

SITE REMEDIATION AND CLOSURE REPORT

JOHN AGU #1 BATTERY
UNIT C, SECTION 14, TOWNSHIP 20S, RANGE 24E
EDDY COUNTY, NEW MEXICO
32.57897, -104.56104
RANGER REFERENCE NO. 5375

PREPARED FOR:

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

PREPARED BY:

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

SEPTEMBER 11, 2023

Max Cook, CAPM (TX) Senior Project Manager William Kierdorf, REM Project Manager

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FORM C-141

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ATTACHMENTS

- Attachment 1 SMA Remediation Plan & NMOCD Approval Correspondence
- Attachment 2 Photographic Documentation
- Attachment 3 Laboratory Analytical Reports
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SITE REMEDIATION AND CLOSURE REPORT JOHN AGU #1 BATTERY UNIT C, SECTION 14, TOWNSHIP 20S, RANGE 24E EDDY COUNTY, NEW MEXICO 32.57897, -104.56104 RANGER REFERENCE NO. 5375

1.0 SITE LOCATION AND BACKGROUND

The John AGU #1 Battery (Site) is located on private land, approximately 20.5 miles southwest of Artesia, within Eddy County, New Mexico. The Site is situated in Unit C, Section 14, T20S-R24E at GPS coordinates 32.57897, -104.56104. The Site was utilized for oil and gas production and historically contained a tank battery with an earthen berm and the John AGU #1 well. Production activities at the site have been concluded, the on-site well has been plugged and abandoned, and all production equipment has been removed from the Site.

On March 22, 2018, a release was discovered within the tank battery area at the Site. A failure along a water pump discharge line resulted in the release of approximately 14 barrels (bbls) of produced water. The released fluids were noted to be contained to the bermed tank battery area. Upon discovery, representatives of EOG Resources, Inc. (EOG) took immediate action to stop the release. During the initial response activities, emergency vacuum trucks were dispatched to the location and were successful in the recovery of approximately 12 bbls of released fluids. Due to the nature and volume of the release, the incident was reported to the New Mexico Oil Conservation Division (NMOCD) within the required timeframe (NMOCD Incident # fAB1810139472/2RP-4694).

To assist in the assessment and remediation at the Site, EOG retained Souder, Miller & Associates (SMA). In order to assess the impacts at the Site, representatives of SMA conducted site assessment activities in March and July of 2018. Based on the findings of the assessment activities, an SMA prepared Remediation Plan for the John AGU #1 Battery Release (2RP-4694), Eddy County, New Mexico, dated September 10, 2018 was submitted to the NMOCD. The plan included the findings of the assessment activities and proposed remedial efforts at the Site that included limited excavation and the installation of a clay liner in the excavation base area. On November 14, 2018, the NMOCD responded in denial of the proposed remediation plan, stating that further delineation was necessary at the Site. In December 2018, representatives for SMA completed additional assessment activities at the Site to further delineate impacts associated with the release. Based on the findings of the additional assessment activities, SMA prepared and submitted an updated Remediation Plan for the John AGU #1 Battery Release (2RP-4694), Eddy County, New Mexico, dated January 7, 2019 (Remediation Plan). The updated plan re-proposed the remediation strategy of limited excavation, utilization of a clay liner at the Site, as well as proposing to limit confirmation samples to the excavation side walls. On November 18, 2019, the NMOCD approved the remediation plan with the condition of approval that excavation sidewalls be completed to boundaries where soil chloride concentrations are "less than 600 mg/kg". A copy of the Remediation Plan, dated January 7, 2019, and NMOCD approval correspondence are attached.

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

AUSTIN. TX 78720

OFFICE: 512/335-1785

FAX: 512/335-0527

P.O. BOX 201179

In July of 2023, EOG engaged Ranger Environmental Services, Inc. (Ranger) to assist in the completion of remediation and closure at the Site in accordance with the NMOCD approved Remediation Plan.

The following Site Remediation and Closure Report has been prepared to document the completed remediation and cleanup confirmation soil sampling activities.

A copy of the previously submitted Form C-141 Release Notification section is attached. A recent Form C-141 Closure section is also attached. A Topographic Map and Area Map noting the location of the subject Site and surrounding areas as well as a site map illustrating the Site features and sampling locations are provided in the Figures section.

2.0 SITE REMEDIATION

2.1 Soil Removal, Confirmation Soil Sampling, and Sample Results

On August 7, 2023, remedial soil removal operations in accordance with the NMOCD approved Remediation Plan were initiated at the Site. Upon completing the excavation to the proposed boundaries as detailed in the approved Remediation Plan, Ranger personnel collected field readings utilizing an organic vapor monitor (OVM) and field chloride titration kit to assess the boundaries of the excavated area. In areas of elevated field readings, additional excavation activities were completed in an attempt to complete the excavation to boundaries within the applicable NMAC 19.15.29.12 Table 1 Criteria. It should be noted that due to the hard rock lithology encountered in the eastern portion of the excavation, removal to the target depth of four feet below ground surface (bgs) was not achievable in a limited area and the excavation was completed to a depth of approximately one-foot bgs.

To confirm that the excavated areas had been completed to appropriate boundaries, cleanup confirmation soil samples were collected in accordance with the methods detailed in the NMOCD approved Remediation Plan. On August 21, 2023, Ranger personnel collected a total of 11 five-part composite soil samples from the excavation side walls. Additionally, in the eastern excavation area where excavation was limited to a depth of one-foot bgs, one five-part composite soil sample (EB-1) was collected from the excavation base area and one five-part composite soil sample (W-12) was collected from the internal excavation side wall area. The confirmation soil samples were collected as five-part composite samples in accordance with NMAC 19.15.29.12 with each sample representing less than 200 square feet.

Upon collection, all cleanup confirmation 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 laboratory analytical report for the samples collected on August 21, 2023, all 13 samples collected were documented to have BTEX and TPH concentrations below the NMAC 19.15.29.12 Table 1 Criteria. Additionally, 11 of the 13 samples were also documented to have chloride concentrations below the NMAC 19.15.29.12 Table 1 Criteria of 600 mg/Kg. However, two samples ("W-6" and "W-12") were noted to have chloride concentrations in exceedance of the applicable 600 mg/Kg Table 1 criteria for chloride.



To address the elevated chloride concentration in the sample "W-6" and "W-12" areas, additional soil removal activities were conducted on August 30, 2023. Upon completion of the additional removal activities, Ranger personnel collected additional cleanup confirmation soil samples from the over-excavated areas. The cleanup confirmation soil samples were once again collected as five-part composite samples in accordance with NMAC 19.15.29.12 with each sample representing less than 200 square feet.

Upon collection, the soil samples were submitted to Hall Environmental in Albuquerque, New Mexico for analysis of TPH, BTEX, and chloride using the afore-mentioned laboratory methods. The samples were collected and managed using standard QA/QC and chain-of-custody procedures. Upon review of the laboratory analytical results for the samples collected on August 30, 2023, both samples were documented to contain BTEX, TPH and chloride concentrations below the applicable NMAC 19.15.29.12 Table 1 Criteria.

A comprehensive summary of the analytical results for the cleanup confirmation soil samples is attached. Copies of the laboratory analytical reports and chain-of-custody documentation are attached. It should be noted that prior to the cleanup confirmation sampling events, notice was provided to the NMOCD in accordance with NMAC 19.15.29.12(D). Copies of the notifications are attached.

2.2 <u>Clay Liner Installation</u>

Upon confirmation that the horizontal extent of the excavation had achieved cleanup to concentrations below the applicable NMAC 19.15.29.12 Table 1 Criteria. A geosynthetic clay liner (GCL) was installed in the base of excavation area completed to four feet bgs.

The final extent of the excavation was noted to have maximum dimensions of approximately 210 feet by 58 feet. A *Site Map* depicting the final excavation boundaries and the extent of the installed liner is attached.

2.3 Waste Disposal

All soils generated during the excavation activities were disposed of at Lea Land disposal facility in Lea County, New Mexico.

3.0 SITE CLOSURE

3.1 Site Backfill and Re-Vegetation

Upon completion of the excavation activities and liner installation, the excavated area was backfilled with clean fill material.

Re-vegetation efforts at the Site will be completed in conjunction with the remaining decommissioning and reclamation efforts of the former John AGU Battery and John AGU #1 well pad.



3.2 Closure Request

Based on the results of the cleanup confirmation soil sampling activities and the excavation base liner installation, the site has been properly addressed pursuant to the NMOCD approved Remediation Plan and as such EOG respectfully requests closure of the incident. A final C-141 form is attached.



eceived by OCD: 9/13/2023 9:42:08 AM		Page 7 of
	FORM C-141	

NM OIL CONSERVATION

<u>District 1</u> 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 ARTESIA DISTRICT

Form C-141 Revised April 3, 2017

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

APR 06 2018 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

RECEIVED

PAB181			Rele	ease Notific		and Co	rrective A	ction				
NAB18	10139	599										
Name of Company OGRID Number EOG Y Resources, Inc. 25575						Contact Chase Settle						
Address 104 S. 4 th Street Artesia NM 88210						Telephone 1 575-748-14						
Facility Name John AGU #1 Battery						Facility Typ Battery				~		
Surface Ow Private	ner			Mineral C					API No			
Trivate				1.00	TION	OF RE	FASE					
Unit Letter	Section 14	Township 20S	Range 24E	Feet from the 660		South Line	Feet from the 1980	East/We	est Line	County Eddy		
				Latitude 32.57	897 Loi	ngitude -10	4.56104 NAD8	33				
						OF REL						
Type of Rele					CIL	Volume of				Recovered		
Produced Wa Source of Re	lease					14 B/PW Date and Hour of Occurrence			Date and Hour of Discovery			
Discharge Li Was Immedi		Given?				03/22/2018; 3:30 PM						
			Yes [No Not R	equired							
By Whom?						Date and I	lour					
Was a Water	course Rea		Yes 🗵	No No		If YES, Volume Impacting the Watercourse.						
		pacted, Descr										
		em and Reme pump had a fa		n Taken.*								
		7 7 7 7										
		and Cleanup			vithin th	e berm of t	he battery.					
The impacted area was approximately 230 feet by 10 feet within the berm of the battery. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.									eases which may endanger feve the operator of liability r, surface water, human health ompliance with any other			
Signature: Chan Settle							OIL CON	SERVA	ATION	DIVISION		
Printed Name: Chase Settle						Approved by Environmental Specialist:						
Title: Rep Safety & Environmental II						Approval Date: 41018 Expiration Date: NIA						
E-mail Addr	ess: chase_	settle@eogre	sources.co	m		Conditions o	f Approval:	0		Attached APP-4L094		
Date: April 5, 2018 Phone: 575-748-4171						Se	attack	led		2017-41014		

* Attach Additional Sheets If Necessary

419118AB

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Incident ID	nAB1810139599
District RP	2RP-4694
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.

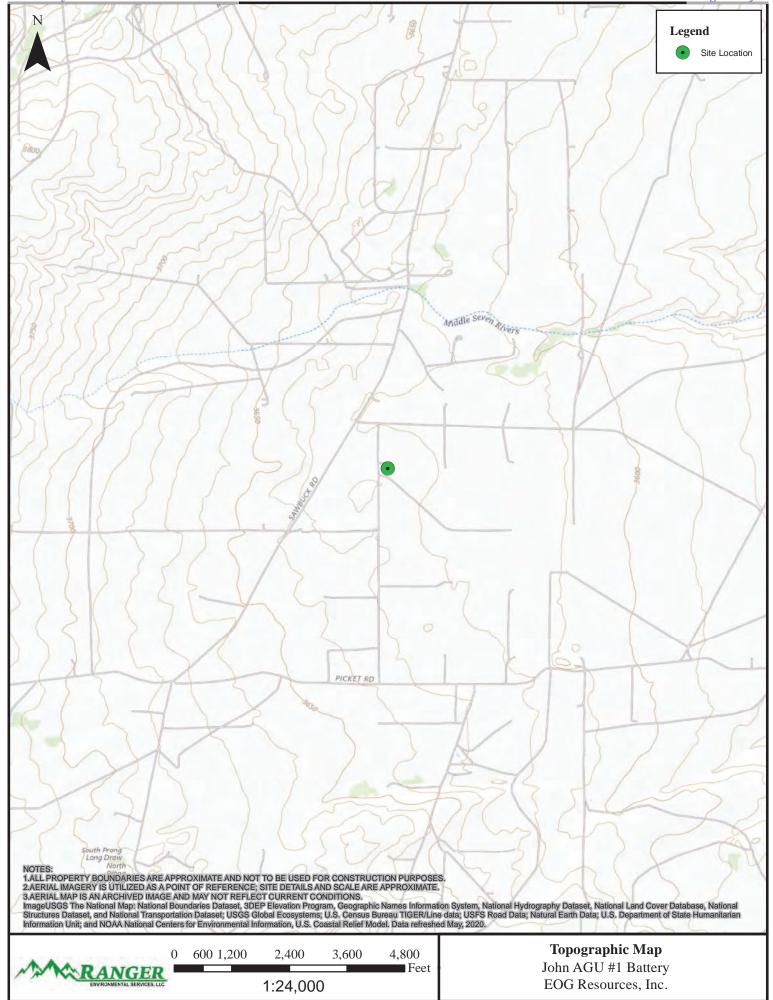
Closure Report Attachment Checklist: Each of the following ite	ems must be included in the closure report.						
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)							
☐ Laboratory analyses of final sampling (Note: appropriate ODC	District office must be notified 2 days prior to final sampling)						
□ Description of remediation activities							
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of a should their operations have failed to adequately investigate and rem human health or the environment. In addition, OCD acceptance of a compliance with any other federal, state, or local laws and/or regulat restore, reclaim, and re-vegetate the impacted surface area to the con accordance with 19.15.29.13 NMAC including notification to the OC	rediate contamination that pose a threat to groundwater, surface water, C-141 report does not relieve the operator of responsibility for ions. The responsible party acknowledges they must substantially ditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.						
	Title: Rep Safety & Environmental Sr						
Signature: Chase Settle	Date: 09/13/2023						
email: Chase_Settle@eogresources.com	Telephone: 575-748-1471						
OCD Only							
Received by:	Date:						
	of liability should their operations have failed to adequately investigate and vater, human health, or the environment nor does not relieve the responsible or regulations.						
Closure Approved by: Ashley Maxwell	Date: 9/26/2023						
Closure Approved by: Ashley Maxwell Printed Name: Ashley Maxwell	Title: Environmental Specialist						

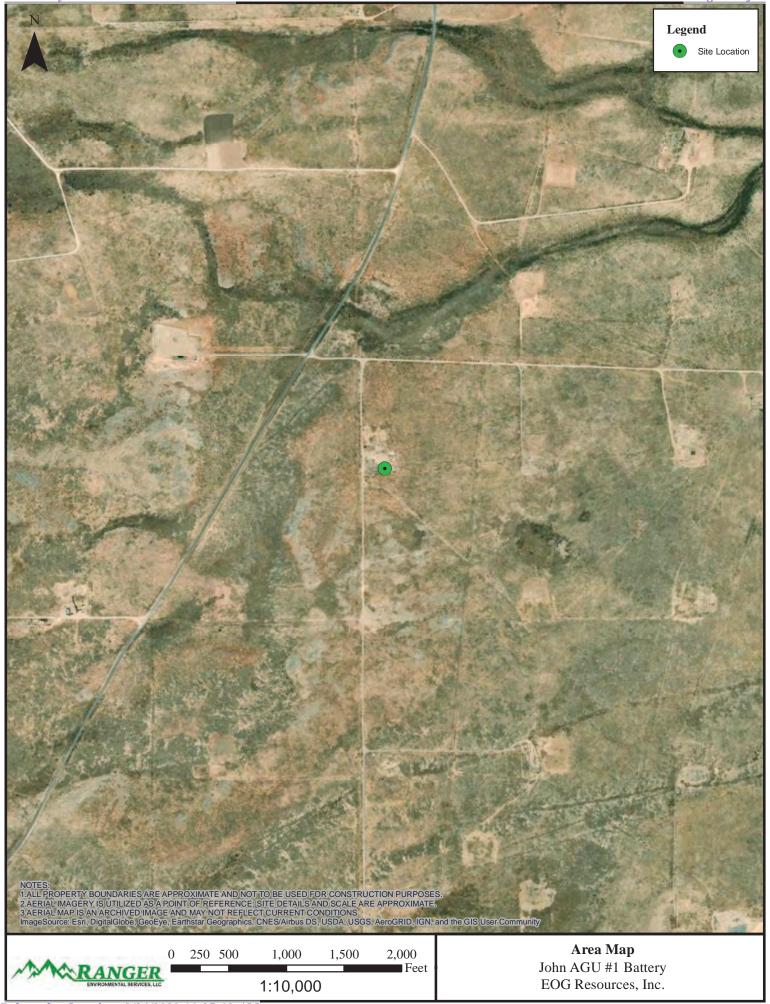
FIGURES

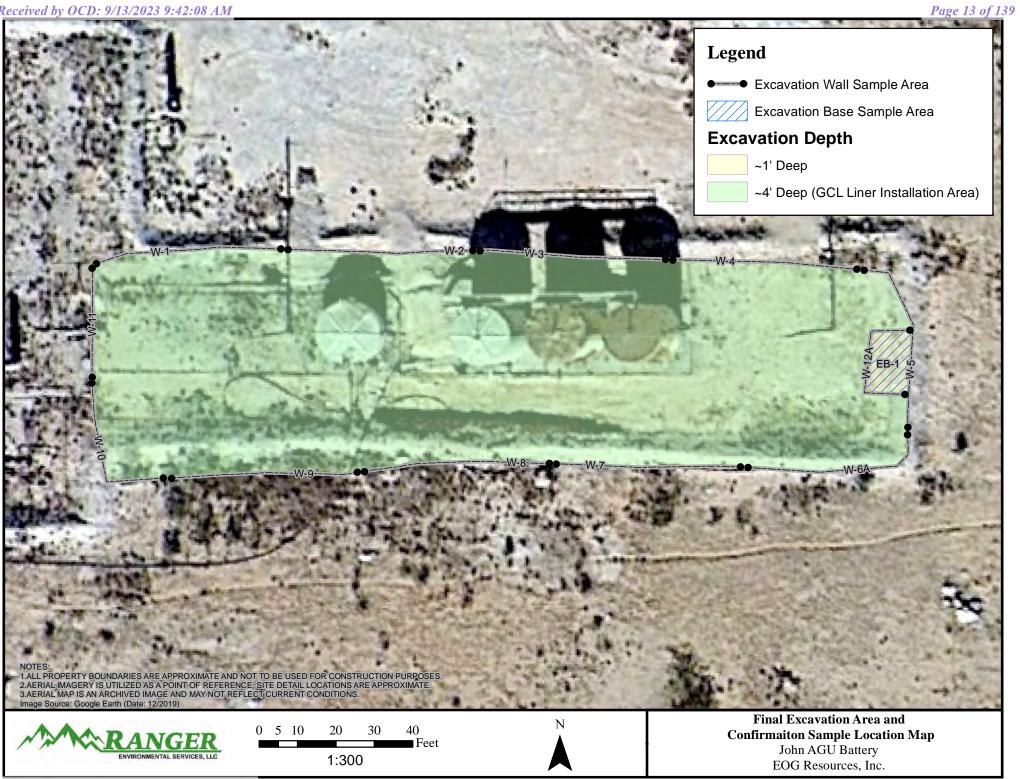
Topographic Map

Area Map

Final Excavation Area and Confirmation Sample Location Map







TABLES

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

CONFIRMATION SOIL SAMPLE BTEX (EPA 8021), TPH (SW 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA EOG RESOURCES, INC. JOHN AGU #1 BATTERY

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
Sidewall Samples													
W-1	8/21/2023	0-4'	<0.019	<0.039	<0.039	<0.078	<0.08	<3.9	<9.2	<46	<9.2	<46	240
W-2	8/21/2023	0-4'	<0.017	< 0.034	< 0.034	<0.068	< 0.07	<3.4	<8.8>	<44	<8.8	<44	<60
W-3	8/21/2023	0-4'	<0.018	< 0.037	< 0.037	< 0.073	<0.07	<3.7	<9.7	<48	<9.7	<48	200
W-4	8/21/2023	0-4'	<0.017	< 0.033	< 0.033	< 0.067	<0.07	<3.3	<9.2	<46	<9.2	<46	69
W-5	8/21/2023	0'-4'	<0.021	<0.041	<0.041	<0.083	<0.08	<4.1	<9.2	<46	<9.2	<46	68
W-6	8/21/2023	0-4'	<0.020	<0.039	<0.039	<0.079	<0.08	<3.9	<9.6	<48	<9.6	< 48	1,000
W-6A	8/30/2023	0'-4'	<0.023	<0.045	<0.045	<0.091	<0.091	<4.5	<9.1	<46	<9.1	<46	130
W-7	8/21/2023	0-4'	<0.018	< 0.035	< 0.035	<0.071	<0.07	<3.5	<9.6	<48	<9.6	<48	240
W-8	8/21/2023	0-4'	<0.020	<0.040	<0.040	< 0.079	<0.08	<4.0	<9.3	<46	<9.3	<46	<60
W-9	8/21/2023	0-4'	<0.018	<0.036	< 0.036	< 0.072	<0.07	<3.6	<9.1	<45	<9.1	<45	<60
W-10	8/21/2023	0-4'	<0.018	<0.036	< 0.036	< 0.073	<0.07	<3.6	<8.8>	<44	<8.8	<44	180
W-11	8/21/2023	0-4'	<0.017	< 0.035	< 0.035	< 0.069	< 0.07	<3.5	<10	<50	<10	<50	<60
W-12	8/21/2023	1-4'	<0.019	<0.038	<0.038	<0.076	<0.08	<3.8	<9.5	<48	<9.5	< 48	660
W-12A	8/30/2023	1-4'	<0.015	< 0.030	<0.030	<0.060	<0.06	<3.0	<9.4	<47	<9.4	<47	110
Excavation Base Sample													
EB-1	8/21/2023	1'	<0.019	<0.037	<0.037	<0.074	<0.07	<3.7	18	<45	18	18	87
19.15.29.12 NMAC Table 1 Impacted by a Release (GW Reclamatio (0'-4' Soil	10				50					100	600		

Notes:

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

ATT	TACHME	NT 1 -	SMA R	EMEDI	ATION	PLAN	8
ı	NMOCD	APPRO	VAL C	ORRES	PONDE	NCE	

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January 7, 2019

#5E25868-BG42

NMOCD District II Robert Hamlet 811 S. First St. Artesia, NM 88210

SUBJECT: Remediation Plan for the John AGU #1 Battery Release (2RP-4694), Eddy County, New Mexico

Dear Mr. Hamlet:

On behalf of EOG Resources (EOG), Souder, Miller & Associates (SMA) has prepared this Remediation Plan that describes the delineation and proposed remediation for a release of liquids related to oil and gas production activities at the John AGU#1 Battery site. The site is in Unit C, Section 14, Township 20S, Range 24E, Eddy County, New Mexico, on private land. Figure 1 illustrates the vicinity and site location on an USGS 7.5 minute quadrangle map.

Table 1 summarizes information regarding the release.

	Table 1: Release Information and Closure Criteria									
Name	John AGU #1 Battery	Company	EOG Resources							
API Number	fAB1810139472	32.57897° -104.56104°								
Incident Number		2RP-4694								
Estimated Date of Release	3/22/2018	Date Reported to NMOCD	4/6/2018							
Land Owner	Private	Reported To	NMOCD District II							
Source of Release	Discharge Line									
Released Volume	14 bbls	Released Material	Produced Water							
Recovered Volume	12 bbls	Net Release	2 bbls							
NMOCD Closure Criteria	<50 feet to groundwater									
SMA Response Dates	7/3/2018,10/17/2018, 12/18/2018, 12/20/2018									

Page 2 of 4

1.0 Background

On March 22, 2018, a release was discovered at the John AGU #1 Battery site due to a failure in the discharge line on the water pump. Initial response activities were conducted by EOG, and included the recovery of twelve (12) bbls of the released produced water. Figure 1 illustrates the site vicinity and wellhead protection area, Figure 2 illustrates surface water and other ranking criteria within a 300-foot radius in the vicinity, and Figure 3 illustrates the site and sample locations. The initial C-141 form is included in Appendix A.

2.0 Site Information and Closure Criteria

The John AGU #1 Battery is located approximately twenty-two (22) miles northwest of Carlsbad, New Mexico on privately-owned land.

As summarized in Table 2 and illustrated in Figure 1, depth to groundwater in the area is estimated to be ninety (90) feet below grade surface (bgs). There is one (1) known water source within ½-mile of the location, according to the New Mexico Office of the State Engineer (NMOSE) online water well database (https://gis.ose.state.nm.us/gisapps/ose_pod_locations/; accessed 7/2/2018). The nearest significant watercourse is a finger of the Middle Seven Rivers, located approximately 1,026 feet to the north

Based on the information presented herein, the applicable NMOCD Closure Criteria for this site is for groundwater depth of less than 50 feet bgs because of high karst. Table 2 demonstrates the Closure Criteria applicable to this location. Pertinent well data is attached in Appendix B.

3.0 Release Characterization Activities and Findings

An initial sampling event was conducted by EOG on March 27, 2018. A total of 6 sample locations (V1-V6) were investigated around the release site and throughout the visibly stained area to a maximum depth of 4 feet bgs.

On July 3, 2018, SMA personnel arrived onsite to continue the vertical delineation by collecting soil samples to a maximum depth of 10 feet bgs. A minimum of two samples were collected at each sampling location. A total of thirty-five (35) samples were collected for laboratory analysis for total chloride using EPA Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B; and motor, diesel and gasoline range organics (MRO, DRO, and GRO) by EPA Method 8015D. Table 3 itemizes the sample results as well as identifying any variances from the typical specification of two samples per boring. Locations for all samples are depicted on Figure 3. Samples were placed into laboratory supplied glassware, labeled, and maintained on ice until delivery to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico (Appendix D).

Results indicate that all sample locations have met the Closure Criteria listed in Table 2; however, in order to achieve the reclamation requirements of 19.15.29.13 NMAC, chloride concentrations must be less than 600 mg/kg in the top four feet. None of the sample locations meet these criteria at this time.

After submission of this workplan SMA received a verbal request from NMOCD District II to completely delineate the chlorides at all sample locations to 600 mg/kg as the site is in an area of high karst potential. SMA returned to the location on October 1, 2018 and December 18 and 20, 2018 to complete the request after a 48 hour sampling notice was submitted. Table 3 itemizes the additional sample results.

4.0 Proposed Soil Remediation Work Plan

In order to achieve the reclamation requirements noted above, SMA proposes excavation and the installation of a clay liner, in the area illustrated in Figure 3. The impacted area will be excavated to approximately four (4) feet bgs for reclamation. Approximately 850 cubic yards of contaminated soil are projected to be removed and replaced with clean backfill material in order to return the surface to previous

John AGU #1 Battery Remediation Plan (2RP-4694), January 7, 2019 Page 3 of 4

contours. Before liner placement and backfill, we propose the collection of confirmation samples comprised of representative wall 5-point samples based on SW-846, 2002. This would require the collection of two sidewall samples on the both the north and south boundaries of the excavation and one sidewall sample on west and east boundaries. This also meets the requirements of NMOCD's alternative method for closure sampling as there is no area of linear sidewall collected that represent over 200 square feet. The contaminated soil will be transported for disposal at Lea Land, in Eddy County, NM, an NMOCD permitted disposal facility. Upon approval by NMOCD, the projected timeline for completion of remediation activities is approximately three to five days.

5.0 Scope and Limitations

The scope of our services included: assessment sampling; verifying release stabilization, regulatory liaison, and preparing this remediation plan. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin in New Mexico.

If there are any questions regarding this report, please contact either Austin Weyant at 575-689-8801 or Shawna Chubbuck at 505-325-7535.

Submitted by: SOUDER, MILLER & ASSOCIATES

Reviewed by:

Melodie Sanjari Staff Scientist

M. Janyan

Shawna Chubbuck Senior Scientist

Shauna Chulbuck

John AGU #1 Battery Remediation Plan (2RP-4694), January 7, 2019 Page 4 of 4

ATTACHMENTS:

Figures:

Figure 1: Site Vicinity and Wellhead Protection Map

Figure 2: Surface Water Map

Figure 3: Site and Sample Location Map

Tables:

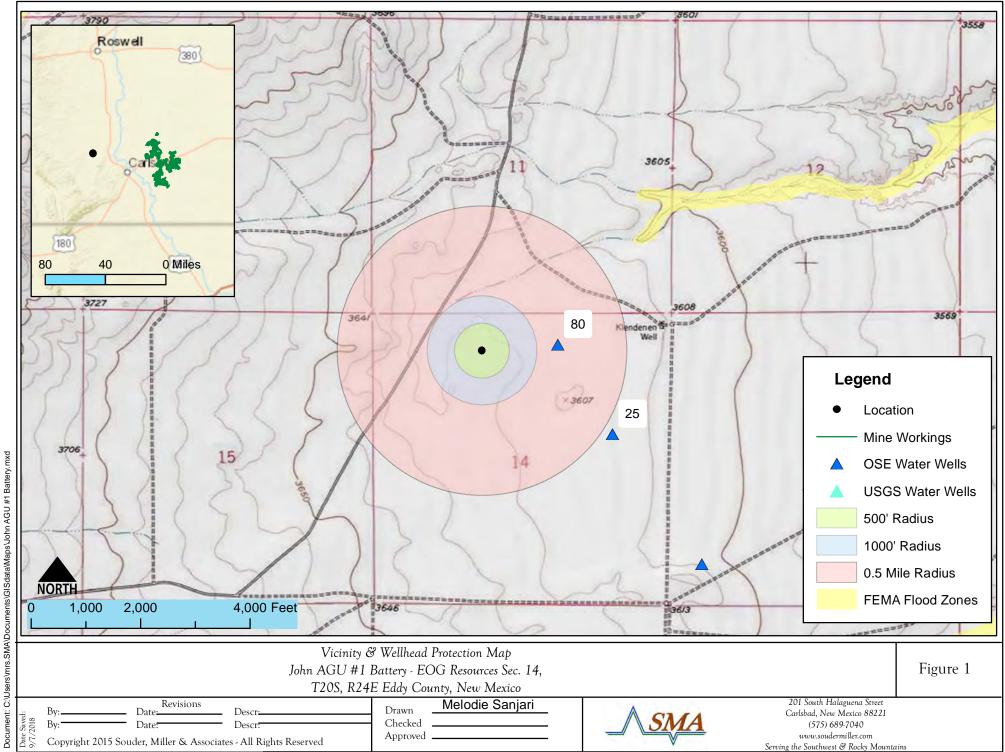
Table 2: NMOCD Closure Criteria Justification Table 3: Summary of Sample Results

Appendices:

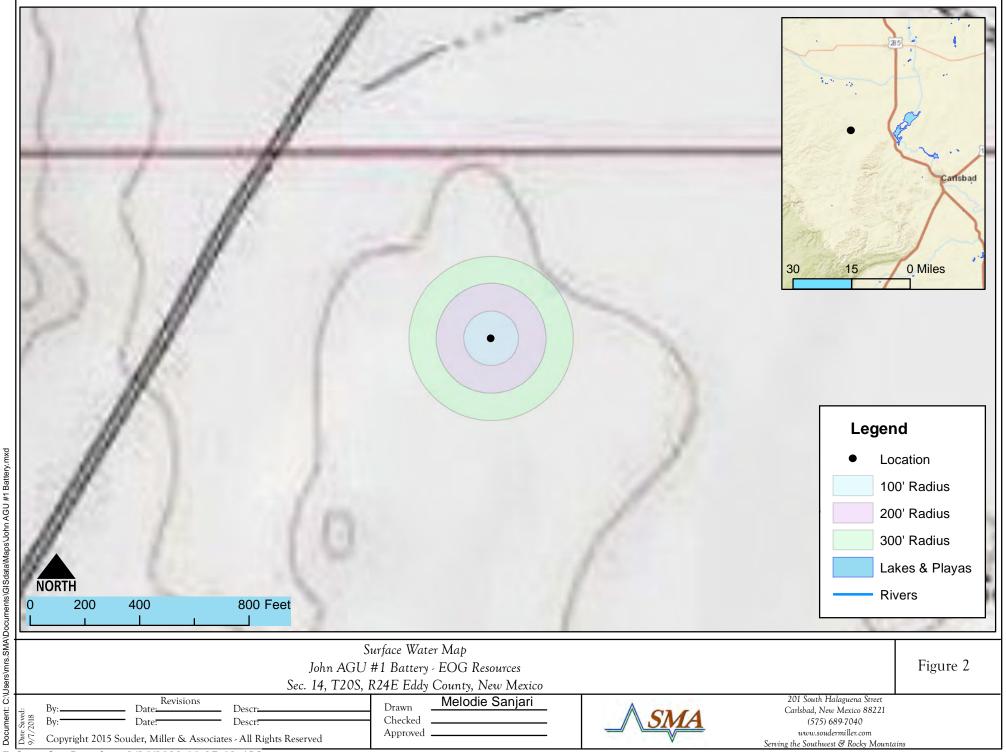
Appendix A: Form C141 Initial Appendix B: NMOSE Wells Report

Appendix C: Laboratory Analytical Reports

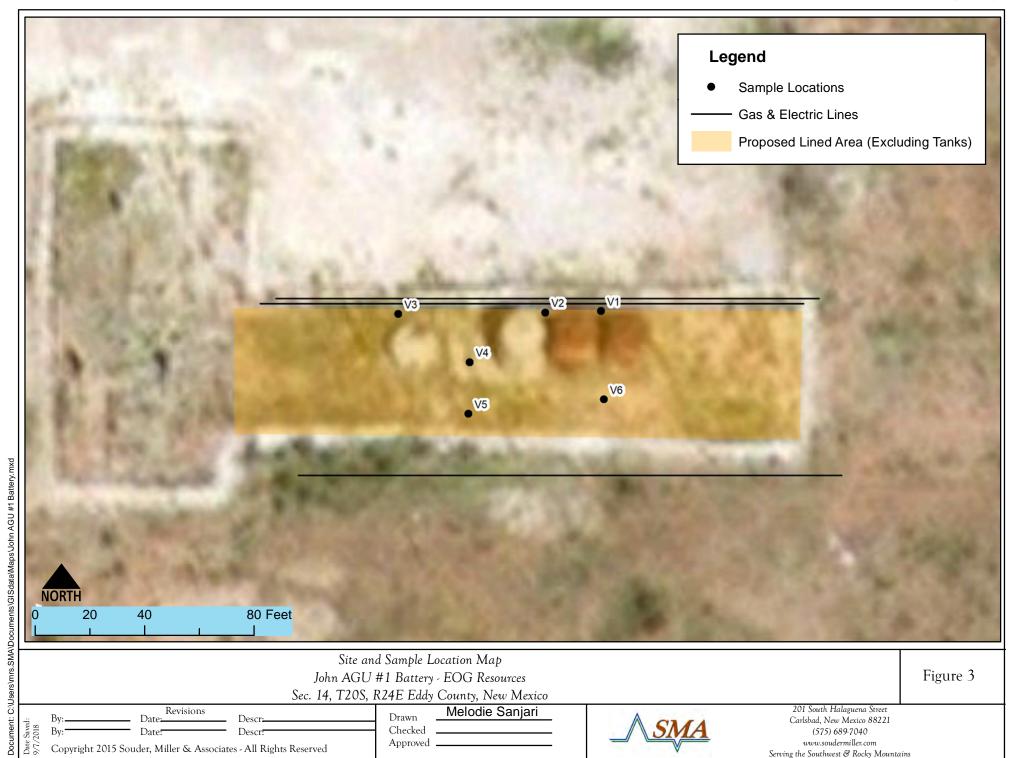
FIGURES



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Released to Imaging: 9/26/2023 11:37:13 AM

TABLES

Table 2: NMOCD Closure Criteria

Site Information (19.15.29.11.A(2, 3, and 4) NMAC	Source/Notes	
Depth to Groundwater (feet bgs)	89	OSE
Hortizontal Distance From All Water Sources Within 1/2 Mile (ft)	1,026 & 1,318	USGS 7.5 minute quadrangle map & OSE, respectively
Hortizontal Distance to Nearest Significant Watercourse (ft)	1,026	USGS 7.5 minute quadrangle map

Closure Criteria (19.15	.29.12.B(4) and	Table 1 NMAC)				
·	Closure Criteria (units in mg/kg)					
Depth to Groundwater	Chloride *numerical limit or background, whichever is greater	ТРН	GRO + DRO	ВТЕХ	Benzene	
< 50' BGS	Х	600	100		50	10
51' to 100'		10000	2500	1000	50	10
>100'		20000	2500	1000	50	10
Surface Water		if yes	s, then			
<300' from continuously flowing watercourse or other significant						
watercourse?	no					
<200' from lakebed, sinkhole or playa lake?						
Water Well or Water Source						
<500 feet from spring or a private, domestic fresh water well used by						
less than 5 households for domestic or stock watering purposes?	no					
<1000' from fresh water well or spring?	no					
Human and Other Areas		600	100		50	10
<300' from an occupied permanent residence, school, hospital, institution or church?	no	600	100		50	10
within incorporated municipal boundaries or within a defined municipal fresh water well field?	no					
<100' from wetland?						
within area overlying a subsurface mine						
within an unstable area?	tial					
within a 100-year floodplain?	no					

Table 3: John AGU #1 Battery Sample Summary

Sample Number	Sample Date	Depth	Proposed Action	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CI-
on Figure 2	Sample Date	(feet bgs)	1 Toposed Action	ppm	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	Lab mg/Kg
				50 mg/Kg	10 mg/Kg				100 mg/Kg	600 mg/kg
	3/27/2018	1	excavate	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	7460
	3/27/2018	2	excavate	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	5330
	3/27/2018	3	excavate	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	7730
V1	3/27/2018	4	excavate	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	1920
	7/3/2018	6	in-situ		-	1				720
	7/3/2018	8	in-situ		1	-				1500
	7/3/2018	8.5	in-situ	<0.207	<0.023	<4.6	<10	<50	<64.6	300
	3/27/2018	1	excavate	3.42	0.151	<10.0	<10.0	<10.0	<30.0	8000
	7/3/2018	2	excavate	-	-	-		-		6000
V2	7/3/2018	4	excavate			1				4300
٧Z	7/3/2018	6	in-situ			-		1		4000
	7/3/2018	8	in-situ	<0.207	<0.023	<4.6	9.9	<49	9.9	2400
	10/17/2018	23	in-situ							80
	3/27/2018	1	excavate	4.34	0.874	<10.0	<10.0	<10.0	<30.0	8260
V3	7/3/2018	2	excavate							8700
٧٥	7/3/2018	3	excavate							8700
	7/3/2018	4	excavate	<0.216	<0.024	<4.8	73	120	193	8600
	3/27/2018	1	excavate	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	8000
	3/27/2018	2	excavate	<0.300	<0.050	<10.0	<10.0	<10.0	<10.0	4160
	3/27/2018	3	excavate	0.731	0.353	<10.0	64.8	<10.0	64.8	9200
	7/3/2018	6	in-situ							6600
V4	7/3/2018	8	in-situ							2300
	7/3/2018	10	in-situ	<0.216	<0.024	<4.8	160	250	410	2400
	12/18/2018	18	in-situ			<10.0	<10.0	<10.0	<30	
	12/18/2018	29	in-situ			<10.0	<10.0	<10.0	<30	1310
	12/18/2018	45	in-situ							448
	3/27/2018	1	excavate	<0.300	<0.050	<10.0	18.0	10.1	28.1	3040
	3/27/2018	2	excavate	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	8530
	7/3/2018	4	excavate		-	-		-		5700
V5	7/3/2018	6	in-situ							5100
	7/3/2018	8	in-situ							6700
	7/3/2018	9	in-situ	<0.219	<0.024	<4.9	<9.0	<45	<58.9	1100
	10/17/2018	23	in-situ							96
	3/27/2018	1	excavate	0.665	0.251	<10.0	<10.0	<10.0	<30.0	11600
	3/27/2018	2	excavate	0.454	0.286	<10.0	17.7	16.2	33.9	5920
	3/27/2018	3	excavate	<0.300	<0.050	<10.0	12.3	<10	12.3	7600
	7/3/2018	4	excavate							4300
V6	7/3/2018	6	in-situ							4300
	7/3/2018	8	in-situ	-				-		2200
	7/3/2018	8.5	in-situ	<0.213	<0.024	<4.7	<9.1	<45	<58.8	2800
	12/20/2018	19	in-situ							112
	12/20/2018	29	in-situ							48

to be excavated

"--" = Not Analyzed

orange line denotes liner placement

APPENDIX A FORM C141 INITIAL

NM OIL CONSERVATION

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 ARTESIA DISTRICT

Form C-141 Revised April 3, 2017

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 APR 0 6 2018 Revised April 3, 2017
Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

RECEIVED

PABISIO139472 Release Notification and Corrective Action												
DABIS					OPE	RATOR				al Report		
Name of Co EOG Y Res	mpany			OGRID Numbe 25575	_	Contact Chase Settle						
Address 104 S. 4 th Street Artesia NM 88210						Telephone N 575-748-14	No.					
Facility Name John AGU #1 Battery						Facility Type						
Surface Ow				Mineral C		Battery			API No			
Private				Fee	71100				74114			
				LOCA	TION	OF RE	LEASE					
Unit Letter C	Section 14	Township 20S	Range 24E	Feet from the 660	North/	South Line th	Feet from the 1980		est Line	County Eddy		
				Latitude 32.57	897 Loi	ngitude -10	4.56104 NAD8	33				
				NAT	URE	OF REL	EASE					
Type of Rele Produced Wa						Volume of 14 B/PW	Release		Volume Recovered 12 B/PW			
Source of Re Discharge Li						Date and Hour of Occurrence 03/22/2018; 3:30 PM			Date and Hour of Discovery 03/22/2018; PM			
Was Immedia	ate Notice		Yes [No Not R	equired	d If YES, To Whom?						
By Whom?						Date and I	lour					
Was a Water	course Rea		Yes ∑] No		If YES, Volume Impacting the Watercourse.						
		pacted, Descr										
The state of the s		lem and Reme pump had a fa		n Taken.*								
		and Cleanup			vithin th	a harm of t	ha hattam					
The impacted area was approximately 230 feet by 10 feet within the berm of the battery. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.									eases which may endanger ieve the operator of liability r, surface water, human health compliance with any other			
Signature:	Than .	Settle				OIL CON	SERV	ATION	DIVISION			
Printed Name	e: Chase S	ettle			Approved by	Environmental S	Specialist	Ch	Her We			
Title: Rep S	afety & En	vironmental II			Approval Da	te:4/10/18	1	Expiration	pate: NIA			
E-mail Addre	ess: chase_	settle@eogre	sources.co	m		Conditions o	f Approval:	0	(Attached APP-4094		
Date: April 5, 2018 Phone: 575-748-4171 See Affacted Attached								844-4L04A				

* Attach Additional Sheets If Necessary

419118AB

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 4/6/18 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number has been assigned. Please refer to this case number in all future correspondence.

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

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

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District II office in Artesia on or before 5/6/18. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

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

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

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

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

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

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

Weaver, Crystal, EMNRD

From: Yvette Moore <Yvette_Moore@eogresources.com>

Sent: Friday, April 6, 2018 12:11 PM

To: Weaver, Crystal, EMNRD; Bratcher, Mike, EMNRD

Cc: Bob Asher; Chase Settle
Subject: John AGU Battery C-141

Attachments: John AGU Battery_032618_Initial.pdf

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

John AGU #1 Battery 660' FNL & 1980' FWL Section 14, T20S-R24E Eddy County, New Mexico

Thanks,



Yvette Moore

Rep Safety & Environmental II Safety & Environmental Department Artesia Division (575)748-4223 yvette_moore@eogresources.com

APPENDIX B NMOSE WELLS REPORT



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

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (R=POD has been replaced, O=orphaned, C=the file is

closed)

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

,	POD		_	_									
POD Number	Sub- Code basin County	_	Q 16		Sec	Tws	Rna	х	Υ	Distance	-	Depth Water	Water Column
RA 05146	ED						24E	541600	3604734*	401	300	80	220
RA 02906 CLW	СН	3	4	2	14	20S	24E	541907	3604238*	843	145	25	120
RA 04742	ED		3	3	13	20S	24E	542408	3603517* 🌍	1689	300		
RA 07771	ED	4	1	4	22	20S	24E	540073	3602194*	2745			
RA 05424	ED	4	2	3	22	20S	24E	539669	3602194* 🌍	2934	1000	400	600
RA 03085	СН			1	01	20S	24E	542613	3607799* 🌑	3407	465	300	165
RA 03084	ED			1	03	20S	24E	539366	3607752* 🎒	3562	330	268	62
RA 10139	ED	3	3	2	21	20S	24E	538285	3602597*	3592	308		
RA 04245	ED		4	4	35	19S	24E	542005	3608363* 🌍	3752	300		
RA 05284	ED		1	2	01	20S	24E	543220	3607973* 🎒	3847	282	273	9
RA 04956	ED		1	1	21	20S	24E	537605	3603101* 🎒	3933	1013		
RA 04502	ED		2	2	25	20S	24E	543656	3601480*	4048	300	268	32
RA 04502 REPAR	ED		2	2	25	20S	24E	543656	3601480* 🌍	4048	275	268	7
RA 05723	ED		3	3	34	19S	24E	539170	3608353*	4180	310	270	40
RA 02775	СН	1	4	3	21	20S	24E	537899	3601986* 🎒	4271	140	31	109
RA 10140	ED	2	1	1	35	20S	24E	540938	3599981*	4724	295		
RA 03265	ED	1	2	3	80	20S	25E	545972	3605636*	4863	150		
RA 05478	ED	3	2	3	80	20S	24E	536272	3605389*	4975	550	500	50

Average Depth to Water:

243 feet

Minimum Depth:

25 feet

Maximum Depth:

500 feet

Record Count: 18

UTMNAD83 Radius Search (in meters):

Easting (X): 541199.63 **Northing (Y):** 3604698 **Radius:** 5000

*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.

7/2/18 12:20 PM Page 1 of 1 WATER COLUMN/ AVERAGE

APPENDIX C LABORATORY ANALYTICAL REPORTS



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

April 06, 2018

CHASE SETTLE
EOG Y RESOURCES, INC
105 SOUTH 4TH STREET
ARTESIA, NM 88210

RE: JOHN AGU BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 03/28/18 14:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Celey D. Keene

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received: 03/28/2018
Reported: 04/06/2018

Project Name: JOHN AGU BATTERY
Project Number: NONE GIVEN

Project Location: JOHN AGU BATTERY

Sampling Date: 03/27/2018

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: V1 - 1' (H800879-01)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2018	ND	1.98	98.9	2.00	1.09	
Toluene*	<0.050	0.050	04/02/2018	ND	1.98	98.9	2.00	0.657	
Ethylbenzene*	<0.050	0.050	04/02/2018	ND	1.95	97.7	2.00	0.566	
Total Xylenes*	<0.150	0.150	04/02/2018	ND	6.04	101	6.00	0.461	
Total BTEX	<0.300	0.300	04/02/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 72-148	?						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7460	16.0	04/02/2018	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2018	ND	198	99.0	200	2.19	
DRO >C10-C28*	<10.0	10.0	04/04/2018	ND	208	104	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	04/04/2018	ND					
Surrogate: 1-Chlorooctane	88.3	% 41-142)						
Surrogate: 1-Chlorooctadecane	72.8	% 37.6-14	7						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg & Freene



03/27/2018

Analytical Results For:

EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received: 03/28/2018 Sampling Date:

Reported: 04/06/2018 Sampling Type: Soil

Project Name: JOHN AGU BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: JOHN AGU BATTERY

ma/ka

Sample ID: V1 - 2' (H800879-02)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2018	ND	1.98	98.9	2.00	1.09	
Toluene*	<0.050	0.050	04/02/2018	ND	1.98	98.9	2.00	0.657	
Ethylbenzene*	<0.050	0.050	04/02/2018	ND	1.95	97.7	2.00	0.566	
Total Xylenes*	<0.150	0.150	04/02/2018	ND	6.04	101	6.00	0.461	
Total BTEX	<0.300	0.300	04/02/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 72-148							
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5330	16.0	04/02/2018	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2018	ND	198	99.0	200	2.19	
DRO >C10-C28*	<10.0	10.0	04/04/2018	ND	208	104	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	04/04/2018	ND					
Surrogate: 1-Chlorooctane	94.0	% 41-142							
Surrogate: 1-Chlorooctadecane	82.8	% 37.6-147	7						

Cardinal Laboratories

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

*=Accredited Analyte



03/27/2018

Soil

Analytical Results For:

EOG Y RESOURCES, INC **CHASE SETTLE** 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received: 03/28/2018

Sampling Date: Reported: 04/06/2018 Sampling Type:

Project Name: JOHN AGU BATTERY Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Tamara Oldaker

Project Location: JOHN AGU BATTERY

Sample ID: V1 - 3' (H800879-03)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2018	ND	1.98	98.9	2.00	1.09	
Toluene*	<0.050	0.050	04/02/2018	ND	1.98	98.9	2.00	0.657	
Ethylbenzene*	<0.050	0.050	04/02/2018	ND	1.95	97.7	2.00	0.566	
Total Xylenes*	<0.150	0.150	04/02/2018	ND	6.04	101	6.00	0.461	
Total BTEX	<0.300	0.300	04/02/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 72-148							
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7730	16.0	04/02/2018	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/06/2018	ND	236	118	200	4.81	
DRO >C10-C28*	<10.0	10.0	04/06/2018	ND	211	105	200	5.19	
EXT DRO >C28-C36	<10.0	10.0	04/06/2018	ND					
Surrogate: 1-Chlorooctane	84.7	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	76.4	% 37.6-14	7						

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Keene



Analytical Results For:

EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received: 03/28/2018 Sampling Date: 03/27/2018

Reported: 04/06/2018 Sampling Type: Soil
Project Name: JOHN AGU BATTERY Sampling Condition: Cool

Project Name: JOHN AGU BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: JOHN AGU BATTERY

ma/ka

Sample ID: V1 - 4' (H800879-04)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2018	ND	1.98	98.9	2.00	1.09	
Toluene*	<0.050	0.050	04/02/2018	ND	1.98	98.9	2.00	0.657	
Ethylbenzene*	<0.050	0.050	04/02/2018	ND	1.95	97.7	2.00	0.566	
Total Xylenes*	<0.150	0.150	04/02/2018	ND	6.04	101	6.00	0.461	
Total BTEX	<0.300	0.300	04/02/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 72-148	,						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1920	16.0	04/02/2018	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/06/2018	ND	236	118	200	4.81	
DRO >C10-C28*	<10.0	10.0	04/06/2018	ND	211	105	200	5.19	
EXT DRO >C28-C36	<10.0	10.0	04/06/2018	ND					
Surrogate: 1-Chlorooctane	89.3	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	87.8	% 37.6-14	7						

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Analytical Results For:

EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

 Received:
 03/28/2018
 Sampling Date:
 03/27/2018

 Reported:
 04/06/2018
 Sampling Type:
 Soil

Project Name: JOHN AGU BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: JOHN AGU BATTERY

Sample ID: V2 - 1' (H800879-05)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.151	0.100	04/03/2018	ND	1.98	98.9	2.00	1.09	
Toluene*	0.938	0.100	04/03/2018	ND	1.98	98.9	2.00	0.657	
Ethylbenzene*	0.323	0.100	04/03/2018	ND	1.95	97.7	2.00	0.566	
Total Xylenes*	2.01	0.300	04/03/2018	ND	6.04	101	6.00	0.461	
Total BTEX	3.42	0.600	04/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 72-148	}						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8000	16.0	04/02/2018	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/06/2018	ND	236	118	200	4.81	
DRO >C10-C28*	<10.0	10.0	04/06/2018	ND	211	105	200	5.19	
EXT DRO >C28-C36	<10.0	10.0	04/06/2018	ND					
Surrogate: 1-Chlorooctane	84.2	% 41-142	?						
Surrogate: 1-Chlorooctadecane	83.7	% 37.6-14	7						

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Celeg D. Freene

Celey D. Keene, Lab Director/Quality Manager

*=Accredited Analyte



Analytical Results For:

EOG Y RESOURCES, INC **CHASE SETTLE** 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received: 03/28/2018 Sampling Date: 03/27/2018 Reported: 04/06/2018 Sampling Type: Soil

Project Name: JOHN AGU BATTERY Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: JOHN AGU BATTERY

Sample ID: V3 - 1' (H800879-06)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.874	0.500	04/03/2018	ND	1.98	98.9	2.00	1.09	
Toluene*	3.46	0.500	04/03/2018	ND	1.98	98.9	2.00	0.657	
Ethylbenzene*	<0.500	0.500	04/03/2018	ND	1.95	97.7	2.00	0.566	
Total Xylenes*	<1.50	1.50	04/03/2018	ND	6.04	101	6.00	0.461	
Total BTEX	4.34	3.00	04/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.9	% 72-148	}						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8260	16.0	04/02/2018	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/06/2018	ND	236	118	200	4.81	
DRO >C10-C28*	<10.0	10.0	04/06/2018	ND	211	105	200	5.19	
EXT DRO >C28-C36	<10.0	10.0	04/06/2018	ND					
Surrogate: 1-Chlorooctane	76.9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	75.1	% 37.6-14	7						

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Analytical Results For:

EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

ma/ka

 Received:
 03/28/2018
 Sampling Date:
 03/27/2018

 Reported:
 04/06/2018
 Sampling Type:
 Soil

Project Name: JOHN AGU BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: JOHN AGU BATTERY

Sample ID: V4 - 1' (H800879-07)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/03/2018	ND	1.98	98.9	2.00	1.09	
Toluene*	0.052	0.050	04/03/2018	ND	1.98	98.9	2.00	0.657	
Ethylbenzene*	<0.050	0.050	04/03/2018	ND	1.95	97.7	2.00	0.566	
Total Xylenes*	<0.150	0.150	04/03/2018	ND	6.04	101	6.00	0.461	
Total BTEX	<0.300	0.300	04/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 72-148							
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8000	16.0	04/02/2018	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/06/2018	ND	236	118	200	4.81	
DRO >C10-C28*	<10.0	10.0	04/06/2018	ND	211	105	200	5.19	
EXT DRO >C28-C36	<10.0	10.0	04/06/2018	ND					
Surrogate: 1-Chlorooctane	88.5	% 41-142							
Surrogate: 1-Chlorooctadecane	81.0	% 37.6-147	7						

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Celey D. Keene



Analytical Results For:

EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

 Received:
 03/28/2018
 Sampling Date:
 03/27/2018

 Reported:
 04/06/2018
 Sampling Type:
 Soil

Project Name: JOHN AGU BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: JOHN AGU BATTERY

Sample ID: V4 - 2' (H800879-08)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/03/2018	ND	2.04	102	2.00	2.98	
Toluene*	<0.050	0.050	04/03/2018	ND	2.04	102	2.00	3.12	
Ethylbenzene*	<0.050	0.050	04/03/2018	ND	2.04	102	2.00	2.49	
Total Xylenes*	<0.150	0.150	04/03/2018	ND	6.34	106	6.00	2.24	
Total BTEX	<0.300	0.300	04/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 72-148	}						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4160	16.0	04/03/2018	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/06/2018	ND	236	118	200	4.81	
DRO >C10-C28*	<10.0	10.0	04/06/2018	ND	211	105	200	5.19	
EXT DRO >C28-C36	<10.0	10.0	04/06/2018	ND					
Surrogate: 1-Chlorooctane	86.9	% 41-142	•						
Surrogate: 1-Chlorooctadecane	85.0	% 37.6-14	7						

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Analytical Results For:

EOG Y RESOURCES, INC **CHASE SETTLE** 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received: 03/28/2018 Reported: 04/06/2018

Project Name: JOHN AGU BATTERY Project Number: NONE GIVEN

Project Location: JOHN AGU BATTERY Sampling Date: 03/27/2018

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: V4 - 3' (H800879-09)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.353	0.050	04/03/2018	ND	2.04	102	2.00	2.98	
Toluene*	0.378	0.050	04/03/2018	ND	2.04	102	2.00	3.12	
Ethylbenzene*	<0.050	0.050	04/03/2018	ND	2.04	102	2.00	2.49	
Total Xylenes*	<0.150	0.150	04/03/2018	ND	6.34	106	6.00	2.24	
Total BTEX	0.731	0.300	04/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.4	% 72-148							
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9200	16.0	04/03/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/06/2018	ND	236	118	200	4.81	
DRO >C10-C28*	64.8	10.0	04/06/2018	ND	211	105	200	5.19	
EXT DRO >C28-C36	<10.0	10.0	04/06/2018	ND					
Surrogate: 1-Chlorooctane	81.6	% 41-142							
Surrogate: 1-Chlorooctadecane	87.4	% 37.6-14	7						

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Analytical Results For:

EOG Y RESOURCES, INC **CHASE SETTLE** 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received: 03/28/2018 Sampling Date: 03/27/2018

Reported: 04/06/2018 Sampling Type: Soil Project Name: JOHN AGU BATTERY Sampling Condition: Cool & Intact

Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: JOHN AGU BATTERY

Sample ID: V4 - 4' (H800879-10)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/03/2018	ND	2.04	102	2.00	2.98	
Toluene*	<0.050	0.050	04/03/2018	ND	2.04	102	2.00	3.12	
Ethylbenzene*	<0.050	0.050	04/03/2018	ND	2.04	102	2.00	2.49	
Total Xylenes*	<0.150	0.150	04/03/2018	ND	6.34	106	6.00	2.24	
Total BTEX	<0.300	0.300	04/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	72-148							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7120	16.0	04/03/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/06/2018	ND	236	118	200	4.81	
DRO >C10-C28*	229	10.0	04/06/2018	ND	211	105	200	5.19	
EXT DRO >C28-C36	74.1	10.0	04/06/2018	ND					
Surrogate: 1-Chlorooctane	81.5	% 41-142							
Surrogate: 1-Chlorooctadecane	92.5	% 37.6-14	7						

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Analytical Results For:

EOG Y RESOURCES, INC **CHASE SETTLE** 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received: 03/28/2018 Sampling Date: 03/27/2018

Reported: 04/06/2018 Sampling Type: Soil

Project Name: JOHN AGU BATTERY Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: JOHN AGU BATTERY

Sample ID: V5 - 1' (H800879-11)

BTEX 8021B	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/03/2018	ND	2.04	102	2.00	2.98	
Toluene*	<0.050	0.050	04/03/2018	ND	2.04	102	2.00	3.12	
Ethylbenzene*	< 0.050	0.050	04/03/2018	ND	2.04	102	2.00	2.49	
Total Xylenes*	<0.150	0.150	04/03/2018	ND	6.34	106	6.00	2.24	
Total BTEX	<0.300	0.300	04/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	6 72-148							
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3040	16.0	04/03/2018	ND	448	112	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/06/2018	ND	236	118	200	4.81	
DRO >C10-C28*	18.0	10.0	04/06/2018	ND	211	105	200	5.19	
EXT DRO >C28-C36	10.1	10.0	04/06/2018	ND					
Surrogate: 1-Chlorooctane	81.2	% 41-142							
Surrogate: 1-Chlorooctadecane	83.2	% 37.6-14	7						

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Analytical Results For:

EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

02/20/2010

ma/ka

 Received:
 03/28/2018
 Sampling Date:
 03/27/2018

 Reported:
 04/06/2018
 Sampling Type:
 Soil

Project Name: JOHN AGU BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: JOHN AGU BATTERY

Sample ID: V5 - 2' (H800879-12)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/03/2018	ND	2.04	102	2.00	2.98	
Toluene*	<0.050	0.050	04/03/2018	ND	2.04	102	2.00	3.12	
Ethylbenzene*	<0.050	0.050	04/03/2018	ND	2.04	102	2.00	2.49	
Total Xylenes*	<0.150	0.150	04/03/2018	ND	6.34	106	6.00	2.24	
Total BTEX	<0.300	0.300	04/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 72-148							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8530	16.0	04/03/2018	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/06/2018	ND	236	118	200	4.81	
DRO >C10-C28*	<10.0	10.0	04/06/2018	ND	211	105	200	5.19	
EXT DRO >C28-C36	<10.0	10.0	04/06/2018	ND					
Surrogate: 1-Chlorooctane	82.1	% 41-142							
Surrogate: 1-Chlorooctadecane	75.8	% 37.6-147	7						

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Celey D. Keine



Analytical Results For:

EOG Y RESOURCES, INC **CHASE SETTLE** 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received: 03/28/2018 Sampling Date:

ma/ka

03/27/2018 Reported: 04/06/2018 Sampling Type: Soil

Project Name: JOHN AGU BATTERY Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Tamara Oldaker

Applyzod By: MC

Project Location: JOHN AGU BATTERY

Sample ID: V6 - 1' (H800879-13)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.251	0.050	04/03/2018	ND	2.04	102	2.00	2.98	
Toluene*	0.414	0.050	04/03/2018	ND	2.04	102	2.00	3.12	
Ethylbenzene*	<0.050	0.050	04/03/2018	ND	2.04	102	2.00	2.49	
Total Xylenes*	<0.150	0.150	04/03/2018	ND	6.34	106	6.00	2.24	
Total BTEX	0.665	0.300	04/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 72-148							
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11600	16.0	04/03/2018	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/06/2018	ND	236	118	200	4.81	
DRO >C10-C28*	<10.0	10.0	04/06/2018	ND	211	105	200	5.19	
EXT DRO >C28-C36	<10.0	10.0	04/06/2018	ND					
Surrogate: 1-Chlorooctane	86.3	% 41-142							
Surrogate: 1-Chlorooctadecane	84.6	% 37.6-14	7						

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Celeg D. Freene



03/27/2018

Sampling Date:

Analytical Results For:

EOG Y RESOURCES, INC **CHASE SETTLE** 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received: 03/28/2018 Reported: 04/06/2018

Sampling Type: Soil Project Name: JOHN AGU BATTERY Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: JOHN AGU BATTERY

Sample ID: V6 - 2' (H800879-14)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.286	0.050	04/03/2018	ND	2.04	102	2.00	2.98	
Toluene*	0.168	0.050	04/03/2018	ND	2.04	102	2.00	3.12	
Ethylbenzene*	< 0.050	0.050	04/03/2018	ND	2.04	102	2.00	2.49	
Total Xylenes*	< 0.150	0.150	04/03/2018	ND	6.34	106	6.00	2.24	
Total BTEX	0.454	0.300	04/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 72-148							
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5920	16.0	04/03/2018	ND	448	112	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/06/2018	ND	236	118	200	4.81	
DRO >C10-C28*	17.7	10.0	04/06/2018	ND	211	105	200	5.19	
EXT DRO >C28-C36	16.2	10.0	04/06/2018	ND					
Surrogate: 1-Chlorooctane	83.2	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	82.8	% 37.6-14	7						

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03/27/2018

Analytical Results For:

EOG Y RESOURCES, INC **CHASE SETTLE** 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received: 03/28/2018 Sampling Date:

Reported: 04/06/2018 Sampling Type: Soil

Project Name: JOHN AGU BATTERY Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: JOHN AGU BATTERY

Sample ID: V6 - 3' (H800879-15)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/03/2018	ND	2.04	102	2.00	2.98	
Toluene*	<0.050	0.050	04/03/2018	ND	2.04	102	2.00	3.12	
Ethylbenzene*	<0.050	0.050	04/03/2018	ND	2.04	102	2.00	2.49	
Total Xylenes*	<0.150	0.150	04/03/2018	ND	6.34	106	6.00	2.24	
Total BTEX	<0.300	0.300	04/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 5	% 72-148							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7600	16.0	04/03/2018	ND	448	112	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/06/2018	ND	236	118	200	4.81	
DRO >C10-C28*	12.3	10.0	04/06/2018	ND	211	105	200	5.19	
EXT DRO >C28-C36	<10.0	10.0	04/06/2018	ND					
Surrogate: 1-Chlorooctane	80.6	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	80.3	% 37.6-14	7						

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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

Recei	ed by elinquished by:	OCD	9/13/	pecial	23	9:42 _S	2:08 ∞0		6	0	4	W	2	_	LAB # (lab use only)		ORDER #:		(lab use only)						
ned by:	hed by:		had hu	Instructions:	V4-4'	9:42 9 V4-3'	V4-2'	V4-1'	V3-1'	V2-1'	V1-4'	V1-3'	V1-2'	V1-1'	71	1000	R# Proces	- mj/	only)	Sampler Signature:	Telephone No:	City/State/Zip:	Company Address:	Company Name	Project Manager:
C a 6	Date	3/28/		TPH EXTENDED NEEDED											FIELD CODE	+	0			re:	575-748-4171	Artesia, NM 88210	ss: 105 South 4th Street	EOG Y Resources Inc.	Chase Settle
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emp	Sample Hand Delivered by Sampler/Client Rep by Courier? UPS	Labels on container(s) Custody seals on container(s) Custody seals on cooler(s)	Sample Containers Intact? VOCs Free of Headspace?	-	+	+									Anions (CI, SO4, Alkalinity)		-		L		×		55	.# 	is.
Temperature Upon Receipt	nple Hand Delivered by Sampler/Client Rep. ? by Courier? UPS	dy so	le Co		+										SAR / ESP / CEC	Ŧ	TOTAL:	TCLP:			x Standard	205-0750			
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<u>ceip</u>	S b d	ainer er(s)	act?	? ×	< >	× >	×	×	×	×	×	×	×	×	BTEX: 8021B				For:	1	П		ın A		In A
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	Page 19 of 19
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Page 54 of 139

ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Name:

John AGU Battery

Project Loc:

John AGU

Project #:

Project Manager:

Chase Settle EOG Y Resources Inc.

Company Name

Artesia, NM 88210

City/State/Zip:

Company Address:

105 South 4th Street

575-748-4171

Telephone No:

Sampler Signature:

ORDER #: (lab use only)

.AB # (lab use only)

N

FIELD CODE

Beginning Depth

Ending Depth

Date Sampled

Time Sampled

Field Filtered Total #. of Containers

HNO₃

NaOH Na₂S₂O₃

None

×

Other (Specify) DW=Drinking Water SL=Sludge

GW = Groundwater S=Soil/Solid

NP=Non-Potable Specify Other

TX 1005

Cations (Ca, Mg, Na, K)

SAR / ESP / CEC

Volatiles

RCI N.O.R.M.

Chlorides

Standard TAT

SAR

Semivolatiles

BTEX: 8021B

Anions (CI, SO4, Alkalinity)

Metals: As Ag Ba Cd Cr Pb Hg Se

RUSH TAT (Pre-Schedule) 24, 48, 72 hrs

8015B EXTENDED

TX 1006

TOTAL: TCLP:

Analyze For:

HCI H₂SO₄

3/27/2018

:35 PM :37 PM

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V6-3 V6-2 V6-1 V5-2' V5-1'

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1:45 PM

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3/27/2018 3/27/2018

1:41 :43 PM

PM

Fax No:

e-mail:

Chase Settle@eogresources.com

Report Forma

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PO #: 205-0750

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Received by 9/13/25pecial Instructions:

OCD: 9/13/25pecial Instructions:

PH EXTENDED NEEDED

31/82/2

11:30

3-28-18

2:10

Labels on container(s)
Custody seals on container(s)
Custody seals on cooler(s)

ZZZZZZ

Sample Containers Intact? VOCs Free of Headspace?

Laboratory Comments:

Time

Date

Time

Sample Hand Delivered
by Sampler/Client Rep. ?
by Courier? UPS

Temperature Upon Receipt: 4.02 C.

Time

Date

Time

Date

Time

Received by ELOT:



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

July 25, 2018

Austin Weyant Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: (575) 689-7040

FAX

RE: John AGU Battery

OrderNo.: 1807276

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 21 sample(s) on 7/7/2018 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued July 18, 2018.

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order **1807276**Date Reported: **7/25/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: V1-6

 Project:
 John AGU Battery
 Collection Date: 7/3/2018 10:57:00 AM

 Lab ID:
 1807276-001
 Matrix: SOIL
 Received Date: 7/7/2018 10:50:00 AM

Analyses	Result	PQL Qu	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS Analyst: MRA				st: MRA		
Chloride	720	30	mg/Kg	20	7/13/2018 4:28:57 PM	A 39196

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

Qualifiers: Value exceeds Maximum Contaminant Level. Analyte detected in the associated Method Blank D Sample Diluted Due to Matrix Е Value above quantitation range Analyte detected below quantitation limits Page 1 of 26 Н Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P Sample pH Not In Range PQL Practical Quanitative Limit RL Reporting Detection Limit

S % Recovery outside of range due to dilution or matrix W Sample container temperature is out of limit as specified

Date Reported: 7/25/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Project: John AGU Battery

Lab ID: 1807276-002

Client Sample ID: V1-8

Collection Date: 7/3/2018 11:03:00 AM

Received Date: 7/7/2018 10:50:00 AM

Analyses	Result	PQL Qua	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: MRA
Chloride	1500	75	mg/Kg	50	7/16/2018 7:01:25 AN	1 39196

Matrix: SOIL

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

- * 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 Page 2 of 26
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report

Lab Order **1807276**Date Reported: **7/25/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: V1-8.5

 Project:
 John AGU Battery
 Collection Date: 7/3/2018 11:15:00 AM

 Lab ID:
 1807276-003
 Matrix: SOLID
 Received Date: 7/7/2018 10:50:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	300	30	mg/Kg	20	7/13/2018 4:53:45 PM	39196
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: Irm
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	7/11/2018 12:12:12 PM	39125
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	7/11/2018 12:12:12 PM	39125
Surr: DNOP	89.2	70-130	%Rec	1	7/11/2018 12:12:12 PM	39125
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	7/10/2018 5:48:26 PM	39103
Surr: BFB	95.7	15-316	%Rec	1	7/10/2018 5:48:26 PM	39103
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Methyl tert-butyl ether (MTBE)	ND	0.092	mg/Kg	1	7/10/2018 5:48:26 PM	39103
Benzene	ND	0.023	mg/Kg	1	7/10/2018 5:48:26 PM	39103
Toluene	ND	0.046	mg/Kg	1	7/10/2018 5:48:26 PM	39103
Ethylbenzene	ND	0.046	mg/Kg	1	7/10/2018 5:48:26 PM	39103
Xylenes, Total	ND	0.092	mg/Kg	1	7/10/2018 5:48:26 PM	39103
Surr: 4-Bromofluorobenzene	108	80-120	%Rec	1	7/10/2018 5:48:26 PM	39103

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

- 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 Page 3 of 26
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 7/25/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: V2-2

 Project:
 John AGU Battery
 Collection Date: 7/3/2018 11:31:00 AM

 Lab ID:
 1807276-004
 Matrix: SOIL
 Received Date: 7/7/2018 10:50:00 AM

Analyses	Result	PQL Q	ual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: MRA
Chloride	6000	300	mg/Kg	200 7/16/2018 7:13:49 AM	Л 39196

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 Page 4 of 26

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

CLIENT: Souder, Miller & Associates

Analytical Report

Lab Order **1807276**Date Reported: **7/25/2018**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: V2-4

 Project:
 John AGU Battery
 Collection Date: 7/3/2018 11:38:00 AM

 Lab ID:
 1807276-005
 Matrix: SOIL
 Received Date: 7/7/2018 10:50:00 AM

 Analyses
 Result
 PQL
 Qual
 Units
 DF
 Date Analyzed
 Batch

 EPA METHOD 300.0: ANIONS
 Analyst: MRA

 Chloride
 4300
 300
 mg/Kg
 200 7/16/2018 7:26:13 AM
 39196

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

- * 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 Page 5 of 26
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 7/25/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Project: John AGU Battery

Lab ID: 1807276-006

Client Sample ID: V2-6

Collection Date: 7/3/2018 11:47:00 AM

Received Date: 7/7/2018 10:50:00 AM

Analyses	Result	PQL Q	ual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: MRA
Chloride	4000	150	mg/Kg	100 7/16/2018 7:38:37 AM	Л 39196

Matrix: SOIL

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

- * 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 Page 6 of 26
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report

Lab Order **1807276**Date Reported: **7/25/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: V2-8

 Project:
 John AGU Battery
 Collection Date: 7/3/2018 11:59:00 AM

 Lab ID:
 1807276-007
 Matrix: SOLID
 Received Date: 7/7/2018 10:50:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	2400	75	mg/Kg	50	7/16/2018 7:51:02 AM	39196
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst	: Irm
Diesel Range Organics (DRO)	9.9	9.8	mg/Kg	1	7/11/2018 1:26:21 PM	39125
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/11/2018 1:26:21 PM	39125
Surr: DNOP	93.0	70-130	%Rec	1	7/11/2018 1:26:21 PM	39125
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	7/10/2018 6:12:02 PM	39103
Surr: BFB	97.2	15-316	%Rec	1	7/10/2018 6:12:02 PM	39103
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.092	mg/Kg	1	7/10/2018 6:12:02 PM	39103
Benzene	ND	0.023	mg/Kg	1	7/10/2018 6:12:02 PM	39103
Toluene	ND	0.046	mg/Kg	1	7/10/2018 6:12:02 PM	39103
Ethylbenzene	ND	0.046	mg/Kg	1	7/10/2018 6:12:02 PM	39103
Xylenes, Total	ND	0.092	mg/Kg	1	7/10/2018 6:12:02 PM	39103
Surr: 4-Bromofluorobenzene	106	80-120	%Rec	1	7/10/2018 6:12:02 PM	39103

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

- * 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 Page 7 of 26
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 7/25/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Project: John AGU Battery

Lab ID: 1807276-008

Client Sample ID: V3-2

Collection Date: 7/3/2018 1:30:00 PM

Received Date: 7/7/2018 10:50:00 AM

Analyses	Result	PQL Q	ual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: MRA
Chloride	8700	300	mg/Kg	200 7/16/2018 8:03:27 AM	1 39196

Matrix: SOIL

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

- * 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 Page 8 of 26
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 7/25/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Project: John AGU Battery

Lab ID: 1807276-009

Client Sample ID: V3-3

Collection Date: 7/3/2018 1:45:00 PM

Received Date: 7/7/2018 10:50:00 AM

Analyses	Result	PQL Qı	ual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: MRA
Chloride	8700	750	mg/Kg	500 7/16/2018 8:15:51 AM	A 39196

Matrix: SOIL

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

- * 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 Page 9 of 26
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 7/25/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: V3-4

Project: John AGU Battery **Collection Date:** 7/3/2018 1:55:00 PM Lab ID: 1807276-010 Matrix: SOIL Received Date: 7/7/2018 10:50:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	8600	750	mg/Kg	500	7/16/2018 8:28:16 AM	39196
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst	: Irm
Diesel Range Organics (DRO)	73	10	mg/Kg	1	7/11/2018 1:51:14 PM	39125
Motor Oil Range Organics (MRO)	120	50	mg/Kg	1	7/11/2018 1:51:14 PM	39125
Surr: DNOP	106	70-130	%Rec	1	7/11/2018 1:51:14 PM	39125
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/10/2018 6:35:42 PM	39103
Surr: BFB	97.5	15-316	%Rec	1	7/10/2018 6:35:42 PM	39103
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.096	mg/Kg	1	7/10/2018 6:35:42 PM	39103
Benzene	ND	0.024	mg/Kg	1	7/10/2018 6:35:42 PM	39103
Toluene	ND	0.048	mg/Kg	1	7/10/2018 6:35:42 PM	39103
Ethylbenzene	ND	0.048	mg/Kg	1	7/10/2018 6:35:42 PM	39103
Xylenes, Total	ND	0.096	mg/Kg	1	7/10/2018 6:35:42 PM	39103
Surr: 4-Bromofluorobenzene	107	80-120	%Rec	1	7/10/2018 6:35:42 PM	39103

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 10 of 26 J
- P Sample pH Not In Range
- RLReporting Detection Limit
- Sample container temperature is out of limit as specified

Date Reported: 7/25/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Project: John AGU Battery

1807276-011 Lab ID:

Client Sample ID: V4-6

Collection Date: 7/3/2018 7:36:00 AM

Received Date: 7/7/2018 10:50:00 AM

Analyses	Result	PQL Qı	ual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: CJS
Chloride	6600	300	mg/Kg	200 7/17/2018 7:56:37 AM	A 39208

Matrix: SOIL

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 11 of 26 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Date Reported: 7/25/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Project: John AGU Battery

1807276-012 Lab ID:

Client Sample ID: V4-8

Collection Date: 7/3/2018 7:54:00 AM

Received Date: 7/7/2018 10:50:00 AM

Analyses	Result	PQL Qı	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: CJS
Chloride	2300	75	mg/Kg	50	7/17/2018 8:09:02 AM	1 39208

Matrix: SOIL

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 12 of 26 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Date Reported: 7/25/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: V4-10

Project: John AGU Battery **Collection Date:** 7/3/2018 8:15:00 AM Lab ID: 1807276-013 Matrix: SOLID Received Date: 7/7/2018 10:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: CJS
Chloride	2400	75		mg/Kg	50	7/17/2018 8:21:26 AM	39208
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	: TOM
Diesel Range Organics (DRO)	160	9.4	Н	mg/Kg	1	7/23/2018 11:19:31 AM	39336
Motor Oil Range Organics (MRO)	250	47	Н	mg/Kg	1	7/23/2018 11:19:31 AM	39336
Surr: DNOP	100	70-130	Н	%Rec	1	7/23/2018 11:19:31 AM	39336
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	Н	mg/Kg	1	7/24/2018 11:54:21 AM	39352
Surr: BFB	93.7	15-316	Н	%Rec	1	7/24/2018 11:54:21 AM	39352
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.024	Н	mg/Kg	1	7/24/2018 11:54:21 AM	39352
Toluene	ND	0.048	Н	mg/Kg	1	7/24/2018 11:54:21 AM	39352
Ethylbenzene	ND	0.048	Н	mg/Kg	1	7/24/2018 11:54:21 AM	39352
Xylenes, Total	ND	0.096	Н	mg/Kg	1	7/24/2018 11:54:21 AM	39352
Surr: 4-Bromofluorobenzene	103	80-120	Н	%Rec	1	7/24/2018 11:54:21 AM	39352

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 13 of 26 J
- P Sample pH Not In Range
- RLReporting Detection Limit
- Sample container temperature is out of limit as specified

Date Reported: 7/25/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: V5-4

 Project:
 John AGU Battery
 Collection Date: 7/3/2018 8:44:00 AM

 Lab ID:
 1807276-014
 Matrix: SOIL
 Received Date: 7/7/2018 10:50:00 AM

Analyses	Result	PQL Q	ual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: CJS
Chloride	5700	300	mg/Kg	200 7/17/2018 8:33:51 AM	A 39208

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 Page 14 of 26

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Date Reported: 7/25/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Project: John AGU Battery

1807276-015 Lab ID:

Client Sample ID: V5-6

Collection Date: 7/3/2018 8:57:00 AM

Received Date: 7/7/2018 10:50:00 AM

Analyses	Result	PQL Q	ual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: CJS
Chloride	5100	300	mg/Kg	200 7/17/2018 8:46:16 AM	A 39208

Matrix: SOIL

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 15 of 26 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Date Reported: 7/25/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Project: John AGU Battery

1807276-016 Lab ID:

Client Sample ID: V5-8

Collection Date: 7/3/2018 9:08:00 AM

Received Date: 7/7/2018 10:50:00 AM

Analyses	Result	PQL Q	ual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: CJS
Chloride	6700	300	mg/Kg	200 7/17/2018 8:58:40 AM	Л 39208

Matrix: SOIL

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 16 of 26 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1807276 Date Reported: 7/25/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: V5-9

Project: John AGU Battery Collection Date: 7/3/2018 9:20:00 AM Lab ID: 1807276-017 Matrix: SOLID Received Date: 7/7/2018 10:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: MRA
Chloride	1100	30		mg/Kg	20	7/16/2018 2:16:01 AM	39208
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.0	Н	mg/Kg	1	7/23/2018 10:35:20 AM	39336
Motor Oil Range Organics (MRO)	ND	45	Н	mg/Kg	1	7/23/2018 10:35:20 AM	39336
Surr: DNOP	92.8	70-130	Н	%Rec	1	7/23/2018 10:35:20 AM	39336
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	Н	mg/Kg	1	7/24/2018 12:17:48 PM	39352
Surr: BFB	89.7	15-316	Н	%Rec	1	7/24/2018 12:17:48 PM	39352
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.024	Н	mg/Kg	1	7/24/2018 12:17:48 PM	39352
Toluene	ND	0.049	Н	mg/Kg	1	7/24/2018 12:17:48 PM	39352
Ethylbenzene	ND	0.049	Н	mg/Kg	1	7/24/2018 12:17:48 PM	39352
Xylenes, Total	ND	0.097	Н	mg/Kg	1	7/24/2018 12:17:48 PM	39352
Surr: 4-Bromofluorobenzene	99.3	80-120	Н	%Rec	1	7/24/2018 12:17:48 PM	39352

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 17 of 26 J
- P Sample pH Not In Range
- RLReporting Detection Limit
- Sample container temperature is out of limit as specified

Analytical Report Lab Order 1807276

Date Reported: 7/25/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Project: John AGU Battery

Lab ID: 1807276-018 Client Sample ID: V6-4

Collection Date: 7/3/2018 9:42:00 AM

Received Date: 7/7/2018 10:50:00 AM

Analyses	Result	PQL Q	ual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: CJS
Chloride	4300	150	mg/Kg	100 7/17/2018 9:35:54 AM	A 39208

Matrix: SOIL

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 18 of 26 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

39208

Analytical Report
Lab Order 1807276

100 7/17/2018 9:48:19 AM

Date Reported: 7/25/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Project: John AGU Battery

Lab ID: 1807276-019

Chloride

Client Sample ID: V6-6

mg/Kg

Collection Date: 7/3/2018 9:54:00 AM

Received Date: 7/7/2018 10:50:00 AM

Analyses Result PQL Qual Units DF Date Analyzed Batch
EPA METHOD 300.0: ANIONS Analyst: CJS

150

4300

Matrix: SOIL

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

- * 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 Page 19 of 26
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

CLIENT: Souder, Miller & Associates

Analytical Report

Lab Order **1807276**Date Reported: **7/25/2018**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: V6-8

 Project:
 John AGU Battery
 Collection Date: 7/3/2018 10:06:00 AM

 Lab ID:
 1807276-020
 Matrix: SOIL
 Received Date: 7/7/2018 10:50:00 AM

 Analyses
 Result
 PQL
 Qual
 Units
 DF
 Date Analyzed
 Batch

 EPA METHOD 300.0: ANIONS
 Analyst: CJS

 Chloride
 2200
 150
 mg/Kg
 100 7/17/2018 10:00:44 AM
 39208

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

- * 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 Page 20 of 26
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

CLIENT: Souder, Miller & Associates

Analytical Report

Lab Order 1807276 Date Reported: 7/25/2018

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: V6-8.5

Project: John AGU Battery **Collection Date:** 7/3/2018 10:17:00 AM Lab ID: 1807276-021 Matrix: SOLID Received Date: 7/7/2018 10:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	:: CJS
Chloride	2800	150		mg/Kg	100	7/17/2018 10:13:09 AM	1 39208
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.1	Н	mg/Kg	1	7/23/2018 10:13:25 AM	1 39336
Motor Oil Range Organics (MRO)	ND	45	Н	mg/Kg	1	7/23/2018 10:13:25 AM	1 39336
Surr: DNOP	91.1	70-130	Н	%Rec	1	7/23/2018 10:13:25 AM	1 39336
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	Н	mg/Kg	1	7/24/2018 12:41:20 PM	1 39352
Surr: BFB	92.5	15-316	Н	%Rec	1	7/24/2018 12:41:20 PM	1 39352
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.024	Н	mg/Kg	1	7/24/2018 12:41:20 PM	1 39352
Toluene	ND	0.047	Н	mg/Kg	1	7/24/2018 12:41:20 PM	1 39352
Ethylbenzene	ND	0.047	Н	mg/Kg	1	7/24/2018 12:41:20 PM	1 39352
Xylenes, Total	ND	0.095	Н	mg/Kg	1	7/24/2018 12:41:20 PM	1 39352
Surr: 4-Bromofluorobenzene	102	80-120	Н	%Rec	1	7/24/2018 12:41:20 PM	1 39352

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 21 of 26 J
- P Sample pH Not In Range
- RLReporting Detection Limit
- Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: **1807276 25-Jul-18**

Client: Souder, Miller & Associates

Project: John AGU Battery

Sample ID MB-39196 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 39196 RunNo: 52688

Prep Date: 7/13/2018 Analysis Date: 7/13/2018 SeqNo: 1729903 Units: mg/Kg

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

Chloride ND 1.5

Sample ID LCS-39196 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 39196 RunNo: 52688

Prep Date: 7/13/2018 Analysis Date: 7/13/2018 SeqNo: 1729904 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 95.2 90 110

Sample ID MB-39208 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 39208 RunNo: 52708

Prep Date: 7/15/2018 Analysis Date: 7/16/2018 SeqNo: 1730611 Units: mg/Kg

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

Chloride ND 1.5

Sample ID LCS-39208 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 39208 RunNo: 52708

Prep Date: 7/15/2018 Analysis Date: 7/16/2018 SeqNo: 1730612 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 95.3 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 Detection Limit
- W Sample container temperature is out of limit as specified

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Hall Environmental Analysis Laboratory, Inc.

Analysis Date: 7/11/2018

9.9

Result

53

4.3

WO#: **1807276**

25-Jul-18

Client: Souder, Miller & Associates

Project: John AGU Battery

Sample ID MB-39125	SampType:	MBLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics					
Client ID: PBS	Batch ID:	39125	F	RunNo: 5	2618								
Prep Date: 7/10/2018	Analysis Date:	7/11/2018	8	SeqNo: 1	726901	Units: mg/k	(g						
Analyte	Result PQI	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Diesel Range Organics (DRO)	ND 1	0											
Motor Oil Range Organics (MRO)	ND 5	50											
Surr: DNOP	8.6	10.00		86.0	70	130							
Sample ID LCS-39125	SampType:	LCS	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics					
Client ID: LCSS	Batch ID:	39125	F	RunNo: 5	2618								
Prep Date: 7/10/2018	Analysis Date:	7/11/2018	8	SeqNo: 1	726902	Units: mg/h	(g						
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit 52 10 50.00 0 103 70 130												
Diesel Range Organics (DRO)	52 1	0 50.00	0	103	70	130							
Surr: DNOP	4.1	5.000		82.3	70	130							
Sample ID 1807276-003AMS	SampType:	MS	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics					
Client ID: V1-8.5	Batch ID:	39125	F	RunNo: 5	2618								
Prep Date: 7/10/2018	Analysis Date:	7/11/2018	S	SeqNo: 1	727034	Units: mg/h	(g						
Analyte	Result PQI	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Diesel Range Organics (DRO)	53 9	.8 49.16	4.611	98.5	62	120							
Surr: DNOP	4.3	4.916		86.7	70	130							
Sample ID 1807276-003AMS	SD SampType:	MSD	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics					
Client ID: V1-8.5	ID: V1-8.5 Batch ID: 39125 RunNo: 52618												

Sample ID LCS-39336	SampT	ype: LC	s	Test	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID: LCSS	Batch	ID: 39	336	R	tunNo: 5	2903				
Prep Date: 7/23/2018	Analysis Da	ate: 7/	23/2018	S	seqNo: 1	738189	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.4	70	130			
Surr: DNOP	4.3		5.000		86.2	70	130			

4.611

SPK value SPK Ref Val

49.36

4.936

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

Prep Date: 7/10/2018

Diesel Range Organics (DRO)

Analyte

Surr: DNOP

- 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

SeqNo: 1727035

LowLimit

62

70

%REC

98.6

87.8

Units: mg/Kg

120

130

%RPD

0.459

0

RPDLimit

20

0

Page 23 of 26

Qual

HighLimit

- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: **1807276**

25-Jul-18

Client: Souder, Miller & Associates

Project: John AGU Battery

Sample ID MB-39336 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 39336 RunNo: 52903

Prep Date: 7/23/2018 Analysis Date: 7/23/2018 SeqNo: 1738190 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 8.8 10.00 88.0 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
- 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 Detection Limit
- W Sample container temperature is out of limit as specified

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1807276 25-Jul-18

Client: Souder, Miller & Associates

Project: John AGU Battery

Sample ID MB-39103 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: **PBS** Batch ID: 39103 RunNo: 52591

Prep Date: 7/9/2018 Analysis Date: 7/10/2018 SeqNo: 1725737 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 930 1000 93.0 15 316

Sample ID LCS-39103 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 39103 RunNo: 52591

Prep Date: 7/9/2018 Analysis Date: 7/10/2018 SeqNo: 1725738 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 5.0 25.00 0 110 75.9 131

Surr: BFB 1000 1000 102 316 15

TestCode: EPA Method 8015D: Gasoline Range Sample ID MB-39352 SampType: MBLK

Client ID: PBS Batch ID: 39352 RunNo: 52947

Prep Date: 7/23/2018 Analysis Date: 7/24/2018 SeqNo: 1740075 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 950 95.3 1000 15 316

Sample ID LCS-39352 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 39352 RunNo: 52947

Analysis Date: 7/24/2018 Prep Date: 7/23/2018 SeqNo: 1740076 Units: mg/Kg

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

Gasoline Range Organics (GRO) 28 5.0 25.00 112 75.9 131 Λ Surr: BFB 1000 1000 103 15 316

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- POL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- Sample container temperature is out of limit as specified

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RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: **1807276**

25-Jul-18

Client: Souder, Miller & Associates

Project: John AGU Battery

Sample ID MB-39103	SampT	уре: МЕ	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batcl	n ID: 39	103	F	RunNo: 5	2591				
Prep Date: 7/9/2018	Analysis D	Date: 7/	/10/2018	5	SeqNo: 1	725764	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.10								
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			
Sample ID LCS-39103	SampT	ype: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batcl	h ID: 39	103	F	RunNo: 5	2591				
Prep Date: 7/9/2018	Analysis D	Date: 7/	/10/2018	5	SeqNo: 1	725765	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	SPK Ref Val %REC LowLimit			%RPD	RPDLimit	Qual
Mothyl tort butyl other (MTDE)	0.00	0.10	1 000	Λ	90.4	70.1	121			

Client ID. LC33	Dato	11D. 39	103	L	Kuriivo. 3	2591				
Prep Date: 7/9/2018	Analysis D	ate: 7/	10/2018	S	SeqNo: 1	725765	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.90	0.10	1.000	0	90.4	70.1	121		_	
Benzene	0.97	0.025	1.000	0	96.8	77.3	128			
Toluene	1.0	0.050	1.000	0	100	79.2	125			
Ethylbenzene	0.98	0.050	1.000	0	98.0	80.7	127			
Xylenes, Total	3.0	0.10	3.000	0	100	81.6	129			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120			

Sample ID	MB-39352	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles
Client ID:	PBS	Batch ID: 39352	RunNo: 52947
Bron Doto:	7/22/2010	Analysis Date: 7/24/2019	Socillo: 1740124 Unito: malka

Prep Date: 7/23/2018 Analysis Date: 7/24/2018 SeqNo: 1740124 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		108	80	120			

Sample ID LCS-39352	SampT	ype: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batch	n ID: 39	352	F	RunNo: 5	2947				
Prep Date: 7/23/2018	Analysis D	oate: 7/ 2	24/2018	8	SeqNo: 1	740125	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	93.8	77.3	128			
Toluene	0.97	0.050	1.000	0	97.2	79.2	125			
Ethylbenzene	0.95	0.050	1.000	0	94.6	80.7	127			
Xylenes, Total	2.9	0.10	3.000	0	97.1	81.6	129			
Surr: 4-Bromofluorobenzene	1.0 1.000				102	80	120			

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 Detection Limit
- W Sample container temperature is out of limit as specified

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

		Website: ww	w.hallenvironmenta	d.com		
Client Name:	SMA-CARLSBAD	Work Order Nun	nber: 1807276		RcptNo: 1	•
Received By:	Anne Thorne	7/7/2018 10:50:00	АМ	anne Sham	_	
Completed By:	Isaiah Ortiz	7/9/2018 9:50:19	M	ICH	_	
Reviewed By:	_TO	7/9/18				
CB: F	ラルノフル い	, , 3				
Chain of Cus	stody	5				
	Custody complete?		Yes 🗹	No 🗌	Not Present	
2. How was the	sample delivered?		Client			
	•		SHOTE			
Log In						
o. vvas an atten	npt made to cool the samp	oles?	Yes 🗸	No 📙	NA. 🗆	
4. Were all sam	ples received at a tempera	ature of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗆	
5. Sample(s) in	proper container(s)?		Yes 🗹	No 🗌		
6 Sufficient sam	nple volume for indicated t	est(s)?	Yes 🔽	No □		
	(except VOA and ONG) pr		Yes 🗹	No 🗆		
	tive added to bottles?	openy preserveu:	res v Yes □	No ✓	NA 🗔	
F			165	140 💌	, NA L	
9. VOA vials hav	e zero headspace?		Yes	No 🗌	No VOA Vials 🗹	
10. Were any san	mple containers received b	roken?	Yes	No 🗹 🗆		
					# of preserved bottles checked	1/8/
	ork match bottle labels? ancies on chain of custody	۸	Yes 🗹		for pH:	
	correctly identified on Chai	•	Yes 🗹	No 🗆	Adjusted?	unless noted)
	t analyses were requested		Yes ✓	No 🗆		
4. Were all holdir	ng times able to be met?		Yes 🗹	No 🗌	Checked by:	
(If no, notify cu	ustomer for authorization.)					
pecial Handl	ing (if applicable)			r		
15. Was client no	tified of all discrepancies v	vith this order?	Yes 🗌	No 🗀	NA 🗹	
Person	Notified:	Date:				
By Who	m:	Via:	eMail P	hone Fax	In Person	
Regardi	ng:					
Client In	structions:	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			The control of the co	
16. Additional ren	narks:					
17. <u>Cooler Inforr</u>	mation					
Cooler No	Temp % Condition	Seal intact Seal No	Seal Date	Signed By		
1	5.8 Good	Yes	AND THE PROPERTY OF THE PROPER	A PROCESSES TO SELECT		
2	13.1 Good	Yes				

Yes

Rall	;hain	of-Cu	Chain-of-Custody Record	Turn-Around Time:	Time:					1		:						Rec
Client	SMA	4-61	SMA-Carisbad	_ □ Standard		X Rush 5 day				HALL	_ _ _		HALL ENVIRONMENTAL ANALYSTS LABORATORY		ME C	Z	¥ à	- L
to I				Project Name:					· _	WAAAA			www.hallenviropmental.cam	֓֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓		,	(
Mailing	Mailing Address:	 		- No.	A61/1	1 Batter		4901	4901 Hawkins NF	N sub	,		Albuquerque NM 87109		, 87109			OCD:
na. l				Project #:			т	<u>e</u>	Tel. 505-345-3975	45-36		Fax	505-345-4107	45.4	201 / 20			9/13
Phone #:	#:					`					Ani	alysis		est				3/20
email o	email or Fax#:			Project Manager	iger:				(0)			(*(23 9
OA/OC	QA/QC Package:			-	ı				LIAL		(5)Sʻ						:42:
Stan	Standard		☐ Level 4 (Full Validation)	ANSTIN D	Mewan	-			/ O)		SMIS	DO [*]						:08 A
Accreditation	litation AP	□ Other		Sampler: V	Lucs J					(1.4	3 072	"NO ^s						1 <i>M</i> ₃₁₄
	EDD (Type)			Sample Tempera		ととしている				09 F			səp		Y0/			/
	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	atm + xat	TEX + MTB 9 42108 HP	PH (Method	DB (Methoc	0168) s'HA	CRA 8 Meta (F, Q)	oioitse9 180	(AOV) 809S	/-imə2) 072			V
H/3/18	10:57	Se	, y-1x	407.		3-6	<u> </u>			3	_		8	i		+	+	<u>*</u>
1	11:03	E	VF 8 '	_		600		_				>		┨			-	-
	11:15 ROCK	BOCK	VI-8.5	BAGGY		003	×	*				×		\vdash		+	-	ļ
	11:31	હ	V2-2'			HQQ						>				\vdash		-
	II: 38	Forl	V2-4'			805	_					*						<u> </u>
	11:47	Pă.	٧2-٦،			CCC,						*						
	11:59 BOCK	22	٧2-٤٠	BAS GV		700	×	×	·			¥						<u> </u>
	1:30	<u>:</u>	V3-2'	`		800			•			×		_				
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	7:36		1			110						*					,	/
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Pate: 7/5/15/		Relinqui		Received by:	,	Date Time	Z	page lox	Å	N	,	1 3		71/2	250/8/11/5	6	0	Page <u>8</u>
<u></u>	necessary, s	samples subn	If necessary, samples submitted to Hall Environmental may be subcontracted to other accredit	intracted to other ac	credited laboratorie	ed laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report	possibilit	y. Any	noo-qns	tracted	Jata will	be clear	clearly notated	on the	analytica	al report.		3 of 139
																		,

/ Record Tum-Around Time:	Standard W Rush 5 dAV ANALYSIS LABORATORY	www.hallenvironmental.com	27100	Tel 505-345-3975	Analysis Request	(O)	()(()() ()() ()()	OGSS	Sampler: (NO ₂)	+ + + + + + + + + + + + + + + + + + +	S (Cdef	Sample Request ID Container Preservative HEAL No. X + M HEAL NO. X	V4-10 , 4 × × × × × × × × × × × × × × × × × ×		N5- V' 1	V5-8'	15-9' gaday OI7 x x	V6-41	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	√6 ~ 6's	V6 - 6.5 Bangay (3) x = 1				Received by:	Received by: Date Time Remarks:	Received W: Date Time Re Received W: Date Time
ustody Reco	nsbad							☐ Level 4 (Full Vali	Jer			··	_	-	V5- L1		- 1	VG- 4	4	4					hed by:	y y y y	hed by:
hain-of-C	Client: SMA Cartsbad		Mailing Address:		. .	· Fax#:	ackage:	dard	tation Dther			Time Matrix	8:15 Bock	8:14 gril	8:57 pmil	9:08 Stri	9:20 Rack	9:42 Sm	9:54 poil		10:17 paul			I	Time: Relinquished by:	Q	g
S 	Client:	į	Mailing /		Phone #:	email or Fax#	QA/QC Package:	□ Standard	Accreditation ☐ NELAP	(Type)	רבים מר	Date	43/18	3/18/1	_				•		t		_		_		٠ - ١



October 24, 2018

AUSTIN WEYANT
SOUDER MILLER AND ASSOCIATES
201 S. HALAGUENO
CARLSBAD, NM 88220

RE: JOHN AGU BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 10/22/18 13:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

SOUDER MILLER AND ASSOCIATES
AUSTIN WEYANT
201 S. HALAGUENO
CARLSBAD NM, 88220
Fax To: NONE

 Received:
 10/22/2018
 Sampling Date:
 10/17/2018

 Reported:
 10/24/2018
 Sampling Type:
 Soil

Project Name: JOHN AGU BATTERY Sampling Condition: ** (See Notes)
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: EOG -Y

Sample ID: V5 - 23' (H803023-01)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Oualifier Analyte Result Chloride 96.0 16.0 10/24/2018 ND 416 104 400 3.77

Sample ID: V2 - 23' (H803023-02)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 80.0 16.0 10/24/2018 ND 416 104 400 3.77

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Freene

Released to Imaging: 9/26/2023 11:37:13 AM



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name: SMA-Carisbad	Shad BILL TO	ANALYSIS REQUEST
Project Manager: Austin Weyant	P.O. #:	- 1
Address: 201 S. Halagueno		
city: Carlsbad	State: Zip: Attn: Chase Settle	de
Phone #: 574 370 9782	Fax #: Address:	
Project #:	Project Owner: City:	10
Project Name: John AGU		2h
Project Location:	#	
Sampler Name: NPS	Fax #:	
FOR LAB USE ONLY		
Lab I.D. Sample I.D.	(G)RAB OR (C)O # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: CE / COOL OTHER:	SM4
1 1/5-23	-	1:42
2 12-23	-	4:57
PLEASE NOTE: Liability and Damages, Cordinal's liability and clier analyses. All claims including those for negligence and any other or service. In no event shall Cardinal be liable for incidental or conseq affiliates or suppressors arising out of or related to the performance or affiliates.	PLEASE NOTE: Liability and Damages Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed warved unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its substances. The provinces here in the provinces arising out of or related to the performance of services hereunder by Cardinal, recapidless or subgressions arising out of or related to the performance of services hereunder by Cardinal, recapidless or whether such claim is based upon any of the above stated vascors or otherwise.	by the client for the completion of the applicable literature. The completion of the applicable literatures, some or otherwise.
Relinquished By: Relinquished By:	Date: 22-18 Received By: 13:30 MMOKA Willabor Date: Received By:	Phone Result: ☐ Yes ☐ No Add'l Phone #: Fax Result: ☐ Yes ☐ No Add'l Fax #: REMARKS:
Delivered By: (Circle One)	Time:	
Sampler - UPS - Bus - Other:	9.8° the cool intact (initials)	



January 07, 2019

AUSTIN WEYANT
SOUDER MILLER AND ASSOCIATES
201 S. HALAGUENO
CARLSBAD, NM 88220

RE: JOHN AGU BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 12/28/18 10:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Total Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keene

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

28-Dec-18 10:40

07-Jan-19 10:44



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

SOUDER MILLER AND ASSOCIATES

201 S. HALAGUENO CARLSBAD NM, 88220

V4 - 45'

Project: JOHN AGU BATTERY

Project Number: NONE GIVEN

Project Manager: AUSTIN WEYANT

Fax To: NONE

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
V6 - 19'	H803801-01	Soil	20-Dec-18 12:30	28-Dec-18 10:40
V6 - 29'	H803801-02	Soil	20-Dec-18 13:25	28-Dec-18 10:40
V4 - 18'	H803801-03	Soil	18-Dec-18 11:30	28-Dec-18 10:40
V4 - 29'	H803801-04	Soil	18-Dec-18 12:47	28-Dec-18 10:40
V4 - 45'	H803801-05	Soil	18-Dec-18 14:59	28-Dec-18 10:40

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Analytical Results For:

SOUDER MILLER AND ASSOCIATES 201 S. HALAGUENO

CARLSBAD NM, 88220

Project: JOHN AGU BATTERY

Project Number: NONE GIVEN

Fax To: NONE

Reported: 07-Jan-19 10:44

Project Manager: AUSTIN WEYANT

V6 - 19'

H803801-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes		
Cardinal Laboratories												
Inorganic Compounds												
Chloride	112		16.0	mg/kg	4	8123109	JH	03-Jan-19	4500-Cl-B			

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Analytical Results For:

SOUDER MILLER AND ASSOCIATES

201 S. HALAGUENO CARLSBAD NM, 88220 Project: JOHN AGU BATTERY

Project Number: NONE GIVEN

Project Manager: AUSTIN WEYANT

Reported: 07-Jan-19 10:44

Fax To: NONE

V6 - 29'

H803801-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	48.0		16.0	mg/kg	4	8123109	JH	03-Jan-19	4500-Cl-B	

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Celey D. Keene

07-Jan-19 10:44



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Analytical Results For:

SOUDER MILLER AND ASSOCIATES

201 S. HALAGUENO CARLSBAD NM, 88220 Project: JOHN AGU BATTERY

Project Number: NONE GIVEN

Project Manager: AUSTIN WEYANT

Fax To: NONE

V4 - 18' H803801-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
Cardinal Laboratories											
Petroleum Hydrocarbons by C	GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	8123107	MS	31-Dec-18	8015B		
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8123107	MS	31-Dec-18	8015B		
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8123107	MS	31-Dec-18	8015B		
Surrogate: 1-Chlorooctane			84.3 %	41-	142	8123107	MS	31-Dec-18	8015B		
Surrogate: 1-Chlorooctadecane			79.5 %	37.6	-147	8123107	MS	31-Dec-18	8015B		

Cardinal Laboratories *=Accredited Analyte

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07-Jan-19 10:44



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Analytical Results For:

SOUDER MILLER AND ASSOCIATES

201 S. HALAGUENO CARLSBAD NM, 88220 Project: JOHN AGU BATTERY

Project Number: NONE GIVEN

Project Manager: AUSTIN WEYANT

Fax To: NONE

V4 - 29'

H803801-04 (Soil)

Analyte	Result	Reporting MDL Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Car	dinal Labora	tories					
Inorganic Compounds									
Chloride	1310	16.0	mg/kg	4	8123109	JН	03-Jan-19	4500-Cl-B	
Petroleum Hydrocarbons by	GC FID								
GRO C6-C10*	<10.0	10.0	mg/kg	1	8123107	MS	31-Dec-18	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	8123107	MS	31-Dec-18	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	8123107	MS	31-Dec-18	8015B	
Surrogate: 1-Chlorooctane		83.6	% 41-	142	8123107	MS	31-Dec-18	8015B	
Surrogate: 1-Chlorooctadecane		79.7	37.6	-147	8123107	MS	31-Dec-18	8015B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

07-Jan-19 10:44



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

SOUDER MILLER AND ASSOCIATES

201 S. HALAGUENO CARLSBAD NM, 88220 Project: JOHN AGU BATTERY

Project Number: NONE GIVEN

Project Manager: AUSTIN WEYANT

Fax To: NONE

V4 - 45'

H803801-05 (Soil)

	Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes			
	Cardinal Laboratories													
]	Inorganic Compounds													
•	Chloride	448		16.0	mg/kg	4	8123109	JH	03-Jan-19	4500-Cl-B				

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Analytical Results For:

SOUDER MILLER AND ASSOCIATES

201 S. HALAGUENO CARLSBAD NM, 88220 Project: JOHN AGU BATTERY

Project Number: NONE GIVEN

Project Manager: AUSTIN WEYANT

Fax To: NONE

Reported: 07-Jan-19 10:44

Inorganic Compounds - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	
Batch 8123109 - General Prep - Wet Chem											
Blank (8123109-BLK1)				Prepared &	Analyzed:	31-Dec-18					
Chloride	ND	16.0	mg/kg								
LCS (8123109-BS1)				Prepared &	Analyzed:	31-Dec-18					
Chloride	432	16.0	mg/kg	400		108	80-120				
LCS Dup (8123109-BSD1)			Prepared & Analyzed: 31-Dec-18								
Chloride	416	16.0	mg/kg	400		104	80-120	3.77	20		

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%REC

41-142

37.6-147

Analytical Results For:

SOUDER MILLER AND ASSOCIATES

201 S. HALAGUENO CARLSBAD NM, 88220

Total TPH C6-C28

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

Project: JOHN AGU BATTERY

Spike

50.0

50.0

Source

89.2

90.9

Project Number: NONE GIVEN

Project Manager: AUSTIN WEYANT

Fax To: NONE

Reported: 07-Jan-19 10:44

RPD

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Reporting

10.0

ND

44.6

45.4

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 8123107 - General Prep - Organics										
Blank (8123107-BLK1)				Prepared &	Analyzed:	31-Dec-18				
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							

mg/kg

mg/kg

mg/kg

LCS (8123107-BS1)				Prepared & Ana	lyzed: 31-Dec-18	3			
GRO C6-C10	217	10.0	mg/kg	200	108	76.5-133			
DRO >C10-C28	192	10.0	mg/kg	200	96.1	72.9-138			
Total TPH C6-C28	409	10.0	mg/kg	400	102	78-132			
Surrogate: 1-Chlorooctane	48.3		mg/kg	50.0	96.6	41-142			
Surrogate: 1-Chlorooctadecane	46.8		mg/kg	50.0	93.6	37.6-147			
LCS Dup (8123107-BSD1)				Prepared & Ana	lyzed: 31-Dec-18	3			
GRO C6-C10	203	10.0	mg/kg	200	101	76.5-133	6.81	20.6	
DRO >C10-C28	184	10.0	mg/kg	200	92.0	72.9-138	4.34	20.6	
Total TPH C6-C28	387	10.0	mg/kg	400	96.6	78-132	5.64	18	
Surrogate: 1-Chlorooctane	47.5		mg/kg	50.0	95.1	41-142			
Surrogate: 1-Chlorooctadecane	46.4		mg/kg	50.0	92.9	37.6-147			

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 10 of 11

inquished By

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

94.40

#9

Cool Intact
Yes Yes

CHECKED BY:

Date: 18-18

Time:

Phone Result: Fax Result: REMARKS:

00

Yes | No

Add'l Phone : Add'l Fax #:

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2846



101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Project Location: Sampler Name: Project Name: John AGU Phone #: 574-370-9782 Fax #: city: Cay Isbad Company Name: JMA - Cansbad Project Manager: Address: Lab I.D 201 V4 - 45 10-19 Austin Weyant Artesia S. Havagueno Sample I.D. Project Owner: State: NM Zip: (G)RAB OR (C)OMP # CONTAINERS 84220 GROUNDWATER WASTEWATER SOIL MATRIX OIL SLUDGE OTHER Fax #: Phone #: 575-748-147 State: NMZip: 88210 city: Artesia Attn: Chase Settle P.O. #: Address: 165 S. 4+ St company: EOG Resours ACID/BASE PRESERV ICE / COOL OTHER BILL TO 12/18/18 11:30 12/18/18 2:57 12/20/18 1:25 12/20/18 12:30 DATE SAMPLING TIME tion of the ap 8015m PH Chloride SM 4500 CI-E ANALYSIS REQUEST

From: <u>Eads, Cristina, EMNRD</u>

To: <u>Chase Settle</u>

Cc: <u>Billings, Bradford, EMNRD</u>; <u>austin.weyant@soudermiller.com</u>

Subject: John AGU #1 Battery Remediation Plan (2RP-4694)

Date: Monday, November 18, 2019 2:12:58 PM

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

November 18, 2019

RE: John AGU #1 Battery Remediation Plan (2RP-4694) Eddy County, New Mexico

Chase Settle Rep Safety & Environmental II EOG Y Resources, Inc.

Dear Mr. Settle,

The remediation plan for the above referenced site is approved with the following:

- Request a variance to leave the remainder of contaminated soil in place.
- Sidewall confirmation samples should show concentrations of chloride less than 600 mg/kg.

Installation of a 20 mil poly liner is recommended instead of a clay liner.

Thank you for your completed efforts. Please contact me if you have any questions or comments.

Thank you, Cristina Eads

Cristina Eads

Environmental Bureau

EMNRD – Oil Conservation Division

1220 South St. Francis Drive

Santa Fe, New Mexico 87505

505.476.3084

email: Cristina. Eads@state.nm.us

ATTACHMENT 2 - PHOTOGRAPHIC DOCUMENTATION

Page 101 of 139



PHOTOGRAPH NO. 1 - A view of the Site during the remedial excavation activities in. The view is towards the west.

(Approximate GPS: 32.578936, -104.560635)



PHOTOGRAPH NO. 2 – A view of the eastern excavation area where due to the encountered lithology, excavation was limited to a depth of one foot below ground surface. The view is towards the southeast.

(Approximate GPS: 32.579054, -104.560916)



PHOTOGRAPH NO. 3 – A view of the over-excavation activities in the "W-6" sample area on August 30, 2023. The view is towards the southeast. excavated area during the August 4, 2022 confirmation sampling activities. The view is towards the northeast.

(Approximate GPS: 32.579054, -104.560912)



PHOTOGRAPH NO. 4 - A view of final excavation extent on August 30. 2023. The view is towards the southwest.

(Approximate GPS: 32.579041, -104.560635)

ATTACHMENT 3 - LABORATORY ANALYTICAL REPORTS



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

August 28, 2023

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

RE: John AGU 1 BATT OrderNo.: 2308C18

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 13 sample(s) on 8/23/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

and st

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 2308C18

Date Reported: 8/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: W-1

 Project:
 John AGU 1 BATT
 Collection Date: 8/21/2023 10:30:00 AM

 Lab ID:
 2308C18-001
 Matrix: MEOH (SOIL)
 Received Date: 8/23/2023 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	240	60	mg/Kg	20	8/23/2023 10:20:22 PM	77043
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst	: PRD
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	8/25/2023 12:00:12 PM	77025
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	8/25/2023 12:00:12 PM	77025
Surr: DNOP	98.2	69-147	%Rec	1	8/25/2023 12:00:12 PM	77025
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: CCM
Gasoline Range Organics (GRO)	ND	3.9	mg/Kg	1	8/23/2023 11:53:00 AM	GS99197
Surr: BFB	95.4	15-244	%Rec	1	8/23/2023 11:53:00 AM	GS99197
EPA METHOD 8021B: VOLATILES					Analyst	: CCM
Benzene	ND	0.019	mg/Kg	1	8/23/2023 11:53:00 AM	BS99197
Toluene	ND	0.039	mg/Kg	1	8/23/2023 11:53:00 AM	BS99197
Ethylbenzene	ND	0.039	mg/Kg	1	8/23/2023 11:53:00 AM	BS99197
Xylenes, Total	ND	0.078	mg/Kg	1	8/23/2023 11:53:00 AM	BS99197
Surr: 4-Bromofluorobenzene	91.2	39.1-146	%Rec	1	8/23/2023 11:53:00 AM	BS99197

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Analytical Report Lab Order 2308C18

Date Reported: 8/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: W-2

 Project:
 John AGU 1 BATT
 Collection Date: 8/21/2023 10:32:00 AM

 Lab ID:
 2308C18-002
 Matrix: MEOH (SOIL)
 Received Date: 8/23/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	:: JMT
Chloride	ND	60		mg/Kg	20	8/23/2023 10:57:36 PM	77043
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	:: DGH
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	8/24/2023 1:34:15 AM	77025
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	8/24/2023 1:34:15 AM	77025
Surr: DNOP	52.8	69-147	S	%Rec	1	8/24/2023 1:34:15 AM	77025
EPA METHOD 8015D: GASOLINE RANGE						Analyst	:: CCM
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	8/23/2023 12:15:00 PM	GS99197
Surr: BFB	100	15-244		%Rec	1	8/23/2023 12:15:00 PM	GS99197
EPA METHOD 8021B: VOLATILES						Analyst	:: CCM
Benzene	ND	0.017		mg/Kg	1	8/23/2023 12:15:00 PM	BS99197
Toluene	ND	0.034		mg/Kg	1	8/23/2023 12:15:00 PM	BS99197
Ethylbenzene	ND	0.034		mg/Kg	1	8/23/2023 12:15:00 PM	BS99197
Xylenes, Total	ND	0.068		mg/Kg	1	8/23/2023 12:15:00 PM	BS99197
Surr: 4-Bromofluorobenzene	94.3	39.1-146		%Rec	1	8/23/2023 12:15:00 PM	BS99197

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Analytical Report Lab Order 2308C18

Date Reported: 8/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: W-3

Project: John AGU 1 BATT Collection Date: 8/21/2023 10:34:00 AM

Lab ID: 2308C18-003 **Matrix:** MEOH (SOIL) **Received Date:** 8/23/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: JMT
Chloride	200	60		mg/Kg	20	8/23/2023 11:10:01 PM	77043
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS					Analyst	: DGH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	8/24/2023 1:53:11 AM	77025
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/24/2023 1:53:11 AM	77025
Surr: DNOP	58.3	69-147	S	%Rec	1	8/24/2023 1:53:11 AM	77025
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: CCM
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	8/23/2023 12:37:00 PM	GS99197
Surr: BFB	101	15-244		%Rec	1	8/23/2023 12:37:00 PM	GS99197
EPA METHOD 8021B: VOLATILES						Analyst	: CCM
Benzene	ND	0.018		mg/Kg	1	8/23/2023 12:37:00 PM	BS99197
Toluene	ND	0.037		mg/Kg	1	8/23/2023 12:37:00 PM	BS99197
Ethylbenzene	ND	0.037		mg/Kg	1	8/23/2023 12:37:00 PM	BS99197
Xylenes, Total	ND	0.073		mg/Kg	1	8/23/2023 12:37:00 PM	BS99197
Surr: 4-Bromofluorobenzene	94.7	39.1-146		%Rec	1	8/23/2023 12:37:00 PM	BS99197

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 8/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: W-4

 Project:
 John AGU 1 BATT
 Collection Date: 8/21/2023 10:36:00 AM

 Lab ID:
 2308C18-004
 Matrix: MEOH (SOIL)
 Received Date: 8/23/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analysi	: JMT
Chloride	69	60		mg/Kg	20	8/23/2023 11:22:26 PM	77043
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS					Analyst	: DGH
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	8/24/2023 2:12:07 AM	77025
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	8/24/2023 2:12:07 AM	77025
Surr: DNOP	55.6	69-147	S	%Rec	1	8/24/2023 2:12:07 AM	77025
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: CCM
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	8/23/2023 12:59:00 PM	GS99197
Surr: BFB	100	15-244		%Rec	1	8/23/2023 12:59:00 PM	GS99197
EPA METHOD 8021B: VOLATILES						Analyst	: CCM
Benzene	ND	0.017		mg/Kg	1	8/23/2023 12:59:00 PM	BS99197
Toluene	ND	0.033		mg/Kg	1	8/23/2023 12:59:00 PM	BS99197
Ethylbenzene	ND	0.033		mg/Kg	1	8/23/2023 12:59:00 PM	BS99197
Xylenes, Total	ND	0.067		mg/Kg	1	8/23/2023 12:59:00 PM	BS99197
Surr: 4-Bromofluorobenzene	93.2	39.1-146		%Rec	1	8/23/2023 12:59:00 PM	BS99197

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 8/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: W-5

 Project:
 John AGU 1 BATT
 Collection Date: 8/21/2023 10:38:00 AM

 Lab ID:
 2308C18-005
 Matrix: MEOH (SOIL)
 Received Date: 8/23/2023 7:30:00 AM

Result **RL Oual Units DF** Date Analyzed Batch Analyses **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 66 60 mg/Kg 20 8/23/2023 11:34:50 PM 77043 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) 9.2 mg/Kg 8/24/2023 2:30:49 AM 77025 Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 8/24/2023 2:30:49 AM 77025 Surr: DNOP 52.9 77025 69-147 S %Rec 8/24/2023 2:30:49 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 8/23/2023 1:20:00 PM GS99197 4.1 mg/Kg 1 Surr: BFB 100 %Rec 8/23/2023 1:20:00 PM GS99197 15-244 **EPA METHOD 8021B: VOLATILES** Analyst: CCM ND 0.021 8/23/2023 1:20:00 PM BS99197 Benzene mg/Kg Toluene ND 0.041 mg/Kg 8/23/2023 1:20:00 PM BS99197 Ethylbenzene ND 0.041 mg/Kg 1 8/23/2023 1:20:00 PM BS99197 Xylenes, Total ND 0.083 mg/Kg 8/23/2023 1:20:00 PM BS99197 Surr: 4-Bromofluorobenzene 94.2 BS99197 39.1-146 %Rec 8/23/2023 1:20:00 PM

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 8/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: W-6

 Project:
 John AGU 1 BATT
 Collection Date: 8/21/2023 10:40:00 AM

 Lab ID:
 2308C18-006
 Matrix: MEOH (SOIL)
 Received Date: 8/23/2023 7:30:00 AM

Result **RL Oual Units DF** Date Analyzed Batch Analyses **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 1000 60 mg/Kg 20 8/24/2023 12:36:52 AM 77044 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: PRD Diesel Range Organics (DRO) 9.6 mg/Kg 8/23/2023 6:47:31 PM 77026 Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 8/23/2023 6:47:31 PM 77026 Surr: DNOP 75.0 77026 69-147 %Rec 8/23/2023 6:47:31 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 8/23/2023 1:42:00 PM GS99197 3.9 mg/Kg 1 Surr: BFB 98.9 %Rec 8/23/2023 1:42:00 PM GS99197 15-244 **EPA METHOD 8021B: VOLATILES** Analyst: CCM ND 0.020 8/23/2023 1:42:00 PM BS99197 Benzene mg/Kg Toluene ND 0.039 mg/Kg 8/23/2023 1:42:00 PM BS99197 Ethylbenzene ND 0.039 mg/Kg 1 8/23/2023 1:42:00 PM BS99197 Xylenes, Total ND 0.079 mg/Kg 8/23/2023 1:42:00 PM BS99197 Surr: 4-Bromofluorobenzene BS99197 91.6 39.1-146 %Rec 8/23/2023 1:42:00 PM

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 8/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: W-7

 Project:
 John AGU 1 BATT
 Collection Date: 8/21/2023 11:00:00 AM

 Lab ID:
 2308C18-007
 Matrix: MEOH (SOIL)
 Received Date: 8/23/2023 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	240	60	mg/Kg	20	8/24/2023 12:49:16 AM	77044
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: PRD
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	8/23/2023 7:11:24 PM	77026
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/23/2023 7:11:24 PM	77026
Surr: DNOP	84.0	69-147	%Rec	1	8/23/2023 7:11:24 PM	77026
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: CCM
Gasoline Range Organics (GRO)	ND	3.5	mg/Kg	1	8/23/2023 2:04:00 PM	GS99197
Surr: BFB	98.3	15-244	%Rec	1	8/23/2023 2:04:00 PM	GS99197
EPA METHOD 8021B: VOLATILES					Analyst	: CCM
Benzene	ND	0.018	mg/Kg	1	8/23/2023 2:04:00 PM	BS99197
Toluene	ND	0.035	mg/Kg	1	8/23/2023 2:04:00 PM	BS99197
Ethylbenzene	ND	0.035	mg/Kg	1	8/23/2023 2:04:00 PM	BS99197
Xylenes, Total	ND	0.071	mg/Kg	1	8/23/2023 2:04:00 PM	BS99197
Surr: 4-Bromofluorobenzene	92.1	39.1-146	%Rec	1	8/23/2023 2:04:00 PM	BS99197

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 8/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: W-8

 Project:
 John AGU 1 BATT
 Collection Date: 8/21/2023 11:02:00 AM

 Lab ID:
 2308C18-008
 Matrix: MEOH (SOIL)
 Received Date: 8/23/2023 7:30:00 AM

Result **RL Oual Units DF** Date Analyzed Batch Analyses **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride ND 60 mg/Kg 20 8/24/2023 2:16:08 AM 77044 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: PRD Diesel Range Organics (DRO) 9.3 mg/Kg 8/23/2023 7:35:15 PM 77026 Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 8/23/2023 7:35:15 PM 77026 Surr: DNOP 80.2 77026 69-147 %Rec 8/23/2023 7:35:15 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 8/23/2023 2:25:00 PM GS99197 4.0 mg/Kg 1 Surr: BFB 99.8 %Rec 8/23/2023 2:25:00 PM GS99197 15-244 **EPA METHOD 8021B: VOLATILES** Analyst: CCM ND 0.020 8/23/2023 2:25:00 PM BS99197 Benzene mg/Kg Toluene ND 0.040 mg/Kg 1 8/23/2023 2:25:00 PM BS99197 Ethylbenzene ND 0.040 mg/Kg 1 8/23/2023 2:25:00 PM BS99197 Xylenes, Total ND 0.079 mg/Kg 8/23/2023 2:25:00 PM BS99197 Surr: 4-Bromofluorobenzene BS99197 92.4 39.1-146 %Rec 8/23/2023 2:25:00 PM

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 8/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: W-9

 Project:
 John AGU 1 BATT
 Collection Date: 8/21/2023 11:04:00 AM

 Lab ID:
 2308C18-009
 Matrix: MEOH (SOIL)
 Received Date: 8/23/2023 7:30:00 AM

Result **RL Oual Units DF** Date Analyzed Batch Analyses **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride ND 60 mg/Kg 20 8/24/2023 2:28:32 AM 77044 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: PRD Diesel Range Organics (DRO) 9.1 mg/Kg 8/23/2023 7:59:07 PM 77026 Motor Oil Range Organics (MRO) ND 45 mg/Kg 1 8/23/2023 7:59:07 PM 77026 Surr: DNOP 82.7 77026 69-147 %Rec 8/23/2023 7:59:07 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 8/23/2023 2:47:00 PM GS99197 3.6 mg/Kg 1 Surr: BFB 98.5 %Rec 8/23/2023 2:47:00 PM GS99197 15-244 **EPA METHOD 8021B: VOLATILES** Analyst: CCM ND 0.018 8/23/2023 2:47:00 PM BS99197 Benzene mg/Kg Toluene ND 0.036 mg/Kg 1 8/23/2023 2:47:00 PM BS99197 Ethylbenzene ND 0.036 mg/Kg 1 8/23/2023 2:47:00 PM BS99197 Xylenes, Total ND 0.072 mg/Kg 8/23/2023 2:47:00 PM BS99197 Surr: 4-Bromofluorobenzene BS99197 91.7 39.1-146 %Rec 8/23/2023 2:47:00 PM

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 8/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: W-10

 Project:
 John AGU 1 BATT
 Collection Date: 8/21/2023 11:06:00 AM

 Lab ID:
 2308C18-010
 Matrix: MEOH (SOIL)
 Received Date: 8/23/2023 7:30:00 AM

Analyses	Result	RL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JMT
Chloride	180	60	mg/Kg	20	8/24/2023 2:40:57 AM	77044
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analys	t: PRD
Diesel Range Organics (DRO)	ND	8.8	mg/Kg	1	8/23/2023 8:22:58 PM	77026
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	8/23/2023 8:22:58 PM	77026
Surr: DNOP	81.3	69-147	%Rec	1	8/23/2023 8:22:58 PM	77026
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: CCM
Gasoline Range Organics (GRO)	ND	3.6	mg/Kg	1	8/23/2023 3:09:00 PM	GS99197
Surr: BFB	95.7	15-244	%Rec	1	8/23/2023 3:09:00 PM	GS99197
EPA METHOD 8021B: VOLATILES					Analys	t: CCM
Benzene	ND	0.018	mg/Kg	1	8/23/2023 3:09:00 PM	BS99197
Toluene	ND	0.036	mg/Kg	1	8/23/2023 3:09:00 PM	BS99197
Ethylbenzene	ND	0.036	mg/Kg	1	8/23/2023 3:09:00 PM	BS99197
Xylenes, Total	ND	0.073	mg/Kg	1	8/23/2023 3:09:00 PM	BS99197
Surr: 4-Bromofluorobenzene	90.9	39.1-146	%Rec	1	8/23/2023 3:09:00 PM	BS99197

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 8/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: W-11

Project: John AGU 1 BATT Collection Date: 8/21/2023 11:08:00 AM Lab ID: 2308C18-011 Matrix: MEOH (SOIL) Received Date: 8/23/2023 7:30:00 AM

Result **RL Oual Units DF** Date Analyzed Batch Analyses **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride ND 60 mg/Kg 20 8/24/2023 2:53:22 AM 77044 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: PRD Diesel Range Organics (DRO) 10 mg/Kg 8/23/2023 8:46:50 PM 77026 Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 8/23/2023 8:46:50 PM 77026 Surr: DNOP 77026 81.8 69-147 %Rec 8/23/2023 8:46:50 PM

EPA METHOD 8015D: GASOLINE RANGE Analyst: CCM Gasoline Range Organics (GRO) ND 8/23/2023 3:52:00 PM GS99197 3.5 mg/Kg 1 Surr: BFB 99.3 %Rec 8/23/2023 3:52:00 PM GS99197 15-244 **EPA METHOD 8021B: VOLATILES** Analyst: CCM ND 0.017 8/23/2023 3:52:00 PM BS99197 Benzene mg/Kg Toluene ND 0.035 mg/Kg 8/23/2023 3:52:00 PM BS99197 Ethylbenzene ND 0.035 mg/Kg 1 8/23/2023 3:52:00 PM BS99197 Xylenes, Total ND 0.069 mg/Kg 8/23/2023 3:52:00 PM BS99197 Surr: 4-Bromofluorobenzene BS99197 91.5 39.1-146 %Rec 8/23/2023 3:52:00 PM

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
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

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Date Reported: 8/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: W-12

 Project:
 John AGU 1 BATT
 Collection Date: 8/21/2023 11:10:00 AM

 Lab ID:
 2308C18-012
 Matrix: MEOH (SOIL)
 Received Date: 8/23/2023 7:30:00 AM

Result **RL Oual Units DF** Date Analyzed Batch Analyses **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride 660 60 mg/Kg 20 8/24/2023 3:23:27 AM 77044 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: PRD Diesel Range Organics (DRO) 9.5 mg/Kg 8/23/2023 9:10:41 PM 77026 Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 8/23/2023 9:10:41 PM 77026 Surr: DNOP 77026 79.8 69-147 %Rec 8/23/2023 9:10:41 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM ND Gasoline Range Organics (GRO) 8/23/2023 4:14:00 PM GS99197 3.8 mg/Kg 1 Surr: BFB 102 %Rec 8/23/2023 4:14:00 PM GS99197 15-244 **EPA METHOD 8021B: VOLATILES** Analyst: CCM ND 0.019 8/23/2023 4:14:00 PM BS99197 Benzene mg/Kg Toluene ND 0.038 mg/Kg 1 8/23/2023 4:14:00 PM BS99197 Ethylbenzene ND 0.038 mg/Kg 1 8/23/2023 4:14:00 PM BS99197 Xylenes, Total ND 0.076 mg/Kg 8/23/2023 4:14:00 PM BS99197 Surr: 4-Bromofluorobenzene BS99197 94.6 39.1-146 %Rec 8/23/2023 4:14:00 PM

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 8/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: EB-1

 Project:
 John AGU 1 BATT
 Collection Date: 8/21/2023 3:42:00 PM

 Lab ID:
 2308C18-013
 Matrix: MEOH (SOIL)
 Received Date: 8/23/2023 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: SNS
Chloride	87	60	mg/Kg	20	8/24/2023 3:35:52 AM	77044
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analys	t: PRD
Diesel Range Organics (DRO)	18	9.0	mg/Kg	1	8/23/2023 9:34:32 PM	77026
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	8/23/2023 9:34:32 PM	77026
Surr: DNOP	79.7	69-147	%Rec	1	8/23/2023 9:34:32 PM	77026
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: CCM
Gasoline Range Organics (GRO)	ND	3.7	mg/Kg	1	8/23/2023 4:36:00 PM	GS99197
Surr: BFB	98.3	15-244	%Rec	1	8/23/2023 4:36:00 PM	GS99197
EPA METHOD 8021B: VOLATILES					Analys	t: CCM
Benzene	ND	0.019	mg/Kg	1	8/23/2023 4:36:00 PM	BS99197
Toluene	ND	0.037	mg/Kg	1	8/23/2023 4:36:00 PM	BS99197
Ethylbenzene	ND	0.037	mg/Kg	1	8/23/2023 4:36:00 PM	BS99197
Xylenes, Total	ND	0.074	mg/Kg	1	8/23/2023 4:36:00 PM	BS99197
Surr: 4-Bromofluorobenzene	93.6	39.1-146	%Rec	1	8/23/2023 4:36:00 PM	BS99197

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- 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#: 2308C18

28-Aug-23

Client: EOG

Project: John AGU 1 BATT

Sample ID: MB-77043 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 77043 RunNo: 99168

Prep Date: Analysis Date: 8/23/2023 SeqNo: 3617090 8/23/2023 Units: mq/Kq

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

Chloride ND 1.5

Sample ID: LCS-77043 TestCode: EPA Method 300.0: Anions SampType: Ics

Client ID: LCSS Batch ID: 77043 RunNo: 99168

Prep Date: 8/23/2023 Analysis Date: 8/23/2023 SeqNo: 3617091 Units: mg/Kg

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

97.2 Chloride 15 1.5 15.00 110

Sample ID: MB-77044 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 77044 RunNo: 99168

Prep Date: Analysis Date: 8/23/2023 SeqNo: 3617092 8/23/2023 Units: mg/Kg

Result PQL SPK value SPK Ref Val %REC %RPD **RPDLimit** Qual Analyte I owl imit HighLimit

Chloride ND

Sample ID: LCS-77044 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 77044 RunNo: 99168

Prep Date: Analysis Date: 8/23/2023 8/23/2023 SeqNo: 3617093 Units: mg/Kg

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

Chloride 15 1.5 15.00 97.1 90 110

Sample ID: MB-77044 SampType: MBLK TestCode: EPA Method 300.0: Anions

RunNo: 99202 Client ID: Batch ID: 77044 PRS

Prep Date: 8/23/2023 Analysis Date: 8/24/2023 SeqNo: 3617267 Units: mg/Kg

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

ND Chloride

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

2308C18 28-Aug-23

WO#:

Client: EOG

Project: John AGU 1 BATT

	JOTBATT										
Sample ID: LCS-77025	SampType:	LCS	Test	tCode: EPA Method	8015M/D: Diesel Range	e Organics					
Client ID: LCSS	Batch ID:	77025	R	tunNo: 99200							
Prep Date: 8/23/2023	Analysis Date:	8/23/2023	S	SeqNo: 3616870	Units: mg/Kg						
Analyte	Result PO	QL SPK value	SPK Ref Val	%REC LowLimit	HighLimit %RPD	RPDLimit Qual					
Diesel Range Organics (DRO)	52	10 50.00	0	105 61.9	130						
Surr: DNOP	1.5	5.000		29.9 69	147	S					
Sample ID: MB-77026	SampType:	MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID:	77026	R	tunNo: 99211							
Prep Date: 8/23/2023	Analysis Date:	8/23/2023	S	SeqNo: 3617543	Units: mg/Kg						
Analyte	Result PO	QL 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	7.7	10.00		77.2 69	147						
Sample ID: LCS-77026	SampType:	LCS	Test	tCode: EPA Method	8015M/D: Diesel Range	e Organics					
Client ID: LCSS	Batch ID:	77026	R	tunNo: 99211							
Prep Date: 8/23/2023	Analysis Date:	8/23/2023	S	SeqNo: 3617544	Units: mg/Kg						
Analyte	Result PO	QL SPK value	SPK Ref Val	%REC LowLimit	HighLimit %RPD	RPDLimit Qual					
Diesel Range Organics (DRO)	47	10 50.00	0	94.8 61.9	130						
Surr: DNOP	3.5	5.000		70.6 69	147						
Sample ID: MB-77025	SampType:	MBLK	Test	tCode: EPA Method	8015M/D: Diesel Range	e Organics					
Client ID: PBS	Batch ID:	77025	R	tunNo: 99211							
Prep Date: 8/23/2023	Analysis Date:	8/24/2023	S	SeqNo: 3619116	Units: mg/Kg						
Analyte	Result PO	QL 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	8.1	10.00		80.9 69	147						

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 Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

1000

2308C18 28-Aug-23

WO#:

Client: EOG

Surr: BFB

Project: John AGU 1 BATT

Sample ID: 2.5ug gro Ics SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: GS99197 RunNo: 99197 Prep Date: Analysis Date: 8/23/2023 SeqNo: 3616748 Units: mg/Kg Analyte PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Result LowLimit Gasoline Range Organics (GRO) 22 5.0 25.00 n 87.0 70 130 Surr: BFB 2100 1000 213 15 244

Sample ID: mb SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: Batch ID: GS99197 PBS RunNo: 99197 Prep Date: Analysis Date: 8/23/2023 SeqNo: 3616749 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) ND 5.0

103

15

244

1000

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2308C18

28-Aug-23

Client: EOG

Project: John AGU 1 BATT

Sample ID: 100ng btex lcs	S	TestCode: EPA Method 8021B: Volatiles										
Client ID: LCSS	Batc	h ID: BS	99197	F	RunNo: 99197							
Prep Date:	Date: Analysis Date: 8/23/2023					616803	g					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.93	0.025	1.000	0	92.6	70	130					
Toluene	0.94	0.050	1.000	0	94.0	70	130					
Ethylbenzene	0.96	0.050	1.000	0	95.9	70	130					
Xylenes, Total	2.9	0.10	3.000	0	96.0	70	130					
Surr: 4-Bromofluorobenzene	0.99		1.000		98.5	39.1	146					

Sample ID: mb	Samp ⁻	Туре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: PBS	Batc	h ID: BS	99197	F	RunNo: 99	9197				
Prep Date:	: Analysis Date: 8/23/2023 SeqNo: 3616804				Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.94		1.000		94.3	39.1	146			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- 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: www.hallenvironmental.com

Sample Log-In Check List

Released to Imaging: 9/26/2023 11:37:13 AM

Client Name: EOG	Work Order Number:	2308C18		RcptNo:	1
Received By: Tracy Casarrubias	8/23/2023 7:30:00 AM				
Completed By: Tracy Casarrubias	8/23/2023 8:13:41 AM				
Reviewed By: Chu	8/23/23				
reduction by:					
Chain of Custody					
1. Is Chain of Custody complete?		Yes 🗸	No 🗌	Not Present	
2. How was the sample delivered?		Courier			
Log In					
3. Was an attempt made to cool the samples	?	Yes 🗹	No 🗌	NA \square	
			N- 🗆	🗖	
4. Were all samples received at a temperature	e of >0° C to 6.0°C	Yes 🔽	No 📙	NA 🗔	
5. Sample(s) in proper container(s)?		Yes 🔽	No 🗌		
Sufficient sample volume for indicated test	s)?	Yes 🗹	No 🗌		
7. Are samples (except VOA and ONG) prope		Yes 🗹	No 🗌		
8. Was preservative added to bottles?		Yes 🗌	No 🗸	NA 🗆	
9. Received at least 1 vial with headspace <1.	M" for AO VOA?	Yes 🗌	No 🗌	NA 🗹	
10. Were any sample containers received brok		Yes	No ☑		
10. Were any sample containers received blor	.cn:	163	110	# of preserved bottles checked	
11. Does paperwork match bottle labels?		Yes 🗹	No 🗌	for pH:	
(Note discrepancies on chain of custody)				` /	>12 unless noted)
12. Are matrices correctly identified on Chain of	f Custody?	Yes 🗹	No ∐	Adjusted?	0/13
13. Is it clear what analyses were requested?		Yes 🗹	No 📙	150	make
14. Were all holding times able to be met?		Yes 🔽	No 🗔	Checked by:	1.1000
(If no, notify customer for authorization.)				SCM	8/23/23
Special Handling (if applicable)					, ,
15. Was client notified of all discrepancies with	this order?	Yes 📙	No 🗔	NA 🗹	
Person Notified:	Date:				
By Whom:	Via: [eMail	Phone Fax	☐ In Person	
Regarding:					
Client Instructions:					
16. Additional remarks:					
17. Cooler Information					
	Seal Intact Seal No S	Seal Date	Signed By		
1 5.9 Good Y	es Yogi				

HALL ENVIRONMENET PALOF 139	ANALYSIS LABORATORY	www.hallenvironmental.com	4901 Hawkins NE - Albuquerque, NM 87109	Tel. 505-345-3975 Fax 505-345-4107	Analysis Request	(c	O / MRG		สอ)	J 2D(BTEX (× × ×												Remarks: Bill to EOG Artesia			8/23/23
->	□ Standard Rush 34 hr		John AGU #7 BATT	Project #: 5375		Project Manager: W. Kierdorf		Sampler: J. Martint 2 On Ice: D Yes D No		Cooler Temp(Including CF) :S.9 - Ø - S.5 .	Container Preservative HEAL No. Type 2308C1	1x402 Jur 16E 001	700	003	7,00	5000	900	003	900	500	010	110	710 -	Received by: Via: Date Time	8/12/13	Via: count	
WANTED AND STREET	Kanger Env.		Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210		85		☐ Level 4 (Full Validation)	mpliance			rix Sample Name	W-7	W-2	W-3	W-4	W-5	W-4	W-7	8-M	M-9	W-10	N-(21-71	Relinquished by:	7	Relinquished by:	Com
Received by DCD! 941/2028 F4208X	Client: EOG-Artesia / Kanger Env.		Mailing Address: EOG - '	Ranger: PO Box 201179, Austin TX 78720	Phone #: 521-335-1785	email or Fax#: Will@RangerEnv.com	QA/QC Package: Standard	Accreditation: ☐ Az Co ■ NELAC ☐ Other	■ EDD (Type) Excel	\vdash	Date Time Matrix	105 0601 82-12-6	1 1832	he01	7691	8601	OHOI	0011	6011	hoil	9011	2011	1 011 7	Fime:	_	Time:	2 on 22

If necessary, samples submitted to Hall Environmental may be refoontracted to other secrecited Taboratories. This serves as notice of this possibility. Any sub-contracted Released to Imaging: 9/26/2023 11:37:13 AM

If necessary, samples submitted to Hall Environmental may be subcontracted to differ accredited laboratories. This serves as notice Released to Imaging: 9/26/2023 11:37:13 AM



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

September 11, 2023

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

RE: John AGU 1 Batt OrderNo.: 2309007

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 2 sample(s) on 9/1/2023 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

Analytical Report Lab Order 2309007

Date Reported: 9/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: W-6A

 Project:
 John AGU 1 Batt
 Collection Date: 8/30/2023 1:15:00 PM

 Lab ID:
 2309007-001
 Matrix: MEOH (SOIL)
 Received Date: 9/1/2023 7:35:00 AM

Analyses	Result	RL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: SNS
Chloride	130	60	mg/Kg	20	9/1/2023 3:19:46 PM	77260
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analys	t: PRD
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	9/1/2023 1:03:50 PM	77248
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	9/1/2023 1:03:50 PM	77248
Surr: DNOP	90.6	69-147	%Rec	1	9/1/2023 1:03:50 PM	77248
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: JJP
Gasoline Range Organics (GRO)	ND	4.5	mg/Kg	1	9/3/2023 11:03:46 PM	GS99436
Surr: BFB	96.5	15-244	%Rec	1	9/3/2023 11:03:46 PM	GS99436
EPA METHOD 8021B: VOLATILES					Analys	t: JJP
Benzene	ND	0.023	mg/Kg	1	9/3/2023 11:03:46 PM	BS99436
Toluene	ND	0.045	mg/Kg	1	9/3/2023 11:03:46 PM	BS99436
Ethylbenzene	ND	0.045	mg/Kg	1	9/3/2023 11:03:46 PM	BS99436
Xylenes, Total	ND	0.091	mg/Kg	1	9/3/2023 11:03:46 PM	BS99436
Surr: 4-Bromofluorobenzene	106	39.1-146	%Rec	1	9/3/2023 11:03:46 PM	BS99436

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 6

Analytical Report Lab Order 2309007

Date Reported: 9/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: W-12A

 Project:
 John AGU 1 Batt
 Collection Date: 8/30/2023 12:20:00 PM

 Lab ID:
 2309007-002
 Matrix: MEOH (SOIL)
 Received Date: 9/1/2023 7:35:00 AM

Analyses	Result	RL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: SNS
Chloride	110	60	mg/Kg	20	9/1/2023 3:32:10 PM	77260
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analys	t: PRD
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	9/1/2023 1:14:31 PM	77248
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	9/1/2023 1:14:31 PM	77248
Surr: DNOP	89.1	69-147	%Rec	1	9/1/2023 1:14:31 PM	77248
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: JJP
Gasoline Range Organics (GRO)	ND	3.0	mg/Kg	1	9/3/2023 11:27:12 PM	GS99436
Surr: BFB	98.9	15-244	%Rec	1	9/3/2023 11:27:12 PM	GS99436
EPA METHOD 8021B: VOLATILES					Analys	t: JJP
Benzene	ND	0.015	mg/Kg	1	9/3/2023 11:27:12 PM	BS99436
Toluene	ND	0.030	mg/Kg	1	9/3/2023 11:27:12 PM	BS99436
Ethylbenzene	ND	0.030	mg/Kg	1	9/3/2023 11:27:12 PM	BS99436
Xylenes, Total	ND	0.060	mg/Kg	1	9/3/2023 11:27:12 PM	BS99436
Surr: 4-Bromofluorobenzene	109	39.1-146	%Rec	1	9/3/2023 11:27:12 PM	BS99436

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- 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#: **2309007**

11-Sep-23

Client: EOG

Project: John AGU 1 Batt

Sample ID: MB-77260 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 77260 RunNo: 99442

Prep Date: 9/1/2023 Analysis Date: 9/1/2023 SeqNo: 3630002 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-77260 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 77260 RunNo: 99442

Prep Date: 9/1/2023 Analysis Date: 9/1/2023 SeqNo: 3630003 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 94.4 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

8.6

WO#: 2309007

11-Sep-23

Client: EOG

Surr: DNOP

Project: John AGU 1 Batt

Sample ID: LCS-77248	SampT	ype: LC	S	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 77248 RunNo: 99417											
Prep Date: 9/1/2023	Analysis D	ate: 9/	1/2023	9	SeqNo: 30	628404	Units: mg/K	g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	43	10	50.00	0	85.3	61.9	130					
Surr: DNOP	4.4		5.000		87.6	69	147					

Sample ID: MB-77248	SampT	ype: ME	BLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch	n ID: 772	248	RunNo: 99417								
Prep Date: 9/1/2023	Analysis D	ate: 9/	1/2023	5	SeqNo: 30	628405	Units: mg/K	g				
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										

86.3

147

10.00

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

Page 4 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **2309007** 11-Sep-23

Client: EOG

Project: John AGU 1 Batt

Sample ID: 2.5ug gro Ics SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: GS99436 RunNo: 99436 Units: mg/Kg Prep Date: Analysis Date: 9/3/2023 SeqNo: 3629275 Analyte PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Result LowLimit

 Gasoline Range Organics (GRO)
 24
 5.0
 25.00
 0
 95.6
 70
 130

 Surr: BFB
 2000
 1000
 201
 15
 244

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

Client ID: PBS Batch ID: GS99436 RunNo: 99436

Prep Date: Analysis Date: 9/3/2023 SeqNo: 3629279 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1000 1000 102 15 244

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 Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 6

Hall Environmental Analysis Laboratory, Inc.

2309007 11-Sep-23

WO#:

Client: EOG

Project: John AGU 1 Batt

Sample ID: 100ng btex lcs	Samp	Гуре: LC	s	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batc	h ID: BS	99436	F	RunNo: 99436							
Prep Date:	5	SeqNo: 30	629355	Units: mg/K	(g							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	1.1	0.025	1.000	0	108	70	130					
Toluene	1.1	0.050	1.000	0	109	70	130					
Ethylbenzene	1.1	0.050	1.000	0	110	70	130					
Xylenes, Total	3.3	0.10	3.000	0	111	70	130					
Surr: 4-Bromofluorobenzene	1.1		1.000		113	39.1	146					

Sample ID: mb	Samp ¹	Гуре: МЕ	BLK	Tes						
Client ID: PBS	Batc	h ID: BS	99436	F	RunNo: 99	9436				
Prep Date:	3/2023	(SeqNo: 30							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		111	39.1	146			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

Page 6 of 6



Hall Environmental Analysis Laboratory 4901 Hanrkins NE Albuquerque, NM 87109

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

Sample Log-In Check List

Released to Imaging: 9/26/2023 11:37:13 AM

Client Name: EOG Work Order Numb	ber: 2309007		RcptNo:	1
Received By: Steve McQuiston 9/1/2023 7:35:00 Al	M	for Make		
Completed By: Desiree Dominguez 9/1/2023 8:30:52 Al				
	W	123		
Reviewed By: SCM 9/1/23				
Chain of Custody	/	wall123		
1 Is Chain of Custody complete?	Yes 🔽	140	Not Present	
2. How was the sample delivered?	Courier			
<u>Log In</u>		_		
Was an attempt made to cool the samples?	Yes 🗸	No 🗌	NA 🗌	
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes 🗹	No 🗌	na 🗆	
5. Sample(s) in proper container(s)?	Yes 🗹	No 🗌		
6. Sufficient sample volume for indicated test(s)?	Yes 🗹	No 🗌		
7. Are samples (except VOA and ONG) properly preserved?	Yes 🗹	No 🗌		
8. Was preservative added to bottles?	Yes 🗌	No 🔽	NA 🗌	
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes 🗌	No 🗌	NA 🗹	
10. Were any sample containers received broken?	Yes	No 🗹	# of preserved	
11. Does paperwork match bottle labels?	Yes 🗹	No 🗆	bottles checked for pH:	
(Note discrepancies on chain of custody)			(<2 or : Adjusted?	>12 unless noted)
12. Are matrices correctly identified on Chain of Custody? 13. Is it clear what analyses were requested?	Yes ✔ Yes ✔	No ☐ │	7 lajubilau i	
14. Were all holding times able to be met?	Yes 🗹	No 🗆	Shecked by:	mal 123
(If no, notify customer for authorization.)	103			1, 1, 0, 5
Special Handling (if applicable)				
15. Was client notified of all discrepancies with this order?	Yes	No 🗌	NA 🗹	
Person Notified: Date:				
By Whom: Via:	eMail l	Phone Fax	☐ In Person	
Regarding: Client Instructions:				
16. Additional remarks:				
-client phone, e-mail , and fax not provided on COCDAD 9	walita	73		
17. Cooler Information				
Cooler No Temp °C Condition Seal Intact Seal No	Seal Date	Signed By		
1 4.9 Good Not Present Yogi		The state of the s		

HALL ENVIRONMENT # 0 139	ANALYSIS LABORATORY	www.hallenvironmental.com	4901 Hawkins NE - Albuquerque, NM 87109	Tel. 505-345-3975 Fax 505-345-4107	Analysis Request							Chloride		×						Remarks: Bill to EOG Artesia			(2) (2) (2) (2) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4
			49	F		(C	MRG	10	O / DB			.) ХЭТ8 .08:НЧТ		×						Remar			Hidigo
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	□ Standard \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	Project Name:	1001	Project #: 5375		Project Manager: W. Kierdorf			Sampler: J. Mortinez On Ice: A Yes DNo	# of Coolers: \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Cooler Temp(moluding CF): 4,9-0=4,9-0	Container Preservative ASO4 007	1001	, 1CE -003						Time	2	Received by: Via: Date Time	COUKIEK
Received Bode 94372013 Stay A Secord	esia / Ranger Env.		Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210	Ranger: PO Box 201179, Austin TX 78720	35-1785	email or Fax#: Will@RangerEnv.com		☐ Level 4 (Full Validation)	☐ Az Compliance ☐ Other	Excel		Matrix Sample Name								Relinquished by:	hum	Relinquished by:	
eceived by OCD	Client: EOG-Art		Mailing Address:	Ranger: PO Box 2	Phone #: 521-335-1785	email or Fax#: \	QA/QC Package:	■ Standard	Accreditation:	■ EDD (Type)		Date Time	- 00	0221						Date: Time:	123.CJ MAG	Date: Time:	

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 repo

ATTACHMENT 4 - 2023 CONFIRMATION SAMPLING NOTIFICATIONS

Released to Imaging: 9/26/2023 11:37:13 AM



Will Kierdorf <will@rangerenv.com>

FW: John AGU 1 Battery (fAB1810139472 / 2RP-4694) Sampling Notification

Chase Settle < Chase_Settle@eogresources.com>
To: Will Kierdorf < will@rangerenv.com>

Wed, Aug 16, 2023 at 1:49 PM

From: Tina Huerta <Tina_Huerta@eogresources.com>

Sent: Wednesday, August 16, 2023 12:47 PM

To: ocd.enviro@emnrd.nm.gov

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

<a href="mailto: Artesia Regulatory@eogresources.com>

Subject: John AGU 1 Battery (fAB1810139472 / 2RP-4694) Sampling Notification

Good afternoon,

EOG Resources, Inc. respectfully submits notification (2) business days prior to conducting sampling on the following location.

John AGU 1 Battery

C-14-20S-24E

Eddy County, NM

fAB1810139472 / 2RP-4694

Sampling will begin at 8:00 a.m. on Monday, August 21, 2023.

Thank you,

Tina Huerta

Regulatory Specialist

Direct: 575.748.4168

Cell: 575.703.3121

Email: tina huerta@eogresources.com

Released to Imaging: 9/26/2023 11:37:13 AM



Artesia Division



Will Kierdorf <will@rangerenv.com>

FW: John AGU 1 Battery (fAB1810139472 / 2RP-4694) Sampling Notification

Chase Settle <Chase_Settle@eogresources.com>
To: Will Kierdorf <will@rangerenv.com>

Mon, Aug 28, 2023 at 8:44 AM

From: Miriam Morales < Miriam_	Morales@eogresources.com>
Sent: Friday, August 25, 2023 8	:28 AM

To: ocd.enviro@emnrd.nm.gov

Cc: Artesia Regulatory Artesia_S&E_Spill_Remediation Artesia_S&E_Spill_Remediation Artesia_S&E_Spill_

Remediation@eogresources.com>

Subject: John AGU 1 Battery (fAB1810139472 / 2RP-4694) Sampling Notification

Good afternoon,

EOG Resources, Inc. respectfully submits notification (2) business days prior to conducting sampling on the following location.

John AGU 1 Battery

C-14-20S-24E

Eddy County, NM

fAB1810139472 / 2RP-4694

Sampling will begin at 8:00 a.m. on Tuesday, August 29, 2023 and continue through Friday, September 1st, 2023.

Thank you,

Miriam Morales

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 264793

CONDITIONS

Operator:	OGRID:
EOG RESOURCES INC	7377
P.O. Box 2267	Action Number:
Midland, TX 79702	264793
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwe	II None	9/26/2023