



SP1 should be delineated to 250ppm Cl-

Provide sidewall samples with closure report to ensure horizontal extent of contamination has been addressed.

MGU Battery Flare

REMEDIATION WORK PLAN

API No. 30-025-33208

Release Date: December 30, 2015

Unit Letter F, Section 4, Township 17 South, Range 32 East

RP# 1RP-4082

June 8, 2016

Prepared by:

Michael Burton, Environmental Operations Director Diversified Field Service, Inc. 3412 N. Dal Paso Hobbs, NM 88240 Phone: (575)964-8394 Fax: (575)393-8396 Jamie Keyes Environmental Specialist NM Oil Conservation District – Division 1 1625 N French Drive Hobbs, NM 88240

RE: Linn MGU Flare Battery – Remediation Work Plan UL/F, Section 4, T17S, R32E API No. 30-025-33208 NMOCD Case #: 1R-4082

Mr. Keyes,

Linn Energy (Linn) has retained Diversified Field Service, Inc. (DFSI) to address environmental issues for the site detailed herein.

The site is located northwest of Maljamar, NM, in Lea County. The spill resulted from relief valve failure, allowing pressure to build within the heater, releasing a total of 30 barrels of oil, with 25 barrels recovered. The impacted area is adjacent to the flare stack fire walls and into the pasture area. An initial C-141 was submitted to the NMOCD on January 4, 2016, and approved on January 7, 2016 (Appendix I).

Site Assessment and Delineation

On January 12, 2016, DFSI personnel were on site to obtain samples within the leak area (Figure 1). Three samples were obtained and field sampled for chloride levels, as well as BTEX (Appendix II). The BTEX samples were performed using a Mini Rae Photoionization Detector (PID). Field samples were submitted for analysis at Cardinal Laboratories of Hobbs, NM to obtain confirmation, resulting in decreasing chloride concentrations to below BLM and NMOCD regulatory guidelines and low TPH concentrations (Appendix III).

DFSI has conducted a groundwater study of the area and has determined, according to the New Mexico Office of the State Engineer, there average depth to groundwater at this site is 132 ft bgs. Therefore, no eminent danger of groundwater impact or threat to life is anticipated (Appendix IV).

Conclusion

After careful review DFSI on behalf of Linn Energy would like to propose the following:

Excavate the area around SP1 to a depth of 4' bgs. At the base of the excavation, a 20mil reinforced poly liner or river rock layer will be installed to inhibit the downward migration of constituents. The area around SP2 will be excavated to a depth of 3' bgs. Both excavated areas will be backfilled with clean, imported soil to ground surface and contoured to the surrounding. The release area, including SP3, will then be seeded with a BLM - NMOCD approved blend of native vegetation (Figure 2).

Following the approval of the above plan, DFSI will submit all proper closure documentation to the NMOCD and BLM in accordance to the State and Federal Guidelines set forth.

Please feel free to contact me with any questions concerning this remediation plan request.

Sincerely,

Michael Burton J

Michael Burton Environmental Operations Director | Diversified Field Service, Inc. 206 West Snyder | Hobbs, NM 88240 Office: (575)964-8394 | Mobile: (575)390-5454 Fax: (575)964-8396 | Email: mburton@diversifiedfsi.com

Figure 1 – Soil Delineation Figure 2 – Proposed Work Appendix I – Initial C-141 Appendix II – Site Photos Appendix III – Laboratory Analysis Appendix IV – Groundwater Study

Soil Delineation



Proposed Excavation



Appendix I

INITIAL C-141

Diversified Field Service, Inc. 206 W. Snyder Hobbs, NM 88240 (575) 964-8394 State of New Mexico Energy Minerals and Natural Resources

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

Form C-141 Revised August 8, 2011

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

			Relea	ase Notific	ation and Co	rrective Ac	ction			
					OPERAT	OR	🛛 Initia	al Report	Final Report	
Name of Co	ompany	Linn Operati	ing Inc.		Contact	E.L. Gonzales				
Address 2	2130 W Be	ender Blvd H	Hobbs, NI	A 88240	Telephone 1	No. 575-738-1	739			
Facility Name MGU Battery (Flare Stack) closest well is MGU #87					Facility Typ	Facility Type Battery				
Surface Ow	ner Priv	/ate		Mineral (Owner		API N	o. closest v	well 30-025-33208	
				LOCA	TION OF REL	EASE				
Unit Letter F	Section 04	Township 17S	Range 32E	Feet from the 2623	North/South Line North	Feet from the 1571	East/West Line West	County	Lea	

Latitude 32.8636742 Longitude -103.7750244

NATURE OF RELEASE									
	Volume of Release	30 bble							

Type of Release Oil	Volume of Release 30 bbls Volume Recovered 25 bbls
Source of Release Heater	Date and Hour of OccurrenceDate and Hour of Discovery12/30/20158:00am12/30/2015
Was Immediate Notice Given?	If YES, To Whom?
By Whom?	Date and Hour
Was a Watercourse Reached?	IT YES RECEIVED
If a Watercourse was Impacted, Describe Fully.*	By Kellie Jones at 8:20 am, Jan 07, 2016

Describe Cause of Problem and Remedial Action Taken.* Upon arrival to the MGU battery I noticed my production heater at the battery was passing oil through the gas lines. I traced the lines and found a release at my flare stack. Somehow the production heater had pressured up and the relief valve never bypassed to allow the pressure to escape. The relief valve appeared to have frozen over the past several days with the cold weather that has passed through the area. Due to this, the pressure that had built inside the heater passed through the flare stack and released oil in to the area.

Describe Area Affected and Cleanup Action Taken.* The area that the oil released from spilt into the flare stack fire walls and into the pasture as well. The flare stack and firewall are located just west of the battery where the production heater sits about 25ft. The area in which we have oil on the ground is inside of the firewall and oil that ran south out of the fire wall and out into the pasture going about 20ft to the south until stopping next to the lease road. The widest point of the spill is 15ft going southeast of the battery and flare stack fire wall. The total amount of oil lost is roughly 30bbls with 25bbl being recovered from inside the firewall and another 5bbls that ran out of the firewall.

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.

Signature: Printed Name: E.L. Gonzale	s	OIL CONSE			
Title: Production Supervisor		Approval Date: 01/07/2016	Expiration	Date: 03/07/2016	
E-mail Address: elgonzales@ Date: 01/04/2016	linnenergy.com Phone: 505-504-8002	Conditions of Approval: Site samples required. Delineate remediate as per MNOCD guide:		Attached IRP-4082	
Attach Additional Sheets If	Necessary	photographs of remediation reco		nKJ1600730224 pKJ1600730391	_

Appendix II

SITE PHOTOS

Diversified Field Service, Inc. 206 W. Snyder Hobbs, NM 88240 (575) 964-8394

MGU Battery Flare Unit Letter F, Section 4, T17S, R32E | NMOCD Case #: 1R-4082

PHOTO PAGE



Site prior, facing southwest

1/12/2016



Collecting sample, facing northeast 1/12/2016



Site prior, facing northeast

1/12/2016



Collecting sample, facing east

1/12/2016

Appendix III

LABORATORY ANALYSIS

Diversified Field Service, Inc. 206 W. Snyder Hobbs, NM 88240 (575) 964-8394



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

April 22, 2016

Michael Burton Diversified Field Services, Inc 315 S. Leech St Hobbs, NM 88240 TEL: (575) 964-8394 FAX

OrderNo.: 1604711

RE: Linn MGU Battery Flare

Dear Michael Burton:

Hall Environmental Analysis Laboratory received 6 sample(s) on 4/16/2016 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 <u>www.hallenvironmental.com</u> 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 qualifers 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 #NM0190

Sincerely,

andis

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Diversified Field Services, Inc

Linn MGU Battery Flare

Project:

Client Sample ID: Sample Point 1 @ 16' Collection Date: 4/14/2016 1:50:00 PM Received Date: 4/16/2016 11:00:00 AM

Lab ID: 1604711-001	Matrix:	SOIL	Received	Received Date: 4/16/2016 11:00:00 AM			
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analys	t: LGT	
Chloride	710	30	mg/Kg	20	4/21/2016 6:25:53 PM	24950	
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	6			Analys	t: KJH	
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	4/19/2016 11:43:07 AM	1 24865	
Surr: DNOP	100	70-130	%Rec	1	4/19/2016 11:43:07 AN	1 24865	
EPA METHOD 8015D: GASOLINE RAI	NGE				Analys	t: NSB	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/19/2016 11:57:11 PN	1 24853	
Surr: BFB	94.9	80-120	%Rec	1	4/19/2016 11:57:11 PN	1 24853	
EPA METHOD 8021B: VOLATILES					Analys	t: NSB	
Benzene	ND	0.025	mg/Kg	1	4/19/2016 11:57:11 PN	1 24853	
Toluene	ND	0.049	mg/Kg	1	4/19/2016 11:57:11 PN	1 24853	
Ethylbenzene	ND	0.049	mg/Kg	1	4/19/2016 11:57:11 PN	1 24853	
Xylenes, Total	ND	0.098	mg/Kg	1	4/19/2016 11:57:11 PN	1 24853	
Surr: 4-Bromofluorobenzene	95.4	80-120	%Rec	1	4/19/2016 11:57:11 PN	1 24853	

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

Qualifiers: * Value exceeds Maximum Contaminant Leve
--

- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 1 of 10 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Diversified Field Services, Inc

Linn MGU Battery Flare

Project:

Client Sample ID: Sample Point 1 @ 17' Collection Date: 4/14/2016 2:20:00 PM Received Date: 4/16/2016 11:00:00 AM

Lab ID: 1604711-002	Matrix:	SOIL	Received 1	Received Date: 4/16/2016 11:00:00 AM				
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analys	t: LGT		
Chloride	550	30	mg/Kg	20	4/21/2016 7:03:06 PM	24950		
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	;			Analys	t: KJH		
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	4/19/2016 1:53:21 PM	24846		
Surr: DNOP	94.4	70-130	%Rec	1	4/19/2016 1:53:21 PM	24846		
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: NSB		
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/20/2016 1:31:22 AM	24853		
Surr: BFB	94.6	80-120	%Rec	1	4/20/2016 1:31:22 AM	24853		
EPA METHOD 8021B: VOLATILES					Analys	t: NSB		
Benzene	ND	0.025	mg/Kg	1	4/20/2016 1:31:22 AM	24853		
Toluene	ND	0.050	mg/Kg	1	4/20/2016 1:31:22 AM	24853		
Ethylbenzene	ND	0.050	mg/Kg	1	4/20/2016 1:31:22 AM	24853		
Xylenes, Total	ND	0.10	mg/Kg	1	4/20/2016 1:31:22 AM	24853		
Surr: 4-Bromofluorobenzene	94.9	80-120	%Rec	1	4/20/2016 1:31:22 AM	24853		

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
	Н	Holding times for preparation or analysis exceeded
	ND	Not Detected at the Reporting Limit
	R	RPD outside accepted recovery limits
	S	% Recovery outside of range due to dilution or matrix

- В Analyte detected in the associated Method Blank
- Value above quantitation range Е
- Analyte detected below quantitation limits Page 2 of 10 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Diversified Field Services, Inc

Linn MGU Battery Flare

Project:

Client Sample ID: Sample Point 2 @ 3' Collection Date: 4/14/2016 9:30:00 AM Received Date: 4/16/2016 11:00:00 AM

Lab ID: 1604711-003	Matrix: S	OIL		Received I	Date: 4/16	5/2016 11:00:00 AM	
Analyses	Result	PQL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	LGT
Chloride	890	30		mg/Kg	20	4/21/2016 7:40:20 PM	24950
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS					Analyst	: KJH
Diesel Range Organics (DRO)	9600	930		mg/Kg	100	4/19/2016 2:36:49 PM	24846
Surr: DNOP	0	70-130	S	%Rec	100	4/19/2016 2:36:49 PM	24846
EPA METHOD 8015D: GASOLINE RAN	GE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	9.3	D	mg/Kg	2	4/20/2016 1:54:56 AM	24853
Surr: BFB	93.3	80-120	D	%Rec	2	4/20/2016 1:54:56 AM	24853
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.046	D	mg/Kg	2	4/20/2016 1:54:56 AM	24853
Toluene	ND	0.093	D	mg/Kg	2	4/20/2016 1:54:56 AM	24853
Ethylbenzene	ND	0.093	D	mg/Kg	2	4/20/2016 1:54:56 AM	24853
Xylenes, Total	ND	0.19	D	mg/Kg	2	4/20/2016 1:54:56 AM	24853
Surr: 4-Bromofluorobenzene	96.2	80-120	D	%Rec	2	4/20/2016 1:54:56 AM	24853

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

Keter to the QC Summary report and sample login enceknist for magged QC data and preservation morning

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

Oualifiers:

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- 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 10
- 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.

Project:

Lab ID:

1604711-004

CLIENT: Diversified Field Services, Inc Linn MGU Battery Flare

Matrix: SOIL

Client Sample ID: Sample Point 2 @ 4 Collection Date: 4/14/2016 9:45:00 AM Received Date: 4/16/2016 11:00:00 AM

Analyses	Result	PQL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: LGT
Chloride	390	30		mg/Kg	20	4/21/2016 7:52:45 PM	24950
EPA METHOD 8015M/D: DIESEL RA	ANGE ORGANICS					Analyst	: KJH
Diesel Range Organics (DRO)	180	96		mg/Kg	10	4/19/2016 3:20:11 PM	24846
Surr: DNOP	0	70-130	S	%Rec	10	4/19/2016 3:20:11 PM	24846
EPA METHOD 8015D: GASOLINE R	ANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/20/2016 2:18:27 AM	24853
Surr: BFB	94.5	80-120		%Rec	1	4/20/2016 2:18:27 AM	24853
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.024		mg/Kg	1	4/20/2016 2:18:27 AM	24853
Toluene	ND	0.047		mg/Kg	1	4/20/2016 2:18:27 AM	24853
Ethylbenzene	ND	0.047		mg/Kg	1	4/20/2016 2:18:27 AM	24853
Xylenes, Total	ND	0.094		mg/Kg	1	4/20/2016 2:18:27 AM	24853
Surr: 4-Bromofluorobenzene	95.3	80-120		%Rec	1	4/20/2016 2:18:27 AM	24853

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

Oualifiers:

- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 4 of 10 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Hall Environmental Analysis Laboratory, Inc.

Project:

Lab ID:

1604711-005

CLIENT: Diversified Field Services, Inc Linn MGU Battery Flare

Client Sample ID: Sample Point 3 @ 2' Collection Date: 4/14/2016 10:50:00 AM Received Date: 4/16/2016 11:00:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	LGT
Chloride	230	30	mg/Kg	20	4/21/2016 8:05:10 PM	24950
EPA METHOD 8015M/D: DIESEL RA	ANGE ORGANICS	;			Analyst	: KJH
Diesel Range Organics (DRO)	74	9.5	mg/Kg	1	4/19/2016 4:03:33 PM	24846
Surr: DNOP	112	70-130	%Rec	1	4/19/2016 4:03:33 PM	24846
EPA METHOD 8015D: GASOLINE R	ANGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/20/2016 2:41:49 AM	24853
Surr: BFB	93.4	80-120	%Rec	1	4/20/2016 2:41:49 AM	24853
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	4/20/2016 2:41:49 AM	24853
Toluene	ND	0.048	mg/Kg	1	4/20/2016 2:41:49 AM	24853
Ethylbenzene	ND	0.048	mg/Kg	1	4/20/2016 2:41:49 AM	24853
Xylenes, Total	ND	0.096	mg/Kg	1	4/20/2016 2:41:49 AM	24853
Surr: 4-Bromofluorobenzene	94.5	80-120	%Rec	1	4/20/2016 2:41:49 AM	24853

Matrix: SOIL

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

Oualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte
	D	Sample Diluted Due to Matrix	Е	Value ab
	Н	Holding times for preparation or analysis exceeded	J	Analyte o
	ND	Not Detected at the Reporting Limit	Р	Sample p
	D	PPD outside accorted recovery limits	DI	Doportin

- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- detected in the associated Method Blank
- bove quantitation range
- e detected below quantitation limits Page 5 of 10
- pH Not In Range
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified W

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Diversified Field Services, Inc **Project:** Linn MGU Battery Flare

1604711-006

Lab ID:

Client Sample ID: Sample Point 3 @ 3' Collection Date: 4/14/2016 11:10:00 AM Received Date: 4/16/2016 11:00:00 AM

Analyses	Result	Result PQL Qual Units			Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LGT
Chloride	160	30	mg/Kg	20	4/21/2016 8:17:35 PM	24950
EPA METHOD 8015M/D: DIESEL RA	ANGE ORGANICS	;			Analyst	: KJH
Diesel Range Organics (DRO)	120	9.9	mg/Kg	1	4/19/2016 4:47:03 PM	24846
Surr: DNOP	104	70-130	%Rec	1	4/19/2016 4:47:03 PM	24846
EPA METHOD 8015D: GASOLINE F	RANGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/20/2016 3:05:16 AM	24853
Surr: BFB	95.1	80-120	%Rec	1	4/20/2016 3:05:16 AM	24853
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	4/20/2016 3:05:16 AM	24853
Toluene	ND	0.047	mg/Kg	1	4/20/2016 3:05:16 AM	24853
Ethylbenzene	ND	0.047	mg/Kg	1	4/20/2016 3:05:16 AM	24853
Xylenes, Total	ND	0.094	mg/Kg	1	4/20/2016 3:05:16 AM	24853
Surr: 4-Bromofluorobenzene	95.9	80-120	%Rec	1	4/20/2016 3:05:16 AM	24853

Matrix: SOIL

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	
	Н	Holding times for preparation or analysis exceeded	
	ND	Not Detected at the Reporting Limit	
	R	RPD outside accepted recovery limits]

- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 6 of 10 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:		ersified Field Services, Inc MGU Battery Flare						
Sample ID	MB-24950	SampType: MBLK	TestCode: EPA Method	300.0: Anions				
Client ID:	PBS	Batch ID: 24950	RunNo: 33718					
Prep Date:	4/21/2016	Analysis Date: 4/21/2016	SeqNo: 1038629	Units: mg/Kg				
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit	Qual		
Chloride		ND 1.5						
Sample ID	LCS-24950	SampType: LCS	TestCode: EPA Method	300.0: Anions				
Client ID:	LCSS	Batch ID: 24950	RunNo: 33718					
Prep Date:	4/21/2016	Analysis Date: 4/21/2016	SeqNo: 1038630	0 Units: mg/Kg				
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit	Qual		
Chloride		14 1.5 15.00	0 93.7 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
- R RPD outside accepted recovery limits
- 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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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Page 8 of 10

22-Apr-16

Client: Project:		fied Field Se GU Battery I	,	Inc											
Sample ID	MB-24865	SampTy	pe: ME	BLK	Test	tCode: EF	PA Method	8015M/D: Di	esel Rang	e Organics					
Client ID:	PBS	Batch	ID: 24	865	R	anNo: 3	3618								
Prep Date:	4/19/2016	Analysis Da	ate: 4/	19/2016	SeqNo: 1034542 Un			Units: mg/k	iits: mg/Kg						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Diesel Range Surr: DNOP	Organics (DRO)	ND 9.5	10	10.00		94.8	70	130							
Sample ID	LCS-24865	SampTy	/pe: LC	s	Test	tCode: EF	PA Method	8015M/D: Di	esel Rang	e Organics					
Client ID:	LCSS	Batch	ID: 24	865	R	anNo: 3	3618								
Prep Date:	4/19/2016	Analysis Da	ate: 4/	19/2016	S	SeqNo: 10	035160	Units: mg/H							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
-	Organics (DRO)	48	10	50.00	0	96.2	65.8	136							
Surr: DNOP		4.7		5.000		93.4	70	130							
Sample ID	MB-24846	SampTy	pe: ME	BLK	Test	tCode: EF	PA Method	8015M/D: Di	esel Rang	e Organics					
Client ID:	PBS	Batch	ID: 24	846	R	unNo: 3	3618								
Prep Date:	4/18/2016	Analysis Da	ate: 4/	19/2016	S	SeqNo: 10	035550	Units: mg/k	٢g						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
•	Organics (DRO)	ND	10												
Surr: DNOP		9.2		10.00		92.5	70	130							
Sample ID	LCS-24846	SampTy	pe: LC	s	Test	tCode: EF	PA Method	8015M/D: Di	esel Rang	e Organics					
Client ID:	LCSS	Batch	ID: 24	846	R	anNo: 3	3618								
Prep Date:	4/18/2016	Analysis Da	ate: 4/	19/2016	S	SeqNo: 10	035611	Units: mg/k	٢g						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Diesel Range	Organics (DRO)	48	10	50.00	0	95.7	65.8	136							
Surr: DNOP	•	4.6		5.000	-	92.5	70	130							

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- 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

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:		ed Field Ser U Battery F	,	Inc							
Sample ID	MB-24853	SampTy	pe: MB	BLK	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID:	PBS	Batch I	ID: 24	853	R	RunNo: 3	3642				
Prep Date:	4/18/2016	Analysis Da	te: 4/	/19/2016	S	SeqNo: 1	035851	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang Surr: BFB	e Organics (GRO)	ND 940	5.0	1000		94.3	80	120			
Sample ID	LCS-24853	SampTy	pe: LC	s	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID:	LCSS	Batch I	ID: 24	853	R	RunNo: 3	3642				
Prep Date:	4/18/2016	Analysis Da	te: 4/	/19/2016	S	SeqNo: 1	035852	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	je Organics (GRO)	24	5.0	25.00	0	96.8	80	120			
Surr: BFB		1000		1000		101	80	120			
Sample ID	1604711-001AMS	SampTy	pe: M \$	S	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID:	Sample Point 1 @	1 Batch	ID: 24	853	R	RunNo: 3	3642				
Prep Date:	4/18/2016	Analysis Da	te: 4/	/19/2016	S	SeqNo: 1	035858	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	je Organics (GRO)	24	4.7	23.65	0	103	59.3	143			
Surr: BFB		990		946.1		104	80	120			
Sample ID	1604711-001AMS	D SampTy	pe: M \$	SD	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID:	Sample Point 1 @	1 Batch I	ID: 24	853	R	RunNo: 3	3642				
Prep Date:	4/18/2016	Analysis Da	te: 4/	/19/2016	S	SeqNo: 1	035859	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	je Organics (GRO)	21	4.7	23.67	0	90.2	59.3	143	13.0	20	
Surr: BFB											

Qualifiers:

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- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
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- 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

Page 9 of 10

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#:	1604711

22-Apr-16

	rsified Field S MGU Battery		Inc							
Sample ID MB-24853	Samp	Гуре: МЕ	BLK	Tes	tCode: El					
Client ID: PBS	Batc	h ID: 24	D: 24853 RunNo: 33642							
Prep Date: 4/18/2016	Analysis [Date: 4/	19/2016	SeqNo: 1035903 U			Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1.000		95.4	80	120			
Sample ID LCS-24853	Samp	Гуре: LC	s	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Batc	h ID: 24	853	R	RunNo: 3	3642				
Prep Date: 4/18/2016	Analysis [Date: 4/	19/2016	S	SeqNo: 1	035904	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	100	75.3	123			
Toluene	0.93	0.050	1.000	0	93.4	80	124			
Ethylbenzene	0.90	0.050	1.000	0	89.8	82.8	121			
Xylenes, Total	2.7	0.10	3.000	0	89.1	83.9	122			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	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
- R RPD outside accepted recovery limits
- 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

Page 10 of 10

HALL Environmental Analysis Laboratory	Hall Environmental A Albuq TEL: 505-345-3975 I Website: www.hall	4901 uerqu AX: 5	Hawkins Nl 2, NM 8710 05-345-410	sam	Sample Log-In Check List								
Client Name: DIVERSIFIED FIELD SE	Work Order Number:	16047	'11		RcptNo:	1							
Received by/date:	16/16												
Logged By: Lindsay Mangin 4/	16/2016 11:00:00 AM		l	Jundy Hopp									
Completed By: Lindsay Mangin 4/	18/20/16 9:25:37 AM		(Amely Hopp									
Reviewed By:	04/18/10		L										
Chain of Custody													
1. Custody seals intact on sample bottles?		Yes		No []]	Not Present 🐼								
2. Is Chain of Custody complete?		Yes		No [_]	Not Present								
3. How was the sample delivered?		<u>Cour</u>	er										
Log In													
4. Was an attempt made to cool the samples?		Yes		No 🗌	na []]								
5. Were all samples received at a temperature of	>0° C to 6.0°C	Yes		No 🗌	NA								
6. Sample(s) in proper container(s)?		Yes		No [_]									
7. Sufficient sample volume for indicated test(s)?		Yes		No 🗍									
8. Are samples (except VOA and ONG) properly	preserved?	Yes		No 🗌									
9. Was preservative added to bottles?		Yes		No 🛃	NA []								
10.VOA vials have zero headspace?		Yes		No []]	No VOA Vials 🛃								
11. Were any sample containers received broken?		Yes		No 🛃	# of preserved								
10.5					bottles checked for pH:								
12.Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes		No		r >12 unless noted)							
13, Are matrices correctly identified on Chain of Cu	istody?	Yes		No 📋	Adjusted?								
14. Is it clear what analyses were requested?		Yes		No 🗌									
15. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes		No [_]	Checked by:								
Special Handling (if applicable)													
16.Was client notified of all discrepancies with this	order?	Yes		No []	NA 🛃								
Person Notified:	Date:												
By Whom:	Via:	eMa	ail 📋 Pho	one 门 Fax	[]] In Person								
Regarding:					1								
Client Instructions:	· · · · · · · · · · · · · · · · · · ·			<u></u>									
17. Additional remarks:													
18. <u>Cooler Information</u>	t			:	I								
Cooler No Temp °C Condition Seal 1 1.1 Good Yes	Intact Seal No S	eal D	ate S	Signed By									
					I								

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Surgder St #: (575) 631-4661 r Fax#: 1 flore S@diversifredfsi.cov Package: Idard □ Level 4 (Full Validation) itation AP □ Other O (Type) Time Matrix Sample Request ID 1:50PM Soil Sample Point 1 @16 2:20PM Sample Point 2 @ 3' 7:50PM Sample Point 2 @ 3' 7:50PM Sample Point 2 @ 3' 7:50PM Sample Point 3 @ 2' 11:10PM Sample Point 3	Imail: Por-Custody Record Asunts by standard Imail: Standard Imail: Rus Address: 206 Supder st LINN MGU Project Name: Address: 206 Supder st Project Manager: Project #: #: (\$15) 631-4661 Project Manager: Project Manager: Package: On Ice: SVEs For Tow Itation AP Other On Ice: SVEs O(Type) Sample Request ID Sample Temperature: 1 Preservatin Time Matrix Sample Polut 1 (216' 4 oz glass) ice ice 2:200 Sample Polut 2 (2 4' 1) Image: 1 Image: 1 1:304 Sample Polut 3 (2 4' 1) Image: 1 Image: 1 1:304 Sample Polut 3 (2 4' 1) Image: 1 Image: 1 1:304 Sample Polut 3 (2 4' 1) Image: 1 Image: 1 1:304 Sample Polut 3 (2 4' 1) Imag	International project is by flow in the project is by flow in the project Name: Address: 2016. 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Appendix IV

GROUNDWATER SURVEY

Diversified Field Service, Inc. 206 W. Snyder Hobbs, NM 88240 (575) 964-8394



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

POD Sub- POD Number Q	(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)	(quai					IE 3=SW largest)	,	3 UTM in meters)		(In feet)
L 04021 S L LE 2 4 4 03 17S 32E 617262 3636354* 260 L 13050 POD1 L LE 2 2 1 10 17S 32E 616463 3635945* 156 132 24 RA 08855 LE 4 1 1 10 17S 32E 616061 3635945* 158 158 RA 08855 LE 2 2 1 10 17S 32E 616462 3635944 147 147 RA 09505 S LE 2 2 1 10 17S 32E 616463 3635945* 144 147 RA 11734 POD1 LE 2 2 1 10 17S 32E 616463 3635945* 144 147 RA 11734 POD1 LE 2 2 1 10 17S 32E 616556 3635929 165 132 feet Minimum Depth: 132 feet 132 feet 132 feet 132 feet 132 feet 132 feet	POD Number	Sub-	County	-	-		Tws	Rng	x	Y			
L 13050 POD1 L LE 2 2 1 10 17S 32E 616463 3635945* 156 132 24 RA 08855 LE 4 1 1 10 17S 32E 616061 3635945* 158 158 142 158 RA 09505 LE 2 2 1 10 17S 32E 616462 3635944 147 147 RA 09505 S LE 2 2 1 10 17S 32E 616463 3635945* 144 147 RA 11734 POD1 LE 2 2 1 10 17S 32E 616556 3635945* 144 144 RA 11734 POD1 LE 2 2 1 10 17S 32E 616556 3635929 165 132 feet Minimum Depth: 132 feet 132 fe	L 04021 POD3	L	LE	3	34	03	17S	32E	616761	3636252* 🌍	247		
RA 08855 LE 4 1 1 10 17S 32E 616061 3635742* 158 RA 09505 LE 2 2 1 10 17S 32E 616462 3635944 147 RA 09505 S LE 2 2 1 10 17S 32E 616463 3635945* 144 RA 11734 POD1 LE 2 2 1 10 17S 32E 616556 3635929 165 Kerage Depth to Water: 132 feet 132 feet 132 feet 132 feet	L 04021 S	L	LE	2 4	4	03	17S	32E	617262	3636354* 🌍	260		
RA 09505 LE 2 2 1 10 17S 32E 616462 3635944 147 RA 09505 S LE 2 2 1 10 17S 32E 616463 3635945* 144 RA 11734 POD1 LE 2 2 1 10 17S 32E 616556 3635929 165 Average Depth to Water: 132 feet 132 feet 132 feet	L 13050 POD1	L	LE	2 2	2 1	10	17S	32E	616463	3635945* 🌍	156	132	24
RA 09505 S LE 2 2 1 10 17S 32E 616463 3635945* 144 RA 11734 POD1 LE 2 2 1 10 17S 32E 616556 3635929 165 Average Depth to Water: 132 feet Minimum Depth: 132 feet	RA 08855		LE	4 1	1	10	17S	32E	616061	3635742* 🌍	158		
RA 11734 POD1 LE 2 2 1 10 17S 32E 616556 3635929 165 Average Depth to Water: 132 feet Minimum Depth: 132 feet	RA 09505		LE	2 2	2 1	10	17S	32E	616462	3635944 🌍	147		
Average Depth to Water: 132 feet Minimum Depth: 132 feet	RA 09505 S		LE	2 2	2 1	10	17S	32E	616463	3635945* 🌍	144		
Minimum Depth: 132 feet	RA 11734 POD1		LE	2 2	2 1	10	17S	32E	616556	3635929 🌍	165		
				Average Depth to Water:								132 f	eet
Maximum Depth: 132 feet				Minimum Depth:								132 f	eet
				Maximum Depth:							132 f	eet	

Record Count: 7

PLSS Search:

Section(s): 3, 4, 5, 8, 9, 10 Township: 17S

17S Ran

Range: 32E

*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.



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

No records found.

PLSS Search:

Section(s): 32, 33, 34

Township: 16S

Range: 32E

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.