/2022 11:53:53 AM	70465
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: BRM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	9/29/2022 2:07:00 PM	70460
Surr: BFB	105	37.7-212	%Rec	1	9/29/2022 2:07:00 PM	70460
EPA METHOD 8021B: VOLATILES					Analyst	: BRM
Benzene	ND	0.025	mg/Kg	1	9/29/2022 2:07:00 PM	70460
Toluene	ND	0.050	mg/Kg	1	9/29/2022 2:07:00 PM	70460
Ethylbenzene	ND	0.050	mg/Kg	1	9/29/2022 2:07:00 PM	70460
Xylenes, Total	ND	0.099	mg/Kg	1	9/29/2022 2:07:00 PM	70460
Surr: 4-Bromofluorobenzene	95.3	70-130	%Rec	1	9/29/2022 2:07:00 PM	70460

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 27 of 39

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: RTP-2W/4

 Project:
 Roy SWD 3
 Collection Date: 9/23/2022 12:00:00 PM

 Lab ID:
 2209E05-028
 Matrix: SOIL
 Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	:: JTT
Chloride	590	60	mg/Kg	20	10/3/2022 1:58:44 PM	70539
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	:: mb
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	9/29/2022 12:07:30 PM	70465
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/29/2022 12:07:30 PM	70465
Surr: DNOP	101	21-129	%Rec	1	9/29/2022 12:07:30 PM	70465
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: BRM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/29/2022 3:05:00 PM	70460
Surr: BFB	105	37.7-212	%Rec	1	9/29/2022 3:05:00 PM	70460
EPA METHOD 8021B: VOLATILES					Analyst	: BRM
Benzene	ND	0.024	mg/Kg	1	9/29/2022 3:05:00 PM	70460
Toluene	ND	0.047	mg/Kg	1	9/29/2022 3:05:00 PM	70460
Ethylbenzene	ND	0.047	mg/Kg	1	9/29/2022 3:05:00 PM	70460
Xylenes, Total	ND	0.094	mg/Kg	1	9/29/2022 3:05:00 PM	70460
Surr: 4-Bromofluorobenzene	92.8	70-130	%Rec	1	9/29/2022 3:05:00 PM	70460

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 28 of 39

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: RTP-2N/1

 Project:
 Roy SWD 3
 Collection Date: 9/23/2022 1:07:00 PM

 Lab ID:
 2209E05-029
 Matrix: SOIL
 Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JTT
Chloride	ND	60	mg/Kg	20	10/3/2022 2:11:10 PM	70539
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: mb
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	9/29/2022 12:21:03 PM	70465
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	9/29/2022 12:21:03 PM	70465
Surr: DNOP	115	21-129	%Rec	1	9/29/2022 12:21:03 PM	70465
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: BRM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/29/2022 3:25:00 PM	70460
Surr: BFB	103	37.7-212	%Rec	1	9/29/2022 3:25:00 PM	70460
EPA METHOD 8021B: VOLATILES					Analyst	: BRM
Benzene	ND	0.024	mg/Kg	1	9/29/2022 3:25:00 PM	70460
Toluene	ND	0.047	mg/Kg	1	9/29/2022 3:25:00 PM	70460
Ethylbenzene	ND	0.047	mg/Kg	1	9/29/2022 3:25:00 PM	70460
Xylenes, Total	ND	0.094	mg/Kg	1	9/29/2022 3:25:00 PM	70460
Surr: 4-Bromofluorobenzene	92.8	70-130	%Rec	1	9/29/2022 3:25:00 PM	70460

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 29 of 39

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: RTP-2N/4

 Project:
 Roy SWD 3
 Collection Date: 9/23/2022 1:22:00 PM

 Lab ID:
 2209E05-030
 Matrix: SOIL
 Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JTT
Chloride	95	60	mg/Kg	20	10/3/2022 2:23:35 PM	70539
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: mb
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	9/29/2022 12:34:33 PM	70465
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/29/2022 12:34:33 PM	70465
Surr: DNOP	89.0	21-129	%Rec	1	9/29/2022 12:34:33 PM	70465
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/29/2022 3:45:00 PM	70460
Surr: BFB	107	37.7-212	%Rec	1	9/29/2022 3:45:00 PM	70460
EPA METHOD 8021B: VOLATILES					Analyst	BRM
Benzene	ND	0.024	mg/Kg	1	9/29/2022 3:45:00 PM	70460
Toluene	ND	0.049	mg/Kg	1	9/29/2022 3:45:00 PM	70460
Ethylbenzene	ND	0.049	mg/Kg	1	9/29/2022 3:45:00 PM	70460
Xylenes, Total	ND	0.097	mg/Kg	1	9/29/2022 3:45:00 PM	70460
Surr: 4-Bromofluorobenzene	93.8	70-130	%Rec	1	9/29/2022 3:45:00 PM	70460

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- D Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 30 of 39

Analytical Report Lab Order 2209E05

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: RTP-6N/1

 Project:
 Roy SWD 3
 Collection Date: 9/23/2022 2:16:00 PM

 Lab ID:
 2209E05-031
 Matrix: SOIL
 Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JTT
Chloride	ND	60	mg/Kg	20	10/3/2022 2:36:00 PM	70539
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: mb
Diesel Range Organics (DRO)	62	14	mg/Kg	1	9/29/2022 12:48:10 PM	70465
Motor Oil Range Organics (MRO)	95	48	mg/Kg	1	9/29/2022 12:48:10 PM	70465
Surr: DNOP	110	21-129	%Rec	1	9/29/2022 12:48:10 PM	70465
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	9/29/2022 4:04:00 PM	70460
Surr: BFB	103	37.7-212	%Rec	1	9/29/2022 4:04:00 PM	70460
EPA METHOD 8021B: VOLATILES					Analyst	: BRM
Benzene	ND	0.023	mg/Kg	1	9/29/2022 4:04:00 PM	70460
Toluene	ND	0.046	mg/Kg	1	9/29/2022 4:04:00 PM	70460
Ethylbenzene	ND	0.046	mg/Kg	1	9/29/2022 4:04:00 PM	70460
Xylenes, Total	ND	0.093	mg/Kg	1	9/29/2022 4:04:00 PM	70460
Surr: 4-Bromofluorobenzene	92.4	70-130	%Rec	1	9/29/2022 4:04:00 PM	70460

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 31 of 39

Analytical Report Lab Order 2209E05

Date Reported: 10/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: RTP-6N/4

 Project:
 Roy SWD 3
 Collection Date: 9/23/2022 2:22:00 PM

 Lab ID:
 2209E05-032
 Matrix: SOIL
 Received Date: 9/27/2022 7:25:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JTT
Chloride	ND	60	mg/Kg	20	10/3/2022 2:48:25 PM	70539
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: mb
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	9/29/2022 1:15:16 PM	70465
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	9/29/2022 1:15:16 PM	70465
Surr: DNOP	92.9	21-129	%Rec	1	9/29/2022 1:15:16 PM	70465
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/29/2022 4:24:00 PM	70460
Surr: BFB	102	37.7-212	%Rec	1	9/29/2022 4:24:00 PM	70460
EPA METHOD 8021B: VOLATILES					Analyst	: BRM
Benzene	ND	0.023	mg/Kg	1	9/29/2022 4:24:00 PM	70460
Toluene	ND	0.047	mg/Kg	1	9/29/2022 4:24:00 PM	70460
Ethylbenzene	ND	0.047	mg/Kg	1	9/29/2022 4:24:00 PM	70460
Xylenes, Total	ND	0.094	mg/Kg	1	9/29/2022 4:24:00 PM	70460
Surr: 4-Bromofluorobenzene	93.1	70-130	%Rec	1	9/29/2022 4:24:00 PM	70460

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 32 of 39

Hall Environmental Analysis Laboratory, Inc.

13-Oct-22

2209E05

WO#:

Client: EOG

Project: Roy SWD 3

Sample ID: MB-70532 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 70532 RunNo: 91459

Prep Date: 9/30/2022 Analysis Date: 10/1/2022 SeqNo: 3275048 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-70532 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 70532 RunNo: 91459

Prep Date: 9/30/2022 Analysis Date: 10/1/2022 SeqNo: 3275049 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 15 1.5 15.00 0 98.4 90 110

Sample ID: MB-70539 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **70539** RunNo: **91495**

Prep Date: 10/3/2022 Analysis Date: 10/3/2022 SeqNo: 3277087 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-70539 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 70539 RunNo: 91495

Prep Date: 10/3/2022 Analysis Date: 10/3/2022 SeqNo: 3277088 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 15 1.5 15.00 0 96.9 90 110

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 33 of 39

Hall Environmental Analysis Laboratory, Inc.

WO#: **2209E05** *13-Oct-22*

Client: EOG

Project: Roy SWD 3

Sample ID: MB-70465	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batch	ID: 70	465	F	RunNo: 9	1420				
Prep Date: 9/28/2022	Analysis D	ate: 9/	29/2022	9	SeqNo: 3	273391	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		118	21	129			
Sample ID: LCS-70465	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batch	ID: 70	465	F	RunNo: 9	1420				
Prep Date: 9/28/2022	Analysis D	ate: 9/	29/2022	\$	SeqNo: 3	273393	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	15	50.00	0	89.5	64.4	127			
Surr: DNOP	4.7		5.000		95.0	21	129			
Sample ID: MB-70446	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Rango	e Organics	
Sample ID: MB-70446 Client ID: PBS	•	ype: ME			tCode: EI		8015M/D: Did	esel Rang	e Organics	
,	•	iD: 70	446	F		1420	8015M/D: Did	J	e Organics	
Client ID: PBS	Batch	iD: 70	446 /30/2022	F	RunNo: 9	1420		J	e Organics RPDLimit	Qual
Client ID: PBS Prep Date: 9/27/2022 Analyte Diesel Range Organics (DRO)	Batch Analysis D	n ID: 70 ate: 9 /	446 /30/2022	F	RunNo: 9 SeqNo: 3	1420 273492	Units: mg/K	(g	J	Qual
Client ID: PBS Prep Date: 9/27/2022 Analyte Diesel Range Organics (DRO) Motor Oil Range Organics (MRO)	Batch Analysis D Result	n ID: 70 rate: 9/ PQL	446 /30/2022	F	RunNo: 9 SeqNo: 3	1420 273492	Units: mg/K	(g	J	Qual
Client ID: PBS Prep Date: 9/27/2022 Analyte Diesel Range Organics (DRO)	Batch Analysis D Result ND	n ID: 70 rate: 9/ PQL 15	446 /30/2022	F	RunNo: 9 SeqNo: 3	1420 273492	Units: mg/K	(g	J	Qual
Client ID: PBS Prep Date: 9/27/2022 Analyte Diesel Range Organics (DRO) Motor Oil Range Organics (MRO)	Batch Analysis D Result ND ND 9.0	n ID: 70 rate: 9/ PQL 15	30/2022 SPK value	F SPK Ref Val	RunNo: 9 SeqNo: 3 %REC 90.4	1420 273492 LowLimit	Units: mg/K HighLimit	K g %RPD	RPDLimit	Qual
Client ID: PBS Prep Date: 9/27/2022 Analyte Diesel Range Organics (DRO) Motor Oil Range Organics (MRO) Surr: DNOP	Batch Analysis D Result ND ND 9.0 SampT	PQL 15	446 /30/2022 SPK value 10.00	SPK Ref Val	RunNo: 9 SeqNo: 3 %REC 90.4	1420 273492 LowLimit 21	Units: mg/K HighLimit 129	K g %RPD	RPDLimit	Qual
Client ID: PBS Prep Date: 9/27/2022 Analyte Diesel Range Organics (DRO) Motor Oil Range Organics (MRO) Surr: DNOP Sample ID: LCS-70446	Batch Analysis D Result ND ND 9.0 SampT	PQL 15 50 1D: 70	30/2022 SPK value 10.00	SPK Ref Val	RunNo: 9 SeqNo: 3: %REC 90.4	1420 273492 LowLimit 21 PA Method 1420	Units: mg/K HighLimit 129	%RPD	RPDLimit	Qual
Client ID: PBS Prep Date: 9/27/2022 Analyte Diesel Range Organics (DRO) Motor Oil Range Organics (MRO) Surr: DNOP Sample ID: LCS-70446 Client ID: LCSS	Batch Analysis D Result ND ND 9.0 SampT Batch	PQL 15 50 1D: 70	30/2022 SPK value 10.00 SS 446 30/2022	SPK Ref Val	RunNo: 9 SeqNo: 3: %REC 90.4 tCode: El	1420 273492 LowLimit 21 PA Method 1420	Units: mg/K HighLimit 129 8015M/D: Die	%RPD	RPDLimit	Qual

Qualifiers:

Analyte

Surr: DNOP

Surr: DNOP

Sample ID: LCS-70443

Prep Date: 9/27/2022

Diesel Range Organics (DRO)

Client ID: LCSS

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference

4.5

Result

37

4.2

SampType: LCS

Batch ID: 70443

Analysis Date: 9/30/2022

PQL

15

5.000

50.00

5.000

B Analyte detected in the associated Method Blank

90.2

RunNo: 91439

74.5

84.9

SeqNo: 3274443

LowLimit

64.4

21

129

Units: mg/Kg

127

129

%RPD

HighLimit

TestCode: EPA Method 8015M/D: Diesel Range Organics

E Estimated value

SPK value SPK Ref Val %REC

0

- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 34 of 39

RPDLimit

Qual

Hall Environmental Analysis Laboratory, Inc.

2209E05 13-Oct-22

WO#:

Client: EOG

Project: Roy SWD 3

Sample ID: MB-70443 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 70443 RunNo: 91439

Prep Date: 9/27/2022 Analysis Date: 9/30/2022 SeqNo: 3274446 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Diesel Range Organics (DRO) ND 15

Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 14 10.00 137 21 129 S

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 35 of 39

Hall Environmental Analysis Laboratory, Inc.

WO#: **2209E05**

13-Oct-22

Client: EOG

Project: Roy SWD 3

	VD 3			
Sample ID: Ics-70439	SampType: LCS	TestCode: EPA Method	8015D: Gasoline Range	
Client ID: LCSS	Batch ID: 70439	RunNo: 91349		
Prep Date: 9/27/2022	Analysis Date: 9/28/2022	SeqNo: 3271475	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit	Qual
Gasoline Range Organics (GRO)	25 5.0 25.00	0 100 72.3	137	_
Surr: BFB	2200 1000	222 37.7	212	S
Sample ID: mb-70439	SampType: MBLK	TestCode: EPA Method	8015D: Gasoline Range	
Client ID: PBS	Batch ID: 70439	RunNo: 91349		
Prep Date: 9/27/2022	Analysis Date: 9/28/2022	SeqNo: 3271477	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit	Qual
Gasoline Range Organics (GRO)	ND 5.0	407 07.7	0.40	
Surr: BFB	1100 1000	107 37.7	212	
Sample ID: LCS-70438	SampType: LCS	TestCode: EPA Method	8015D: Gasoline Range	
Client ID: LCSS	Batch ID: 70438	RunNo: 91394		
Prep Date: 9/27/2022	Analysis Date: 9/28/2022	SeqNo: 3272041	Units: mg/Kg	
Analyte		SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit	Qual
Gasoline Range Organics (GRO)	25 5.0 25.00	0 99.8 72.3	137	
Surr: BFB	1900 1000	191 37.7	212	
Sample ID: mb-70438	SampType: MBLK	TestCode: EPA Method	8015D: Gasoline Range	
Client ID: PBS	Batch ID: 70438	RunNo: 91394		
Prep Date: 9/27/2022	Analysis Date: 9/28/2022	SeqNo: 3272043	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit	Qual
Gasoline Range Organics (GRO)	ND 5.0	20.0	0.40	
Surr: BFB	940 1000	93.8 37.7	212	
Sample ID: Ics-70460	SampType: LCS	TestCode: EPA Method	8015D: Gasoline Range	
Client ID: LCSS	Batch ID: 70460	RunNo: 91419		
Prep Date: 9/28/2022	Analysis Date: 9/29/2022	SeqNo: 3272915	Units: mg/Kg	
Analyte		SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit	Qual
Gasoline Range Organics (GRO)	27 5.0 25.00	0 108 72.3	137	•
Surr: BFB	2400 1000	237 37.7	212	S
Sample ID: mb-70460	SampType: MBLK	TestCode: EPA Method	8015D: Gasoline Range	
Client ID: PBS	Batch ID: 70460	RunNo: 91419		
Prep Date: 9/28/2022	Analysis Date: 9/29/2022	SeqNo: 3272916	Units: mg/Kg	

Qualifiers:

Analyte

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

Result

PQL

B Analyte detected in the associated Method Blank

%REC

LowLimit

HighLimit

E Estimated value

SPK value SPK Ref Val

- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 36 of 39

RPDLimit

Qual

%RPD

Hall Environmental Analysis Laboratory, Inc.

2209E05 13-Oct-22

WO#:

Client: EOG

Project: Roy SWD 3

Sample ID: mb-70460 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 70460 RunNo: 91419

Prep Date: 9/28/2022 Analysis Date: 9/29/2022 SeqNo: 3272916 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1000 1000 102 37.7 212

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 37 of 39

Hall Environmental Analysis Laboratory, Inc.

WO#: **2209E05**

13-Oct-22

Client: EOG

Project: Roy SWD 3

Sample ID: Ics-70439	SampType: LCS			Tes	tCode: El					
Client ID: LCSS	Batch	Batch ID: 70439			RunNo: 9	1349				
Prep Date: 9/27/2022	Analysis D	Analysis Date: 9/28/2022			SeqNo: 3271548			Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	92.4	80	120			
Toluene	0.95	0.050	1.000	0	94.8	80	120			
Ethylbenzene	0.98	0.050	1.000	0	98.3	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.9	80	120			
Surr: 4-Bromofluorobenzene	0.94		1.000		93.9	70	130			

Sample ID: mb-70439	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	n ID: 70	439	F	RunNo: 9	1349				
Prep Date: 9/27/2022	Analysis D	ate: 9/	28/2022	8	SeqNo: 3	271549	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.94		1.000		94.3	70	130			

Sample ID: Ics-70438	SampT	ype: LC	s	TestCode: EPA Method			8021B: Volat	iles		
Client ID: LCSS	Batch	n ID: 70 4	438	RunNo: 91394						
Prep Date: 9/27/2022	Analysis D	Date: 9/	28/2022	S	SeqNo: 3	272469	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	91.9	80	120			
Toluene	0.95	0.050	1.000	0	95.5	80	120			
Ethylbenzene	0.96	0.050	1.000	0	95.5	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.8	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		97.0	70	130			

Sample ID: mb-70438	SampT	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch	ID: 70438 RunNo: 913			91394						
Prep Date: 9/27/2022	Analysis D	oate: 9/	28/2022	S	SeqNo: 3	272470	Units: mg/k	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	0.025									
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.10									
Surr: 4-Bromofluorobenzene	1.0		1.000		100	70	130				

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 38 of 39

Hall Environmental Analysis Laboratory, Inc.

WO#: **2209E05** *13-Oct-22*

Client: EOG

Project: Roy SWD 3

Sample ID: Ics-70460	SampT	SampType: LCS			TestCode: EPA Method 8021B: Volatiles					
Client ID: LCSS	Batcl	n ID: 70 4	460	RunNo: 91419						
Prep Date: 9/28/2022	Analysis D	Date: 9/	29/2022	S	SeqNo: 3	272939	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	95.4	80	120			
Toluene	0.98	0.050	1.000	0	98.5	80	120			
Ethylbenzene	1.0	0.050	1.000	0	99.7	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.4	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		96.6	70	130			

Sample ID: mb-70460	Samp	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batc	h ID: 70	460	F	RunNo: 9	1419				
Prep Date: 9/28/2022	Analysis [Date: 9/	29/2022	8	SeqNo: 3	272940	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1.000		94.7	70	130			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 39 of 39



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: EOG	Work Order Number: 2209E05		RcptNo: 1
Received By: Joseph Alderette	9/27/2022 7:25:00 AM	gH	
Completed By: Sean Livingston	9/27/2022 8:19:41 AM	5. /	7-6-
Reviewed By: WA 9-27-22			
Chain of Custody			
1. Is Chain of Custody complete?	Yes 🗸	No 🗌	Not Present
2. How was the sample delivered?	Courier		
Log In 3. Was an attempt made to cool the samples?	Yes 🗸	No 🗌	na 🗆
4. Were all samples received at a temperature of	>0° C to 6.0°C Yes ✓	No 🗌	na 🗆
5. Sample(s) in proper container(s)?	Yes 🗸	No 🗌	
6. Sufficient sample volume for indicated test(s)?	Yes 🗸	No 🗌	
7. Are samples (except VOA and ONG) properly բ	preserved? Yes	No 🗌	
8. Was preservative added to bottles?	Yes	No 🗸	NA 🗆
9. Received at least 1 vial with headspace <1/4" fo	or AQ VOA? Yes	No 🗌	NA 🗹
O. Were any sample containers received broken?	Yes	No 🗹	# of preserved
Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗹	No 🗆	bottles checked for pH: (<2 or >12 unless noted)
2. Are matrices correctly identified on Chain of Cu	stody? Yes	No 🗆	Adjusted?
3. Is it clear what analyses were requested?	Yes 🗹	No 🗆	1 5 15
4. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗹	No 🗆	Checked by: 10 9/27/2
pecial Handling (if applicable)			
15. Was client notified of all discrepancies with this	s order? Yes	No 🗆	NA 🗹
Person Notified:	Date:		
By Whom:	Via: eMail	Phone Fax	☐ In Person
Regarding: Client Instructions:			
16. Additional remarks:			
17. Cooler Information Cooler No Temp °C Condition Seal	Intact Seal No Seal Date	Signed By	
1 5.3 Good			

Cof-Custody Record	DAY 7AT	ANALYSIS LABORATORY	www.hallenvironmental.com	4901 Hawkins NE - Albuquerque, NM 87109	Tel. 505-345-3975 Fax 505-345-4107	Analysis Request				ontines () (3-0-5,3% SD(Preservative HEAL No. (8 TPH:801 Type	×	\$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\$10	200	2) C-00 14	00(%	910	020	027	720	223	777 200	Via: Date Time Remarks: Bill to EOG Artesia	Lun Plehz 1045	Time	Section of the sectio
hain-of-Cu Cog-Artesia / Ran Cog-Artesia / Ran Cog-Artesia / Ran Po Box 201179, Au Po Box 201179, Au Coration: □ Az Coration: □ A	Turn-Around Time:	Project Name:	T	Project #: 5375	- 10ject #. 551		Project Manage		(-	ij		# of Coolers:	Cooler Temp(including CF): S		1×402)ar	,	_									⊣		Mull	λ Sy:	
-of-Cu esia / Ran EoG - 105 & 201179, Au □ Other Excel Az Con □ Other Excel Az Con □ Other Excel Az Con □ Other Excel Az Con □ Other Excel Az Con □ Other Excel Az Con □ Other Excel	stody Record		S 4th St, Artesia NM, 88210	stin TX 78720			lerEnv.com		☐ Level 4 (Full Validatio	npliance				Sample Name	6-13	8-14	8+15	8-16	8-17	8-18	8-19	2-3	4.3	w-3	h-M	N-5		Martinez	d by:	
(C Package tandard	n-of-Cu		EOG - 105	(201179, Au		335-1785	Will@Rang	di		□ Az Cor		-		Matrix	\vdash	-					ā					1		5		
ie i ie iv ieleje alwanti – miali i i i i i i i i i i i a a 🖜	Chair t: EOG-A		g Address	er: PO Box		e #: 521-	or Fax#:	C Package	andard	ditation:	ELAC	D (Type)			1 1	1426	sehi	1430	1432	1434	1431	1438	1440	Chn1	hhhi	ን ነ	Time:		/ Time:	

					200 5	トケイ イター	•	-						R
Client:	EOG-Ar	Client: EOG-Artesia / Ranger Env.	nger Env.	☑ Standard	Rush		 			N YST	NACE ENVIRONMENTAL ANALYSTS LABORATORY	PIEN	ORV	eceiv
				Project Name:	ás									ed b
Mailing	Address:	EOG - 105	Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210	Roy	SWD #3	~		4901	www Hawkins N	nallenviror E - Albuqi	www.naiienvironmentai.com 4901 Hawkins NE - Albuquerque, NM 87109	7109		y OCI
Ranger	: PO Box	201179, A	Ranger: PO Box 201179, Austin TX 78720	Project #: 5375	75		T	Tel.	505-345-3975	75 Fax	505-345-4107	22		D: 2/.
Phone	Phone #: 521-335-1785	35-1785								Analysis	Analysis Request			3/202
email (or Fax#: \	Will@Ran	email or Fax#: Will@RangerEnv.com	Project Mana	Project Manager: W. Kierdorf	lorf	_	(23 9.
QA/QC	QA/QC Package:							NRO						:41::
Sta	Standard		☐ Level 4 (Full Validation)					N / C						33 A
Accred	Accreditation:	□ Az Cc	□ Az Compliance	Sampler:	J. Mart	7244								M
■ NELAC	LAC	□ Other		On Ice:	☐ Yes	No 								
■ EDI	■ EDD (Type)	Excel		# of Coolers:	_		(ЭВО						
				Cooler Temp(including CF):	(including CF): 5.3	-05 5.30c	120	2D(
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	8) X∃TE	roa:Hq7						
9-23-22	2	50:1	9-31	/x 40z)ar	116	100 520		×						
_	1448	_	V-7	_	/									
	1150		RTP-2W/2			١.								
	1200					h00 &20								
	1307		RIP-2N/1			029 WS								
	1333		RTP-2 N/4			030 Upv								
	1416		RTP-6N/2											
\dashv	re hi	\rightarrow	RIP-6N/4	4	7	032 201	_4	7						
			-			1 245	3/22							
							+			+				
Date:	Time:	Relinquished by:	ed by:	Received by:	Via:	Date Time	Re	marks. F	Remarks: Bill to FOG Artesia	Artesia				
qua	2/045	H	41067		, , , , , ,	C								Pa
Date:	Time:	Relin		1) } :: `		Ι,							ge 15
1963	13435 (900)	OM	Mussen	S	Confisc	57./ 22.12.6								7 of
	If necessary	y, samples su	If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical repor	contracted to other a	ccredited laboratori	es. This serves as notice	of this pos	sibility. An	sub-contracted	data will be cle	early notated on the	e analytical re	iodi	172

ATTACHMENT 5 – NMOCD CORRESPONDENCE

From: Miriam Morales < Miriam Morales@eogresources.com>

Sex: Thursday, May 12, 2022 10:00 AM

To: Hamlet, Robert, EMNRD < Robert, Hamlet@state.nm.us >; ahowell@pvtn.net; austin@atkinseng.com

Cc: Artesia Regulatory Artesia S&E Spill Remediation@eogresources.com Artesia S&E Spill Remediation@eogresources.com

Subject: [EXTERNAL] Roy SWD 3 (nAPP2123047534) Sampling Notification

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good morning,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Roy SWD #3

7-19S-25E; Eddy County, NM

2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250

Sampling will begin at 07:00 a.m. on Monday, May 16, 2022 and will continue through Friday, May 20, 2022.

Thank you,

Miriam Morales

From: Tina Huerta

Sent: Thursday, August 18, 2022 10:31 AM

To: Alan & Cheryl <a href="mailto:Alan & Cheryl Austin Weyant <a href="mailto:Alan & Cheryl Austin Weyant Austin Mello:Anonell@pvtn.net Austin Weyant Austin Austin Austin Austin Austin Austin Austin Austin Austin <a href="mailto:

<Jocelyn.Harimon@state.nm.us>; Mike Bratcher <mike.bratcher@state.nm.us>; Robert Hamlet <Robert.Hamlet@state.nm.us>
Co: Andrea Felix <Andrea Felix@eogresources.com>; Katie Jamison <Katie Jamison@eogresources.com>; Michael Yemm

<<u>Michael Yemm@eogresources.com</u>>; BODEE EUDY <<u>BODEE EUDY@eogresources.com</u>>

Subject: Roy SWD 3 (2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250) Sampling Notification

Good Morning,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Roy SWD 3 7-19S-25E Eddy County, NM 2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250

Sampling will begin at 9:15 a.m. on Monday, August 22, 2022 and continue through Friday, August 26, 2022.

Thank you,

Tina Huerta

Regulatory Specialist Direct: 575.748.4168 Cell: 575.703.3121

Email: tina_huerta@eogresources.com

eog resources

Artesia Division

From: Tina Huerta < Tina Huerta@eogresources.com >

Sent: Wednesday, September 21, 2022 10:12 AM

To: Alan & Cheryl <a href="mailto:Alan & cheryl <a href="mailto:Al

<Jennifer.Nobui@state.nm.us>; Jocelyn Harimon <Jocelyn.Harimon@state.nm.us>; Mike Bratcher

<mike.bratcher@state.nm.us>; Robert Hamlet <Robert.Hamlet@state.nm.us>

Cc: Andrea Felix < Andrea Felix@eogresources.com >; Katie Jamison < Katie Jamison@eogresources.

com>; Michael Yemm < Michael Yemm@eogresources.com>; Terrence Gant

<<u>Terry Gant@eogresources.com</u>>

Subject: Roy SWD 3 (2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250) Sampling

Notification

Good Morning,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Roy SWD 3

P-7-19S-25E

Eddy County, NM

2RP-4576, 2RP-5094, nAPP2123047534, nAPP2111046250

Sampling will begin at 10:00 a.m. on Friday, September 23, 2022.

Thank you,

Tina Huerta

Regulatory Specialist

Direct: 575.748.4168

Cell: 575.703.3121

Email: tina huerta@eogresources.com



Artesia Division

ATTACHMENT 6 – HISTORIC FIELD SCREENING RESULTS TABLES

Table 3: Summary of Sample Results

EOG Resources Roy SWD #003 (2RP-4576)

Sample ID	Sample Date	Depth (feet bgs)	BTEX	Benzen e	GRO	DRO	GRO + DRO	MRO	Total TPH	Field Screens	CI- mg/Kg
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mS/cm	
NMO	OCD Closur		50	10			1000		100		600
	4/10/2019	30								0.13	
	4/10/2019	35	<0.225	<0.025	<5.0	<9.9	<14.9	<50	<64.9	1.02	3100
	4/10/2019	40	<0.225	<0.025	<4.8	<9.9	<14.7	<49	<63.7	0.75	530
	4/10/2019	45								0.09	
L1R	4/10/2019	50								0.12	
	4/10/2019	55								0.12	
	4/10/2019	60	<0.210	<0.023	<4.7	<9.1	<13.8	<45	<58.8	0.59	410
	4/10/2019	65								0.11	
	4/10/2019	70								0.17	
	4/11/2019	0	<0.0217	<0.024	<4.8	<9.0	<13.8	<45	<58.8	1.00	1700
	4/11/2019	5								0.58	
	4/11/2019	10								0.8	
	4/11/2019	15								0.94	
	4/11/2019	20	<0.211	<0.023	<4.7	<9.0	<13.7	<45	<58.7	1.39	1700
	4/11/2019	25	<0.217	<0.024	<4.8	<8.8>	<13.6	<44	<57.6	2.03	10000
	4/11/2019	30								0.83	
L2R	4/11/2019	35								0.33	
LZIX	4/11/2019	40								0.07	
	4/11/2019	45								0.06	
	4/11/2019	50								0.07	
	4/11/2019	55								0.06	
	4/11/2019	60								0.06	
	4/11/2019	65								0.06	
	4/11/2019	70								0.06	
	4/11/2019	75								0.06	
	4/11/2019	30	<0.212	<0.024	<4.7	<8.7	<13.4	<44	<57.4	0.25	220
	4/11/2019	35	<0.208	<0.023	<4.6	<8.9	<13.5	<45	<58.5	0.20	140
	4/11/2019	40	<0.212	<0.024	<4.7	<9.8	<14.5	<49	<63.5	0.13	110
	4/11/2019	45								0.12	
L3R	4/11/2019	50								0.07	
LSK	4/11/2019	55								0.07	
	4/11/2019	60								0.08	
	4/11/2019	65								0.06	
	4/11/2019	70								0.05	
	4/11/2019	75								0.07	

[&]quot;--" = Not Analyzed

Received by OCD: 2/3/2023 9:41:33 AM

Sample	Sample	Depth (fact has)	BTEX	Benzene	GRO	DRO	MRO	Total TPH	Petroflag Field Screens	Chloride
ID	Date	(feet bgs)	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	DRO mg/kg	mg/Kg
NMOC	D Closure C	Criteria	50	10	10	000		100		600
1	2 0.000.0	71110110								
	1/23/2018	1	<0.23	<0.023	<4.7	200	340	540		13000
L1	1/23/2018	2								4800
	1/23/2018	3	2.46	<0.025	140	14000	6100	20240		1900
	1/23/2018	4								1000
	1/23/2018	1								21000
	1/23/2018	3								1000
L2	1/23/2018	4								
	1/23/2018	5	8.3	<0.024	250	6000	2700	8950		720
	10/29/2018	10	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0		528
	10/29/2018	12								340
	10/29/2018	14								1100
	10/29/2018	17	<0.300	<0.050	<10.0	11	<10.0	11		1410
	10/29/2018	sidewall	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0		48
South SW	10/29/2018	sidewall	<0.300	<0.050	<10.0	183	47.8	230.8		1300
L1	12/11/2018	30								Cobble
	12/10/2018	5								
•	12/10/2018	7.5								
•	12/10/2018	10							178	
•	12/10/2018	15	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0		1420
L3	12/10/2018	20	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0		1600
	12/10/2018	25	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0		2440
	12/10/2018	27	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0		1800
 	12/10/2018	30	~0.300	~0.030	\10.U		\10.U	\30.0		Cobble
		sidewall	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0		48
	12/11/2018		<0.300	\U.U5U	<10.0			₹50.0		
	10/29/2018	sidewall				230	 <10.0			
	12/10/2018	sidewall	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0		16
East SW	12/10/2018	sidewall	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0		48
East SW -1	12/10/2018	sidewall				73				
[12/10/2018	5			-					
	12/10/2018	10								32
BG1	12/10/2018	15								
	12/10/2018	20								48
	12/10/2018	25								48
	12/11/2018	10								32
BG2	12/11/2018	15								
DUZ	12/11/2018	20								48
l i	12/11/2018	25								48

[&]quot;--" = Not Analyzed
* = per Reclamation Standard (19.15.29.13.D(1) NMAC)
Excavated



AAA D	ANCE	P.O. Box 201179		BORING N	IUMBER SB-1
	ANGER	Austin, Texas 78	3720 3-1785		
CLIENT EOG Resources, Ir	nc.		PROJECT NAME Roy SWD) #3	
PROJECT NUMBER 5375			PROJECT LOCATION Eddy		
DATE STARTED 5/18/22	COMPLE	TED <u>5/18/22</u>	GROUND WATER LEVELS:		
DRILLING CONTRACTOR _	HCI		AT TIME OF DRILLING		
DRILLING METHOD _Air Ro	tary		AFTER DRILLING		
LOGGED BY Robert Martin GPS COORDINATES 32.67			BTOC = Below Top Of GB = Grab Sample GEO = Geotech Samp	f Casing	
SOIL SAMPLE ANALYSIS GROUNDWATER LEVELS (BTOC)	PIUVFIELD CHLORIDE TITRATION (In ppm) GRAPHIC LOG	MA	TERIAL DESCRIPTION		WELL DIAGRAM
0 0 0	h VI((CM) Silty Croyol bro	own to tan, 0.5"-1.5" diameter		Type: 6.25" Diameter Temp.
-	2/750 0.8/750 2.6/600 0.4/600 0.4/600 0.5/900 0.8/600 0.5/900 0.6/750 1/750 1/750 1/750 1.2/750 1.2/900 1.5/900 1.	(SC) Clayey Silt, brov poorly graded, mediu	wn, very fine grained, medium m dense	sorted,	■Bentonite



Ranger Environmental Services, Inc. P.O. Box 201179,

Austin, Texas 78720 Phone: (512)335-1785 Fax: (512)335-0527

BORING NUMBER SB-1 PAGE 2 OF 2

CLIENT	EOG Resources	Inc.	PROJECT NAME	Roy SWD #3

PROJECT NUMBER	_5375	PROJECT LOCATION	Eddy County, New Mexico

(ft)	SOIL SAMPLE ANALYSIS	GROUNDWATER LEVELS (BTOC)	PID/FIELD CHLORIDE TITRATION (In ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
-			0 / 750 0 / 600		(SM) Clayey Sandy Silt, reddish-brown to maroon, very well sorted, poorly graded, loose to medium dense, 0.5" diameter	
-			0 / 600		gravel inclusions, subrounded	
-	GB		0 / 450			
·	GB		0 / 450			
40	→ GB		0 / 300		Dettem of barabala at 40.0 fact	

Bottom of borehole at 40.0 feet.

ived by	OCD: 2	2/3/2023	9:41:33 A	И			i i	Page 168 of 1
^			RAN		P.O. Box 2 Austin, Te Phone: (5' Fax: (512)	xas 78720 12)335-1785 335-0527	BORING NUMBE PAGE 1 OF 2	R SB-2
							Eddy County, New Mexico	
DATE	STARTE	D 5/18/22	2	COM	IPLETED <u>5/18/22</u>	GROUND WATER LEVE	LS:	
						AT TIME OF DRIL	LING	
1					CKED BY Detriels Finance			
			670985°, -1		CKED BY Patrick Finn 7664°	BTOC = Below To GB = Grab Sampl GEO = Geotech S	9	
DEPTH (ft)	SOIL SAMPLE ANALYSIS	GROUNDWATER LEVELS (BTOC)	PID/FIELD CHLORIDE TITRATION (In ppm)	GRAPHIC LOG		MATERIAL DESCRIPTION	WELL DIA	
0		9 1) 149	(GM) Silty Gray	vel, brown, <0.25" diameter grav	Casing Type: 6.25" D	iameter Temp. Well
-	-		2.8 / 3000+	1) 1 1 1	very fine silt	vei, brown, >0.25 diameter grav	ci, subaligulai,	
25 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 1	GB		3.2 / 1500 1.1 / 2850 1.6 / 2250 2.7 / 2250 3.2 / 3000+ 2.8 / 3000+ 2.7 / 2100 5.4 / 2250 1.6 / 1650 1.1 / 1350 1.4 / 1800 1.5 / 1500 0.3 / 2400 0.8 / 2550 1.1 / 2400 0.7 / 3000+ 1.9 / 2700 0.6 / 3000+ 0.7 / 3000+		0.25" diameter (GP) Sandy Gr diameter grave	Clayey Silt, brown, poorly sorted gravel, subrounded to subangul avel, buff to tan, very fine grained, subangular to subrounded	d sand, 0.25" ■Bentor	nite
30 30 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	GB		0 / 2250 1.8 2.9 4.7 5		[(SP) Gravelly S	Sand, buff to tan, very fine graine d, subrounded to subangular	ed, poorly sorted,	

CLIENT _EOG Resources, Inc.



Ranger Environmental Services, Inc. P.O. Box 201179,

Austin, Texas 78720 Phone: (512)335-1785 BORING NUMBER SB-2 PAGE 2 OF 2

Fax: (512)335-0527

PROJECT NAME Roy SWD #3

PROJECT NUMBER 5375 PROJECT LOCATION Eddy County, New Mexico

ı	_	<u> </u>			I NODEOT ECOATION _Eddy County, New	
(#) 35	SOIL SAMPLE ANALYSIS	GROUNDWATER LEVELS (BTOC)	PID/FIELD CHLORIDE TITRATION (In ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
40	GB GB GB		2.5 0.8 0.2 2 0.4 0 / 1950 0 / 2550 0 / 1650 0 / 600 0 / 750 0 / 750 0 / 600 0 / 300 0 / 300 0 / 300	36.0	(SM) Clayey Sandy Silt, reddish-brown to maroon, very well sorted, poorly graded, loose to medium dense, 0.25" diameter gravel, subrounded	
ENVIRONMENTAL BH - GINT STD US.GDT - 8/19/22 08:38 - R:DRAFTING FILES\GINT LOGS\5375 - ROY SWD #3 - BORING LOGS\GPJ						

	Ranger Environmental Services, Inc. P.O. Box 201179, Austin, Texas 78720 Phone: (512)335-1785 Fax: (512)335-0527	PAGE 1 OF 1
CLIENT EOG Resources, Inc.		
PROJECT NUMBER 5375	PROJECT LOCATION Eddy	County, New Mexico
DATE STARTED _5/18/22	COMPLETED 5/18/22 GROUND WATER LEVELS:	
DRILLING CONTRACTOR HCI	AT TIME OF BRIDEING	
DRILLING METHOD Air Rotary	AFTER DRILLING	
LOGGED BY Robert Martin GPS COORDINATES 32.670989°, -1		-
SOIL SAMPLE ANALYSIS GROUNDWATER LEVELS (BTOC) PID/FIELD CHLORIDE TITRATION (In ppm)	MATERIAL DESCRIPTION	WELL DIAGRAM Casing Type: 6.25" Diameter Temp. We
GB	(GP) Sandy Gravel, buff to tan, 0.25" diameter grave subrounded to subangular	ded, 0.25" ■Bentonite

	I ugc 1/1 Uj 1/
Incident ID	nAB1801936658
District RP	2RP-4576
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.				
 Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) 				
Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.				
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.				
Extents of contamination must be fully delineated.				
Contamination does not cause an imminent risk to human health, the environment, or groundwater.				
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.				
Printed Name: Chase Settle Title: Rep Safety & Environmental Sr				
Signature: Chase Settle Date: 02/03/2023				
email: Chase_Settle@eogresources.com Telephone: 575-748-1471				
OCD Only				
Received by: Jocelyn Harimon Date: Date:				
☐ Approved ☐ Approved ☐ Deferral Approved ☐ Deferral Approved				
Signature: Robert Hamlet Date: 6/1/2023				

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

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 182384

CONDITIONS

Operator:	OGRID:
EOG RESOURCES INC	7377
P.O. Box 2267	Action Number:
Midland, TX 79702	182384
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. The variance for the geosynthetic clay liner at 6 feet below ground surface is approved under the circumstance that as much contaminated soil is safely removed as possible. The excavations should be backfilled to 6 feet below surface with clean material, liner installed, and then backfilled to surface with clean material. Since the release is within 300 feet of a significant watercourse, the release will need to meet the strictest closure criteria standards. All off pad areas must contain a minimum of 4 feet non-waste containing uncontaminated, earthen material with chloride concentrations less than 600 mg/kg and less than 100 mg/kg for TPH. Samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. The variance is approved for 400 ft2 floor samples. Collect confirmation sidewall samples, representing no more than 200 ft2. A closure report will need to be completed and uploaded within 90 days.	6/2/2023