

SITE CHARACTERIZATION AND PROPOSED REMEDIATION PLAN

PATRICK API #5
UNIT H, SECTION 9, TOWNSHIP 19S, RANGE 25E
EDDY COUNTY, NEW MEXICO
32.677626, -104.483689
RANGER REFERENCE NO. 5375

PREPARED FOR:

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

PREPARED BY:

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

FEBRUARY 17, 2022

Patrick K. Finn, P.G. (TX) Project Geoscientist William Kierdorf, REM Project Manager

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FORM C-141

FIGURES

- Topographic Map
- Area Map
- Water Well Location Map
- National Wetland Inventory Map
- FEMA Floodplain Map
- Karst Topography Map
- Sample Location Map (09/03/2021)
- Proposed Excavation Area Map

TABLES

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

ATTACHMENTS

- Attachment 1 Depth-to-Groundwater Data
- Attachment 2 Photographic Documentation
- Attachment 3 Laboratory Analytical Reports
- Attachment 4 Howell Ranch Seed Mixture



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1.0 SITE LOCATION AND BACKGROUND

The Patrick API #5 (Site) is a well pad located on private land, approximately 12.4 miles south-southwest of Artesia, within Eddy County, New Mexico. The facility is situated in Unit H, Section 9, T19S-R25E at GPS coordinates 32.677626, -104.483689.

An area of concern was reported to EOG Resources Inc. (EOG) by representatives of the surface property owner, Howell Ranch Revocable Trust (Howell Ranch). The reported area of concern was noted to be in the vicinity of the former well head location within the historic well pad footprint. EOG subsequently engaged Ranger Environmental Services, Inc. (Ranger) to assist in the assessment and remediation efforts at the Site.

On September 3, 2021, Ranger personnel assessed the reported area of concern. The assessment activities included the collection of soil samples for laboratory analysis. Due to the observed size of the impacts at the Site, the area of concern was reported to the New Mexico Oil Conservation Division (NMOCD) on September 28, 2021 (NMOCD Incident # nAPP2127157023).

The following proposed remediation work plan has been prepared to address the soil impacts at the Site.

A copy of the previously submitted Form C-141 Release Notification, 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 Site and surrounding areas, and a Site Map illustrating the Site features and sampling locations, are provided in the Figures section.

2.0 SITE CHARACTERIZATION

2.1 Depth-to-Groundwater

To determine the depth-to-groundwater in the vicinity of the Site, data available from the U.S. Geological Survey (USGS) and the New Mexico Office of the State Engineer (NMOSE) was reviewed. Based upon the reviewed information, one NMOSE well (RA 05333/RA 09489) and one USGS well (USGS 324100104285501) were identified to be located within a half-mile of the Site. As discussed below, these may be the same well.

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

P.O. BOX 201179

Based on the reviewed information, it appears that the depth to groundwater in the area is greater than 100 feet below ground surface (bgs). It should be noted, however, that the available depth-to-groundwater information is greater than 20 years old and is therefore deemed not acceptable by the NMOCD. Copies of the reviewed depth-to-groundwater information are attached.

2.2 Wellhead Protection Area

Based upon the available USGS and NMOSE information, two water wells were plotted within a half-mile of the Site. The well RA 05333 (also listed as RA 09489) location information included on the NMOSE web portal indicates that the well is located approximately 1,200 feet north of the Site. However, based on a review of aerial imagery for this area, it does not appear that a well is located at this approximate location. Rather, it appears that a well is potentially located at GPS coordinates 32.683378, -104.482831, approximately 2,100 feet north-northwest of the Site, which places it near the reported location of the USGS well (USGS 324100104285501). It is possible that well RA 05333/RA 09489 and USGS 324100104285501 are the same well.

Upon review of the National Wetland Inventory, the Site is not within 300 feet of a mapped feature.

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

Based upon available online resources, there are no significant watercourses present within a half-mile of the site.

2.4 Sample Results and Closure Criteria

Based upon the Site characterization details, including the absence of any recent (<20 year old) depth-to groundwater data within a 0.5-mile radius, 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. Additionally, the remediation activities will be conducted to bring the area into compliance with the Restoration, Reclamation and Re-Vegetation criteria detailed in 19.15.29.13 NMAC. The proposed closure criteria are detailed below:

REGULATORY STANDARD	CHLORIDE	TPH (GRO+DRO +MRO)	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 SITE ASSESSMENT

On September 3, 2021, Ranger personnel and representatives for EOG mobilized to the Site to assess the reported area of concern. A total of twelve test excavations (TH-1 through TH-12) were installed, field screened, and sampled.

Ranger personnel conducted field screening of the soils in each test excavation using an organic vapor monitor (OVM) and a field chloride titration kit to assist in evaluating the soil conditions and/or levels of impacts in the area. Field screening of the encountered soils was conducted at the surface and at one-foot increments to the total depth of each test excavation. The test excavations were completed to depths where the field readings indicated that soil conditions were within the most stringent Table 1 Criteria.

The field chloride titrations indicated that elevated soil chloride concentrations were present in a number of the test excavations, including TH-1, TH-2, TH-6 and TH-8. No elevated OVM readings were encountered during the assessment process.

During the test excavation installation process, soil samples were collected for laboratory analysis at various depth intervals to assist in delineating the elevated chloride concentrations. At each test excavation where the field chloride titrations indicated elevated chloride concentrations, Ranger ensured that a sample was collected from the interval exhibiting the highest field chloride result. In total, 28 soil samples were collected for laboratory analysis.

Upon collection, the soil samples were submitted to Hall Environmental in Albuquerque, New Mexico for analysis of total petroleum hydrocarbons (TPH) using EPA Method 8015; benzene, toluene, ethylbenzene and xylenes (BTEX) using EPA Method 8021; and, total chloride using EPA Method 300. The samples were collected and managed using standard QA/QC and chain-of-custody procedures.

Upon review of the soil sample analytical results, eight samples from five test excavations (TH-1, TH-2, TH-6, TH-7 and TH-8) were noted to have chloride concentrations in exceedance of the Table 1 Criteria. Additionally, three samples from three different test excavations (TH-1, TH-4 and TH-7) were noted to have TPH concentrations in exceedance of the Table 1 Criteria. The majority of the elevated chloride concentrations were limited to the surface to four-foot depth interval. The TPH impacts in test excavations TH-1, TH-4 and TH-7 were limited to the surface samples only suggesting that these impacts were limited and relatively minor in nature.

The soil sample analytical results are summarized in the attached soil analytical table. A copy of the laboratory analytical report is also attached.

4.0 PROPOSED REMEDIATION PLAN

4.1 Soil Excavation and Confirmation Sampling

To address the elevated soil chloride and TPH concentrations at the Site, soil excavation and cleanup confirmation soil sampling activities are proposed to be conducted. The soil excavation activities are proposed to be conducted in the areas where the elevated TPH and/or chloride concentrations were documented to be present. This will include the area surrounding test excavations TH-1, TH-4 and TH-6, and the area surrounding test excavations TH-2, TH-7 and TH-8. The area surrounding test excavated to maximum



dimensions of approximately 31 feet by 67 feet by 1 to 4 feet deep. The area surrounding test excavations TH-2, TH-7 and TH-8 will be excavated to maximum dimensions of approximately 54 feet by 41 feet by 3 to 13 feet deep. A Proposed Soil Excavation Map is attached which illustrates the proposed excavation boundaries and anticipated excavation depths.

During the performance of the proposed excavation activities, Ranger personnel will utilize an OVM and field chloride titration kit to guide the excavation process and determine when all affected soils appear to have been removed. Based on the field readings, the excavation boundaries will be adjusted as necessary. At such point in time that the field screening activities indicate that all affected soils appear to have been removed, cleanup confirmation soil samples will be collected for laboratory analysis. The samples will be collected in accordance with NMAC 19.15.29.12(D), as five-part composite samples with each sample representing no more than 200 square feet. The sample parts will be collected from various locations and depths along the excavation side walls and base. Upon collection, the composite sample parts will be placed into a new Ziplock® bag, thoroughly mixed, and a sample for laboratory analysis will be collected from the mixture.

Based on the cleanup confirmation soil sample results, if any area is found to remain in exceedance of the applicable regulatory cleanup criteria, the area will be further over excavated and additional cleanup confirmation soil samples will be collected in accordance with NMAC 19.15.29.12(D), as five-part composite samples with each sample representing no more than 200 square feet.

The cleanup confirmation soil samples will be collected using standard QA/QC procedures, placed into laboratory-supplied containers, and will be immediately placed into a sample shuttle containing ice. The samples will be transported to an approved laboratory for analysis of TPH using EPA Method 8015; BTEX using EPA Method 8021; and, total chloride using EPA Method 300.

Based on the proposed excavation boundaries and depths, it is anticipated that approximately 740 cubic yards of material will be generated during the site remediation process. The excavated material will be transported off-site for disposal at an approved disposal facility.

4.2 Site Backfill and Reclamation

Upon attainment of the 19.15.29.13 NMAC Reclamation Criteria and Restoration Criteria, the excavated area will be backfilled with clean fill material of similar type to that which was removed. The area will then be re-vegetated with the James H & Betty R Howell Revocable Trust Seed Mix.

4.3 Remediation Schedule

Upon approval of the proposed remediation plan, all field activities will be scheduled as soon as reasonably possible. It is anticipated that the soil removal operations and cleanup confirmation soil sampling activities will be completed within 120 days of initiation.

Appropriate notification to the NMOCD will be provided prior to the performance of the cleanup confirmation soil sampling activities.



5.0 SITE CLOSURE

Upon completion of the remedial 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).



ved by OCD: 3/11/2022 9:15:49 AM	Page 8 of
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District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	nAPP2127157023
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

						J
		Resources, Ind	Э.		OGRID 73	~
Contact Name Chase Settle				Contact Te	elephone 575-748-1471	
Contact ema	^{il} Chase_	Settle@eogre	sources.com		Incident #	4 (assigned by OCD) nAPP2127157023
Contact mail	ing address	104 S. 4th Str	eet, Artesia, I	NM 8		
			Location			ource
Latitude 32.	67756		(NAD 83 in de	ocimal de	Longitude _	-104.48394
-			(NAD 65 in de	естин ин		
Site Name Pa	atrick API	#5				Well Pad
Date Release	Discovered	9/21/2021			API# (if app	plicable) 30-015-29117
Unit Letter	Section	Township	Range		Coun	ntv
Н	9	19S	25E	Edd		
	ı			1		
Surface Owner	r: State	☐ Federal ☐ Tı	ribal 🔽 Private (Name:	Howell R	Revocable Trust
			Nature an	d Vo	lume of F	Release
	36	1() D 1				
Crude Oil		Volume Release		n calcula	tions or specific	Volume Recovered (bbls)
✓ Produced	Water	Volume Release	ed (bbls) Unknov	wn		Volume Recovered (bbls) 0
		Is the concentrate produced water	tion of dissolved o	chlorid	e in the	✓ Yes □ No
Condensa	ite	Volume Release				Volume Recovered (bbls)
Natural G	ias	Volume Release	ed (Mcf)			Volume Recovered (Mcf)
Other (describe) Volume/Weight Released (provide unit		le units)	Volume/Weight Recovered (provide units)		
Cause of Rel	invest	 ical impacts repigate the area of than likely brea	determined on	9/21/	21 based o	The environmental consultant contracted to on the impacted area footprint that the release reshold.

Received by OCD: 3/11/2022 9:15:49 AM State of New Mexico
Page 2 Oil Conservation Division

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Incident ID	nAPP2127157023
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	responsible party consider this a major release?
19.15.29.7(A) NMAC?	
☐ Yes ☑ No	
If YES, was immediate notice given to the OCD? By whom? T	To whom? When and by what means (phone, email, etc)?
, , , , , , , , , , , , , , , , , , ,	, u
Initia	l Response
The responsible party must undertake the following actions imme	ediately unless they could create a safety hazard that would result in injury
✓ The source of the release has been stopped.	
☐ The impacted area has been secured to protect human health	and the environment.
Released materials have been contained via the use of berms	s or dikes, absorbent pads, or other containment devices.
All free liquids and recoverable materials have been remove	ed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, exp	lain why:
	nce remediation immediately after discovery of a release. If remediation edial efforts have been successfully completed or if the release occurred aC), please attach all information needed for closure evaluation.
regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by failed to adequately investigate and remediate contamination that pose	to the best of my knowledge and understand that pursuant to OCD rules and e notifications and perform corrective actions for releases which may endanger the OCD does not relieve the operator of liability should their operations have a threat to groundwater, surface water, human health or the environment. In tor of responsibility for compliance with any other federal, state, or local laws
Printed Name: Chase Settle	Title: Rep Safety & Environmental Sr
Signature: Chase Settle	Date: 9/28/21
email: Chase_Settle@eogresources.com	Telephone: 575-748-1471
OCD Only	
Received by: Ramona Marcus	Date: 10/01/2021
	

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State of New Mexico
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Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?					
Are the lateral extents of the release within 300 feet of an continuously flowing watercourse or any other significant watercourse? Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)? Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? 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? Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? Are the lateral extents of the release within 300 feet of a wetland? Are the lateral extents of the release overlying a subsurface mine? Are the lateral extents of the release overlying an unstable area such as karst geology? Are the lateral extents of the release overlying an unstable area such as karst geology? Are the lateral extents of the release within a 100-year floodplain? Did the release impact areas not on an exploration, development, production, or storage site? 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 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	What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)			
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Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics. Characterization Report Checklist: Each of the following items must be included in the report. Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps	Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☐ No			
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	Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☐ No			
 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 	Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vercontamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	rtical extents of soil			
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	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				

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: 3/11/2022 9:15:49 AM State of New Mexico
Page 4 Oil Conservation Division

P	ağ	e d	2	0	6	83	3

Incident ID		
District RP		
Facility ID		
Application ID	•	

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

Received by OCD: 3/11/2022 9:15:49 AM State of New Mexico
Page 5 Oil Conservation Division

	Page 13 of 83
Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must b	e included in the plan.
☐ Detailed description of proposed remediation technique ☐ Scaled sitemap with GPS coordinates showing delineation point ☐ Estimated volume of material to be remediated ☐ Closure criteria is to Table 1 specifications subject to 19.15.29. ☐ Proposed schedule for remediation (note if remediation plan times)	12(C)(4) NMAC
Deferral Requests Only: Each of the following items must be con	nfirmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around predeconstruction.	roduction equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human health	n, the environment, or groundwater.
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
Printed Name:	Title:
Signature:	Date:
email:	Telephone:
OCD Only	
Received by:	Date:
☐ Approved ☐ Approved with Attached Conditions of	Approval
Signature:	Date:

Received by OCD: 3/11/2022 9:15:49 AM
State of New Mexico
Page 6 Oil Conservation Division

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Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC						
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)						
☐ Laboratory analyses of final sampling (Note: appropriate ODG	C District office must be notified 2 days prior to final sampling)					
☐ Description of remediation activities						
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	nations. The responsible party acknowledges they must substantially anditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete.					
Signature:	Date:					
email:	Telephone:					
OCD Only						
Received by:	Date:					
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.					
Closure Approved by:	Date:					

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 52546

CONDITIONS

Operator:	OGRID:
EOG RESOURCES INC	7377
P.O. Box 2267 Midland, TX 79702	Action Number: 52546
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date				
rmarcus	None	10/1/2021				

hate of New Mexico Incident ID nAPP2127157023

Incident ID	nAPP2127157023
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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.

□ Laboratory data including chain of custody

Received by OCD: 3/11/2022 9:15:49 AM
State of New Mexico
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Oil Conservation Division

Incident ID nAPP2127157023
District RP
Facility ID

Application ID

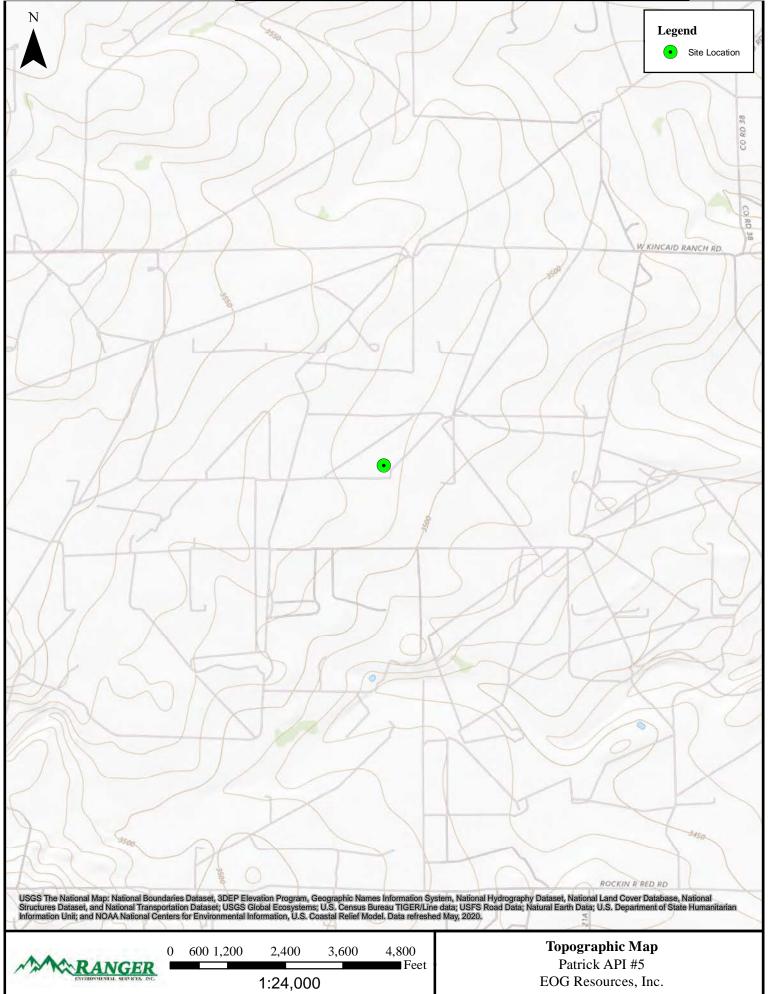
	Page 18 of	83
Incident ID	nAPP2127157023	
District RP		
Facility ID		
Application ID		

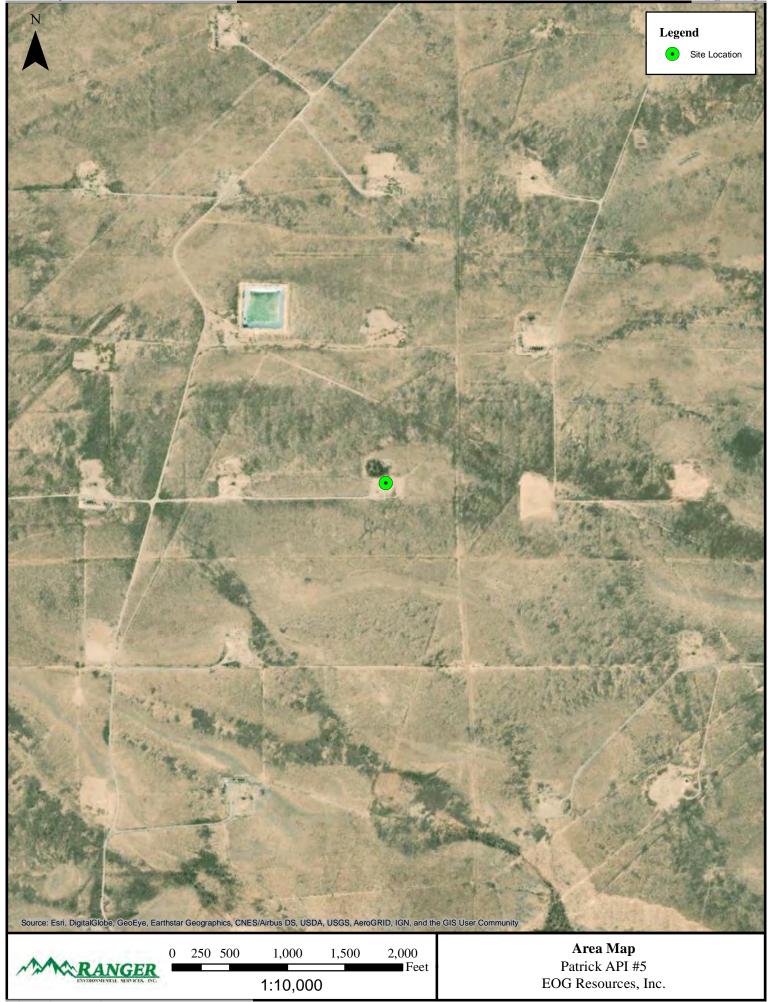
Remediation Plan

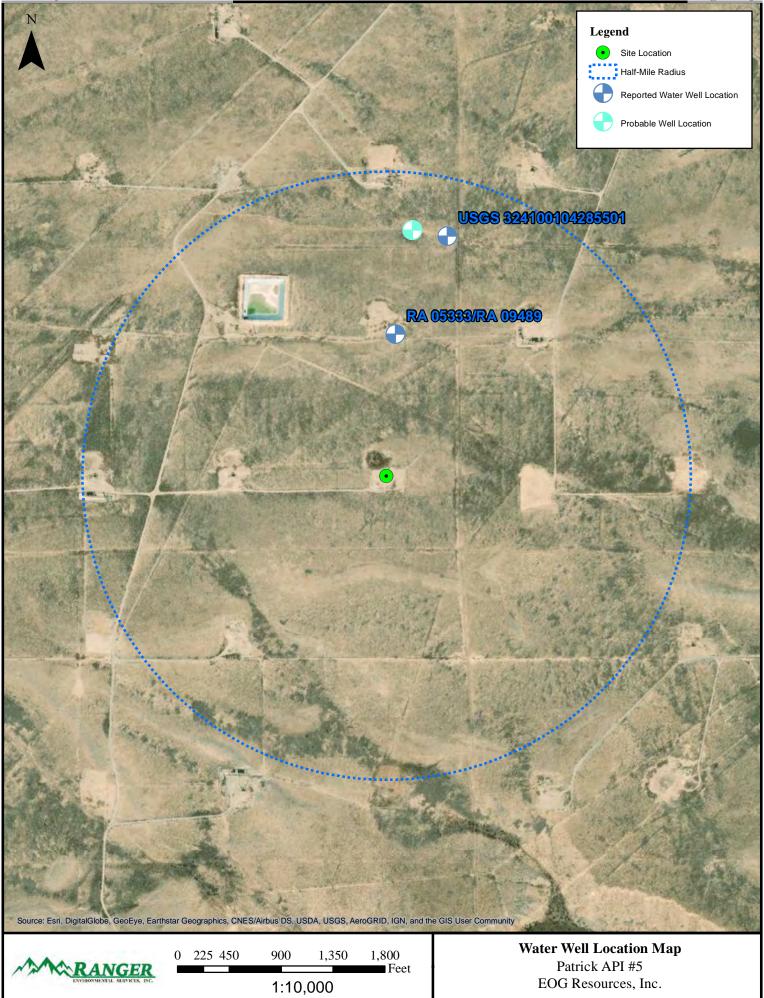
Remediation Plan Checklist: Each of the following items must b	e included in the plan.					
 Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications 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) 						
<u>Deferral Requests Only</u> : Each of the following items must be con	firmed as part of any request for deferral of remediation.					
Contamination must be in areas immediately under or around predeconstruction.	roduction equipment where remediation could cause a major facility					
Extents of contamination must be fully delineated.						
Contamination does not cause an imminent risk to human health	n, 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: 3/10/2022					
email: Chase_Settle@eogresources.com	Telephone: <u>575-748-1471</u>					
OCD Only						
Received by:	Date:					
Approved With Attached Conditions of	Approval					
Signature: Jennifer Nobui	Date: 03/22/2022					

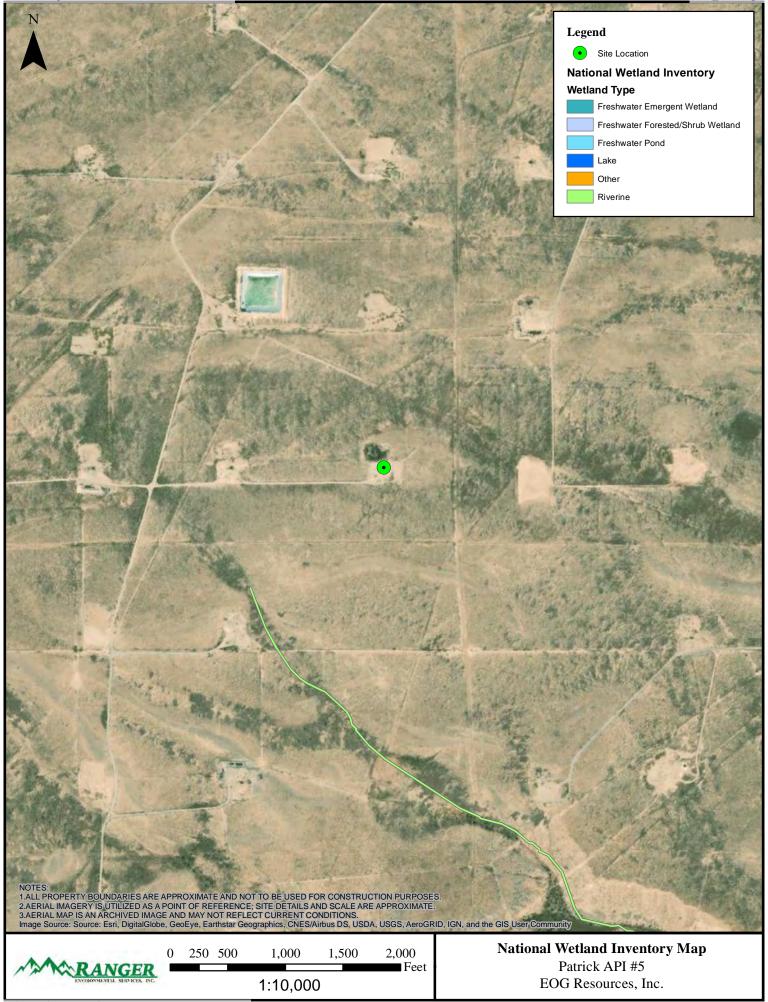
FIGURES

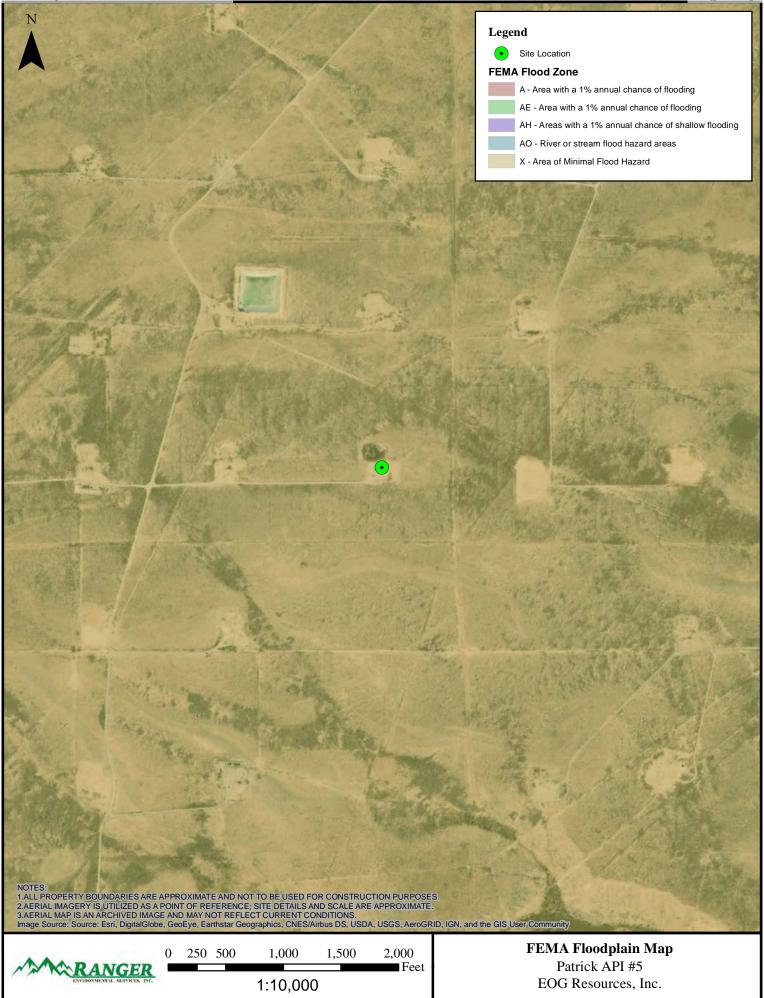
Topographic Map
Area Map
Water Well Location Map
National Wetland Inventory Map
FEMA Floodplain Map
Karst Topography Map
Sample Location Map (09/03/2021)
Proposed Excavation Area Map

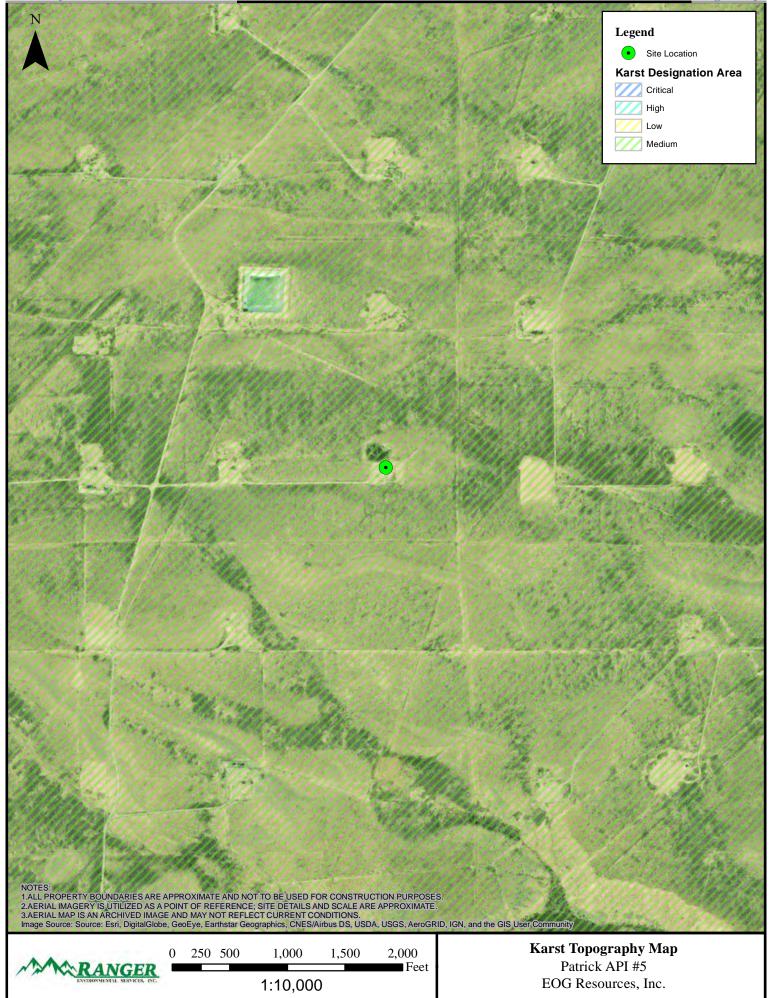




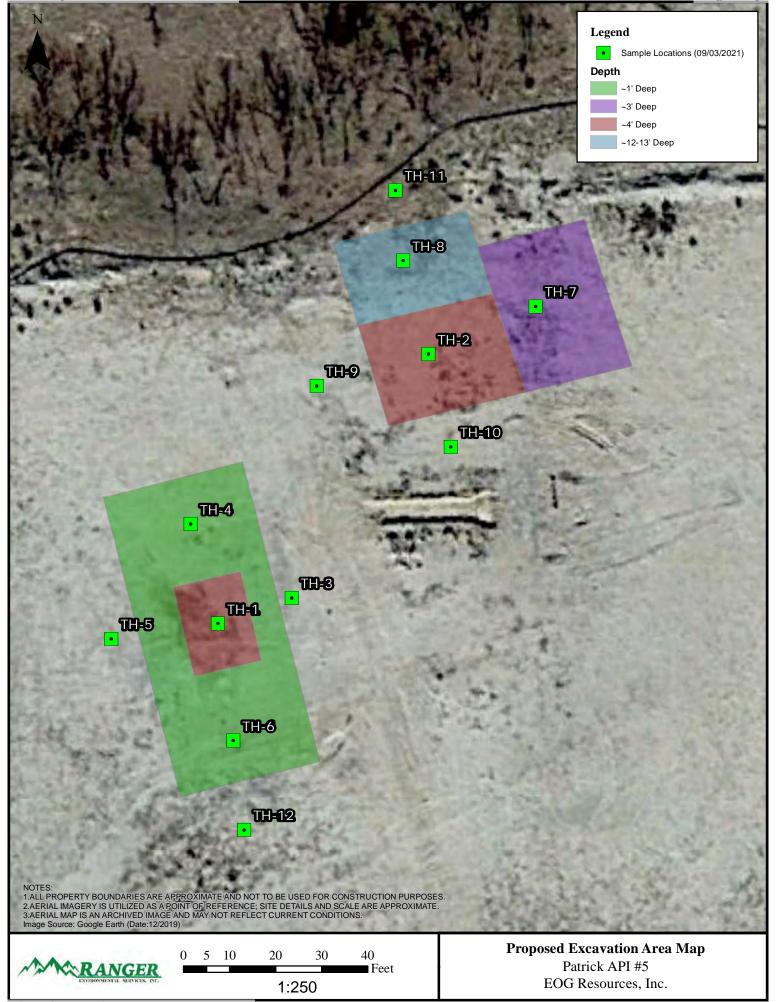












TABLES

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

SOIL BTEX (EPA 8021), TPH (SW 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA EOG RESOURCES, INC. PATRICK API #5

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
Initiail Site Assessment - Sep	tember 3, 202	1											
TH-1/Surface	9/3/2021	0'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	370	4,400	370	4,770	2,700
TH-1/2'	9/3/2021	2'	< 0.024	<0.049	< 0.049	<0.098	<0.10	<4.9	<9.7	<49	<9.7	<49	4,700
TH-1/4'	9/3/2021	4'	< 0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<9.8	<49	<9.8	<49	130
TH-2/Surface	9/3/2021	0'	< 0.024	<0.048	<0.048	< 0.096	<0.10	<4.8	<9.7	<49	<9.7	<49	1,000
TH-2/1'	9/3/2021	1'	< 0.025	< 0.049	< 0.049	<0.098	<0.10	<4.9	<9.9	<50	<9.9	<50	1,100
TH-2/4'	9/3/2021	4'	< 0.023	<0.046	<0.046	< 0.093	<0.09	<4.6	<10	<50	<10	<50	180
TH-3/Surface	9/3/2021	0'	< 0.025	<0.049	<0.049	< 0.099	<0.10	<4.9	<9.5	<48	<9.5	<48	200
TH-3/4'	9/3/2021	4'	< 0.025	< 0.050	< 0.050	< 0.099	<0.10	<5.0	<9.7	<48	<9.7	<48	100
TH-4/Surface	9/3/2021	0'	< 0.025	< 0.050	< 0.050	< 0.099	<0.10	<5.0	200	380	200	580	<60
TH-4/2'	9/3/2021	2'	< 0.025	< 0.049	< 0.049	<0.098	<0.10	<4.9	<9.8	<49	<9.8	<49	<60
TH-5/Surface	9/3/2021	0'	< 0.025	< 0.049	< 0.049	<0.098	<0.10	<4.9	<9.9	<50	<9.9	<50	<60
TH-5/2'	9/3/2021	2'	< 0.023	< 0.047	< 0.047	< 0.093	< 0.09	<4.7	<9.7	<49	<9.7	<49	72
TH-6/Surface	9/3/2021	0'	< 0.024	<0.048	<0.048	< 0.096	<0.10	<4.8	<9.8	<49	<9.8	<49	4,900
TH-6/1'	9/3/2021	1'	< 0.023	<0.047	< 0.047	< 0.093	<0.09	<4.7	<9.8	<49	<9.8	<49	120
	•	•			•					•	•	•	•
TH-7/Surface	9/3/2021	0'	< 0.024	< 0.049	< 0.049	< 0.097	<0.10	<4.9	62	130	62	190	<59
TH-7/2'	9/3/2021	2'	< 0.024	< 0.049	< 0.049	<0.098	<0.10	<4.9	<9.4	<47	<9.4	<47	610
TH-8/1'	9/3/2021	1'	< 0.024	<0.048	<0.048	< 0.096	<0.10	<4.8	<9.7	<49	<9.7	<49	8,000
TH-8/4'	9/3/2021	4'	< 0.025	< 0.049	< 0.049	< 0.099	<0.10	<4.9	<9.8	<49	<9.8	<49	3,400
TH-8/14'	9/3/2021	14'	< 0.023	<0.046	<0.046	< 0.092	<0.09	<4.6	<9.6	<48	<9.6	<48	230
TH-9/Surface	9/3/2021	0'	< 0.024	< 0.049	< 0.049	< 0.097	<0.10	<4.9	<9.6	<48	<9.6	<48	<60
TH-9/4'	9/3/2021	4'	< 0.024	<0.048	<0.048	< 0.096	<0.10	<4.8	<10	<50	<10	<50	220
TH-10/Surface	9/3/2021	0'	< 0.024	<0.049	<0.049	< 0.097	<0.10	<4.9	<9.9	<49	<9.9	<49	<60
TH-10/2'	9/3/2021	2'	< 0.025	< 0.049	< 0.049	< 0.099	<0.10	<4.9	<9.3	<47	<9.3	<47	200
TH-11/Surface	9/3/2021	0'	< 0.025	<0.049	<0.049	< 0.099	<0.10	<4.9	9.5	<46	9.5	9.5	<60
TH-11/5'	9/3/2021	5'	<0.025	<0.049	<0.049	< 0.099	<0.10	<4.9	<8.9	<44	<8.9	<44	<60
TH-11/10'	9/3/2021	10'	< 0.025	< 0.050	< 0.050	< 0.099	<0.10	<5.0	<9.9	<49	<9.9	<49	<60
TH-12/Surface	9/3/2021	0'	< 0.025	< 0.050	< 0.050	<0.10	<0.10	<5.0	<9.8	<49	<9.8	<49	<60
TH-12/1'	9/3/2021	1'	< 0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<9.7	<49	<9.7	<49	<61
19.15.29.12 NMAC Table 1 (Impacted by a Rele			10	-		_	50	-			-	100	600
19.15.29.13 NMAC Re (0'-4' Soils		teria	10 ³				50 ³					100 ³	600

Notes:

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.



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number** Q64 Q16 Q4 Sec Tws Rng

X

RA 05333

19S 25E

548430 3616046*

Driller License: 353

OSBOURN DRILLING & PUMP CO.

Driller Name: EXISTING WELL

Drill Start Date: 04/18/1967 **Drill Finish Date:**

Driller Company:

05/05/1967

Plug Date:

Log File Date:

05/12/1967

PCW Rcv Date:

Source:

Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

260 feet

Casing Size:

Depth Well:

315 feet

Top Bottom Description

Depth Water:

Water Bearing Stratifications:

275

290 Sandstone/Gravel/Conglomerate

290

Sandstone/Gravel/Conglomerate

Casing Perforations:

8784

Top Bottom

280 312

Meter Make:

MASTER

Meter Serial Number: FL001

Meter Multiplier:

10.0000

Number of Dials:

Meter Number:

Barrels 42 gal.

Meter Type:

Diversion

Unit of Measure: Usage Multiplier: **Return Flow Percent: Reading Frequency:**

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr Comment	Mtr Amount Online
02/25/2005	2005	19	A	RPT	0
03/10/2005	2005	4671	A	RPT	1.428
10/13/2005	2005	4822	A	ch	0.046
12/19/2005	2005	43967	A	jw	0
01/13/2006	2006	44260	A	jw	0.378
04/10/2006	2006	44260	A	ch	0

2006

2005

**YTD Meter Amounts: Year

*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.

Amount

1.474

0.378

9/1/21 1:34 PM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number

Q64 Q16 Q4 Sec Tws Rng

X

RA 09489

2 2 09 19S 25E

548430 3616046*

G)

Driller License:

Driller Name:

Drill Finish Date:

Plug Date:

Drill Start Date: Log File Date:

PCW Rcv Date:

Driller Company:

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size: 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.

12/21/21 7:51 AM

POINT OF DIVERSION SUMMARY

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



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources	Data Category:		Geographic Area:		
oodo water resources	Groundwater	~	United States	~	GO

Click to hideNews Bulletins

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

Groundwater levels for the Nation

* IMPORTANT: Next Generation Station Page

Search Results -- 1 sites found

site_no list =

• 324100104285501

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 324100104285501 19S.25E.04.444341

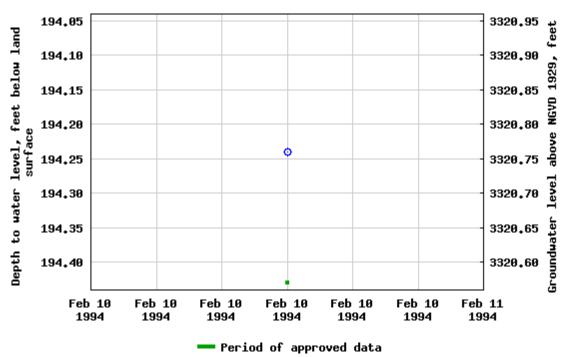
Available data for this site	Groundwater:	Field measurements	∨ GO
Eddy County, New Mexico			
Hydrologic Unit Code 1306	50011		
Latitude 32°41'00", Longi	tude 104°2	8'55" NAD27	

Land-surface elevation 3,515 feet above NGVD29 This well is completed in the Roswell Basin aquifer system (S400RSWLBS) national aquifer.

This well is completed in the San Andres Limestone (313SADR) local aquifer.

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





Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u>

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
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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: 2021-09-01 15:29:13 EDT

0.72 0.51 nadww01



ATTACHMENT 2 - PHOTOGRAPHIC DOCUMENTATION

Released to Imaging: 3/22/2022 2:42:03 PM



PHOTOGRAPH NO. 1 – A general view of the Site assessment activities at the "TH-11" location. The view is towards the north.

(Approximate GPS: 32. 32.677778, -104.483611)



PHOTOGRAPH NO. 2 – A view of the Site at the "TH-7" location. The view is towards the northeast.

(Approximate GPS: 32.677500, -104.483611)

ATTACHMENT 3 - LABORATORY A	ANALYTICAL
REPORTS	



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

September 20, 2021

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

RE: Patrick API 5 OrderNo.: 2109229

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 28 sample(s) on 9/4/2021 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

Date Reported: 9/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-1/Surface

 Project:
 Patrick API 5
 Collection Date: 9/3/2021 7:54:00 AM

 Lab ID:
 2109229-001
 Matrix: SOIL
 Received Date: 9/4/2021 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	2700	150		mg/Kg	50	9/14/2021 8:44:12 AM	62531
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	: SB
Diesel Range Organics (DRO)	370	96		mg/Kg	10	9/10/2021 2:46:39 PM	62465
Motor Oil Range Organics (MRO)	4400	480		mg/Kg	10	9/10/2021 2:46:39 PM	62465
Surr: DNOP	0	70-130	S	%Rec	10	9/10/2021 2:46:39 PM	62465
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/11/2021 1:39:00 AM	62460
Surr: BFB	90.6	70-130		%Rec	1	9/11/2021 1:39:00 AM	62460
EPA METHOD 8021B: VOLATILES						Analyst	: mb
Benzene	ND	0.025		mg/Kg	1	9/11/2021 1:39:00 AM	62460
Toluene	ND	0.049		mg/Kg	1	9/11/2021 1:39:00 AM	62460
Ethylbenzene	ND	0.049		mg/Kg	1	9/11/2021 1:39:00 AM	62460
Xylenes, Total	ND	0.098		mg/Kg	1	9/11/2021 1:39:00 AM	62460
Surr: 4-Bromofluorobenzene	81.0	70-130		%Rec	1	9/11/2021 1:39:00 AM	62460

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 9/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-1/2'

 Project:
 Patrick API 5
 Collection Date: 9/3/2021 7:59:00 AM

 Lab ID:
 2109229-002
 Matrix: SOIL
 Received Date: 9/4/2021 8:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	4700	150	mg/Kg	50	9/14/2021 8:56:36 AM	62531
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	9/9/2021 6:36:05 PM	62465
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/9/2021 6:36:05 PM	62465
Surr: DNOP	119	70-130	%Rec	1	9/9/2021 6:36:05 PM	62465
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: mb
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/11/2021 2:18:00 AM	62460
Surr: BFB	92.6	70-130	%Rec	1	9/11/2021 2:18:00 AM	62460
EPA METHOD 8021B: VOLATILES					Analyst	: mb
Benzene	ND	0.024	mg/Kg	1	9/11/2021 2:18:00 AM	62460
Toluene	ND	0.049	mg/Kg	1	9/11/2021 2:18:00 AM	62460
Ethylbenzene	ND	0.049	mg/Kg	1	9/11/2021 2:18:00 AM	62460
Xylenes, Total	ND	0.098	mg/Kg	1	9/11/2021 2:18:00 AM	62460
Surr: 4-Bromofluorobenzene	82.4	70-130	%Rec	1	9/11/2021 2:18:00 AM	62460

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 9/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-1/4'

 Project:
 Patrick API 5
 Collection Date: 9/3/2021 8:02:00 AM

 Lab ID:
 2109229-003
 Matrix: SOIL
 Received Date: 9/4/2021 8:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	130	60	mg/Kg	20	9/13/2021 6:49:08 PM	62531
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	9/9/2021 6:45:54 PM	62465
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/9/2021 6:45:54 PM	62465
Surr: DNOP	96.9	70-130	%Rec	1	9/9/2021 6:45:54 PM	62465
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: mb
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/11/2021 2:38:00 AM	62460
Surr: BFB	95.8	70-130	%Rec	1	9/11/2021 2:38:00 AM	62460
EPA METHOD 8021B: VOLATILES					Analyst	: mb
Benzene	ND	0.024	mg/Kg	1	9/11/2021 2:38:00 AM	62460
Toluene	ND	0.049	mg/Kg	1	9/11/2021 2:38:00 AM	62460
Ethylbenzene	ND	0.049	mg/Kg	1	9/11/2021 2:38:00 AM	62460
Xylenes, Total	ND	0.098	mg/Kg	1	9/11/2021 2:38:00 AM	62460
Surr: 4-Bromofluorobenzene	83.5	70-130	%Rec	1	9/11/2021 2:38:00 AM	62460

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 9/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-2/Surface

 Project:
 Patrick API 5
 Collection Date: 9/3/2021 8:05:00 AM

 Lab ID:
 2109229-004
 Matrix: SOIL
 Received Date: 9/4/2021 8:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	: VP
Chloride	1000	60	mg/Kg	20	9/13/2021 7:01:29 PM	62531
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	: SB
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	9/10/2021 12:39:17 PM	62471
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/10/2021 12:39:17 PM	62471
Surr: DNOP	108	70-130	%Rec	1	9/10/2021 12:39:17 PM	1 62471
EPA METHOD 8015D: GASOLINE RANGE					Analys	:: mb
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/11/2021 2:57:00 AM	62460
Surr: BFB	96.8	70-130	%Rec	1	9/11/2021 2:57:00 AM	62460
EPA METHOD 8021B: VOLATILES					Analys	: mb
Benzene	ND	0.024	mg/Kg	1	9/11/2021 2:57:00 AM	62460
Toluene	ND	0.048	mg/Kg	1	9/11/2021 2:57:00 AM	62460
Ethylbenzene	ND	0.048	mg/Kg	1	9/11/2021 2:57:00 AM	62460
Xylenes, Total	ND	0.096	mg/Kg	1	9/11/2021 2:57:00 AM	62460
Surr: 4-Bromofluorobenzene	82.8	70-130	%Rec	1	9/11/2021 2:57:00 AM	62460

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 9/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-2/1'

 Project:
 Patrick API 5
 Collection Date: 9/3/2021 8:07:00 AM

 Lab ID:
 2109229-005
 Matrix: SOIL
 Received Date: 9/4/2021 8:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analysi	:: VP
Chloride	1100	60	mg/Kg	20	9/13/2021 7:13:51 PM	62531
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	:: SB
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	9/10/2021 1:30:28 PM	62471
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	9/10/2021 1:30:28 PM	62471
Surr: DNOP	107	70-130	%Rec	1	9/10/2021 1:30:28 PM	62471
EPA METHOD 8015D: GASOLINE RANGE					Analyst	:: mb
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/11/2021 3:17:00 AM	62460
Surr: BFB	93.1	70-130	%Rec	1	9/11/2021 3:17:00 AM	62460
EPA METHOD 8021B: VOLATILES					Analyst	:: mb
Benzene	ND	0.025	mg/Kg	1	9/11/2021 3:17:00 AM	62460
Toluene	ND	0.049	mg/Kg	1	9/11/2021 3:17:00 AM	62460
Ethylbenzene	ND	0.049	mg/Kg	1	9/11/2021 3:17:00 AM	62460
Xylenes, Total	ND	0.098	mg/Kg	1	9/11/2021 3:17:00 AM	62460
Surr: 4-Bromofluorobenzene	84.7	70-130	%Rec	1	9/11/2021 3:17:00 AM	62460

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 9/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-2/4'

 Project:
 Patrick API 5
 Collection Date: 9/3/2021 8:12:00 AM

 Lab ID:
 2109229-006
 Matrix: SOIL
 Received Date: 9/4/2021 8:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	180	60	mg/Kg	20	9/13/2021 7:26:13 PM	62531
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	9/10/2021 1:40:16 PM	62471
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	9/10/2021 1:40:16 PM	62471
Surr: DNOP	100	70-130	%Rec	1	9/10/2021 1:40:16 PM	62471
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: mb
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	9/11/2021 3:37:00 AM	62460
Surr: BFB	94.4	70-130	%Rec	1	9/11/2021 3:37:00 AM	62460
EPA METHOD 8021B: VOLATILES					Analyst	: mb
Benzene	ND	0.023	mg/Kg	1	9/11/2021 3:37:00 AM	62460
Toluene	ND	0.046	mg/Kg	1	9/11/2021 3:37:00 AM	62460
Ethylbenzene	ND	0.046	mg/Kg	1	9/11/2021 3:37:00 AM	62460
Xylenes, Total	ND	0.093	mg/Kg	1	9/11/2021 3:37:00 AM	62460
Surr: 4-Bromofluorobenzene	84.3	70-130	%Rec	1	9/11/2021 3:37:00 AM	62460

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 9/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-3/Surface

 Project:
 Patrick API 5
 Collection Date: 9/3/2021 8:23:00 AM

 Lab ID:
 2109229-007
 Matrix: SOIL
 Received Date: 9/4/2021 8:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	200	59	mg/Kg	20	9/13/2021 7:38:35 PM	62531
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	:: SB
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	9/9/2021 10:26:36 AM	62472
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/9/2021 10:26:36 AM	62472
Surr: DNOP	82.2	70-130	%Rec	1	9/9/2021 10:26:36 AM	62472
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/10/2021 3:57:32 PM	62468
Surr: BFB	105	70-130	%Rec	1	9/10/2021 3:57:32 PM	62468
EPA METHOD 8021B: VOLATILES					Analyst	:: NSB
Benzene	ND	0.025	mg/Kg	1	9/10/2021 3:57:32 PM	62468
Toluene	ND	0.049	mg/Kg	1	9/10/2021 3:57:32 PM	62468
Ethylbenzene	ND	0.049	mg/Kg	1	9/10/2021 3:57:32 PM	62468
Xylenes, Total	ND	0.099	mg/Kg	1	9/10/2021 3:57:32 PM	62468
Surr: 4-Bromofluorobenzene	94.2	70-130	%Rec	1	9/10/2021 3:57:32 PM	62468

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 9/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-3/4'

 Project:
 Patrick API 5
 Collection Date: 9/3/2021 8:31:00 AM

 Lab ID:
 2109229-008
 Matrix: SOIL
 Received Date: 9/4/2021 8:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	100	60	mg/Kg	20	9/13/2021 7:50:56 PM	62531
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	9/9/2021 10:55:31 AM	62472
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/9/2021 10:55:31 AM	62472
Surr: DNOP	74.1	70-130	%Rec	1	9/9/2021 10:55:31 AM	62472
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	9/10/2021 6:21:33 PM	62468
Surr: BFB	103	70-130	%Rec	1	9/10/2021 6:21:33 PM	62468
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	9/10/2021 6:21:33 PM	62468
Toluene	ND	0.050	mg/Kg	1	9/10/2021 6:21:33 PM	62468
Ethylbenzene	ND	0.050	mg/Kg	1	9/10/2021 6:21:33 PM	62468
Xylenes, Total	ND	0.099	mg/Kg	1	9/10/2021 6:21:33 PM	62468
Surr: 4-Bromofluorobenzene	93.2	70-130	%Rec	1	9/10/2021 6:21:33 PM	62468

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 9/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-4/Surface

 Project:
 Patrick API 5
 Collection Date: 9/3/2021 8:36:00 AM

 Lab ID:
 2109229-009
 Matrix: SOIL
 Received Date: 9/4/2021 8:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	9/13/2021 8:34:08 PM	62532
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	200	9.7	mg/Kg	1	9/9/2021 11:05:12 AM	62472
Motor Oil Range Organics (MRO)	380	49	mg/Kg	1	9/9/2021 11:05:12 AM	62472
Surr: DNOP	96.2	70-130	%Rec	1	9/9/2021 11:05:12 AM	62472
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	9/10/2021 7:33:17 PM	62468
Surr: BFB	99.4	70-130	%Rec	1	9/10/2021 7:33:17 PM	62468
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	9/10/2021 7:33:17 PM	62468
Toluene	ND	0.050	mg/Kg	1	9/10/2021 7:33:17 PM	62468
Ethylbenzene	ND	0.050	mg/Kg	1	9/10/2021 7:33:17 PM	62468
Xylenes, Total	ND	0.099	mg/Kg	1	9/10/2021 7:33:17 PM	62468
Surr: 4-Bromofluorobenzene	90.6	70-130	%Rec	1	9/10/2021 7:33:17 PM	62468

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 9/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-4/2'

 Project:
 Patrick API 5
 Collection Date: 9/3/2021 8:41:00 AM

 Lab ID:
 2109229-010
 Matrix: SOIL
 Received Date: 9/4/2021 8:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	9/13/2021 9:11:21 PM	62532
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	9/9/2021 11:53:11 AM	62472
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/9/2021 11:53:11 AM	62472
Surr: DNOP	81.1	70-130	%Rec	1	9/9/2021 11:53:11 AM	62472
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/10/2021 7:57:06 PM	62468
Surr: BFB	102	70-130	%Rec	1	9/10/2021 7:57:06 PM	62468
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	9/10/2021 7:57:06 PM	62468
Toluene	ND	0.049	mg/Kg	1	9/10/2021 7:57:06 PM	62468
Ethylbenzene	ND	0.049	mg/Kg	1	9/10/2021 7:57:06 PM	62468
Xylenes, Total	ND	0.098	mg/Kg	1	9/10/2021 7:57:06 PM	62468
Surr: 4-Bromofluorobenzene	92.7	70-130	%Rec	1	9/10/2021 7:57:06 PM	62468

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 9/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-5/Surface

 Project:
 Patrick API 5
 Collection Date: 9/3/2021 8:47:00 AM

 Lab ID:
 2109229-011
 Matrix: SOIL
 Received Date: 9/4/2021 8:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	9/13/2021 9:23:45 PM	62532
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	9/9/2021 12:02:47 PM	62472
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	9/9/2021 12:02:47 PM	62472
Surr: DNOP	84.6	70-130	%Rec	1	9/9/2021 12:02:47 PM	62472
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/10/2021 8:20:51 PM	62468
Surr: BFB	101	70-130	%Rec	1	9/10/2021 8:20:51 PM	62468
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	9/10/2021 8:20:51 PM	62468
Toluene	ND	0.049	mg/Kg	1	9/10/2021 8:20:51 PM	62468
Ethylbenzene	ND	0.049	mg/Kg	1	9/10/2021 8:20:51 PM	62468
Xylenes, Total	ND	0.098	mg/Kg	1	9/10/2021 8:20:51 PM	62468
Surr: 4-Bromofluorobenzene	91.8	70-130	%Rec	1	9/10/2021 8:20:51 PM	62468

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 9/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-5/2'

 Project:
 Patrick API 5
 Collection Date: 9/3/2021 8:55:00 AM

 Lab ID:
 2109229-012
 Matrix: SOIL
 Received Date: 9/4/2021 8:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	72	60	mg/Kg	20	9/13/2021 10:00:58 PM	62532
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	9/9/2021 12:12:26 PM	62472
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/9/2021 12:12:26 PM	62472
Surr: DNOP	83.7	70-130	%Rec	1	9/9/2021 12:12:26 PM	62472
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/10/2021 8:44:35 PM	62468
Surr: BFB	99.4	70-130	%Rec	1	9/10/2021 8:44:35 PM	62468
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	9/10/2021 8:44:35 PM	62468
Toluene	ND	0.047	mg/Kg	1	9/10/2021 8:44:35 PM	62468
Ethylbenzene	ND	0.047	mg/Kg	1	9/10/2021 8:44:35 PM	62468
Xylenes, Total	ND	0.093	mg/Kg	1	9/10/2021 8:44:35 PM	62468
Surr: 4-Bromofluorobenzene	90.9	70-130	%Rec	1	9/10/2021 8:44:35 PM	62468

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 9/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-6/Surface

 Project:
 Patrick API 5
 Collection Date: 9/3/2021 9:13:00 AM

 Lab ID:
 2109229-013
 Matrix: SOIL
 Received Date: 9/4/2021 8:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	4900	300	mg/Kg	100	9/14/2021 8:06:59 AM	62532
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	9/9/2021 12:22:07 PM	62472
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/9/2021 12:22:07 PM	62472
Surr: DNOP	97.5	70-130	%Rec	1	9/9/2021 12:22:07 PM	62472
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/10/2021 9:08:18 PM	62468
Surr: BFB	99.0	70-130	%Rec	1	9/10/2021 9:08:18 PM	62468
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	9/10/2021 9:08:18 PM	62468
Toluene	ND	0.048	mg/Kg	1	9/10/2021 9:08:18 PM	62468
Ethylbenzene	ND	0.048	mg/Kg	1	9/10/2021 9:08:18 PM	62468
Xylenes, Total	ND	0.096	mg/Kg	1	9/10/2021 9:08:18 PM	62468
Surr: 4-Bromofluorobenzene	90.9	70-130	%Rec	1	9/10/2021 9:08:18 PM	62468

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 9/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-6/1'

 Project:
 Patrick API 5
 Collection Date: 9/3/2021 9:15:00 AM

 Lab ID:
 2109229-014
 Matrix: SOIL
 Received Date: 9/4/2021 8:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	120	59	mg/Kg	20	9/13/2021 10:25:46 PM	62532
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	9/9/2021 12:31:48 PM	62472
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/9/2021 12:31:48 PM	62472
Surr: DNOP	86.9	70-130	%Rec	1	9/9/2021 12:31:48 PM	62472
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/10/2021 9:31:56 PM	62468
Surr: BFB	100	70-130	%Rec	1	9/10/2021 9:31:56 PM	62468
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	9/10/2021 9:31:56 PM	62468
Toluene	ND	0.047	mg/Kg	1	9/10/2021 9:31:56 PM	62468
Ethylbenzene	ND	0.047	mg/Kg	1	9/10/2021 9:31:56 PM	62468
Xylenes, Total	ND	0.093	mg/Kg	1	9/10/2021 9:31:56 PM	62468
Surr: 4-Bromofluorobenzene	92.5	70-130	%Rec	1	9/10/2021 9:31:56 PM	62468

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 9/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-7/Surface

 Project:
 Patrick API 5
 Collection Date: 9/3/2021 9:25:00 AM

 Lab ID:
 2109229-015
 Matrix: SOIL
 Received Date: 9/4/2021 8:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	59	mg/Kg	20	9/13/2021 11:02:59 PM	62532
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	SB
Diesel Range Organics (DRO)	62	9.9	mg/Kg	1	9/9/2021 12:41:31 PM	62472
Motor Oil Range Organics (MRO)	130	49	mg/Kg	1	9/9/2021 12:41:31 PM	62472
Surr: DNOP	91.2	70-130	%Rec	1	9/9/2021 12:41:31 PM	62472
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/10/2021 9:55:31 PM	62468
Surr: BFB	98.1	70-130	%Rec	1	9/10/2021 9:55:31 PM	62468
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	9/10/2021 9:55:31 PM	62468
Toluene	ND	0.049	mg/Kg	1	9/10/2021 9:55:31 PM	62468
Ethylbenzene	ND	0.049	mg/Kg	1	9/10/2021 9:55:31 PM	62468
Xylenes, Total	ND	0.097	mg/Kg	1	9/10/2021 9:55:31 PM	62468
Surr: 4-Bromofluorobenzene	89.8	70-130	%Rec	1	9/10/2021 9:55:31 PM	62468

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 9/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-7/2'

 Project:
 Patrick API 5
 Collection Date: 9/3/2021 9:29:00 AM

 Lab ID:
 2109229-016
 Matrix: SOIL
 Received Date: 9/4/2021 8:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	610	60	mg/Kg	20	9/13/2021 11:15:24 PM	62532
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	9/9/2021 12:51:16 PM	62472
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	9/9/2021 12:51:16 PM	62472
Surr: DNOP	89.5	70-130	%Rec	1	9/9/2021 12:51:16 PM	62472
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/10/2021 10:19:03 PM	62468
Surr: BFB	97.2	70-130	%Rec	1	9/10/2021 10:19:03 PM	62468
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	9/10/2021 10:19:03 PM	62468
Toluene	ND	0.049	mg/Kg	1	9/10/2021 10:19:03 PM	62468
Ethylbenzene	ND	0.049	mg/Kg	1	9/10/2021 10:19:03 PM	62468
Xylenes, Total	ND	0.098	mg/Kg	1	9/10/2021 10:19:03 PM	62468
Surr: 4-Bromofluorobenzene	89.4	70-130	%Rec	1	9/10/2021 10:19:03 PM	62468

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 9/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-8/1'

 Project:
 Patrick API 5
 Collection Date: 9/3/2021 9:42:00 AM

 Lab ID:
 2109229-017
 Matrix: SOIL
 Received Date: 9/4/2021 8:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	8000	300	mg/Kg	100	9/14/2021 8:19:23 AM	62532
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	9/9/2021 1:01:01 PM	62472
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/9/2021 1:01:01 PM	62472
Surr: DNOP	106	70-130	%Rec	1	9/9/2021 1:01:01 PM	62472
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/10/2021 10:42:35 PM	62468
Surr: BFB	99.8	70-130	%Rec	1	9/10/2021 10:42:35 PM	62468
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	9/10/2021 10:42:35 PM	62468
Toluene	ND	0.048	mg/Kg	1	9/10/2021 10:42:35 PM	62468
Ethylbenzene	ND	0.048	mg/Kg	1	9/10/2021 10:42:35 PM	62468
Xylenes, Total	ND	0.096	mg/Kg	1	9/10/2021 10:42:35 PM	62468
Surr: 4-Bromofluorobenzene	91.8	70-130	%Rec	1	9/10/2021 10:42:35 PM	62468

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 9/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-8/4'

 Project:
 Patrick API 5
 Collection Date: 9/3/2021 9:51:00 AM

 Lab ID:
 2109229-018
 Matrix: SOIL
 Received Date: 9/4/2021 8:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	3400	150	mg/Kg	50	9/14/2021 8:31:48 AM	62532
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	9/9/2021 1:10:47 PM	62472
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/9/2021 1:10:47 PM	62472
Surr: DNOP	105	70-130	%Rec	1	9/9/2021 1:10:47 PM	62472
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/10/2021 11:53:03 PM	62468
Surr: BFB	97.3	70-130	%Rec	1	9/10/2021 11:53:03 PM	62468
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	9/10/2021 11:53:03 PM	62468
Toluene	ND	0.049	mg/Kg	1	9/10/2021 11:53:03 PM	62468
Ethylbenzene	ND	0.049	mg/Kg	1	9/10/2021 11:53:03 PM	62468
Xylenes, Total	ND	0.099	mg/Kg	1	9/10/2021 11:53:03 PM	62468
Surr: 4-Bromofluorobenzene	89.6	70-130	%Rec	1	9/10/2021 11:53:03 PM	62468

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 9/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-8/14'

 Project:
 Patrick API 5
 Collection Date: 9/3/2021 10:27:00 AM

 Lab ID:
 2109229-019
 Matrix: SOIL
 Received Date: 9/4/2021 8:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	230	59	mg/Kg	20	9/13/2021 11:52:37 PM	62532
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	9/9/2021 1:20:34 PM	62472
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/9/2021 1:20:34 PM	62472
Surr: DNOP	101	70-130	%Rec	1	9/9/2021 1:20:34 PM	62472
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	9/11/2021 12:16:40 AM	62468
Surr: BFB	98.1	70-130	%Rec	1	9/11/2021 12:16:40 AM	62468
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.023	mg/Kg	1	9/11/2021 12:16:40 AM	62468
Toluene	ND	0.046	mg/Kg	1	9/11/2021 12:16:40 AM	62468
Ethylbenzene	ND	0.046	mg/Kg	1	9/11/2021 12:16:40 AM	62468
Xylenes, Total	ND	0.092	mg/Kg	1	9/11/2021 12:16:40 AM	62468
Surr: 4-Bromofluorobenzene	90.3	70-130	%Rec	1	9/11/2021 12:16:40 AM	62468

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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CLIENT: EOG

Analytical Report

Lab Order **2109229**Date Reported: **9/20/2021**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: TH-9/Surface

 Project:
 Patrick API 5
 Collection Date: 9/3/2021 10:35:00 AM

 Lab ID:
 2109229-020
 Matrix: SOIL
 Received Date: 9/4/2021 8:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	: VP
Chloride	ND	60	mg/Kg	20	9/14/2021 12:05:02 AM	62532
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst:	SB
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	9/9/2021 1:30:22 PM	62472
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/9/2021 1:30:22 PM	62472
Surr: DNOP	115	70-130	%Rec	1	9/9/2021 1:30:22 PM	62472
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/11/2021 12:40:09 AM	62468
Surr: BFB	98.8	70-130	%Rec	1	9/11/2021 12:40:09 AM	62468
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.024	mg/Kg	1	9/11/2021 12:40:09 AM	62468
Toluene	ND	0.049	mg/Kg	1	9/11/2021 12:40:09 AM	62468
Ethylbenzene	ND	0.049	mg/Kg	1	9/11/2021 12:40:09 AM	62468
Xylenes, Total	ND	0.097	mg/Kg	1	9/11/2021 12:40:09 AM	62468
Surr: 4-Bromofluorobenzene	90.8	70-130	%Rec	1	9/11/2021 12:40:09 AM	62468

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 9/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-9/4'

 Project:
 Patrick API 5
 Collection Date: 9/3/2021 10:41:00 AM

 Lab ID:
 2109229-021
 Matrix: SOIL
 Received Date: 9/4/2021 8:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	220	60	mg/Kg	20	9/14/2021 12:17:26 AM	62532
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	9/9/2021 1:40:10 PM	62472
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	9/9/2021 1:40:10 PM	62472
Surr: DNOP	94.6	70-130	%Rec	1	9/9/2021 1:40:10 PM	62472
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/11/2021 1:03:35 AM	62468
Surr: BFB	97.1	70-130	%Rec	1	9/11/2021 1:03:35 AM	62468
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	9/11/2021 1:03:35 AM	62468
Toluene	ND	0.048	mg/Kg	1	9/11/2021 1:03:35 AM	62468
Ethylbenzene	ND	0.048	mg/Kg	1	9/11/2021 1:03:35 AM	62468
Xylenes, Total	ND	0.096	mg/Kg	1	9/11/2021 1:03:35 AM	62468
Surr: 4-Bromofluorobenzene	88.9	70-130	%Rec	1	9/11/2021 1:03:35 AM	62468

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 9/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-10/Surface

 Project:
 Patrick API 5
 Collection Date: 9/3/2021 10:46:00 AM

 Lab ID:
 2109229-022
 Matrix: SOIL
 Received Date: 9/4/2021 8:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	9/14/2021 12:29:50 AM	62532
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	9/9/2021 1:49:59 PM	62472
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/9/2021 1:49:59 PM	62472
Surr: DNOP	80.4	70-130	%Rec	1	9/9/2021 1:49:59 PM	62472
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/11/2021 1:27:05 AM	62468
Surr: BFB	96.7	70-130	%Rec	1	9/11/2021 1:27:05 AM	62468
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	9/11/2021 1:27:05 AM	62468
Toluene	ND	0.049	mg/Kg	1	9/11/2021 1:27:05 AM	62468
Ethylbenzene	ND	0.049	mg/Kg	1	9/11/2021 1:27:05 AM	62468
Xylenes, Total	ND	0.097	mg/Kg	1	9/11/2021 1:27:05 AM	62468
Surr: 4-Bromofluorobenzene	88.8	70-130	%Rec	1	9/11/2021 1:27:05 AM	62468

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 9/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-10/2'

 Project:
 Patrick API 5
 Collection Date: 9/3/2021 10:50:00 AM

 Lab ID:
 2109229-023
 Matrix: SOIL
 Received Date: 9/4/2021 8:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	200	59	mg/Kg	20	9/14/2021 12:42:15 AM	62532
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	9/10/2021 10:53:25 AM	62472
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	9/10/2021 10:53:25 AM	62472
Surr: DNOP	72.1	70-130	%Rec	1	9/10/2021 10:53:25 AM	62472
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/11/2021 1:50:37 AM	62468
Surr: BFB	100	70-130	%Rec	1	9/11/2021 1:50:37 AM	62468
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	9/11/2021 1:50:37 AM	62468
Toluene	ND	0.049	mg/Kg	1	9/11/2021 1:50:37 AM	62468
Ethylbenzene	ND	0.049	mg/Kg	1	9/11/2021 1:50:37 AM	62468
Xylenes, Total	ND	0.099	mg/Kg	1	9/11/2021 1:50:37 AM	62468
Surr: 4-Bromofluorobenzene	91.7	70-130	%Rec	1	9/11/2021 1:50:37 AM	62468

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 9/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-11/Surface

 Project:
 Patrick API 5
 Collection Date: 9/3/2021 11:06:00 AM

 Lab ID:
 2109229-024
 Matrix: SOIL
 Received Date: 9/4/2021 8:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	9/14/2021 12:54:39 AM	62532
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	SB
Diesel Range Organics (DRO)	9.5	9.2	mg/Kg	1	9/9/2021 2:09:55 PM	62472
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	9/9/2021 2:09:55 PM	62472
Surr: DNOP	81.6	70-130	%Rec	1	9/9/2021 2:09:55 PM	62472
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/11/2021 2:14:00 AM	62468
Surr: BFB	96.2	70-130	%Rec	1	9/11/2021 2:14:00 AM	62468
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.025	mg/Kg	1	9/11/2021 2:14:00 AM	62468
Toluene	ND	0.049	mg/Kg	1	9/11/2021 2:14:00 AM	62468
Ethylbenzene	ND	0.049	mg/Kg	1	9/11/2021 2:14:00 AM	62468
Xylenes, Total	ND	0.099	mg/Kg	1	9/11/2021 2:14:00 AM	62468
Surr: 4-Bromofluorobenzene	88.2	70-130	%Rec	1	9/11/2021 2:14:00 AM	62468

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Analytical Report

Lab Order **2109229**Date Reported: **9/20/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-11/5'

 Project:
 Patrick API 5
 Collection Date: 9/3/2021 11:17:00 AM

 Lab ID:
 2109229-025
 Matrix: SOIL
 Received Date: 9/4/2021 8:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	:: VP
Chloride	ND	60	mg/Kg	20	9/14/2021 1:31:52 AM	62532
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	:: SB
Diesel Range Organics (DRO)	ND	8.9	mg/Kg	1	9/9/2021 2:29:36 PM	62472
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	9/9/2021 2:29:36 PM	62472
Surr: DNOP	88.5	70-130	%Rec	1	9/9/2021 2:29:36 PM	62472
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/11/2021 2:37:27 AM	62468
Surr: BFB	97.1	70-130	%Rec	1	9/11/2021 2:37:27 AM	62468
EPA METHOD 8021B: VOLATILES					Analyst	:: NSB
Benzene	ND	0.025	mg/Kg	1	9/11/2021 2:37:27 AM	62468
Toluene	ND	0.049	mg/Kg	1	9/11/2021 2:37:27 AM	62468
Ethylbenzene	ND	0.049	mg/Kg	1	9/11/2021 2:37:27 AM	62468
Xylenes, Total	ND	0.099	mg/Kg	1	9/11/2021 2:37:27 AM	62468
Surr: 4-Bromofluorobenzene	89.6	70-130	%Rec	1	9/11/2021 2:37:27 AM	62468

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 9/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-11/10'

 Project:
 Patrick API 5
 Collection Date: 9/3/2021 11:21:00 AM

 Lab ID:
 2109229-026
 Matrix: SOIL
 Received Date: 9/4/2021 8:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	9/14/2021 1:44:16 AM	62532
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	9/9/2021 2:39:33 PM	62472
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/9/2021 2:39:33 PM	62472
Surr: DNOP	93.2	70-130	%Rec	1	9/9/2021 2:39:33 PM	62472
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	9/11/2021 3:00:56 AM	62468
Surr: BFB	97.7	70-130	%Rec	1	9/11/2021 3:00:56 AM	62468
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	9/11/2021 3:00:56 AM	62468
Toluene	ND	0.050	mg/Kg	1	9/11/2021 3:00:56 AM	62468
Ethylbenzene	ND	0.050	mg/Kg	1	9/11/2021 3:00:56 AM	62468
Xylenes, Total	ND	0.099	mg/Kg	1	9/11/2021 3:00:56 AM	62468
Surr: 4-Bromofluorobenzene	89.6	70-130	%Rec	1	9/11/2021 3:00:56 AM	62468

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 9/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-12/Surface

 Project:
 Patrick API 5
 Collection Date: 9/3/2021 11:25:00 AM

 Lab ID:
 2109229-027
 Matrix: SOIL
 Received Date: 9/4/2021 8:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	9/14/2021 1:56:40 AM	62532
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	9/10/2021 2:53:07 PM	62470
Surr: BFB	105	70-130	%Rec	1	9/10/2021 2:53:07 PM	62470
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	9/10/2021 7:46:00 PM	62482
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/10/2021 7:46:00 PM	62482
Surr: DNOP	80.6	70-130	%Rec	1	9/10/2021 7:46:00 PM	62482
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: RAA
Benzene	ND	0.025	mg/Kg	1	9/10/2021 2:53:07 PM	62470
Toluene	ND	0.050	mg/Kg	1	9/10/2021 2:53:07 PM	62470
Ethylbenzene	ND	0.050	mg/Kg	1	9/10/2021 2:53:07 PM	62470
Xylenes, Total	ND	0.10	mg/Kg	1	9/10/2021 2:53:07 PM	62470
Surr: 1,2-Dichloroethane-d4	99.7	70-130	%Rec	1	9/10/2021 2:53:07 PM	62470
Surr: 4-Bromofluorobenzene	93.0	70-130	%Rec	1	9/10/2021 2:53:07 PM	62470
Surr: Dibromofluoromethane	102	70-130	%Rec	1	9/10/2021 2:53:07 PM	62470
Surr: Toluene-d8	108	70-130	%Rec	1	9/10/2021 2:53:07 PM	62470

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 9/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: TH-12/1'

Project: Patrick API 5
 Collection Date: 9/3/2021 11:27:00 AM

 Lab ID: 2109229-028
 Matrix: SOIL
 Received Date: 9/4/2021 8:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	61	mg/Kg	20	9/14/2021 2:09:05 AM	62532
EPA METHOD 8015D MOD: GASOLINE RANGE	.				Analyst	: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/10/2021 4:20:19 PM	62470
Surr: BFB	109	70-130	%Rec	1	9/10/2021 4:20:19 PM	62470
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	9/10/2021 8:15:38 PM	62482
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/10/2021 8:15:38 PM	62482
Surr: DNOP	106	70-130	%Rec	1	9/10/2021 8:15:38 PM	62482
EPA METHOD 8260B: VOLATILES SHORT LIST	Γ				Analyst	: RAA
Benzene	ND	0.025	mg/Kg	1	9/10/2021 4:20:19 PM	62470
Toluene	ND	0.049	mg/Kg	1	9/10/2021 4:20:19 PM	62470
Ethylbenzene	ND	0.049	mg/Kg	1	9/10/2021 4:20:19 PM	62470
Xylenes, Total	ND	0.099	mg/Kg	1	9/10/2021 4:20:19 PM	62470
Surr: 1,2-Dichloroethane-d4	99.3	70-130	%Rec	1	9/10/2021 4:20:19 PM	62470
Surr: 4-Bromofluorobenzene	96.8	70-130	%Rec	1	9/10/2021 4:20:19 PM	62470
Surr: Dibromofluoromethane	108	70-130	%Rec	1	9/10/2021 4:20:19 PM	62470
Surr: Toluene-d8	107	70-130	%Rec	1	9/10/2021 4:20:19 PM	62470

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2109229**

20-Sep-21

Client: EOG

Project: Patrick API 5

Sample ID: MB-62532 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 62532 RunNo: 81207

Prep Date: 9/13/2021 Analysis Date: 9/13/2021 SeqNo: 2868252 Units: mq/Kq

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

Chloride ND 1.5

Sample ID: LCS-62532 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 62532 RunNo: 81207

Prep Date: 9/13/2021 Analysis Date: 9/13/2021 SeqNo: 2868253 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 95.4 90 110

Sample ID: MB-62531 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **62531** RunNo: **81222**

Prep Date: 9/13/2021 Analysis Date: 9/13/2021 SeqNo: 2868437 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-62531 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 62531 RunNo: 81222

Prep Date: 9/13/2021 Analysis Date: 9/13/2021 SeqNo: 2868438 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.0 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

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

ND

Result

3.6

50

SampType: LCS

Batch ID: 62445

Analysis Date: 9/9/2021

10.00

5.000

WO#: **2109229**

20-Sep-21

Client: EOG

Project: Patrick API 5

Sample ID: LCS-62465	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: LCSS	Batch	1D: 62	465	F	RunNo: 8	1156				
Prep Date: 9/8/2021	Analysis D	ate: 9/	9/2021	9	SeqNo: 2	864692	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	104	68.9	135			
Surr: DNOP	4.3		5.000		86.2	70	130			
Sample ID: LCS-62472	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: LCSS	Batch	1D: 62	472	F	RunNo: 8	1156				
Prep Date: 9/8/2021	Analysis D	ate: 9/	9/2021	5	SeqNo: 2	864693	Units: mg/k	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	94.5	68.9	135			
Surr: DNOP	4.9		5.000		98.1	70	130			
Sample ID: MB-62465	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Sample ID: MB-62465 Client ID: PBS	·	ype: ME			tCode: El		8015M/D: Di	esel Rang	e Organics	
	·	n ID: 62	465	F		1156	8015M/D: Did Units: mg/K	J	e Organics	
Client ID: PBS	Batch	n ID: 62	465 9/2021	F	RunNo: 8 GeqNo: 2	1156		J	e Organics RPDLimit	Qual
Client ID: PBS Prep Date: 9/8/2021	Batch Analysis D	n ID: 62 vate: 9/	465 9/2021	F	RunNo: 8 GeqNo: 2	1156 864694	Units: mg/k	(g	J	Qual
Client ID: PBS Prep Date: 9/8/2021 Analyte	Batch Analysis D Result	n ID: 62 Pate: 9/	465 9/2021	F	RunNo: 8 GeqNo: 2	1156 864694	Units: mg/k	(g	J	Qual
Client ID: PBS Prep Date: 9/8/2021 Analyte Diesel Range Organics (DRO)	Batch Analysis D Result ND	n ID: 62 0 Pate: 9/ PQL 10	465 9/2021	F	RunNo: 8 GeqNo: 2	1156 864694	Units: mg/k	(g	J	Qual S
Client ID: PBS Prep Date: 9/8/2021 Analyte Diesel Range Organics (DRO) Motor Oil Range Organics (MRO)	Batch Analysis D Result ND ND 14	n ID: 62 0 Pate: 9/ PQL 10	465 9/2021 SPK value 10.00	F SPK Ref Val	RunNo: 8 SeqNo: 2 %REC 135	1156 864694 LowLimit	Units: mg/ / HighLimit	K g %RPD	RPDLimit	
Client ID: PBS Prep Date: 9/8/2021 Analyte Diesel Range Organics (DRO) Motor Oil Range Organics (MRO) Surr: DNOP	Batch Analysis D Result ND ND 14 SampT	PQL 10 10 10 50	465 9/2021 SPK value 10.00	SPK Ref Val	RunNo: 8 SeqNo: 2 %REC 135	1156 864694 LowLimit 70 PA Method	Units: mg/k HighLimit	K g %RPD	RPDLimit	
Client ID: PBS Prep Date: 9/8/2021 Analyte Diesel Range Organics (DRO) Motor Oil Range Organics (MRO) Surr: DNOP Sample ID: MB-62472	Batch Analysis D Result ND ND 14 SampT	PQL 10 50 1D: 62 1D: 62 1D: 62 1D: 62 1D: 62	9/2021 SPK value 10.00 BLK 472	SPK Ref Val Tes	RunNo: 8 SeqNo: 2 %REC 135	1156 864694 LowLimit 70 PA Method	Units: mg/k HighLimit	%RPD	RPDLimit	
Client ID: PBS Prep Date: 9/8/2021 Analyte Diesel Range Organics (DRO) Motor Oil Range Organics (MRO) Surr: DNOP Sample ID: MB-62472 Client ID: PBS	Batch Analysis D Result ND ND 14 SampT Batch	PQL 10 50 1D: 62 1D: 62 1D: 62 1D: 62 1D: 62	10.00 BLK 472 9/2021	SPK Ref Val Tes	RunNo: 8 GeqNo: 2 %REC 135 tCode: El	1156 864694 LowLimit 70 PA Method	Units: mg/k HighLimit 130 8015M/D: Die	%RPD	RPDLimit	

Qualifiers:

Analyte

Surr: DNOP

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix

Motor Oil Range Organics (MRO)

Sample ID: LCS-62445

Client ID: LCSS

Prep Date: 9/8/2021

Surr: DNOP

- 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

B Analyte detected in the associated Method Blank

110

RunNo: 81156

72.6

SeqNo: 2865704

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

70

Units: **%Rec**HighLimit

130

%RPD

- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range

SPK value SPK Ref Val %REC LowLimit

RL Reporting Limit

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RPDLimit

Qual

Hall Environmental Analysis Laboratory, Inc.

WO#: **2109229**

20-Sep-21

Client: EOG

Project: Patrick API 5

Sample ID: LCS-62457 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 62457 RunNo: 81156

Prep Date: 9/8/2021 Analysis Date: 9/9/2021 SeqNo: 2865705 Units: %Rec

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

Surr: DNOP 4.3 5.000 85.8 70 130

Sample ID: MB-62445 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 62445 RunNo: 81156

Prep Date: 9/8/2021 Analysis Date: 9/9/2021 SeqNo: 2865706 Units: %Rec

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

Surr: DNOP 9.0 10.00 90.1 70 130

Sample ID: MB-62457 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 62457 RunNo: 81156

Prep Date: 9/8/2021 Analysis Date: 9/9/2021 SeqNo: 2865707 Units: %Rec

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

Surr: DNOP 11 10.00 109 70 130

Sample ID: LCS-62471 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 62471 RunNo: 81181

Prep Date: 9/9/2021 Analysis Date: 9/10/2021 SeqNo: 2867171 Units: mg/Kg

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

 Diesel Range Organics (DRO)
 44
 10
 50.00
 0
 88.1
 68.9
 135

 Surr: DNOP
 4.6
 5.000
 91.8
 70
 130

Sample ID: LCS-62482 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 62482 RunNo: 81181

Prep Date: 9/9/2021 Analysis Date: 9/10/2021 SeqNo: 2867172 Units: mg/Kg

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

 Diesel Range Organics (DRO)
 42
 10
 50.00
 0
 83.3
 68.9
 135

 Surr: DNOP
 4.4
 5.000
 87.4
 70
 130

Sample ID: MB-62471 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 62471 RunNo: 81181

Prep Date: 9/9/2021 Analysis Date: 9/10/2021 SeqNo: 2867174 Units: mg/Kg

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

Diesel Range Organics (DRO) ND 10

Surr: DNOP 10 10.00 104 70 130

Motor Oil Range Organics (MRO) ND 50

3uii. DNOF 10 10.00 104 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

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

2109229 20-Sep-21

WO#:

Client: EOG

Project: Patrick API 5

Sample ID: MB-62482 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 62482 RunNo: 81181

Prep Date: 9/9/2021 Analysis Date: 9/10/2021 SeqNo: 2867175 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 9.8 10.00 98.0 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 Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

2109229 20-Sep-21

WO#:

Client: EOG

Sample ID: mb-62460

Project: Patrick API 5

Sample ID: mb-62468 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 62468 RunNo: 81194

Prep Date: 9/8/2021 Analysis Date: 9/10/2021 SeqNo: 2866643 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 1100 1000 105 70 130

Sample ID: Ics-62468 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 62468 RunNo: 81194

Prep Date: 9/8/2021 Analysis Date: 9/10/2021 SeqNo: 2866644 Units: mg/Kg

RPDLimit Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD Qual Gasoline Range Organics (GRO) 5.0 25.00 O 115 78.6 131

TestCode: EPA Method 8015D: Gasoline Range

70

130

 Surr: BFB
 1100
 1000
 114
 70
 130

Client ID: PBS Batch ID: 62460 RunNo: 81208

Short B. 1 BC Sater B. C2700

SampType: MBLK

Prep Date: 9/8/2021 Analysis Date: 9/10/2021 SeqNo: 2866769 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 880 1000 88.0 70 130

Sample ID: Ics-62460 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

1000

Client ID: LCSS Batch ID: 62460 RunNo: 81208

1000

Prep Date: 9/8/2021 Analysis Date: 9/10/2021 SeqNo: 2866771 Units: mg/Kg

Result SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** PQL LowLimit Qual Gasoline Range Organics (GRO) 27 5.0 25.00 108 78.6 131

Qualifiers:

Surr: BFB

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

B Analyte detected in the associated Method Blank

102

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2109229 20-Sep-21

Client: EOG

Project: Patrick API 5

Sample ID: mb-62468 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 62468 RunNo: 81194 Prep Date: 9/8/2021 Analysis Date: 9/10/2021 SeqNo: 2866705 Units: mq/Kq SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Analyte Result PQL HighLimit Qual Benzene ND 0.025

Toluene ND 0.050 0.050 Ethylbenzene ND Xylenes, Total ND 0.10

Surr: 4-Bromofluorobenzene 0.95 1.000 94.7 70 130

Sample ID: LCS-62468 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 62468 RunNo: 81194 Prep Date: Analysis Date: 9/10/2021 SeqNo: 2866706 9/8/2021 Units: mg/Kg PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 1.000 0.89 0.025 0 88.88 80 120 Benzene Toluene 0.90 0.050 1.000 0 89.9 80 120 0 89.6 80 Ethylbenzene 0.90 0.050 1.000 120 0 89.5 Xylenes, Total 2.7 0.10 3.000 80 120 Surr: 4-Bromofluorobenzene 0.94 1.000 93.8 70 130

SampType: MBLK TestCode: EPA Method 8021B: Volatiles Sample ID: mb-62460 Client ID: PBS Batch ID: 62460 RunNo: 81208 Prep Date: 9/8/2021 Analysis Date: 9/10/2021 SeqNo: 2866837 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual ND 0.025 Benzene

Toluene ND 0.050 ND 0.050 Ethylbenzene Xylenes, Total ND 0.10 Surr: 4-Bromofluorobenzene 0.80

Sample ID: Ics-62460 SampType: LCS TestCode: EPA Method 8021B: Volatiles

1.000

Client ID: LCSS Batch ID: 62460 RunNo: 81208

Prep Date: 9/8/2021	Analysis L	Date: 9/	10/2021	٤	seqNo: 2	866839	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.025	1.000	0	85.6	80	120			
Toluene	0.85	0.050	1.000	0	85.4	80	120			
Ethylbenzene	0.86	0.050	1.000	0	86.5	80	120			
Xylenes, Total	2.6	0.10	3.000	0	86.8	80	120			
Surr: 4-Bromofluorobenzene	0.81		1.000		81.5	70	130			

Qualifiers:

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

Analyte detected in the associated Method Blank

80.0

130

70

- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

0.52

WO#: **2109229 20-Sep-21**

Client: EOG

Surr: Toluene-d8

Project: Patrick API 5

Sample ID: mb-62470 SampType: MBLK TestCode: EPA Method 8260B: Volatiles Short List Client ID: PBS Batch ID: 62470 RunNo: 81220 Prep Date: 9/8/2021 Analysis Date: 9/10/2021 SeqNo: 2867403 Units: mg/Kg PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Analyte Result Qual Benzene ND 0.025 Toluene ND 0.050 ND 0.050 Ethylbenzene Xylenes, Total ND 0.10 70 Surr: 1,2-Dichloroethane-d4 0.50 0.5000 100 130 0.48 Surr: 4-Bromofluorobenzene 0.5000 95.5 70 130 Surr: Dibromofluoromethane 0.50 0.5000 101 70 130

104

70

130

0.5000

Sample ID: Ics-62470 SampType: LCS4 TestCode: EPA Method 8260B: Volatiles Short List Client ID: **BatchQC** Batch ID: 62470 RunNo: 81220 Prep Date: Analysis Date: 9/10/2021 SeqNo: 2867405 9/8/2021 Units: mg/Kg SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Analyte Result PQL HighLimit Qual 0.98 0.025 1.000 0 98.2 80 120 Benzene Toluene 0.99 0.050 1.000 0 99.4 80 120 Ethylbenzene 1.0 0.050 1.000 0 99.8 80 120 Xylenes, Total 2.8 0.10 3.000 0 94.8 80 120 97.0 70 Surr: 1,2-Dichloroethane-d4 0.49 0.5000 130 Surr: 4-Bromofluorobenzene 0.48 0.5000 96.3 70 130 Surr: Dibromofluoromethane 99.4 70 0.50 0.5000 130 Surr: Toluene-d8 0.53 0.5000 107 70 130

Sample ID: 2109229-028ams	SampT	ype: MS	64	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: TH-12/1'	Batch	n ID: 62 4	470	F	RunNo: 8	1220				
Prep Date: 9/8/2021	Analysis D	oate: 9/	10/2021	8	SeqNo: 28	867407	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.024	0.9488	0	104	73.5	138			•
Toluene	0.92	0.047	0.9488	0	97.3	83	131			
Ethylbenzene	0.94	0.047	0.9488	0	99.5	84.9	132			
Xylenes, Total	2.7	0.095	2.846	0	96.5	79.6	144			
Surr: 1,2-Dichloroethane-d4	0.49		0.4744		102	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.4744		99.6	70	130			
Surr: Dibromofluoromethane	0.51		0.4744		107	70	130			
Surr: Toluene-d8	0.51		0.4744		107	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

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2109229 20-Sep-21**

Client: EOG

Project: Patrick API 5

Sample ID: 2109229-028ams	sd SampT	ype: MS	D4	Tes	tCode: El	PA Method	8260B: Vola	tiles Short	List	
Client ID: TH-12/1'	Batcl	h ID: 62 4	470	F	RunNo: 8	1220				
Prep Date: 9/8/2021	Analysis [Date: 9/	10/2021	8	SeqNo: 28	867409	Units: mg/k	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.024	0.9747	0	106	73.5	138	4.59	20	
Toluene	0.98	0.049	0.9747	0	100	83	131	5.63	20	
Ethylbenzene	1.0	0.049	0.9747	0	104	84.9	132	7.11	20	
Xylenes, Total	3.0	0.097	2.924	0	102	79.6	144	8.21	20	
Surr: 1,2-Dichloroethane-d4	0.51		0.4873		104	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.48		0.4873		99.4	70	130	0	0	
Surr: Dibromofluoromethane	0.53		0.4873		109	70	130	0	0	
Surr: Toluene-d8	0.52		0.4873		107	70	130	0	0	

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2109229**

20-Sep-21

Client: EOG

Surr: BFB

Project: Patrick API 5

Sample ID: mb-62470 SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: PBS Batch ID: 62470 RunNo: 81220

Prep Date: 9/8/2021 Analysis Date: 9/10/2021 SeqNo: 2867502 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 520 500.0 103 70 130

Sample ID: Ics-62470 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: LCSS Batch ID: 62470 RunNo: 81220

490

Prep Date: 9/8/2021 Analysis Date: 9/10/2021 SeqNo: 2867504 Units: mg/Kg

500.0

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 25 5.0 25.00 0 101 70 130

97.4

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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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

Sample Log-In Check List

Client Name: EOG	Work Order Numbe	r: 210	9229			RcptNo. 1	
Received By: Juan Rojas	9/4/2021 8:30:00 AM			Jums	20		
Completed By: Cheyenne Cason	9/4/2021 11:05:31 AM	Λ		t land	1		
Reviewed By 7 19 17 121							
Chain of Custody							
1. Is Chain of Custody complete?		Yes	~	No		Not Present	
2. How was the sample delivered?		Cou	rier				
Log In							
3. Was an attempt made to cool the sample	es?	Yes	~	No		NA 🗌	
4. Were all samples received at a temperat	ure 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 te	st(s)?	Yes	~	No			
7. Are samples (except VOA and ONG) pro	perly preserved?	Yes	V	No			
8. Was preservative added to bottles?		Yes		No	V	NA 🗌	
9. Received at least 1 vial with headspace <	1/4" for AQ VOA?	Yes		No		NA 🗸	
10. Were any sample containers received br	oken?	Yes		No	V	# of preserved bottles checked	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes	V	No		for pH:	2 unless noted)
12. Are matrices correctly identified on Chain	of Custody?	Yes	~	No		Adjusted2	
13. Is it clear what analyses were requested?		Yes	~	No			as al
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes	~	No		Checked by	PG 4/
Special Handling (if applicable)							· ·
15. Was client notified of all discrepancies w	ith this order?	Yes		No		NA 🗸	
Person Notified:	Date:	-					
By Whom:	Via:	eM.	ail 🔲 F	Phone	Fax	In Person	
Regarding:							
Client Instructions:							
16. Additional remarks:							
17. Cooler Information							
Cooler No Temp °C Condition	Seal Intact Seal No S	Seal D	ate	Signed E	Зу		
1 0.0 Good 2 0.4 Good							

						Chorn		LAIL SNIVIOONING LIAIL
Client: I	EOG-Art	esia / Ra	Client: EOG-Artesia / Ranger Env.	X Standard	□ Rush	e constant		ANALYSIS LABORATORY
				Project Name:		1		www.hallenvironmental.com
Mailing A	Address: 1	EOG - 10	Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210	Patrick	K API	1 # 2	4901 H	4901 Hawkins NE - Albuquerane, NM 87109
Ranger	PO Box 2	201179, 4	Ranger: PO Box 201179, Austin TX 78720	Project #: 5375	22		Tel. 50	Tel. 505-345-3975 Fax 505-345-4107
Phone #	Phone #: 521-335-1785	35-1785						۱na
email or	r Fax#: V	Vill@Rar	email or Fax#: Will@RangerEnv.com	Project Mana	Project Manager: W. Kierdorf	Jorf	(
QA/QC Packa ■ Standard	QA/QC Package: Standard		☐ Level 4 (Full Validation)				OAM\	
Accreditation:	tation:	□ Az Co	□ Az Compliance □ Other	Sampler: Non Ice:	1. Cook	□ No		
EDD	■ EDD (Type)	Excel		# of Coolers:	2		эвс	
				Cooler Temp	Cooler Temp(including CF): See	Pernor Ks	2D(
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	- 1	BTEX (8 TPH:801 Chloride	
9/3/2	1-520	18	+4-1/surfae	402, 1	Now	100	\ \ \ \	
_	679	_	14-1/21	/	/	002	\times	
_	5980		14-1/4			803	XXX	
	0805		TH-2/50-fact			400	XXX	
	0807		TH-2/11			505	XXX	
	0812		74-2/4			20%	メンシン	
	0833		TH-3/50 Have			200	XXX	
	0831		TH-3/4			308	XXX	
	9589		TH4/50 Face			CCA.	XXX	
	1480		TH-4/2			010	$X \dot{X} X$	
	5480		TH5/Surfage			012 CVI	XXX	
100	2855	7	TH-5/3,	7	1	210	XXX	
Date:	Time: 1405	Relinquished by:	hed by:	Received by:	Via:	Sate Time	Remarks: Bil	Remarks: Bill to EOG Artesia $0.2 - 0.2 = \varnothing$
Date:	Time:	Relinquished by	hed by:	Received by:	Via:	Date Time		6.6-6.2-6.4
1/2/1	Sin	1	*	1		aprilos Eren		0.3-0.2=0.1

J	Shain	-of-C	Chain-of-Custody Record	Turn-Around Time:		1		
Client:	EOG-Ar	Client: EOG-Artesia / Ranger Env.	nger Env.	₩ Standard	□ Rus	New C		ANALYSTS LABORATORY
Mailing	Address:	E0G - 105	Mailing Address; EOG - 105 S 4th St, Artesia NM, 88210	Project Name:	AP!	45		www.hallenvironmental.com
Ranger	PO Box	201179, A	Ranger: PO Box 201179, Austin TX 78720	Project #: 5375	.5		750 Tel. 50	4901 Hawkiils NE - Albuqueique, Nivi 67 109 Tel. 505-345-3975 Fax 505-345-4107
Phone	Phone #: 521-335-1785	35-1785			-4			Analysis
email	or Fax#: \	Will@Ran	email or Fax#: Will@RangerEnv.com	Project Manager: W. Kierdorf	ger: W. Kierd	Jorf	((
QAVQC	QA/QC Package:						NBC	
■ Sta	■ Standard		☐ Level 4 (Full Validation)				1/0	
Accreo	Accreditation:	□ Az Cc	☐ Az Compliance	Sampler: M-(.Cook			
■ NELAC	AC	□ Other		On Ice:	□Yes	No □		
■ EDI	■ EDD (Type)	Excel		# of Coolers: 3	3		SGR.	
				Cooler Temp(including CF): See	including CF):	e Remarks) DS (
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	3) X∃TE 708:Hq 3hloride	
1/2/6	-		TH-6/5/2/face	405,1	Nowe	13	L X	
_	5160	_	,1/2-#1	/	/	710	XXX	
	69.25		TH-7/2, Face			510	XXX	
	0929		+#-7/3			910	XXX	
	0942		11-8/11			210	XXX	
	1560		, 1 /8-11			810	メメメ	
	1017		74-8/14			610	×××	
	1036		TH-9/90 Mace			020	XXX	
	1046		TH-9/4"			021	XXX	
	1046		TH-10/500 face			022	XXX	
	060)		TH-0/2'			023	X X X	
>	9011	1	714-11/641Face	1	7	h20	XXX	
Date: 9/3/2	Time: 1400	Relinquished by:	ad-5y:	Received by:	Via:	Date, Time 2/5/31 1403	Remarks: Bill	Remarks: Bill to EOG Artesia
Date:	-	Relinquished by:	ed by:	Received by:	Via:	-		4.05-0.5-0.0
200	1 1900	11		d	10012 9/2/21	914/21 8,30		6.3-0.2=0-1
	If necessary	y, samples sui	bmitted to Hall Environmental may be subc	contracted to other a	ccredited laborator	ies. This serves as notice of th	is possibility. Any s	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 repoi



James H & Betty R Howell Revocable Trust Seed Mix

1lb per acre of Plains Bristlegrass

2lbs per acre of Green Sprangletop

3lbs per acre of Side Oats Gramma

2lbs per acre of Blue Gramma

Increase to 16lbs per acre if broadcast.

Add Reclamation Mix

40% Ryegrass (Annual)

10% Millet

7.5% Kleingrass

5.7% Sideoats

5% Green Sprangletop

7.5% Bristlegrass

10% Western Wheatgrass

10% Buffalograss

2.5% Blue Grama

PLANTING RATE 20 lbs. per acre

Updated 5/23/2021

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 89512

CONDITIONS

Variable 1 and 1 a	
Operator:	OGRID:
EOG RESOURCES INC	7377
P.O. Box 2267	Action Number:
Midland, TX 79702	89512
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
jnobui	Remediation Plan Approved.	3/22/2022