

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Legacy Reserves, L.P.	OGRID 240974
Contact Name Brian Cunningham	Contact Telephone 432-234-9450
Contact email bcunningham@legacyp.com	Incident # (assigned by OCD) 2RP-5155
Contact mailing address 303 West Wall Street, Suite 1300	

Location of Release Source

Latitude 32.42603° N Longitude -103.73530° W
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Molly State Battery	Site Type Tank Battery
Date Release Discovered 12/12/2018	API# (if applicable) 30-015-26815

Unit Letter	Section	Township	Range	County
C	1	22S	31E	Eddy

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

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☒ Crude Oil	Volume Released (bbls) 45 bbls	Volume Recovered (bbls) 4 bbls
☒ Produced Water	Volume Released (bbls) 178 bbls	Volume Recovered (bbls) 16 bbls
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	☐ Yes ☒ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

A leak formed in a flowline at the tank battery.

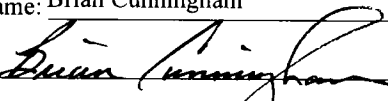
State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? The release was greater than 25 bbls of liquid.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Larson and Associates personnel called Christina Hernandez at 17:00 MST on 12/12/2018 and left a voice mail.	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☒ The source of the release has been stopped. ☒ The impacted area has been secured to protect human health and the environment. ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. ☒ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: 	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Brian Cunningham</u> Signature: <u></u> email: <u>bcunningham@legacyp.com</u>	Title: <u>Production Foreman</u> Date: <u>9/20/2019</u> Telephone: <u>432-234-9450</u>
<u>OCD Only</u> Received by: _____ Date: _____	

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>448</u> (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☒ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

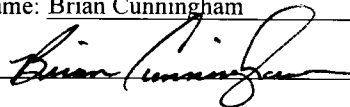
- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: Brian CunninghamTitle: Production ForemanSignature: Date: 9/20/2019email: bcunningham@legacyp.comTelephone: 432-234-9450**OCD Only**

Received by: _____

Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

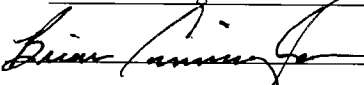
Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Brian CunninghamTitle: Production ForemanSignature: Date: 9/20/2019email: bcunningham@legacylp.comTelephone: 432-234-9450
OCD Only

Received by: _____ Date: _____

☐ Approved

 ☐ Approved with Attached Conditions of Approval

 ☐ Denied

 ☐ Deferral Approved

Signature: _____

Date: _____

2RP-5155
Delineation Report and Remediation Plan
Molly State Battery
Crude Oil and Produced Water Release
Eddy County, New Mexico

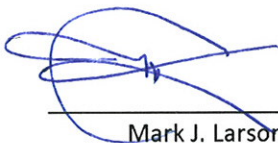
Latitude: N 32.42603°
Longitude: W -103.73530°

LAI Project No. 18-0138-08

September 20, 2019

Prepared for:
Legacy Reserves Operating, LP
303 West Wall Street, Suite 1300
Midland, Texas 79701

Prepared by:
Larson & Associates, Inc.
507 North Marienfeld Street, Suite 205
Midland, Texas 79701



Mark J. Larson, P.G.
Certified Professional Geologist #10490



Rachel E. Owen
Sr. Geoscientist

This Page Intentionally Left Blank

Table of Contents

1.0 INTRODUCTION.....	1
1.1 Background.....	1
1.2 Physical Setting.....	1
1.3 Remediation Action Levels.....	2
2.0 DELINEATION.....	2
3.0 REMEDIATION PLAN.....	2

Tables

Table 1	Delineation Soil Sample Analytical Data Summary
---------	---

Figures

Figure 1	Topographic Map
Figure 2	Aerial Map Showing Sample Locations
Figure 3	Aerial Map Showing Proposed Excavation Areas

Appendices

Appendix A	Initial C-141
Appendix B	OCD communications
Appendix C	Laboratory Reports
Appendix D	Photographs

1.0 INTRODUCTION

Larson & Associates, Inc. (LAI), has prepared this delineation report and remediation plan on behalf of Legacy Reserves Operating, LP (Legacy) for submittal to the New Mexico Oil Conservation Division (OCD) District 2 for a crude oil and produced water release at the Molly State Battery (Site) located in Unit C (NE/4, NW/4), Section 1, Township 22 South, Range 31 East in Eddy County New Mexico. The geodetic position is North 32.42603° and West -103.73530°. Figure 1 presents a topographic map. Figure 2 presents an aerial map.

1.1 Background

The release was discovered on December 12, 2018. The spill occurred from a small leak in a flow line at the tank battery. Legacy originally reported 6 barrels (bbls) of crude oil and 24 bbls of produced water released. Approximately 4 bbls of crude oil and 16 bbls of produced water were recovered. The affected area measures approximately 1,745 square feet. LAI calculated the spill volume at approximately 223 bbls based on the depth of impacted soil between approximately 1 to 10 feet bgs and an average moisture content of 12% from laboratory analysis. The initial C-141 was inadvertently submitted to OCD District 1 on December 17, 2018 and assigned remediation permit number 1RP-5307. The initial C-141 was resubmitted to OCD District 2 on January 3, 2019, and reassigned remediation permit number of 2RP-5155. Appendix A presents the initial C-141. Appendix B presents OCD communications.

1.2 Physical Setting

The physical setting is as follows:

- The surface elevation is approximately 3,567 feet above mean sea level (msl);
- The surface topography gradually decreases to the southwest;
- There are no surface water features within 1,000 feet of the Site;
- The soils are designated as “Berino complex, 0 to 3 percent slopes, eroded”, consisting of 0 to 17 inches of fine sand, underlain by 17 to 58 inches of a sandy clay loam;
- The geology is Eolian and piedmont deposits (Holocene to middle Pleistocene)- interlayered eolian sands and piedmont-slope deposits;
- Groundwater occurs in the Ogallala formation at approximately 448 feet below ground surface (bgs) (2003);
- According to the New Mexico Office of the State Engineer (OSE) website the nearest freshwater well is located in Unit O (SW/4, SE/4) in Section 16, Township 22 South, Range 31 East approximately 3.93 miles or 20,737 feet southwest of the Site.

1.3 Remediation Action Levels

The following remediation standards are based on closure criteria for soils impacted by a release as presented in Table 1 of 19.15.29 NMAC:

- Benzene 10 mg/Kg
- BTEX 50 mg/Kg
- TPH 2,500 mg/Kg
- Chloride 20,000 mg/Kg

Further, 19.15.29.13 NMAC (Restoration, Reclamation and Re-Vegetation) requires the operator to restore the impacted surface area that existed prior to the release or their final land use.

2.0 DELINEATION

On January 8 and 9, 2019, LAI personnel used a stainless steel hand auger to collect soil samples from twenty (20) locations inside of the spill area and in each cardinal direction of the spill (HA-1 through HA-20) to vertically and horizontally delineate the release. The samples were collected at 1 foot intervals to approximately 4 feet bgs depending on subsurface conditions. The soil samples were delivered under chain of custody and preservation to Permian Basin Environmental Laboratory (PBEL) in Midland, Texas. The upper samples were analyzed for benzene, toluene, ethylbenzene and xylenes (BTEX) and total petroleum hydrocarbons (TPH), including gasoline range organics (C6-C12), diesel range organics (>C12-C28) and oil range organics (>C28-C35) by EPA SW-846 Methods 8021B and 8015M, respectively. All samples were analyzed for chloride by EPA Method 300. Figure 2 presents an aerial photograph showing the sample locations. Benzene and BTEX were reported below the remediation action levels of 10 milligrams per kilogram (mg/Kg) and 50 mg/Kg in all 0 to 1 foot samples. TPH was reported above the remediation action level of 2,500 mg/Kg in samples HA-3, 0 to 1 foot (2,550 mg/Kg) and HA-18, 0 to 1 foot (3,650 mg/Kg). Chloride exceeded the remediation action levels of 20,000 mg/Kg in HA-14, 3 to 4 feet bgs (25,600mg/Kg).

On May 9, 10, 13, and 14, 2019, LAI personnel used direct push technology (DPT) to further delineate the release. Soil samples were collected at 1 and 2 foot intervals between 5 and 10 feet bgs depending on subsurface conditions. The samples were delivered under chain of custody and preservation to Permian Basin Environmental Laboratory (PBEL) in Midland, Texas. The upper samples (0 to 1 feet) were analyzed for BTEX and TPH by EPA SW-846 Methods 8021B and 8015M, respectively. All samples were analyzed for chloride by Method 300. All sample locations were delineated below remediation action levels for BTEX, TPH, and chloride (50 mg/Kg, 2,500 mg/Kg, and 20,000 mg/Kg, respectively). Table 1 presents the soil sample analytical data summary. Appendix C presents the laboratory reports.

3.0 Remediation Plan

Legacy proposes the following remedial actions:

- Excavate 10' X 10' encompassing HA-3 to 4 feet bgs;
- Excavate 80' X 15' encompassing HA-5, HA-8, and HA-12 to 4 feet bgs;
- Excavate 20' X15' encompassing HA-14 to 6 feet bgs;
- Excavate 20' X15' encompassing HA-17 to 4 feet bgs;
- Excavate 20' X15' encompassing HA-18 to 8 feet bgs;
- Excavate 20' X 10' encompassing HA-19 and HA- 20 to 4 feet bgs;
- Collect bottom and sidewall confirmation soil samples and analyze for BTEX, TPH and chloride;
- Backfill excavations with clean topsoil in pasture assuming achievement of OCD remediation levels;
- Backfill excavations with clean caliche on the well pad assuming achievement of OCD remediation levels;
- Seed the pasture area with BLM Mix No. 2

Figure 3 presents the proposed excavation areas.

Tables

Table 1
2RP-5155
Soil Sample Analytical Data Summary
Legacy Reserves, Molly State
Lea County, New Mexico
18-0138-08

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	C6 - C35 (mg/Kg)	Chloride (mg/Kg)
RRAL				10	50				2,500	10,000
HA-1	0 - 1	1/8/2019	In-situ	<0.00103	<0.04738	<25.8	<25.8	<25.8	<25.8	<1.03
HA-2	0 - 1	1/8/2019	In-situ	<0.00108	<0.04956	<26.9	<26.9	<26.9	<26.9	<1.08
HA-3	0 - 1	1/8/2019	In-situ	<0.00103	<0.04738	38	1,840	672	2,550	6,270
	0 - 1	5/9/2019	In-situ	<0.00125	<0.00750	<31.2	<31.2	<31.2	<31.2	1,450
	1 - 2	1/8/2019	In-situ	--	--	<26.00	148	78	225	5,990
	1 - 3	5/9/2019	In-situ	--	--	--	--	--	--	466
HA-4	0 - 1	1/8/2019	In-situ	<0.00103	<0.04738	<25.8	32.9	<25.8	32.9	25.7
HA-5	0 - 1	1/8/2019	In-situ	<0.00104	0.0151	56.6	395	96.8	548	3,310
	0 - 1	5/9/2019	In-situ	<0.00122	<0.00732	<30.5	<30.5	<30.5	<30.5	1,150
	1 - 2	1/8/2019	In-situ	--	--	39.8	186	53.8	279	9,140
	2 - 3	1/8/2019	In-situ	--	--	--	--	--	--	9,860
	1 - 3	5/9/2019	In-situ	--	--	--	--	--	--	13,500
	3 - 4	1/8/2019	In-situ	--	--	--	--	--	--	4,980
	3 - 5	5/9/2019	In-situ	--	--	--	--	--	--	1,140
	5 - 6	5/9/2019	In-situ	--	--	--	--	--	--	1,580
	6 - 8	5/9/2019	In-situ	--	--	--	--	--	--	6,320
	8 - 10	5/9/2019	In-situ	--	--	--	--	--	--	5,710
HA-6	0 - 1	1/8/2019	In-situ	<0.00104	<0.04785	<26.0	<26.0	<26.0	<26.0	35.7
HA-7	0 - 1	1/9/2019	In-situ	<0.00103	<0.04738	<25.8	<25.8	<25.8	<25.8	<1.03
HA-8	0 - 1	1/9/2019	In-situ	<0.00106	<0.04888	<26.6	28.8	<26.6	28.8	12,500
	0 - 1	5/10/2019	In-situ	<0.0250	<0.1500	<31.2	<31.2	<31.2	<31.2	1,390
	1 - 2	1/9/2019	In-situ	--	--	--	--	--	--	16,200
	2 - 3	1/9/2019	In-situ	--	--	--	--	--	--	18,300
	1 - 3	5/10/2019	In-situ	--	--	--	--	--	--	1,550
	3 - 4	1/9/2019	In-situ	--	--	--	--	--	--	10,700
	3 - 5	5/10/2019	In-situ	--	--	--	--	--	--	3,240
	5 - 6	5/10/2019	In-situ	--	--	--	--	--	--	270

Table 1
2RP-5155
Soil Sample Analytical Data Summary
Legacy Reserves, Molly State
Lea County, New Mexico
18-0138-08

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	C6 - C35 (mg/Kg)	Chloride (mg/Kg)
RRAL				10	50				2,500	10,000
HA-9	0 - 1	1/9/2019	In-situ	<0.0211	2.687	<26.3	76.4	<26.3	76.4	353
HA-10	0 - 1	1/9/2019	In-situ	<0.00104	<0.04785	<26.0	<26.0	<26.0	<26.0	11.5
HA-11	0 - 1	1/9/2019	In-situ	<0.00114	<0.05232	<28.4	<28.4	<28.4	<28.4	16.3
HA-12	0 - 1	1/9/2019	In-situ	<0.00100	<0.046	<25.0	<25.0	<25.0	<25.0	6,270.0
	0 - 1	5/13/2019	In-situ	<0.0206	<0.1236	<25.8	<25.8	<25.8	<25.8	4,060.0
	1 - 2	1/9/2019	In-situ	--	--	--	--	--	--	3,990.0
	2 - 3	1/9/2019	In-situ	--	--	--	--	--	--	5,690
	1 - 3	5/13/2019	In-situ	--	--	--	--	--	--	8,550
	3 - 4	1/9/2019	In-situ	--	--	--	--	--	--	1,760
	3 - 5	5/13/2019	In-situ	--	--	--	--	--	--	145
HA-13	0 - 1	1/9/2019	In-situ	<0.00104	<0.04785	<26.0	<26.0	<26.0	<26.0	24.8
HA-14	0 - 1	1/9/2019	In-situ	<0.00105	<0.04841	<26.3	44.0	<26.3	44.0	7,980
	0 - 1	5/13/2019	In-situ	<0.0206	<0.1236	<25.8	<25.8	<25.8	<25.8	4,380
	1 - 2	1/9/2019	In-situ	--	--	--	--	--	--	9,100
	2 - 3	1/9/2019	In-situ	--	--	--	--	--	--	12,200
	1 - 3	5/13/2019	In-situ	--	--	--	--	--	--	1,160
	3 - 4	1/9/2019	In-situ	--	--	--	--	--	--	25,600
	3 - 5	5/13/2019	In-situ	--	--	--	--	--	--	21,500
	5 - 6	5/13/2019	In-situ	--	--	--	--	--	--	19,100
	6 - 8	5/13/2019	In-situ	--	--	--	--	--	--	9,380
	8 - 10	5/13/2019	In-situ	--	--	--	--	--	--	1,380
HA-15	0 - 1	1/9/2019	In-situ	<0.00104	<0.04785	<26.0	<26.0	<26.0	<26.0	50.5
HA-16	0 - 0.5	1/9/2019	In-situ	<0.00109	<0.05002	<27.2	<27.2	<27.2	<27.2	35
HA-17	0 - 0.5	1/9/2019	In-situ	<0.00110	<0.05059	<27.5	95.8	27.6	123.4	4,420

Table 1
2RP-5155
Soil Sample Analytical Data Summary
Legacy Reserves, Molly State
Lea County, New Mexico
18-0138-08

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	C6 - C35 (mg/Kg)	Chloride (mg/Kg)
RRAL				10	50				2,500	10,000
	0 - 1	5/13/2019	In-situ	<0.0211	<0.12651	<26.3	<26.3	<26.3	<26.3	3,720
	1 - 3	5/13/2019	In-situ	--	--	--	--	--	--	2,260
	3 - 5	5/13/2019	In-situ	--	--	--	--	--	--	440
HA-18	0 - 0.5	1/9/2019	In-situ	<0.00109	<0.05002	299	2,490	858	3,650	16,200
	0 - 1	5/14/2019	In-situ	<0.0233	<0.1397	<29.1	<29.1	<29.1	<29.1	11,800
	1 - 3	5/14/2019	In-situ	--	--	--	--	--	--	2,910
	3 - 5	5/14/2019	In-situ	--	--	--	--	--	--	3,240
	5 - 6	5/14/2019	In-situ	--	--	--	--	--	--	13,100
	6 - 8	5/14/2019	In-situ	--	--	--	--	--	--	26,400
	8 - 10	5/14/2019	In-situ	--	--	--	--	--	--	15,700
HA-19	0 - 0.5	1/9/2019	In-situ	<0.00109	<0.05002	<27.2	40.6	<27.2	40.6	10,400
	0 - 1	5/14/2019	In-situ	<0.0241	<0.1446	<30.1	<30.1	<30.1	<30.1	1,050
	1 - 3	5/14/2019	In-situ	--	--	--	--	--	--	6,300
	3 - 5	5/14/2019	In-situ	--	--	--	--	--	--	7,900
	5 - 6	5/14/2019	In-situ	--	--	--	--	--	--	3,330
	6 - 8	5/14/2019	In-situ	--	--	--	--	--	--	15,800
	8 - 10	5/14/2019	In-situ	--	--	--	--	--	--	8,630
HA-20	0 - 0.5	1/9/2019	In-situ	<0.00100	<0.046	<25.0	33.1	<25.0	33.1	6,160

Notes: Laboratory analysis performed by Xenco Laboratories, Lubbock, Texas by EPA 8021B (BTEX)

Method 8015M (TPH) and 300 (chloride)

Depth in feet below ground surface (bgs)

mg/Kg: milligrams per kilogram equivalent to parts per million (ppm)

*: OCD delineation level

Bold and highliteed denote concentration above OCD delineation limit

Figures

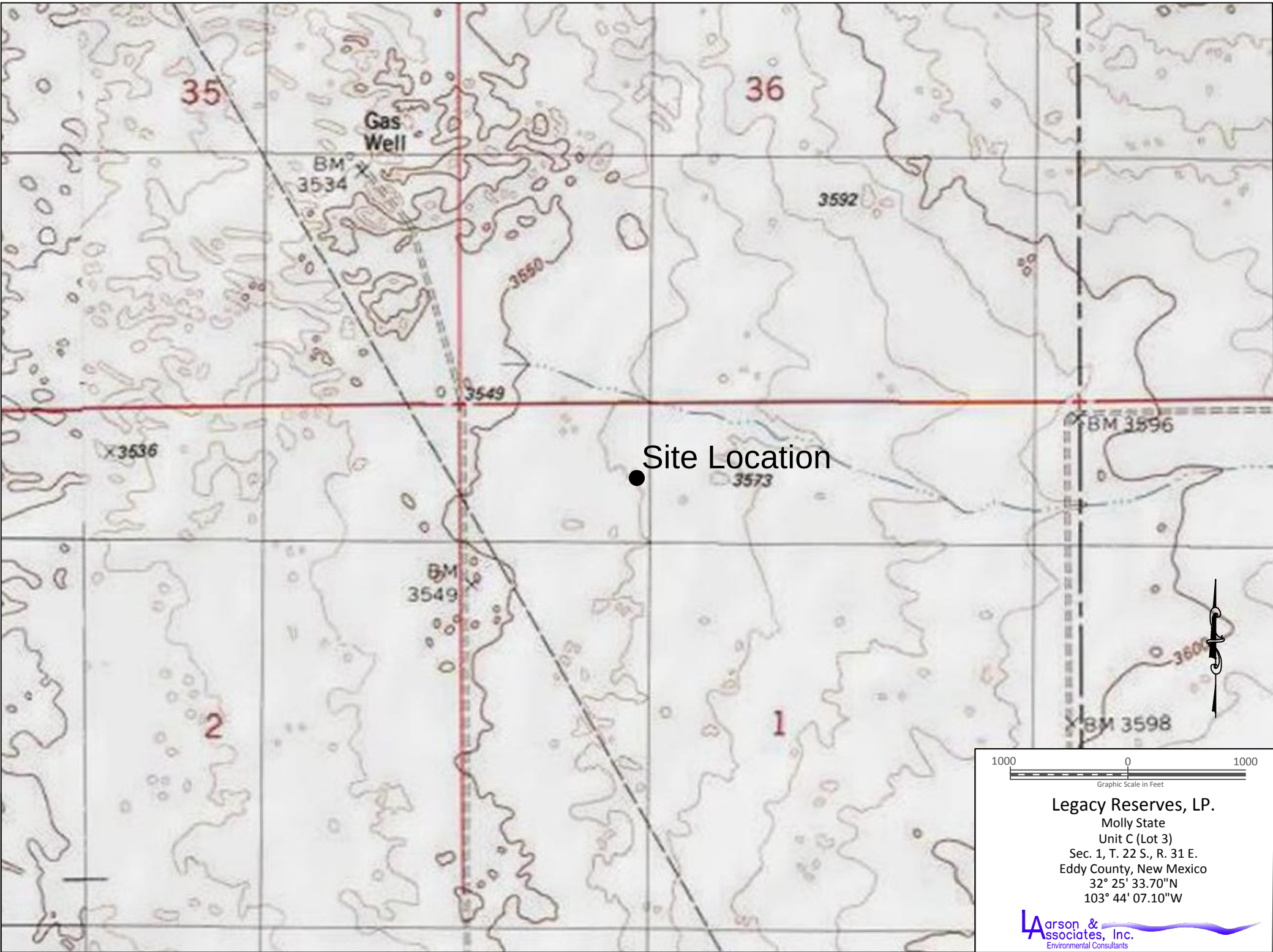
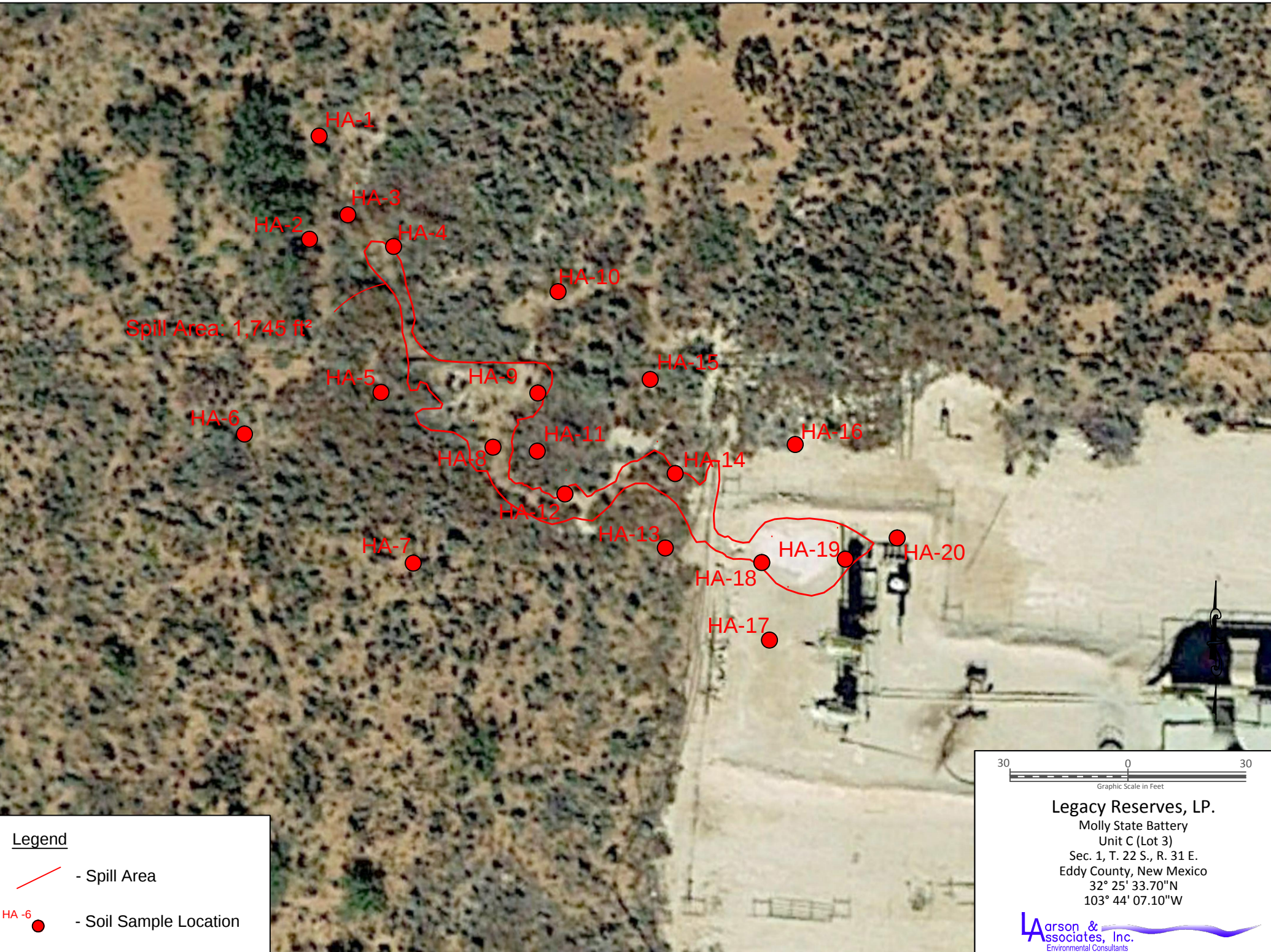


Figure 1 - Topographic Map



Spill Area: 1,745 ft²

Legend

 - Spill Area

 - Soil Sample Location

30 0 30
Graphic Scale in Feet

Legacy Reserves, LP.
Molly State Battery
Unit C (Lot 3)
Sec. 1, T. 22 S., R. 31 E.
Eddy County, New Mexico
32° 25' 33.70"N
103° 44' 07.10"W

Larson & Associates, Inc.
Environmental Consultants

Figure 2 - Aerial Map Showing Soil Sample Locations



Appendix A

Initial C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NAB1900758424
District RP	2RP-5155
Facility ID	
Application ID	pAB1900758182

Release Notification

Responsible Party

Responsible Party Legacy Reserves, L.P.	OGRID 240974
Contact Name Brian Cunningham	Contact Telephone 432-234-9450
Contact email bcunningham@legacyp.com	Incident # (assigned by OCD) NAB1900758424
Contact mailing address 303 West Wall Street, Suite 1300	

Location of Release Source

Latitude 32.42603° N Longitude -103.73530° W
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Molly State Battery	Site Type Battery
Date Release Discovered 12/12/18	API# (if applicable) 30-015-26815

Unit Letter	Section	Township	Range	County
C	1	22S	31E	Eddy

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

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☒ Crude Oil	Volume Released (bbls) 6 bbls	Volume Recovered (bbls) 4 bbls
☒ Produced Water	Volume Released (bbls) 24 bbls	Volume Recovered (bbls) 16 bbls
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

A leak formed in a flowline at the tank battery.

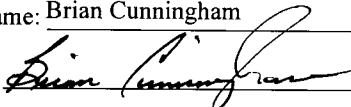
State of New Mexico
Oil Conservation Division

Incident ID	NAB1900758424
District RP	2RP-5155
Facility ID	
Application ID	pAB1900758182

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? The release was greater than 25 bbls of liquid.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Larson and Associates personnel called Christina Hernandez at 17:00 MST on 12/12/2018 and left a voice mail.	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☒ The source of the release has been stopped. ☒ The impacted area has been secured to protect human health and the environment. ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. ☒ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: 	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Brian Cunningham</u> Signature: <u></u> email: <u>bcunningham@legacylp.com</u>	Title: <u>Production Foreman</u> Date: <u>12/17/2018</u> Telephone: <u>432-234-9450</u>
OCD Only Received by: <u></u> Date: <u>1/07/2019</u>	

Appendix B

OCD Communications

Rachel Owen

From: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
Sent: Monday, January 7, 2019 4:50 PM
To: Rachel Owen; Hamlet, Robert, EMNRD; Venegas, Victoria, EMNRD
Cc: Mark Larson; bcunningham@legacyp.com
Subject: RE: C-141, Legacy Reserves, Molly State Battery

All,

Unless you object, and since this battery is adjacent to the Molly St 1 well (30-015-26815), we will enter this release under the Molly St 1 API number. Will send tracking number once assigned.

Thanks,

Mike Bratcher
NMOCD District 2
811 South First Street
Artesia, NM 88210
575-748-1283 Ext 108

From: Rachel Owen <rowen@laenvironmental.com>
Sent: Thursday, January 3, 2019 7:19 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
Cc: Mark Larson <Mark@laenvironmental.com>; bcunningham@legacyp.com
Subject: [EXT] C-141, Legacy Reserves, Molly State Battery

Good Morning Gentlemen,

Larson & Associates, Inc. (LAI), on behalf of Legacy Reserves, LP (Legacy), submits the attached C-141 for a produced water and crude oil spill at the Molly State Battery located in Eddy County, New Mexico. The C-141 was submitted to OCD District 1 on 12/17/2018. Your approval of the C-141 is requested. Please feel free to contact Mr. Brian Cunningham with Legacy bcunningham@legacyp.com, myself, or Mark Larson if you have any questions.

Respectfully,

Rachel Owen
Staff Geologist
Larson & Associates
Phone: 432.664.5357
Email: rowen@laenvironmental.com

Rachel Owen

From: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
Sent: Wednesday, January 16, 2019 4:03 PM
To: Rachel Owen; Hamlet, Robert, EMNRD; Venegas, Victoria, EMNRD
Cc: Mark Larson; bcunningham@legacyp.com
Subject: RE: C-141, Legacy Reserves, Molly State Battery

RE: Legacy Reserves * Molly St Btry * DOR: 12/12/2018

All,

The OCD tracking number for this release event is **2RP-5155**.

Thank you,

Mike Bratcher
NMOCD District 2
811 South First Street
Artesia, NM 88210
575-748-1283 Ext 108

From: Rachel Owen <rowen@laenvironmental.com>
Sent: Thursday, January 3, 2019 7:19 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
Cc: Mark Larson <Mark@laenvironmental.com>; bcunningham@legacyp.com
Subject: [EXT] C-141, Legacy Reserves, Molly State Battery

Good Morning Gentlemen,

Larson & Associates, Inc. (LAI), on behalf of Legacy Reserves, LP (Legacy), submits the attached C-141 for a produced water and crude oil spill at the Molly State Battery located in Eddy County, New Mexico. The C-141 was submitted to OCD District 1 on 12/17/2018. Your approval of the C-141 is requested. Please feel free to contact Mr. Brian Cunningham with Legacy bcunningham@legacyp.com, myself, or Mark Larson if you have any questions.

Respectfully,

Rachel Owen
Staff Geologist
Larson & Associates
Phone: 432.664.5357
Email: rowen@laenvironmental.com

Rachel Owen

From: Hernandez, Christina, EMNRD <Christina.Hernandez@state.nm.us>
Sent: Friday, February 1, 2019 5:17 PM
To: Rachel Owen; rmann@slo.state.nm.us
Cc: Mark Larson; bcunningham@legacylp.com
Subject: RE: C-141, Legacy Reserves, Molly State Battery
Attachments: 1RP-5307.pdf

Ms. Owen:

Please be advised that

1. The initial portion of the C-141 form does not include the calculations to determine the release volume. Visual estimation is not sufficient nor adequate. Please submit measurements in volume estimation; including dimensions, soil parameters (porosity, texture, bulk density, etc).
2. Provide dated, geo-referenced photo documentation for verification that the initial response activities have been employed to contain the release.
3. Per 19.15.29.13 NMAC, regulations of corresponding agencies supersede NMOCD's.

The 1RP for this incident is

5307	2/1/2019	A	Legacy	Molly State Battery		22S-31E-1C	12/1
-------------	----------	---	--------	---------------------	--	------------	------

Please remember to include this 1RP identifier to all communications. Revised NMAC 19.15.29 was effective on August 14, 2018. Delineate and remediate per regulation. Mind the timelines for submittal of requisite information.

Please be advised that NMOCD recommends a completed site characterization/delineation report be reviewed or approved by NMOCD BEFORE any significant remediation work towards closure.

Thanks,

Christina Hernandez
EMNRD-OCD
Environmental Specialist
1625 N. French Drive
Hobbs, NM 88240
575-393-6161 x111
Christina.Hernandez@state.nm.us

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

From: Rachel Owen <rowen@laenvironmental.com>
Sent: Monday, December 17, 2018 11:44 AM
To: Hernandez, Christina, EMNRD <Christina.Hernandez@state.nm.us>; Griswold, Jim, EMNRD <Jim.Griswold@state.nm.us>

Cc: Mark Larson <Mark@laenvironmental.com>; bcunningham@legacyp.com

Subject: [EXT] C-141, Legacy Reserves, Molly State Battery

Importance: High

Dear All,

Larson & Associates, Inc. (LAI), on behalf of Legacy Reserves, LP (Legacy), submits the attached C-141 for a produced water and crude oil spill at the Molly State Battery located in Eddy County, New Mexico. Your approval of the C-141 is requested. Please feel free to contact Mr. Brian Cunningham with Legacy bcunningham@legacyp.com, myself, or Mark Larson if you have any questions.

Respectfully,

Rachel Owen
Staff Geologist
Larson & Associates
Phone: 432.664.5357
Email: rowen@laenvironmental.com



Appendix C

Laboratory Reports

**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701**



Analytical Report

Prepared for:

Mark Larson
Larson & Associates, Inc.
P.O. Box 50685
Midland, TX 79710

Project: Molly State Battery

Project Number: 18-0138-08

Location: None Given

Lab Order Number: 9A09002



NELAP/TCEQ # T104704516-17-8

Report Date: 01/17/19

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
HA-1 (0-1')	9A09002-01	Soil	01/08/19 11:21	01-09-2019 09:18
HA-2 (0-1')	9A09002-05	Soil	01/08/19 11:34	01-09-2019 09:18
HA-3 (0-1')	9A09002-09	Soil	01/08/19 11:48	01-09-2019 09:18
HA-3 (1-2')	9A09002-10	Soil	01/08/19 11:54	01-09-2019 09:18
HA-3 (2-3')	9A09002-11	Soil	01/08/19 11:57	01-09-2019 09:18
HA-3 (3-4')	9A09002-12	Soil	01/08/19 11:59	01-09-2019 09:18
HA-4 (0-1')	9A09002-13	Soil	01/08/19 12:02	01-09-2019 09:18
HA-5 (0-1')	9A09002-17	Soil	01/08/19 12:36	01-09-2019 09:18
HA-5 (1-2')	9A09002-18	Soil	01/08/19 12:41	01-09-2019 09:18
HA-5 (2-3')	9A09002-19	Soil	01/08/19 12:46	01-09-2019 09:18
HA-5 (3-4')	9A09002-20	Soil	01/08/19 12:48	01-09-2019 09:18
HA-6 (0-1')	9A09002-21	Soil	01/08/19 12:51	01-09-2019 09:18

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

HA-1 (0-1')
9A09002-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00103	mg/kg dry	1	P9A1101	01/11/19	01/11/19	EPA 8021B
Toluene	ND	0.0103	mg/kg dry	1	P9A1101	01/11/19	01/11/19	EPA 8021B
Ethylbenzene	ND	0.00515	mg/kg dry	1	P9A1101	01/11/19	01/11/19	EPA 8021B
Xylene (p/m)	ND	0.0206	mg/kg dry	1	P9A1101	01/11/19	01/11/19	EPA 8021B
Xylene (o)	ND	0.0103	mg/kg dry	1	P9A1101	01/11/19	01/11/19	EPA 8021B
Surrogate: 4-Bromofluorobenzene		114 %	75-125		P9A1101	01/11/19	01/11/19	EPA 8021B
Surrogate: 1,4-Difluorobenzene		84.4 %	75-125		P9A1101	01/11/19	01/11/19	EPA 8021B

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.03	mg/kg dry	1	P9A1111	01/11/19	01/14/19	EPA 300.0
% Moisture	3.0	0.1	%	1	P9A1003	01/10/19	01/10/19	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P9A0906	01/09/19	01/09/19	TPH 8015M
>C12-C28	ND	25.8	mg/kg dry	1	P9A0906	01/09/19	01/09/19	TPH 8015M
>C28-C35	ND	25.8	mg/kg dry	1	P9A0906	01/09/19	01/09/19	TPH 8015M
Surrogate: 1-Chlorooctane		106 %	70-130		P9A0906	01/09/19	01/09/19	TPH 8015M
Surrogate: o-Terphenyl		122 %	70-130		P9A0906	01/09/19	01/09/19	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	01/09/19	01/09/19	calc

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

HA-2 (0-1')
9A09002-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00108	mg/kg dry	1	P9A1101	01/11/19	01/15/19	EPA 8021B	
Toluene	ND	0.0108	mg/kg dry	1	P9A1101	01/11/19	01/15/19	EPA 8021B	
Ethylbenzene	ND	0.00538	mg/kg dry	1	P9A1101	01/11/19	01/15/19	EPA 8021B	
Xylene (p/m)	ND	0.0215	mg/kg dry	1	P9A1101	01/11/19	01/15/19	EPA 8021B	
Xylene (o)	ND	0.0108	mg/kg dry	1	P9A1101	01/11/19	01/15/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		75.5 %	75-125		P9A1101	01/11/19	01/15/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		111 %	75-125		P9A1101	01/11/19	01/15/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.08	mg/kg dry	1	P9A1111	01/11/19	01/14/19	EPA 300.0	
% Moisture	7.0	0.1	%	1	P9A1003	01/10/19	01/10/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P9A0906	01/09/19	01/09/19	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P9A0906	01/09/19	01/09/19	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P9A0906	01/09/19	01/09/19	TPH 8015M	
Surrogate: 1-Chlorooctane		109 %	70-130		P9A0906	01/09/19	01/09/19	TPH 8015M	
Surrogate: o-Terphenyl		126 %	70-130		P9A0906	01/09/19	01/09/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	01/09/19	01/09/19	calc	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

HA-3 (0-1')
9A09002-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00103	mg/kg dry	1	P9A1101	01/11/19	01/11/19	EPA 8021B	
Toluene	ND	0.0103	mg/kg dry	1	P9A1101	01/11/19	01/11/19	EPA 8021B	
Ethylbenzene	ND	0.00515	mg/kg dry	1	P9A1101	01/11/19	01/11/19	EPA 8021B	
Xylene (p/m)	ND	0.0206	mg/kg dry	1	P9A1101	01/11/19	01/11/19	EPA 8021B	
Xylene (o)	ND	0.0103	mg/kg dry	1	P9A1101	01/11/19	01/11/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.4 %	75-125		P9A1101	01/11/19	01/11/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		121 %	75-125		P9A1101	01/11/19	01/11/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	6270	25.8	mg/kg dry	25	P9A1111	01/11/19	01/14/19	EPA 300.0	
% Moisture	3.0	0.1	%	1	P9A1003	01/10/19	01/10/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	38.0	25.8	mg/kg dry	1	P9A0906	01/09/19	01/09/19	TPH 8015M	
>C12-C28	1840	25.8	mg/kg dry	1	P9A0906	01/09/19	01/09/19	TPH 8015M	
>C28-C35	672	25.8	mg/kg dry	1	P9A0906	01/09/19	01/09/19	TPH 8015M	
Surrogate: 1-Chlorooctane		107 %	70-130		P9A0906	01/09/19	01/09/19	TPH 8015M	
Surrogate: o-Terphenyl		124 %	70-130		P9A0906	01/09/19	01/09/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	2550	25.8	mg/kg dry	1	[CALC]	01/09/19	01/09/19	calc	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

HA-3 (1-2')
9A09002-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	5990	26.0	mg/kg dry	25	P9A1112	01/11/19	01/14/19	EPA 300.0
% Moisture	4.0	0.1	%	1	P9A1003	01/10/19	01/10/19	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P9A0906	01/09/19	01/10/19	TPH 8015M
>C12-C28	148	26.0	mg/kg dry	1	P9A0906	01/09/19	01/10/19	TPH 8015M
>C28-C35	77.6	26.0	mg/kg dry	1	P9A0906	01/09/19	01/10/19	TPH 8015M
Surrogate: 1-Chlorooctane		100 %	70-130		P9A0906	01/09/19	01/10/19	TPH 8015M
Surrogate: o-Terphenyl		114 %	70-130		P9A0906	01/09/19	01/10/19	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	225	26.0	mg/kg dry	1	[CALC]	01/09/19	01/10/19	calc

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

HA-3 (2-3')
9A09002-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	5850	26.3	mg/kg dry	25	P9A1112	01/11/19	01/14/19	EPA 300.0
% Moisture	5.0	0.1	%	1	P9A1003	01/10/19	01/10/19	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P9A0906	01/09/19	01/10/19	TPH 8015M
>C12-C28	40.5	26.3	mg/kg dry	1	P9A0906	01/09/19	01/10/19	TPH 8015M
>C28-C35	ND	26.3	mg/kg dry	1	P9A0906	01/09/19	01/10/19	TPH 8015M
Surrogate: 1-Chlorooctane		109 %	70-130		P9A0906	01/09/19	01/10/19	TPH 8015M
Surrogate: o-Terphenyl		125 %	70-130		P9A0906	01/09/19	01/10/19	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	40.5	26.3	mg/kg dry	1	[CALC]	01/09/19	01/10/19	calc

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

HA-3 (3-4')
9A09002-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	4740	10.8	mg/kg dry	10	P9A1112	01/11/19	01/14/19	EPA 300.0
% Moisture	7.0	0.1	%	1	P9A1003	01/10/19	01/10/19	ASTM D2216

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

HA-4 (0-1')
9A09002-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00103	mg/kg dry	1	P9A1101	01/11/19	01/11/19	EPA 8021B	
Toluene	ND	0.0103	mg/kg dry	1	P9A1101	01/11/19	01/11/19	EPA 8021B	
Ethylbenzene	ND	0.00515	mg/kg dry	1	P9A1101	01/11/19	01/11/19	EPA 8021B	
Xylene (p/m)	ND	0.0206	mg/kg dry	1	P9A1101	01/11/19	01/11/19	EPA 8021B	
Xylene (o)	ND	0.0103	mg/kg dry	1	P9A1101	01/11/19	01/11/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		84.9 %	75-125		P9A1101	01/11/19	01/11/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		107 %	75-125		P9A1101	01/11/19	01/11/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	25.7	1.03	mg/kg dry	1	P9A1112	01/11/19	01/14/19	EPA 300.0	
% Moisture	3.0	0.1	%	1	P9A1003	01/10/19	01/10/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P9A0906	01/09/19	01/10/19	TPH 8015M	
>C12-C28	32.9	25.8	mg/kg dry	1	P9A0906	01/09/19	01/10/19	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P9A0906	01/09/19	01/10/19	TPH 8015M	
Surrogate: 1-Chlorooctane		92.0 %	70-130		P9A0906	01/09/19	01/10/19	TPH 8015M	
Surrogate: o-Terphenyl		104 %	70-130		P9A0906	01/09/19	01/10/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	32.9	25.8	mg/kg dry	1	[CALC]	01/09/19	01/10/19	calc	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

HA-5 (0-1')
9A09002-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00104	mg/kg dry	1	P9A1101	01/11/19	01/11/19	EPA 8021B	
Toluene	ND	0.0104	mg/kg dry	1	P9A1101	01/11/19	01/11/19	EPA 8021B	
Ethylbenzene	ND	0.00521	mg/kg dry	1	P9A1101	01/11/19	01/11/19	EPA 8021B	
Xylene (p/m)	ND	0.0208	mg/kg dry	1	P9A1101	01/11/19	01/11/19	EPA 8021B	
Xylene (o)	0.0151	0.0104	mg/kg dry	1	P9A1101	01/11/19	01/11/19	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		76.8 %	75-125		P9A1101	01/11/19	01/11/19	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		90.5 %	75-125		P9A1101	01/11/19	01/11/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	3310	10.4	mg/kg dry	10	P9A1112	01/11/19	01/14/19	EPA 300.0	
% Moisture	4.0	0.1	%	1	P9A1003	01/10/19	01/10/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	56.6	26.0	mg/kg dry	1	P9A0906	01/09/19	01/10/19	TPH 8015M	
>C12-C28	395	26.0	mg/kg dry	1	P9A0906	01/09/19	01/10/19	TPH 8015M	
>C28-C35	96.8	26.0	mg/kg dry	1	P9A0906	01/09/19	01/10/19	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		96.0 %	70-130		P9A0906	01/09/19	01/10/19	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		111 %	70-130		P9A0906	01/09/19	01/10/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	548	26.0	mg/kg dry	1	[CALC]	01/09/19	01/10/19	calc	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

HA-5 (1-2')
9A09002-18 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	9140	26.9	mg/kg dry	25	P9A1112	01/11/19	01/14/19	EPA 300.0
% Moisture	7.0	0.1	%	1	P9A1003	01/10/19	01/10/19	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	39.8	26.9	mg/kg dry	1	P9A0906	01/09/19	01/10/19	TPH 8015M
>C12-C28	186	26.9	mg/kg dry	1	P9A0906	01/09/19	01/10/19	TPH 8015M
>C28-C35	53.8	26.9	mg/kg dry	1	P9A0906	01/09/19	01/10/19	TPH 8015M
<i>Surrogate: 1-Chlorooctane</i>		95.9 %	70-130		P9A0906	01/09/19	01/10/19	TPH 8015M
<i>Surrogate: o-Terphenyl</i>		111 %	70-130		P9A0906	01/09/19	01/10/19	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	279	26.9	mg/kg dry	1	[CALC]	01/09/19	01/10/19	calc

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

HA-5 (2-3')
9A09002-19 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	9860	56.2	mg/kg dry	50	P9A1112	01/11/19	01/14/19	EPA 300.0
% Moisture	11.0	0.1	%	1	P9A1003	01/10/19	01/10/19	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	60.8	28.1	mg/kg dry	1	P9A0906	01/09/19	01/10/19	TPH 8015M
>C12-C28	89.2	28.1	mg/kg dry	1	P9A0906	01/09/19	01/10/19	TPH 8015M
>C28-C35	ND	28.1	mg/kg dry	1	P9A0906	01/09/19	01/10/19	TPH 8015M
<i>Surrogate: 1-Chlorooctane</i>		106 %	70-130		P9A0906	01/09/19	01/10/19	TPH 8015M
<i>Surrogate: o-Terphenyl</i>		122 %	70-130		P9A0906	01/09/19	01/10/19	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	150	28.1	mg/kg dry	1	[CALC]	01/09/19	01/10/19	calc

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

HA-5 (3-4')
9A09002-20 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	4980	11.5	mg/kg dry	10	P9A1112	01/11/19	01/14/19	EPA 300.0
% Moisture	13.0	0.1	%	1	P9A1003	01/10/19	01/10/19	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.7	mg/kg dry	1	P9A0906	01/09/19	01/10/19	TPH 8015M
>C12-C28	56.6	28.7	mg/kg dry	1	P9A0906	01/09/19	01/10/19	TPH 8015M
>C28-C35	ND	28.7	mg/kg dry	1	P9A0906	01/09/19	01/10/19	TPH 8015M
Surrogate: 1-Chlorooctane		105 %	70-130		P9A0906	01/09/19	01/10/19	TPH 8015M
Surrogate: o-Terphenyl		121 %	70-130		P9A0906	01/09/19	01/10/19	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	56.6	28.7	mg/kg dry	1	[CALC]	01/09/19	01/10/19	calc

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

HA-6 (0-1')
9A09002-21 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00104	mg/kg dry	1	P9A1101	01/11/19	01/11/19	EPA 8021B	
Toluene	ND	0.0104	mg/kg dry	1	P9A1101	01/11/19	01/11/19	EPA 8021B	
Ethylbenzene	ND	0.00521	mg/kg dry	1	P9A1101	01/11/19	01/11/19	EPA 8021B	
Xylene (p/m)	ND	0.0208	mg/kg dry	1	P9A1101	01/11/19	01/11/19	EPA 8021B	
Xylene (o)	ND	0.0104	mg/kg dry	1	P9A1101	01/11/19	01/11/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		121 %	75-125		P9A1101	01/11/19	01/11/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		83.3 %	75-125		P9A1101	01/11/19	01/11/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	35.7	1.04	mg/kg dry	1	P9A1112	01/11/19	01/14/19	EPA 300.0	
% Moisture	4.0	0.1	%	1	P9A1003	01/10/19	01/10/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P9A0906	01/09/19	01/10/19	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P9A0906	01/09/19	01/10/19	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P9A0906	01/09/19	01/10/19	TPH 8015M	
Surrogate: 1-Chlorooctane		112 %	70-130		P9A0906	01/09/19	01/10/19	TPH 8015M	
Surrogate: o-Terphenyl		131 %	70-130		P9A0906	01/09/19	01/10/19	TPH 8015M	S-09
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	01/09/19	01/10/19	calc	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch P9A1101 - General Preparation (GC)

Blank (P9A1101-BLK1)

Prepared & Analyzed: 01/11/19

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.0100	"							
Ethylbenzene	ND	0.00500	"							
Xylene (p/m)	ND	0.0200	"							
Xylene (o)	ND	0.0100	"							
Surrogate: 1,4-Difluorobenzene	0.0506		"	0.0600		84.3	75-125			
Surrogate: 4-Bromofluorobenzene	0.0625		"	0.0600		104	75-125			

LCS (P9A1101-BS1)

Prepared & Analyzed: 01/11/19

Benzene	0.110	0.00100	mg/kg wet	0.100		110	70-130			
Toluene	0.114	0.0100	"	0.100		114	70-130			
Ethylbenzene	0.108	0.00500	"	0.100		108	70-130			
Xylene (p/m)	0.181	0.0200	"	0.200		90.5	70-130			
Xylene (o)	0.113	0.0100	"	0.100		113	70-130			
Surrogate: 4-Bromofluorobenzene	0.0616		"	0.0600		103	75-125			
Surrogate: 1,4-Difluorobenzene	0.0515		"	0.0600		85.9	75-125			

LCS Dup (P9A1101-BSD1)

Prepared & Analyzed: 01/11/19

Benzene	0.104	0.00100	mg/kg wet	0.100		104	70-130	5.61	20	
Toluene	0.107	0.0100	"	0.100		107	70-130	5.80	20	
Ethylbenzene	0.125	0.00500	"	0.100		125	70-130	14.3	20	
Xylene (p/m)	0.185	0.0200	"	0.200		92.7	70-130	2.45	20	
Xylene (o)	0.108	0.0100	"	0.100		108	70-130	4.33	20	
Surrogate: 4-Bromofluorobenzene	0.0513		"	0.0600		85.5	75-125			
Surrogate: 1,4-Difluorobenzene	0.0511		"	0.0600		85.2	75-125			

Matrix Spike (P9A1101-MS1)

Source: 9A10029-01

Prepared & Analyzed: 01/11/19

Benzene	0.103	0.00118	mg/kg dry	0.118	ND	87.7	80-120			
Toluene	0.0973	0.0118	"	0.118	0.00366	79.6	80-120			QM-05
Ethylbenzene	0.114	0.00588	"	0.118	0.0246	75.9	80-120			QM-05
Xylene (p/m)	0.171	0.0235	"	0.235	0.0673	44.0	80-120			QM-05
Xylene (o)	0.0978	0.0118	"	0.118	0.0192	66.8	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	0.0778		"	0.0706		110	75-125			
Surrogate: 4-Bromofluorobenzene	0.0947		"	0.0706		134	75-125			S-GC

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch P9A1101 - General Preparation (GC)

Matrix Spike Dup (P9A1101-MSD1)

Source: 9A10029-01

Prepared & Analyzed: 01/11/19

Benzene	0.110	0.00118	mg/kg dry	0.118	ND	93.2	80-120	6.08	20	
Toluene	0.104	0.0118	"	0.118	0.00366	85.0	80-120	6.54	20	
Ethylbenzene	0.121	0.00588	"	0.118	0.0246	82.1	80-120	7.81	20	
Xylene (p/m)	0.178	0.0235	"	0.235	0.0673	46.9	80-120	6.25	20	QM-05
Xylene (o)	0.107	0.0118	"	0.118	0.0192	75.0	80-120	11.5	20	QM-05
Surrogate: 4-Bromofluorobenzene	0.0852		"	0.0706		121	75-125			
Surrogate: 1,4-Difluorobenzene	0.0751		"	0.0706		106	75-125			

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch P9A1003 - * DEFAULT PREP *****

Blank (P9A1003-BLK1)		Prepared & Analyzed: 01/10/19								
% Moisture	ND	0.1	%							
Duplicate (P9A1003-DUP1)		Source: 9A09002-24		Prepared & Analyzed: 01/10/19						
% Moisture	8.0	0.1	%		8.0			0.00	20	
Duplicate (P9A1003-DUP2)		Source: 9A09006-23		Prepared & Analyzed: 01/10/19						
% Moisture	15.0	0.1	%		16.0			6.45	20	
Duplicate (P9A1003-DUP3)		Source: 9A09008-02		Prepared & Analyzed: 01/10/19						
% Moisture	12.0	0.1	%		11.0			8.70	20	
Duplicate (P9A1003-DUP4)		Source: 9A09009-07		Prepared & Analyzed: 01/10/19						
% Moisture	11.0	0.1	%		12.0			8.70	20	

Batch P9A1111 - * DEFAULT PREP *****

Blank (P9A1111-BLK1)		Prepared: 01/11/19 Analyzed: 01/12/19								
Chloride	ND	1.00	mg/kg wet							
LCS (P9A1111-BS1)		Prepared: 01/11/19 Analyzed: 01/12/19								
Chloride	367	1.00	mg/kg wet	400		91.8	80-120			
LCS Dup (P9A1111-BSD1)		Prepared: 01/11/19 Analyzed: 01/12/19								
Chloride	371	1.00	mg/kg wet	400		92.6	80-120	0.949	20	
Duplicate (P9A1111-DUP1)		Source: 9A08005-04		Prepared: 01/11/19 Analyzed: 01/12/19						
Chloride	9960	58.1	mg/kg dry		9400			5.84	20	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P9A1111 - *** DEFAULT PREP ***										
Duplicate (P9A1111-DUP2)		Source: 9A08005-14		Prepared: 01/11/19 Analyzed: 01/12/19						
Chloride	9190	60.2	mg/kg dry		9540			3.74	20	
Matrix Spike (P9A1111-MS1)		Source: 9A08005-04		Prepared: 01/11/19 Analyzed: 01/12/19						
Chloride	15200	58.1	mg/kg dry	5810	9400	99.9	80-120			
Batch P9A1112 - *** DEFAULT PREP ***										
Blank (P9A1112-BLK1)		Prepared: 01/11/19 Analyzed: 01/15/19								
Chloride	ND	1.00	mg/kg wet							
LCS (P9A1112-BS1)		Prepared: 01/11/19 Analyzed: 01/14/19								
Chloride	402	1.00	mg/kg wet	400		100	80-120			
LCS Dup (P9A1112-BSD1)		Prepared: 01/11/19 Analyzed: 01/14/19								
Chloride	398	1.00	mg/kg wet	400		99.6	80-120	0.900	20	
Duplicate (P9A1112-DUP1)		Source: 9A09002-10		Prepared: 01/11/19 Analyzed: 01/14/19						
Chloride	5910	26.0	mg/kg dry		5990			1.35	20	
Duplicate (P9A1112-DUP2)		Source: 9A09006-02		Prepared: 01/11/19 Analyzed: 01/14/19						
Chloride	1370	6.25	mg/kg dry		1370			0.210	20	
Matrix Spike (P9A1112-MS1)		Source: 9A09002-10		Prepared: 01/11/19 Analyzed: 01/14/19						
Chloride	8270	26.0	mg/kg dry	2600	5990	87.7	80-120			

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch P9A0906 - TX 1005

Blank (P9A0906-BLK1)

Prepared & Analyzed: 01/09/19

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	102		"	100		102	70-130			
Surrogate: o-Terphenyl	59.0		"	50.0		118	70-130			

LCS (P9A0906-BS1)

Prepared & Analyzed: 01/09/19

C6-C12	872	25.0	mg/kg wet	1000		87.2	75-125			
>C12-C28	1080	25.0	"	1000		108	75-125			
Surrogate: 1-Chlorooctane	121		"	100		121	70-130			
Surrogate: o-Terphenyl	59.4		"	50.0		119	70-130			

LCS Dup (P9A0906-BSD1)

Prepared & Analyzed: 01/09/19

C6-C12	818	25.0	mg/kg wet	1000		81.8	75-125	6.49	20	
>C12-C28	1010	25.0	"	1000		101	75-125	6.55	20	
Surrogate: 1-Chlorooctane	113		"	100		113	70-130			
Surrogate: o-Terphenyl	51.5		"	50.0		103	70-130			

Matrix Spike (P9A0906-MS1)

Source: 9A09002-21

Prepared: 01/09/19 Analyzed: 01/10/19

C6-C12	875	26.0	mg/kg dry	1040	14.2	82.6	75-125			
>C12-C28	1090	26.0	"	1040	16.4	103	75-125			
Surrogate: 1-Chlorooctane	125		"	104		120	70-130			
Surrogate: o-Terphenyl	60.2		"	52.1		116	70-130			

Matrix Spike Dup (P9A0906-MSD1)

Source: 9A09002-21

Prepared: 01/09/19 Analyzed: 01/10/19

C6-C12	844	26.0	mg/kg dry	1040	14.2	79.7	75-125	3.64	20	
>C12-C28	1050	26.0	"	1040	16.4	99.6	75-125	3.58	20	
Surrogate: 1-Chlorooctane	122		"	104		117	70-130			
Surrogate: o-Terphenyl	60.5		"	52.1		116	70-130			

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

S-09 Surrogate recovery limits have been exceeded.

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

1/17/2019

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Page 21 of 22

FIELD NOTES

[illegible]

LABORATORY:	_____	☐ HAND DELIVERED
PBET	_____	

Page 22 of 22

TRRP report?		S=SOIL W=WATER A=AIR		P=PAINT SL=SLUDGE OT=OTHER		TIME ZONE: Time zone/State:		Field Sample I.D.		Lab #	Date	Time	Matrix	# of Containers	PRESERVATION				ANALYSES																FIELD NOTES				
☐ Yes ☒ No															HCl	HNO ₃	H ₂ SO ₄ ☐ NaOH ☐	ICE	UNPRESERVED	☐ BTEX ☐ MTBE ☐ TPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐ ☐ GASOLINE MOD 8015 ☐ DIESEL - MOD 8015 ☐ OIL - MOD 8015 ☐ VOC 8280 ☐ SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ ☐ 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ TBLP - METALS (RCRA) ☐ TCLP VOC ☐ ☐ TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ TOTAL METALS (RCRA) ☐ OTHER LIST ☐ ☐ LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐ RCI ☐ TOX ☐ FLASHPOINT ☐ TDS ☐ TSS ☐ % MOISTURE ☐ CHROMIUM ☐ ☐ PH ☐ HEXAVALENT CHROMIUM ☐ PECHLORATE ☐ EXPLOSIVES ☐ ANIONS ☐ ALKALINITY ☐																			
HA-4(3-4)		16		1/8/19		12:14		S		L										☒ BTEX ☒ MTBE ☒ TPH 418.1 ☒ TPH 1005 ☒ TPH 1006 ☒ ☒ GASOLINE MOD 8015 ☒ DIESEL - MOD 8015 ☒ OIL - MOD 8015 ☒ VOC 8280 ☒ SVOC 8270 ☒ PAH 8270 ☒ HOLDPAH ☒ ☒ 8081 PESTICIDES ☒ 8151 HERBICIDES ☒ TBLP - METALS (RCRA) ☒ TCLP VOC ☒ ☒ TCLP - PEST ☒ HERB ☒ Semi-VOC ☒ TOTAL METALS (RCRA) ☒ OTHER LIST ☒ ☒ LEAD - TOTAL ☒ D.W. 200.8 ☒ TCLP ☒ RCI ☒ TOX ☒ FLASHPOINT ☒ TDS ☒ TSS ☒ % MOISTURE ☒ CHROMIUM ☒ ☒ PH ☒ HEXAVALENT CHROMIUM ☒ PECHLORATE ☒ EXPLOSIVES ☒ ANIONS ☒ ALKALINITY ☒																Delvade chloride until 60mg/L is reached Delvade TPH until 150 mg/L is reached			
HA-5(10-1)		17		12:36																																			
HA-5(1-2)		18		12:41																																			
HA-5(2-3)		19		12:46																																			
HA-5(3-4)		20		12:48																																			
HA-6(10-1)		21		12:51																																			
HA-6(1-2)		22		12:58																																			
HA-6(2-3)		23		13:06																																			
HA-6(3-4)		24		13:07																																			
TOTAL																																							
RELINQUISHED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		TURN AROUND TIME		LABORATORY USE ONLY:		RECEIVING TEMP: 1-1		THERM: 12		CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED		CARRIER BILL #		HAND DELIVERED																					
RELINQUISHED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		TURN AROUND TIME		LABORATORY USE ONLY:		RECEIVING TEMP: 1-1		THERM: 12		CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED		CARRIER BILL #		HAND DELIVERED																					
RELINQUISHED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		TURN AROUND TIME		LABORATORY USE ONLY:		RECEIVING TEMP: 1-1		THERM: 12		CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED		CARRIER BILL #		HAND DELIVERED																					

**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701**



Analytical Report

Prepared for:

Mark Larson
Larson & Associates, Inc.
P.O. Box 50685
Midland, TX 79710

Project: Molly State Battery

Project Number: 18-0138-08

Location:

Lab Order Number: 9A10016



NELAP/TCEQ # T104704516-17-8

Report Date: 01/22/19

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
HA-7 (0-1')	9A10016-01	Soil	01/09/19 10:39	01-10-2019 09:10
HA-8 (0-1')	9A10016-05	Soil	01/09/19 10:52	01-10-2019 09:10
HA-8 (1-2')	9A10016-06	Soil	01/09/19 10:59	01-10-2019 09:10
HA-8 (2-3')	9A10016-07	Soil	01/09/19 11:26	01-10-2019 09:10
HA-8 (3-4')	9A10016-08	Soil	01/09/19 11:30	01-10-2019 09:10
HA-9 (0-1')	9A10016-09	Soil	01/09/19 11:34	01-10-2019 09:10
HA-10 (0-1')	9A10016-13	Soil	01/09/19 12:00	01-10-2019 09:10
HA-11 (0-1')	9A10016-17	Soil	01/09/19 12:36	01-10-2019 09:10
HA-12 (0-1')	9A10016-19	Soil	01/09/19 12:52	01-10-2019 09:10
HA-12 (1-2')	9A10016-20	Soil	01/09/19 12:58	01-10-2019 09:10
HA-12 (2-3')	9A10016-21	Soil	01/09/19 13:08	01-10-2019 09:10
HA-12 (3-4')	9A10016-22	Soil	01/09/19 13:13	01-10-2019 09:10
HA-13 (0-1')	9A10016-23	Soil	01/09/19 13:17	01-10-2019 09:10
HA-14 (0-1')	9A10016-27	Soil	01/09/19 14:16	01-10-2019 09:10
HA-14 (1-2')	9A10016-28	Soil	01/09/19 14:21	01-10-2019 09:10
HA-14 (2-3')	9A10016-29	Soil	01/09/19 14:27	01-10-2019 09:10
HA-14 (3-4')	9A10016-30	Soil	01/09/19 14:31	01-10-2019 09:10
HA-15 (0-1')	9A10016-31	Soil	01/09/19 14:36	01-10-2019 09:10
HA-16 (0-0.5')	9A10016-35	Soil	01/09/19 14:56	01-10-2019 09:10
HA-17 (0-0.5')	9A10016-36	Soil	01/09/19 15:00	01-10-2019 09:10
HA-18 (0-0.5')	9A10016-37	Soil	01/09/19 15:07	01-10-2019 09:10
HA-19 (0-0.5')	9A10016-38	Soil	01/09/19 15:18	01-10-2019 09:10
HA-20 (0-0.5')	9A10016-39	Soil	01/09/19 15:29	01-10-2019 09:10

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

HA-7 (0-1')
9A10016-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00103	mg/kg dry	1	P9A1405	01/11/19	01/11/19	EPA 8021B	
Toluene	ND	0.0103	mg/kg dry	1	P9A1405	01/11/19	01/11/19	EPA 8021B	
Ethylbenzene	ND	0.00515	mg/kg dry	1	P9A1405	01/11/19	01/11/19	EPA 8021B	
Xylene (p/m)	ND	0.0206	mg/kg dry	1	P9A1405	01/11/19	01/11/19	EPA 8021B	
Xylene (o)	ND	0.0103	mg/kg dry	1	P9A1405	01/11/19	01/11/19	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>106 %</i>	<i>75-125</i>		<i>P9A1405</i>	<i>01/11/19</i>	<i>01/11/19</i>	<i>EPA 8021B</i>	
<i>Surrogate: 1,4-Difluorobenzene</i>		<i>87.2 %</i>	<i>75-125</i>		<i>P9A1405</i>	<i>01/11/19</i>	<i>01/11/19</i>	<i>EPA 8021B</i>	

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.03	mg/kg dry	1	P9A1508	01/15/19	01/17/19	EPA 300.0	
% Moisture	3.0	0.1	%	1	P9A1402	01/14/19	01/14/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P9A1501	01/14/19	01/14/19	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P9A1501	01/14/19	01/14/19	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P9A1501	01/14/19	01/14/19	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		<i>89.9 %</i>	<i>70-130</i>		<i>P9A1501</i>	<i>01/14/19</i>	<i>01/14/19</i>	<i>TPH 8015M</i>	
<i>Surrogate: o-Terphenyl</i>		<i>103 %</i>	<i>70-130</i>		<i>P9A1501</i>	<i>01/14/19</i>	<i>01/14/19</i>	<i>TPH 8015M</i>	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	01/14/19	01/14/19	calc	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

HA-8 (0-1')
9A10016-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00106	mg/kg dry	1	P9A1405	01/11/19	01/11/19	EPA 8021B	
Toluene	ND	0.0106	mg/kg dry	1	P9A1405	01/11/19	01/11/19	EPA 8021B	
Ethylbenzene	ND	0.00532	mg/kg dry	1	P9A1405	01/11/19	01/11/19	EPA 8021B	
Xylene (p/m)	ND	0.0213	mg/kg dry	1	P9A1405	01/11/19	01/11/19	EPA 8021B	
Xylene (o)	ND	0.0106	mg/kg dry	1	P9A1405	01/11/19	01/11/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		87.5 %	75-125		P9A1405	01/11/19	01/11/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		111 %	75-125		P9A1405	01/11/19	01/11/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	12500	53.2	mg/kg dry	50	P9A1508	01/15/19	01/17/19	EPA 300.0	
% Moisture	6.0	0.1	%	1	P9A1402	01/14/19	01/14/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P9A1501	01/14/19	01/14/19	TPH 8015M	
>C12-C28	28.8	26.6	mg/kg dry	1	P9A1501	01/14/19	01/14/19	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P9A1501	01/14/19	01/14/19	TPH 8015M	
Surrogate: 1-Chlorooctane		90.8 %	70-130		P9A1501	01/14/19	01/14/19	TPH 8015M	
Surrogate: o-Terphenyl		104 %	70-130		P9A1501	01/14/19	01/14/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	28.8	26.6	mg/kg dry	1	[CALC]	01/14/19	01/14/19	calc	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

HA-8 (1-2')
9A10016-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	16200	54.3	mg/kg dry	50	P9A1508	01/15/19	01/17/19	EPA 300.0
% Moisture	8.0	0.1	%	1	P9A1402	01/14/19	01/14/19	ASTM D2216

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

HA-8 (2-3')
9A10016-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	18300	56.8	mg/kg dry	50	P9A1508	01/15/19	01/17/19	EPA 300.0
% Moisture	12.0	0.1	%	1	P9A1402	01/14/19	01/14/19	ASTM D2216

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

HA-8 (3-4')
9A10016-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	10700	28.7	mg/kg dry	25	P9A1508	01/15/19	01/17/19	EPA 300.0
% Moisture	13.0	0.1	%	1	P9A1402	01/14/19	01/14/19	ASTM D2216

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

HA-9 (0-1')
9A10016-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0211	mg/kg dry	20	P9A1405	01/11/19	01/12/19	EPA 8021B	
Toluene	ND	0.211	mg/kg dry	20	P9A1405	01/11/19	01/12/19	EPA 8021B	
Ethylbenzene	ND	0.105	mg/kg dry	20	P9A1405	01/11/19	01/12/19	EPA 8021B	
Xylene (p/m)	2.36	0.421	mg/kg dry	20	P9A1405	01/11/19	01/12/19	EPA 8021B	
Xylene (o)	0.327	0.211	mg/kg dry	20	P9A1405	01/11/19	01/12/19	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		84.0 %	75-125		P9A1405	01/11/19	01/12/19	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		87.4 %	75-125		P9A1405	01/11/19	01/12/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	353	1.05	mg/kg dry	1	P9A1508	01/15/19	01/17/19	EPA 300.0	
% Moisture	5.0	0.1	%	1	P9A1402	01/14/19	01/14/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P9A1501	01/14/19	01/14/19	TPH 8015M	
>C12-C28	76.4	26.3	mg/kg dry	1	P9A1501	01/14/19	01/14/19	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P9A1501	01/14/19	01/14/19	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		86.0 %	70-130		P9A1501	01/14/19	01/14/19	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		98.8 %	70-130		P9A1501	01/14/19	01/14/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	76.4	26.3	mg/kg dry	1	[CALC]	01/14/19	01/14/19	calc	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

HA-10 (0-1')
9A10016-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00104	mg/kg dry	1	P9A1405	01/11/19	01/11/19	EPA 8021B	
Toluene	ND	0.0104	mg/kg dry	1	P9A1405	01/11/19	01/11/19	EPA 8021B	
Ethylbenzene	ND	0.00521	mg/kg dry	1	P9A1405	01/11/19	01/11/19	EPA 8021B	
Xylene (p/m)	ND	0.0208	mg/kg dry	1	P9A1405	01/11/19	01/11/19	EPA 8021B	
Xylene (o)	ND	0.0104	mg/kg dry	1	P9A1405	01/11/19	01/11/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		87.9 %	75-125		P9A1405	01/11/19	01/11/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		114 %	75-125		P9A1405	01/11/19	01/11/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	11.5	1.04	mg/kg dry	1	P9A1508	01/15/19	01/17/19	EPA 300.0	
% Moisture	4.0	0.1	%	1	P9A1402	01/14/19	01/14/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P9A1501	01/14/19	01/14/19	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P9A1501	01/14/19	01/14/19	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P9A1501	01/14/19	01/14/19	TPH 8015M	
Surrogate: 1-Chlorooctane		89.0 %	70-130		P9A1501	01/14/19	01/14/19	TPH 8015M	
Surrogate: o-Terphenyl		104 %	70-130		P9A1501	01/14/19	01/14/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	01/14/19	01/14/19	calc	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

HA-11 (0-1')
9A10016-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00114	mg/kg dry	1	P9A1405	01/11/19	01/11/19	EPA 8021B	
Toluene	ND	0.0114	mg/kg dry	1	P9A1405	01/11/19	01/11/19	EPA 8021B	
Ethylbenzene	ND	0.00568	mg/kg dry	1	P9A1405	01/11/19	01/11/19	EPA 8021B	
Xylene (p/m)	ND	0.0227	mg/kg dry	1	P9A1405	01/11/19	01/11/19	EPA 8021B	
Xylene (o)	ND	0.0114	mg/kg dry	1	P9A1405	01/11/19	01/11/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		84.0 %	75-125		P9A1405	01/11/19	01/11/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		109 %	75-125		P9A1405	01/11/19	01/11/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	16.3	1.14	mg/kg dry	1	P9A1508	01/15/19	01/17/19	EPA 300.0	
% Moisture	22.0	0.1	%	1	P9A1402	01/14/19	01/14/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.4	mg/kg dry	1	P9A1501	01/14/19	01/14/19	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P9A1501	01/14/19	01/14/19	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P9A1501	01/14/19	01/14/19	TPH 8015M	
Surrogate: 1-Chlorooctane		88.8 %	70-130		P9A1501	01/14/19	01/14/19	TPH 8015M	
Surrogate: o-Terphenyl		104 %	70-130		P9A1501	01/14/19	01/14/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	01/14/19	01/14/19	calc	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

HA-12 (0-1')
9A10016-19 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/kg dry	1	P9A1405	01/11/19	01/11/19	EPA 8021B	
Toluene	ND	0.0100	mg/kg dry	1	P9A1405	01/11/19	01/11/19	EPA 8021B	
Ethylbenzene	ND	0.00500	mg/kg dry	1	P9A1405	01/11/19	01/11/19	EPA 8021B	
Xylene (p/m)	ND	0.0200	mg/kg dry	1	P9A1405	01/11/19	01/11/19	EPA 8021B	
Xylene (o)	ND	0.0100	mg/kg dry	1	P9A1405	01/11/19	01/11/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		91.0 %	75-125		P9A1405	01/11/19	01/11/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		115 %	75-125		P9A1405	01/11/19	01/11/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	6270	25.0	mg/kg dry	25	P9A1510	01/15/19	01/16/19	EPA 300.0	
% Moisture	ND	0.1	%	1	P9A1402	01/14/19	01/14/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.0	mg/kg dry	1	P9A1501	01/14/19	01/14/19	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P9A1501	01/14/19	01/14/19	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P9A1501	01/14/19	01/14/19	TPH 8015M	
Surrogate: 1-Chlorooctane		87.6 %	70-130		P9A1501	01/14/19	01/14/19	TPH 8015M	
Surrogate: o-Terphenyl		103 %	70-130		P9A1501	01/14/19	01/14/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	01/14/19	01/14/19	calc	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

HA-12 (1-2')
9A10016-20 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	3990	13.0	mg/kg dry	10	P9A1608	01/16/19	01/18/19	EPA 300.0
% Moisture	23.0	0.1	%	1	P9A1402	01/14/19	01/14/19	ASTM D2216

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

HA-12 (2-3')
9A10016-21 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	5690	12.2	mg/kg dry	10	P9A1608	01/16/19	01/18/19	EPA 300.0
% Moisture	18.0	0.1	%	1	P9A1402	01/14/19	01/14/19	ASTM D2216

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

HA-12 (3-4')
9A10016-22 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	1760	5.75	mg/kg dry	5	P9A1608	01/16/19	01/18/19	EPA 300.0	
% Moisture	13.0	0.1	%	1	P9A1402	01/14/19	01/14/19	ASTM D2216	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

HA-13 (0-1')
9A10016-23 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00104	mg/kg dry	1	P9A1405	01/11/19	01/11/19	EPA 8021B	
Toluene	ND	0.0104	mg/kg dry	1	P9A1405	01/11/19	01/11/19	EPA 8021B	
Ethylbenzene	ND	0.00521	mg/kg dry	1	P9A1405	01/11/19	01/11/19	EPA 8021B	
Xylene (p/m)	ND	0.0208	mg/kg dry	1	P9A1405	01/11/19	01/11/19	EPA 8021B	
Xylene (o)	ND	0.0104	mg/kg dry	1	P9A1405	01/11/19	01/11/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		115 %	75-125		P9A1405	01/11/19	01/11/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		85.3 %	75-125		P9A1405	01/11/19	01/11/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	24.8	1.04	mg/kg dry	1	P9A1608	01/16/19	01/18/19	EPA 300.0	
% Moisture	4.0	0.1	%	1	P9A1402	01/14/19	01/14/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P9A1501	01/14/19	01/14/19	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P9A1501	01/14/19	01/14/19	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P9A1501	01/14/19	01/14/19	TPH 8015M	
Surrogate: 1-Chlorooctane		83.1 %	70-130		P9A1501	01/14/19	01/14/19	TPH 8015M	
Surrogate: o-Terphenyl		97.1 %	70-130		P9A1501	01/14/19	01/14/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	01/14/19	01/14/19	calc	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

HA-14 (0-1')
9A10016-27 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00105	mg/kg dry	1	P9A1405	01/11/19	01/12/19	EPA 8021B	
Toluene	ND	0.0105	mg/kg dry	1	P9A1405	01/11/19	01/12/19	EPA 8021B	
Ethylbenzene	ND	0.00526	mg/kg dry	1	P9A1405	01/11/19	01/12/19	EPA 8021B	
Xylene (p/m)	ND	0.0211	mg/kg dry	1	P9A1405	01/11/19	01/12/19	EPA 8021B	
Xylene (o)	ND	0.0105	mg/kg dry	1	P9A1405	01/11/19	01/12/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		89.3 %	75-125		P9A1405	01/11/19	01/12/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		114 %	75-125		P9A1405	01/11/19	01/12/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	7980	26.3	mg/kg dry	25	P9A1608	01/16/19	01/18/19	EPA 300.0	
% Moisture	5.0	0.1	%	1	P9A1402	01/14/19	01/14/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P9A1501	01/14/19	01/14/19	TPH 8015M	
>C12-C28	44.0	26.3	mg/kg dry	1	P9A1501	01/14/19	01/14/19	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P9A1501	01/14/19	01/14/19	TPH 8015M	
Surrogate: 1-Chlorooctane		78.9 %	70-130		P9A1501	01/14/19	01/14/19	TPH 8015M	
Surrogate: o-Terphenyl		92.7 %	70-130		P9A1501	01/14/19	01/14/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	44.0	26.3	mg/kg dry	1	[CALC]	01/14/19	01/14/19	calc	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

HA-14 (1-2')
9A10016-28 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	9100	26.3	mg/kg dry	25	P9A1608	01/16/19	01/18/19	EPA 300.0
% Moisture	5.0	0.1	%	1	P9A1402	01/14/19	01/14/19	ASTM D2216

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

HA-14 (2-3')
9A10016-29 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	12200	53.8	mg/kg dry	50	P9A1608	01/16/19	01/18/19	EPA 300.0	
% Moisture	7.0	0.1	%	1	P9A1402	01/14/19	01/14/19	ASTM D2216	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

HA-14 (3-4')
9A10016-30 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	25600	56.8	mg/kg dry	50	P9A1608	01/16/19	01/18/19	EPA 300.0
% Moisture	12.0	0.1	%	1	P9A1402	01/14/19	01/14/19	ASTM D2216

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

HA-15 (0-1')
9A10016-31 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00104	mg/kg dry	1	P9A1405	01/11/19	01/12/19	EPA 8021B	
Toluene	ND	0.0104	mg/kg dry	1	P9A1405	01/11/19	01/12/19	EPA 8021B	
Ethylbenzene	ND	0.00521	mg/kg dry	1	P9A1405	01/11/19	01/12/19	EPA 8021B	
Xylene (p/m)	ND	0.0208	mg/kg dry	1	P9A1405	01/11/19	01/12/19	EPA 8021B	
Xylene (o)	ND	0.0104	mg/kg dry	1	P9A1405	01/11/19	01/12/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		120 %	75-125		P9A1405	01/11/19	01/12/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		87.9 %	75-125		P9A1405	01/11/19	01/12/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	50.5	1.04	mg/kg dry	1	P9A1608	01/16/19	01/18/19	EPA 300.0	
% Moisture	4.0	0.1	%	1	P9A1402	01/14/19	01/14/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P9A1501	01/14/19	01/14/19	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P9A1501	01/14/19	01/14/19	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P9A1501	01/14/19	01/14/19	TPH 8015M	
Surrogate: 1-Chlorooctane		76.6 %	70-130		P9A1501	01/14/19	01/14/19	TPH 8015M	
Surrogate: o-Terphenyl		89.6 %	70-130		P9A1501	01/14/19	01/14/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	01/14/19	01/14/19	calc	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

**HA-16 (0-0.5')
9A10016-35 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00109	mg/kg dry	1	P9A1405	01/11/19	01/12/19	EPA 8021B	
Toluene	ND	0.0109	mg/kg dry	1	P9A1405	01/11/19	01/12/19	EPA 8021B	
Ethylbenzene	ND	0.00543	mg/kg dry	1	P9A1405	01/11/19	01/12/19	EPA 8021B	
Xylene (p/m)	ND	0.0217	mg/kg dry	1	P9A1405	01/11/19	01/12/19	EPA 8021B	
Xylene (o)	ND	0.0109	mg/kg dry	1	P9A1405	01/11/19	01/12/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		91.0 %	75-125		P9A1405	01/11/19	01/12/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		123 %	75-125		P9A1405	01/11/19	01/12/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	35.2	1.09	mg/kg dry	1	P9A1608	01/16/19	01/18/19	EPA 300.0	
% Moisture	8.0	0.1	%	1	P9A1402	01/14/19	01/14/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P9A1501	01/14/19	01/14/19	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P9A1501	01/14/19	01/14/19	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P9A1501	01/14/19	01/14/19	TPH 8015M	
Surrogate: 1-Chlorooctane		80.0 %	70-130		P9A1501	01/14/19	01/14/19	TPH 8015M	
Surrogate: o-Terphenyl		95.9 %	70-130		P9A1501	01/14/19	01/14/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	01/14/19	01/14/19	calc	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

HA-17 (0-0.5')
9A10016-36 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00110	mg/kg dry	1	P9A1405	01/11/19	01/12/19	EPA 8021B	
Toluene	ND	0.0110	mg/kg dry	1	P9A1405	01/11/19	01/12/19	EPA 8021B	
Ethylbenzene	ND	0.00549	mg/kg dry	1	P9A1405	01/11/19	01/12/19	EPA 8021B	
Xylene (p/m)	ND	0.0220	mg/kg dry	1	P9A1405	01/11/19	01/12/19	EPA 8021B	
Xylene (o)	ND	0.0110	mg/kg dry	1	P9A1405	01/11/19	01/12/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		128 %	75-125		P9A1405	01/11/19	01/12/19	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		84.6 %	75-125		P9A1405	01/11/19	01/12/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	4420	11.0	mg/kg dry	10	P9A1608	01/16/19	01/18/19	EPA 300.0	
% Moisture	9.0	0.1	%	1	P9A1402	01/14/19	01/14/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P9A1501	01/14/19	01/14/19	TPH 8015M	
>C12-C28	95.8	27.5	mg/kg dry	1	P9A1501	01/14/19	01/14/19	TPH 8015M	
>C28-C35	27.6	27.5	mg/kg dry	1	P9A1501	01/14/19	01/14/19	TPH 8015M	
Surrogate: 1-Chlorooctane		74.5 %	70-130		P9A1501	01/14/19	01/14/19	TPH 8015M	
Surrogate: o-Terphenyl		84.3 %	70-130		P9A1501	01/14/19	01/14/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	123	27.5	mg/kg dry	1	[CALC]	01/14/19	01/14/19	calc	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

HA-18 (0-0.5')
9A10016-37 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00109	mg/kg dry	1	P9A1405	01/11/19	01/12/19	EPA 8021B	
Toluene	ND	0.0109	mg/kg dry	1	P9A1405	01/11/19	01/12/19	EPA 8021B	
Ethylbenzene	ND	0.00543	mg/kg dry	1	P9A1405	01/11/19	01/12/19	EPA 8021B	
Xylene (p/m)	ND	0.0217	mg/kg dry	1	P9A1405	01/11/19	01/12/19	EPA 8021B	
Xylene (o)	ND	0.0109	mg/kg dry	1	P9A1405	01/11/19	01/12/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		90.7 %	75-125		P9A1405	01/11/19	01/12/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		117 %	75-125		P9A1405	01/11/19	01/12/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	16200	54.3	mg/kg dry	50	P9A1608	01/16/19	01/18/19	EPA 300.0	
% Moisture	8.0	0.1	%	1	P9A1402	01/14/19	01/14/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	299	272	mg/kg dry	10	P9A1501	01/14/19	01/14/19	TPH 8015M	
>C12-C28	2490	272	mg/kg dry	10	P9A1501	01/14/19	01/14/19	TPH 8015M	
>C28-C35	858	272	mg/kg dry	10	P9A1501	01/14/19	01/14/19	TPH 8015M	
Surrogate: 1-Chlorooctane		66.5 %	70-130		P9A1501	01/14/19	01/14/19	TPH 8015M	S-GC
Surrogate: o-Terphenyl		78.8 %	70-130		P9A1501	01/14/19	01/14/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	3650	272	mg/kg dry	10	[CALC]	01/14/19	01/14/19	calc	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

HA-19 (0-0.5')
9A10016-38 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00109	mg/kg dry	1	P9A1405	01/11/19	01/12/19	EPA 8021B	
Toluene	ND	0.0109	mg/kg dry	1	P9A1405	01/11/19	01/12/19	EPA 8021B	
Ethylbenzene	ND	0.00543	mg/kg dry	1	P9A1405	01/11/19	01/12/19	EPA 8021B	
Xylene (p/m)	ND	0.0217	mg/kg dry	1	P9A1405	01/11/19	01/12/19	EPA 8021B	
Xylene (o)	ND	0.0109	mg/kg dry	1	P9A1405	01/11/19	01/12/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		99.1 %	75-125		P9A1405	01/11/19	01/12/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		85.7 %	75-125		P9A1405	01/11/19	01/12/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	10400	54.3	mg/kg dry	50	P9A1608	01/16/19	01/18/19	EPA 300.0	
% Moisture	8.0	0.1	%	1	P9A1402	01/14/19	01/14/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P9A1501	01/14/19	01/14/19	TPH 8015M	
>C12-C28	40.6	27.2	mg/kg dry	1	P9A1501	01/14/19	01/14/19	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P9A1501	01/14/19	01/14/19	TPH 8015M	
Surrogate: 1-Chlorooctane		76.2 %	70-130		P9A1501	01/14/19	01/14/19	TPH 8015M	
Surrogate: o-Terphenyl		87.4 %	70-130		P9A1501	01/14/19	01/14/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	40.6	27.2	mg/kg dry	1	[CALC]	01/14/19	01/14/19	calc	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

HA-20 (0-0.5')
9A10016-39 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/kg dry	1	P9A1405	01/11/19	01/12/19	EPA 8021B	
Toluene	ND	0.0100	mg/kg dry	1	P9A1405	01/11/19	01/12/19	EPA 8021B	
Ethylbenzene	ND	0.00500	mg/kg dry	1	P9A1405	01/11/19	01/12/19	EPA 8021B	
Xylene (p/m)	ND	0.0200	mg/kg dry	1	P9A1405	01/11/19	01/12/19	EPA 8021B	
Xylene (o)	ND	0.0100	mg/kg dry	1	P9A1405	01/11/19	01/12/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		80.5 %	75-125		P9A1405	01/11/19	01/12/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		118 %	75-125		P9A1405	01/11/19	01/12/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	6160	25.0	mg/kg dry	25	P9A1608	01/16/19	01/18/19	EPA 300.0	
% Moisture	ND	0.1	%	1	P9A1402	01/14/19	01/14/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.0	mg/kg dry	1	P9A1501	01/14/19	01/14/19	TPH 8015M	
>C12-C28	33.1	25.0	mg/kg dry	1	P9A1501	01/14/19	01/14/19	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P9A1501	01/14/19	01/14/19	TPH 8015M	
Surrogate: 1-Chlorooctane		75.7 %	70-130		P9A1501	01/14/19	01/14/19	TPH 8015M	
Surrogate: o-Terphenyl		86.0 %	70-130		P9A1501	01/14/19	01/14/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	33.1	25.0	mg/kg dry	1	[CALC]	01/14/19	01/14/19	calc	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch P9A1405 - General Preparation (GC)

Blank (P9A1405-BLK1)

Prepared & Analyzed: 01/11/19

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.0100	"							
Ethylbenzene	ND	0.00500	"							
Xylene (p/m)	ND	0.0200	"							
Xylene (o)	ND	0.0100	"							
Surrogate: 1,4-Difluorobenzene	0.0512		"	0.0600		85.3	75-125			
Surrogate: 4-Bromofluorobenzene	0.0644		"	0.0600		107	75-125			

LCS (P9A1405-BS1)

Prepared & Analyzed: 01/11/19

Benzene	0.115	0.00100	mg/kg wet	0.100		115	70-130			
Toluene	0.118	0.0100	"	0.100		118	70-130			
Ethylbenzene	0.112	0.00500	"	0.100		112	70-130			
Xylene (p/m)	0.202	0.0200	"	0.200		101	70-130			
Xylene (o)	0.116	0.0100	"	0.100		116	70-130			
Surrogate: 4-Bromofluorobenzene	0.0664		"	0.0600		111	75-125			
Surrogate: 1,4-Difluorobenzene	0.0596		"	0.0600		99.3	75-125			

LCS Dup (P9A1405-BSD1)

Prepared & Analyzed: 01/11/19

Benzene	0.118	0.00100	mg/kg wet	0.100		118	70-130	2.33	20	
Toluene	0.119	0.0100	"	0.100		119	70-130	0.397	20	
Ethylbenzene	0.113	0.00500	"	0.100		113	70-130	0.755	20	
Xylene (p/m)	0.207	0.0200	"	0.200		104	70-130	2.62	20	
Xylene (o)	0.120	0.0100	"	0.100		120	70-130	3.60	20	
Surrogate: 1,4-Difluorobenzene	0.0585		"	0.0600		97.5	75-125			
Surrogate: 4-Bromofluorobenzene	0.0644		"	0.0600		107	75-125			

Duplicate (P9A1405-DUP1)

Source: 9A11001-03

Prepared: 01/11/19 Analyzed: 01/12/19

Benzene	0.0476	0.0211	mg/kg dry		0.0539			12.4	20	
Toluene	4.99	0.211	"		4.49			10.5	20	
Ethylbenzene	3.11	0.105	"		2.82			9.48	20	
Xylene (p/m)	14.4	0.421	"		13.5			6.49	20	
Xylene (o)	7.36	0.211	"		6.97			5.45	20	
Surrogate: 1,4-Difluorobenzene	0.0667		"	0.0632		106	75-125			
Surrogate: 4-Bromofluorobenzene	0.0675		"	0.0632		107	75-125			

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch P9A1402 - * DEFAULT PREP *****

Blank (P9A1402-BLK1)

Prepared & Analyzed: 01/14/19

% Moisture ND 0.1 %

Duplicate (P9A1402-DUP1)

Source: 9A10023-14

Prepared & Analyzed: 01/14/19

% Moisture 9.0 0.1 % 9.0 0.00 20

Duplicate (P9A1402-DUP2)

Source: 9A10028-06

Prepared & Analyzed: 01/14/19

% Moisture ND 0.1 % 11.0 200 20

Duplicate (P9A1402-DUP3)

Source: 9A11010-02

Prepared & Analyzed: 01/14/19

% Moisture 13.0 0.1 % 14.0 7.41 20

Duplicate (P9A1402-DUP4)

Source: 9A11019-02

Prepared & Analyzed: 01/14/19

% Moisture 11.0 0.1 % 11.0 0.00 20

Batch P9A1508 - * DEFAULT PREP *****

Blank (P9A1508-BLK1)

Prepared: 01/15/19 Analyzed: 01/16/19

Chloride ND 1.00 mg/kg wet

LCS (P9A1508-BS1)

Prepared: 01/15/19 Analyzed: 01/16/19

Chloride 382 1.00 mg/kg wet 400 95.5 80-120

LCS Dup (P9A1508-BSD1)

Prepared: 01/15/19 Analyzed: 01/16/19

Chloride 380 1.00 mg/kg wet 400 94.9 80-120 0.609 20

Duplicate (P9A1508-DUP1)

Source: 9A10014-01

Prepared: 01/15/19 Analyzed: 01/16/19

Chloride 1810 1.06 mg/kg dry 2230 20.6 20

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch P9A1508 - * DEFAULT PREP *****

Duplicate (P9A1508-DUP2)		Source: 9A10014-19		Prepared: 01/15/19 Analyzed: 01/17/19						
Chloride	27.4	5.88	mg/kg dry		35.0			24.5	20	
Matrix Spike (P9A1508-MS1)		Source: 9A10014-01		Prepared: 01/15/19 Analyzed: 01/16/19						
Chloride	1950	1.06	mg/kg dry	5320	2230	NR	80-120			

Batch P9A1510 - * DEFAULT PREP *****

Blank (P9A1510-BLK1)				Prepared: 01/15/19 Analyzed: 01/16/19						
Chloride	ND	1.00	mg/kg wet							
LCS (P9A1510-BS1)				Prepared: 01/15/19 Analyzed: 01/16/19						
Chloride	404	1.00	mg/kg wet	400		101	80-120			
LCS Dup (P9A1510-BSD1)				Prepared: 01/15/19 Analyzed: 01/16/19						
Chloride	383	1.00	mg/kg wet	400		95.8	80-120	5.21	20	
Duplicate (P9A1510-DUP1)		Source: 9A15012-04		Prepared: 01/15/19 Analyzed: 01/16/19						
Chloride	3470	11.1	mg/kg dry		3600			3.73	20	
Duplicate (P9A1510-DUP2)		Source: 9A15013-03		Prepared: 01/15/19 Analyzed: 01/16/19						
Chloride	742	1.08	mg/kg dry		736			0.817	20	
Matrix Spike (P9A1510-MS1)		Source: 9A15012-04		Prepared: 01/15/19 Analyzed: 01/16/19						
Chloride	4950	11.1	mg/kg dry	1110	3600	121	80-120			
Batch P9A1608 - *** DEFAULT PREP ***										
Blank (P9A1608-BLK1)				Prepared: 01/16/19 Analyzed: 01/17/19						
Chloride	ND	1.00	mg/kg wet							

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch P9A1608 - * DEFAULT PREP *****

LCS (P9A1608-BS1)

Prepared: 01/16/19 Analyzed: 01/17/19

Chloride	397	1.00	mg/kg wet	400	99.4	80-120			
----------	-----	------	-----------	-----	------	--------	--	--	--

LCS Dup (P9A1608-BSD1)

Prepared: 01/16/19 Analyzed: 01/17/19

Chloride	411	1.00	mg/kg wet	400	103	80-120	3.28	20	
----------	-----	------	-----------	-----	-----	--------	------	----	--

Duplicate (P9A1608-DUP1)

Source: 9A10016-20

Prepared: 01/16/19 Analyzed: 01/18/19

Chloride	4000	13.0	mg/kg dry	3990			0.309	20	
----------	------	------	-----------	------	--	--	-------	----	--

Duplicate (P9A1608-DUP2)

Source: 9A10016-36

Prepared: 01/16/19 Analyzed: 01/18/19

Chloride	4480	11.0	mg/kg dry	4420			1.46	20	
----------	------	------	-----------	------	--	--	------	----	--

Matrix Spike (P9A1608-MS1)

Source: 9A10016-20

Prepared: 01/16/19 Analyzed: 01/18/19

Chloride	5160	13.0	mg/kg dry	1300	3990	90.3	80-120		
----------	------	------	-----------	------	------	------	--------	--	--

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch P9A1501 - TX 1005

Blank (P9A1501-BLK1)

Prepared & Analyzed: 01/14/19

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	91.2		"	100		91.2	70-130			
Surrogate: o-Terphenyl	51.9		"	50.0		104	70-130			

LCS (P9A1501-BS1)

Prepared & Analyzed: 01/14/19

C6-C12	952	25.0	mg/kg wet	1000		95.2	75-125			
>C12-C28	1140	25.0	"	1000		114	75-125			
Surrogate: 1-Chlorooctane	103		"	100		103	70-130			
Surrogate: o-Terphenyl	47.7		"	50.0		95.4	70-130			

LCS Dup (P9A1501-BSD1)

Prepared & Analyzed: 01/14/19

C6-C12	944	25.0	mg/kg wet	1000		94.4	75-125	0.850	20	
>C12-C28	1200	25.0	"	1000		120	75-125	4.54	20	
Surrogate: 1-Chlorooctane	105		"	100		105	70-130			
Surrogate: o-Terphenyl	51.9		"	50.0		104	70-130			

Duplicate (P9A1501-DUP1)

Source: 9A10022-05

Prepared & Analyzed: 01/14/19

C6-C12	21.2	29.8	mg/kg dry		ND				20	
>C12-C28	21.1	29.8	"		26.8			23.7	20	
Surrogate: 1-Chlorooctane	94.1		"	119		79.0	70-130			
Surrogate: o-Terphenyl	54.5		"	59.5		91.5	70-130			

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

1/22/2019

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Marson & Associates, Inc.

Environmental Consultants

507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 01/10/2019 PAGE 1 OF 3
PO#: LAB WORK ORDER# 4110116
PROJECT LOCATION OR NAME: Molly State
LAB PROJECT #: 18-0138-08 COLLECTOR: TD

Page 32 of 34

TRRP report? ☐ Yes ☒ No
S=SOIL W=WATER P=PAINT
A=AIR SL=SLUDGE
OT=OTHER

TIME ZONE:
Time zone/State:
MST

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION				ANALYSES		FIELD NOTES									
HA-7(0-1')	1	1/9/19	10:39	S	1	HCl	HNO ₃	H ₂ SO ₄ ☐ NaOH ☐	ICE	UNPRESERVED	BTX ☒ MTBE ☐	Delineate chloride until 600 mg/kg is reached Delineate TPT until 100 mg/kg is reached									
HA-7(1-2')	2		10:46								TPH 418.1 ☐ TPH 1005 ☒ TPH 1006 ☒										
HA-7(2-3')	3		10:52								GASOLINE MOD 8015 ☒										
HA-7(3-4')	4		10:59								DIESEL - MOD 8015 ☒										
HA-8(0-1')	5		11:26								OIL - MOD 8015 ☒										
HA-8(1-2')	10		11:30								VOC 8260 ☒										
HA-8(2-3')	9		11:34								SVOC 8270 ☒										
HA-8(3-4')	8		11:43								8081 PESTICIDES ☒										
HA-9(0-1')	9		11:51								8082 PCBs ☒										
HA-9(1-2')	10		11:56								TBLP - METALS (RCRA) ☒										
HA-9(2-3')	11		12:00								TCLP - METALS (RCRA) ☒										
HA-9(3-4')	12		12:06								TOTAL METALS (RCRA) ☒										
HA-10(0-1')	13		12:29								LEAD - TOTAL ☒										
HA-10(1-2')	14		12:33								TCF - TOTAL ☒										
HA-10(2-3')	15		12:36								PH ☒ TOX ☒ % MOISTURE ☒										
TOTAL											EXPLOSIVES ☒ PECHLORATE ☒										

RELINQUISHED BY: (Signature)

DATE/TIME: 1/10/19 9:10

RECEIVED BY: (Signature)

RELINQUISHED BY: (Signature)

DATE/TIME

RECEIVED BY: (Signature)

RELINQUISHED BY: (Signature)

DATE/TIME: 1-10-19 9:10

RECEIVED BY: (Signature)

LABORATORY: PBEL

TURN AROUND TIME

NORMAL ☒1 DAY ☐2 DAY ☐OTHER ☐

LABORATORY USE ONLY:

RECEIVING TEMP: 11.1THERM#: 12CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED

CARRIER BILL #

☐ HAND DELIVERED

Data Reported to:

DATE: 01/10/2019 PAGE 2 OF 3
PO#: LAB WORK ORDER# 0710014
PROJECT LOCATION OR NAME: Wolly State
LAI PROJECT #: 18-0138-08 COLLECTOR: TC

CHAIN-OF-CUSTODY

Nº 0506

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION				UNPRESERVED	ANALYSES	FIELD NOTES
						HCl	HNO ₃	H ₂ SO ₄ ☐ NaOH ☐	ICE			
HA-10(3-4)	196	1/9/19	12:40	S	1							De waste chloride until 600mg/kg is reached Nelineate TP# until 100mg/kg is reached
HA-11(0-1)	197		12:52									
HA-11(1-2)	198		12:58									
HA-12(0-1)	199		13:08									
HA-12(1-2)	1920		13:13									
HA-12(2-3)	201		13:17									
HA-12(3-4)	212		13:24									
HA-13(0-1)	223		14:08									
HA-13(1-2)	234		14:12									
HA-13(2-3)	245		14:16									
HA-13(3-4)	250		14:21									
HA-14(0-1)	267		14:27									
HA-14(1-2)	278		14:31									
HA-14(2-3)	289		14:36									
HA-14(3-4)	2930		14:40									
TOTAL												

RELINQUISHED BY: (Signature) Anna Olsen DATE/TIME 1/10/19 9:10 RECEIVED BY: (Signature) _____

RELINQUISHED BY: (Signature) _____ DATE/TIME _____ RECEIVED BY: (Signature) _____

RELINQUISHED BY: (Signature) _____ DATE/TIME 1-10-19 9:10 RECEIVED BY: (Signature) Anna Olsen

LABORATORY: PBEL

TURN AROUND TIME
NORMAL ☒ 1 DAY ☐
2 DAY ☐
OTHER ☐

LABORATORY USE ONLY:
RECEIVING TEMP: 1-1-1 THERM# 12
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☐ HAND DELIVERED

**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701**



Analytical Report

Prepared for:

Mark Larson
Larson & Associates, Inc.
P.O. Box 50685
Midland, TX 79710

Project: Molly State Battery

Project Number: 18-0138-08

Location:

Lab Order Number: 9E15009



NELAP/TCEQ # T104704516-18-9

Report Date: 09/04/19

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Dp-3 (0-1')	9E15009-01	Soil	05/09/19 14:15	05-15-2019 10:36
Dp-3 (1-3')	9E15009-02	Soil	05/09/19 14:17	05-15-2019 10:36
Dp-3 (3'-5')	9E15009-03	Soil	05/09/19 14:19	05-15-2019 10:36
Dp-3 (5'-6')	9E15009-04	Soil	05/09/19 14:21	05-15-2019 10:36
Dp-3 (6'-8')	9E15009-05	Soil	05/09/19 14:23	05-15-2019 10:36
Dp-3 (8'-10')	9E15009-06	Soil	05/09/19 14:25	05-15-2019 10:36
Dp-5 (0-1')	9E15009-07	Soil	05/09/19 15:48	05-15-2019 10:36
Dp-5 (1-3')	9E15009-08	Soil	05/09/19 15:50	05-15-2019 10:36
Dp-5 (3'-5')	9E15009-09	Soil	05/09/19 15:52	05-15-2019 10:36
Dp-5 (5'-6')	9E15009-10	Soil	05/09/19 15:56	05-15-2019 10:36
Dp-5 (6'-8')	9E15009-11	Soil	05/09/19 15:54	05-15-2019 10:36
Dp-5 (8'-10')	9E15009-12	Soil	05/09/19 15:58	05-15-2019 10:36
Dp-8 (0-1')	9E15009-13	Soil	05/10/19 13:02	05-15-2019 10:36
Dp-8 (1-3')	9E15009-14	Soil	05/10/19 13:04	05-15-2019 10:36
Dp-8 (3'-5')	9E15009-15	Soil	05/10/19 13:06	05-15-2019 10:36
Dp-8 (5'-6')	9E15009-16	Soil	05/10/19 13:08	05-15-2019 10:36
Dp-8 (6'-8')	9E15009-17	Soil	05/10/19 13:10	05-15-2019 10:36
Dp-8 (8'-10')	9E15009-18	Soil	05/10/19 13:12	05-15-2019 10:36
Dp-17 (0-1')	9E15009-19	Soil	05/13/19 15:51	05-15-2019 10:36
Dp-17 (1-3')	9E15009-20	Soil	05/13/19 15:52	05-15-2019 10:36
Dp-17 (3'-5')	9E15009-21	Soil	05/13/19 15:53	05-15-2019 10:36
Dp-17 (5'-6')	9E15009-22	Soil	05/13/19 15:54	05-15-2019 10:36
Dp-17 (6'-8')	9E15009-23	Soil	05/13/19 15:55	05-15-2019 10:36
Dp-17 (8'-10')	9E15009-24	Soil	05/13/19 15:56	05-15-2019 10:36
Dp-14 (0-1')	9E15009-25	Soil	05/13/19 16:18	05-15-2019 10:36
Dp-14 (1-3')	9E15009-26	Soil	05/13/19 16:19	05-15-2019 10:36
Dp-14 (3'-5')	9E15009-27	Soil	05/13/19 16:20	05-15-2019 10:36
Dp-14 (5'-6')	9E15009-28	Soil	05/13/19 16:21	05-15-2019 10:36
Dp-14 (6'-8')	9E15009-29	Soil	05/13/19 16:22	05-15-2019 10:36
Dp-14 (8'-10')	9E15009-30	Soil	05/13/19 16:23	05-15-2019 10:36
Dp-12 (0-1')	9E15009-31	Soil	05/13/19 16:34	05-15-2019 10:36
Dp-12 (1-3')	9E15009-32	Soil	05/13/19 16:35	05-15-2019 10:36
Dp-12 (3'-5')	9E15009-33	Soil	05/13/19 16:36	05-15-2019 10:36
Dp-12 (5'-6')	9E15009-34	Soil	05/13/19 16:37	05-15-2019 10:36

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Dp-12 (6'-8')	9E15009-35	Soil	05/13/19 16:38	05-15-2019 10:36
Dp-12 (8'-10')	9E15009-36	Soil	05/13/19 16:39	05-15-2019 10:36
Dp-18 (0-1')	9E15009-37	Soil	05/14/19 14:16	05-15-2019 10:36
Dp-18 (1-3')	9E15009-38	Soil	05/14/19 14:14	05-15-2019 10:36
Dp-18 (3'-5')	9E15009-39	Soil	05/14/19 14:12	05-15-2019 10:36
Dp-18 (5'-6')	9E15009-40	Soil	05/14/19 14:09	05-15-2019 10:36
Dp-18 (6'-8')	9E15009-41	Soil	05/14/19 14:07	05-15-2019 10:36
Dp-18 (8'-10')	9E15009-42	Soil	05/14/19 14:05	05-15-2019 10:36
Dp-19 (0-1')	9E15009-43	Soil	05/14/19 14:59	05-15-2019 10:36
Dp-19 (1-3')	9E15009-44	Soil	05/14/19 15:01	05-15-2019 10:36
Dp-19 (3'-5')	9E15009-45	Soil	05/14/19 15:02	05-15-2019 10:36
Dp-19 (5'-6')	9E15009-46	Soil	05/14/19 15:03	05-15-2019 10:36
Dp-19 (6'-8')	9E15009-47	Soil	05/14/19 15:04	05-15-2019 10:36
Dp-19 (8'-10')	9E15009-48	Soil	05/14/19 15:05	05-15-2019 10:36

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Dp-3 (0-1')
9E15009-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00125	mg/kg dry	1	P9E1803	05/18/19	05/18/19	EPA 8021B	
Toluene	ND	0.00125	mg/kg dry	1	P9E1803	05/18/19	05/18/19	EPA 8021B	
Ethylbenzene	ND	0.00125	mg/kg dry	1	P9E1803	05/18/19	05/18/19	EPA 8021B	
Xylene (p/m)	ND	0.00250	mg/kg dry	1	P9E1803	05/18/19	05/18/19	EPA 8021B	
Xylene (o)	ND	0.00125	mg/kg dry	1	P9E1803	05/18/19	05/18/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		83.5 %	75-125		P9E1803	05/18/19	05/18/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P9E1803	05/18/19	05/18/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1450	6.25	mg/kg dry	5	P9E1710	05/15/19	05/19/19	EPA 300.0	
% Moisture	20.0	0.1	%	1	P9E1602	05/16/19	05/16/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	31.2	mg/kg dry	1	P9E1601	05/15/19	05/16/19	TPH 8015M	
>C12-C28	ND	31.2	mg/kg dry	1	P9E1601	05/15/19	05/16/19	TPH 8015M	
>C28-C35	ND	31.2	mg/kg dry	1	P9E1601	05/15/19	05/16/19	TPH 8015M	
Surrogate: 1-Chlorooctane		85.1 %	70-130		P9E1601	05/15/19	05/16/19	TPH 8015M	
Surrogate: o-Terphenyl		93.6 %	70-130		P9E1601	05/15/19	05/16/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	31.2	mg/kg dry	1	[CALC]	05/15/19	05/16/19	calc	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Dp-3 (1-3')
9E15009-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00119	mg/kg dry	1	P9E1803	05/18/19	05/18/19	EPA 8021B	
Toluene	ND	0.00119	mg/kg dry	1	P9E1803	05/18/19	05/18/19	EPA 8021B	
Ethylbenzene	ND	0.00119	mg/kg dry	1	P9E1803	05/18/19	05/18/19	EPA 8021B	
Xylene (p/m)	ND	0.00238	mg/kg dry	1	P9E1803	05/18/19	05/18/19	EPA 8021B	
Xylene (o)	ND	0.00119	mg/kg dry	1	P9E1803	05/18/19	05/18/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.3 %	75-125		P9E1803	05/18/19	05/18/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		75.2 %	75-125		P9E1803	05/18/19	05/18/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	466	1.19	mg/kg dry	1	P9E1710	05/15/19	05/19/19	EPA 300.0	
% Moisture	16.0	0.1	%	1	P9E1602	05/16/19	05/16/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.8	mg/kg dry	1	P9E1601	05/15/19	05/16/19	TPH 8015M	
>C12-C28	ND	29.8	mg/kg dry	1	P9E1601	05/15/19	05/16/19	TPH 8015M	
>C28-C35	ND	29.8	mg/kg dry	1	P9E1601	05/15/19	05/16/19	TPH 8015M	
Surrogate: 1-Chlorooctane		85.1 %	70-130		P9E1601	05/15/19	05/16/19	TPH 8015M	
Surrogate: o-Terphenyl		95.2 %	70-130		P9E1601	05/15/19	05/16/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.8	mg/kg dry	1	[CALC]	05/15/19	05/16/19	calc	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Dp-3 (3'-5')
9E15009-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00122	mg/kg dry	1	P9E1803	05/18/19	05/19/19	EPA 8021B	
Toluene	ND	0.00122	mg/kg dry	1	P9E1803	05/18/19	05/19/19	EPA 8021B	
Ethylbenzene	ND	0.00122	mg/kg dry	1	P9E1803	05/18/19	05/19/19	EPA 8021B	
Xylene (p/m)	ND	0.00244	mg/kg dry	1	P9E1803	05/18/19	05/19/19	EPA 8021B	
Xylene (o)	ND	0.00122	mg/kg dry	1	P9E1803	05/18/19	05/19/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		87.9 %	75-125		P9E1803	05/18/19	05/19/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		107 %	75-125		P9E1803	05/18/19	05/19/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	2440	6.10	mg/kg dry	5	P9E1710	05/15/19	05/19/19	EPA 300.0	
% Moisture	18.0	0.1	%	1	P9E1602	05/16/19	05/16/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	30.5	mg/kg dry	1	P9E1601	05/15/19	05/16/19	TPH 8015M	
>C12-C28	ND	30.5	mg/kg dry	1	P9E1601	05/15/19	05/16/19	TPH 8015M	
>C28-C35	ND	30.5	mg/kg dry	1	P9E1601	05/15/19	05/16/19	TPH 8015M	
Surrogate: 1-Chlorooctane		91.7 %	70-130		P9E1601	05/15/19	05/16/19	TPH 8015M	
Surrogate: o-Terphenyl		103 %	70-130		P9E1601	05/15/19	05/16/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	30.5	mg/kg dry	1	[CALC]	05/15/19	05/16/19	calc	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Dp-3 (5'-6')
9E15009-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00143	mg/kg dry	1	P9E1803	05/18/19	05/19/19	EPA 8021B	
Toluene	ND	0.00143	mg/kg dry	1	P9E1803	05/18/19	05/19/19	EPA 8021B	
Ethylbenzene	ND	0.00143	mg/kg dry	1	P9E1803	05/18/19	05/19/19	EPA 8021B	
Xylene (p/m)	ND	0.00286	mg/kg dry	1	P9E1803	05/18/19	05/19/19	EPA 8021B	
Xylene (o)	ND	0.00143	mg/kg dry	1	P9E1803	05/18/19	05/19/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P9E1803	05/18/19	05/19/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		86.2 %	75-125		P9E1803	05/18/19	05/19/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1890	7.14	mg/kg dry	5	P9E1710	05/15/19	05/19/19	EPA 300.0	
% Moisture	30.0	0.1	%	1	P9E1602	05/16/19	05/16/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	35.7	mg/kg dry	1	P9E1601	05/15/19	05/16/19	TPH 8015M	
>C12-C28	ND	35.7	mg/kg dry	1	P9E1601	05/15/19	05/16/19	TPH 8015M	
>C28-C35	ND	35.7	mg/kg dry	1	P9E1601	05/15/19	05/16/19	TPH 8015M	
Surrogate: 1-Chlorooctane		84.8 %	70-130		P9E1601	05/15/19	05/16/19	TPH 8015M	
Surrogate: o-Terphenyl		94.3 %	70-130		P9E1601	05/15/19	05/16/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	35.7	mg/kg dry	1	[CALC]	05/15/19	05/16/19	calc	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Dp-3 (6'-8')
9E15009-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00132	mg/kg dry	1	P9E1803	05/18/19	05/19/19	EPA 8021B	
Toluene	ND	0.00132	mg/kg dry	1	P9E1803	05/18/19	05/19/19	EPA 8021B	
Ethylbenzene	ND	0.00132	mg/kg dry	1	P9E1803	05/18/19	05/19/19	EPA 8021B	
Xylene (p/m)	ND	0.00263	mg/kg dry	1	P9E1803	05/18/19	05/19/19	EPA 8021B	
Xylene (o)	ND	0.00132	mg/kg dry	1	P9E1803	05/18/19	05/19/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.7 %	75-125		P9E1803	05/18/19	05/19/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		84.1 %	75-125		P9E1803	05/18/19	05/19/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1030	1.32	mg/kg dry	1	P9E1710	05/15/19	05/19/19	EPA 300.0	
% Moisture	24.0	0.1	%	1	P9E1602	05/16/19	05/16/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	32.9	mg/kg dry	1	P9E1605	05/15/19	05/16/19	TPH 8015M	
>C12-C28	ND	32.9	mg/kg dry	1	P9E1605	05/15/19	05/16/19	TPH 8015M	
>C28-C35	ND	32.9	mg/kg dry	1	P9E1605	05/15/19	05/16/19	TPH 8015M	
Surrogate: 1-Chlorooctane		90.9 %	70-130		P9E1605	05/15/19	05/16/19	TPH 8015M	
Surrogate: o-Terphenyl		98.0 %	70-130		P9E1605	05/15/19	05/16/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	32.9	mg/kg dry	1	[CALC]	05/15/19	05/16/19	calc	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Dp-3 (8'-10')
9E15009-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00132	mg/kg dry	1	P9E1803	05/18/19	05/19/19	EPA 8021B	
Toluene	ND	0.00132	mg/kg dry	1	P9E1803	05/18/19	05/19/19	EPA 8021B	
Ethylbenzene	ND	0.00132	mg/kg dry	1	P9E1803	05/18/19	05/19/19	EPA 8021B	
Xylene (p/m)	ND	0.00263	mg/kg dry	1	P9E1803	05/18/19	05/19/19	EPA 8021B	
Xylene (o)	ND	0.00132	mg/kg dry	1	P9E1803	05/18/19	05/19/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.2 %	75-125		P9E1803	05/18/19	05/19/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		81.1 %	75-125		P9E1803	05/18/19	05/19/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	4210	13.2	mg/kg dry	10	P9E1710	05/15/19	05/19/19	EPA 300.0	
% Moisture	24.0	0.1	%	1	P9E1602	05/16/19	05/16/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	32.9	mg/kg dry	1	P9E1605	05/15/19	05/16/19	TPH 8015M	
>C12-C28	ND	32.9	mg/kg dry	1	P9E1605	05/15/19	05/16/19	TPH 8015M	
>C28-C35	ND	32.9	mg/kg dry	1	P9E1605	05/15/19	05/16/19	TPH 8015M	
Surrogate: 1-Chlorooctane		92.4 %	70-130		P9E1605	05/15/19	05/16/19	TPH 8015M	
Surrogate: o-Terphenyl		101 %	70-130		P9E1605	05/15/19	05/16/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	32.9	mg/kg dry	1	[CALC]	05/15/19	05/16/19	calc	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Dp-5 (0-1')
9E15009-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00122	mg/kg dry	1	P9E1803	05/18/19	05/19/19	EPA 8021B	
Toluene	ND	0.00122	mg/kg dry	1	P9E1803	05/18/19	05/19/19	EPA 8021B	
Ethylbenzene	ND	0.00122	mg/kg dry	1	P9E1803	05/18/19	05/19/19	EPA 8021B	
Xylene (p/m)	ND	0.00244	mg/kg dry	1	P9E1803	05/18/19	05/19/19	EPA 8021B	
Xylene (o)	ND	0.00122	mg/kg dry	1	P9E1803	05/18/19	05/19/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		97.1 %	75-125		P9E1803	05/18/19	05/19/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		82.7 %	75-125		P9E1803	05/18/19	05/19/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1150	1.22	mg/kg dry	1	P9E1710	05/15/19	05/19/19	EPA 300.0	
% Moisture	18.0	0.1	%	1	P9E1602	05/16/19	05/16/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	30.5	mg/kg dry	1	P9E1605	05/15/19	05/16/19	TPH 8015M	
>C12-C28	ND	30.5	mg/kg dry	1	P9E1605	05/15/19	05/16/19	TPH 8015M	
>C28-C35	ND	30.5	mg/kg dry	1	P9E1605	05/15/19	05/16/19	TPH 8015M	
Surrogate: 1-Chlorooctane		93.7 %	70-130		P9E1605	05/15/19	05/16/19	TPH 8015M	
Surrogate: o-Terphenyl		104 %	70-130		P9E1605	05/15/19	05/16/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	30.5	mg/kg dry	1	[CALC]	05/15/19	05/16/19	calc	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Dp-5 (1-3')
9E15009-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00119	mg/kg dry	1	P9E1803	05/18/19	05/19/19	EPA 8021B	
Toluene	ND	0.00119	mg/kg dry	1	P9E1803	05/18/19	05/19/19	EPA 8021B	
Ethylbenzene	ND	0.00119	mg/kg dry	1	P9E1803	05/18/19	05/19/19	EPA 8021B	
Xylene (p/m)	ND	0.00238	mg/kg dry	1	P9E1803	05/18/19	05/19/19	EPA 8021B	
Xylene (o)	ND	0.00119	mg/kg dry	1	P9E1803	05/18/19	05/19/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.9 %	75-125		P9E1803	05/18/19	05/19/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		81.1 %	75-125		P9E1803	05/18/19	05/19/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	13500	59.5	mg/kg dry	50	P9E1710	05/15/19	05/19/19	EPA 300.0	
% Moisture	16.0	0.1	%	1	P9E1602	05/16/19	05/16/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.8	mg/kg dry	1	P9E1605	05/15/19	05/16/19	TPH 8015M	
>C12-C28	ND	29.8	mg/kg dry	1	P9E1605	05/15/19	05/16/19	TPH 8015M	
>C28-C35	ND	29.8	mg/kg dry	1	P9E1605	05/15/19	05/16/19	TPH 8015M	
Surrogate: 1-Chlorooctane		89.7 %	70-130		P9E1605	05/15/19	05/16/19	TPH 8015M	
Surrogate: o-Terphenyl		100 %	70-130		P9E1605	05/15/19	05/16/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.8	mg/kg dry	1	[CALC]	05/15/19	05/16/19	calc	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Dp-5 (3'-5')
9E15009-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00120	mg/kg dry	1	P9E1803	05/18/19	05/19/19	EPA 8021B	
Toluene	ND	0.00120	mg/kg dry	1	P9E1803	05/18/19	05/19/19	EPA 8021B	
Ethylbenzene	ND	0.00120	mg/kg dry	1	P9E1803	05/18/19	05/19/19	EPA 8021B	
Xylene (p/m)	ND	0.00241	mg/kg dry	1	P9E1803	05/18/19	05/19/19	EPA 8021B	
Xylene (o)	ND	0.00120	mg/kg dry	1	P9E1803	05/18/19	05/19/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		94.1 %	75-125		P9E1803	05/18/19	05/19/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		108 %	75-125		P9E1803	05/18/19	05/19/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1140	6.02	mg/kg dry	5	P9E1710	05/15/19	05/19/19	EPA 300.0	
% Moisture	17.0	0.1	%	1	P9E1602	05/16/19	05/16/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	30.1	mg/kg dry	1	P9E1605	05/15/19	05/16/19	TPH 8015M	
>C12-C28	ND	30.1	mg/kg dry	1	P9E1605	05/15/19	05/16/19	TPH 8015M	
>C28-C35	ND	30.1	mg/kg dry	1	P9E1605	05/15/19	05/16/19	TPH 8015M	
Surrogate: 1-Chlorooctane		86.9 %	70-130		P9E1605	05/15/19	05/16/19	TPH 8015M	
Surrogate: o-Terphenyl		98.6 %	70-130		P9E1605	05/15/19	05/16/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	30.1	mg/kg dry	1	[CALC]	05/15/19	05/16/19	calc	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Dp-5 (5'-6')
9E15009-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00128	mg/kg dry	1	P9E1803	05/18/19	05/19/19	EPA 8021B	
Toluene	ND	0.00128	mg/kg dry	1	P9E1803	05/18/19	05/19/19	EPA 8021B	
Ethylbenzene	ND	0.00128	mg/kg dry	1	P9E1803	05/18/19	05/19/19	EPA 8021B	
Xylene (p/m)	ND	0.00256	mg/kg dry	1	P9E1803	05/18/19	05/19/19	EPA 8021B	
Xylene (o)	ND	0.00128	mg/kg dry	1	P9E1803	05/18/19	05/19/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		91.4 %	75-125		P9E1803	05/18/19	05/19/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		77.5 %	75-125		P9E1803	05/18/19	05/19/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1580	6.41	mg/kg dry	5	P9E1710	05/15/19	05/19/19	EPA 300.0	
% Moisture	22.0	0.1	%	1	P9E1602	05/16/19	05/16/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	32.1	mg/kg dry	1	P9E1605	05/15/19	05/16/19	TPH 8015M	
>C12-C28	ND	32.1	mg/kg dry	1	P9E1605	05/15/19	05/16/19	TPH 8015M	
>C28-C35	ND	32.1	mg/kg dry	1	P9E1605	05/15/19	05/16/19	TPH 8015M	
Surrogate: 1-Chlorooctane		89.4 %	70-130		P9E1605	05/15/19	05/16/19	TPH 8015M	
Surrogate: o-Terphenyl		99.9 %	70-130		P9E1605	05/15/19	05/16/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	32.1	mg/kg dry	1	[CALC]	05/15/19	05/16/19	calc	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Dp-5 (6'-8')
9E15009-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00137	mg/kg dry	1	P9E1803	05/18/19	05/19/19	EPA 8021B
Toluene	ND	0.00137	mg/kg dry	1	P9E1803	05/18/19	05/19/19	EPA 8021B
Ethylbenzene	ND	0.00137	mg/kg dry	1	P9E1803	05/18/19	05/19/19	EPA 8021B
Xylene (p/m)	ND	0.00274	mg/kg dry	1	P9E1803	05/18/19	05/19/19	EPA 8021B
Xylene (o)	ND	0.00137	mg/kg dry	1	P9E1803	05/18/19	05/19/19	EPA 8021B
Surrogate: 4-Bromofluorobenzene		85.0 %	75-125		P9E1803	05/18/19	05/19/19	EPA 8021B
Surrogate: 1,4-Difluorobenzene		100 %	75-125		P9E1803	05/18/19	05/19/19	EPA 8021B

General Chemistry Parameters by EPA / Standard Methods

Chloride	6320	34.2	mg/kg dry	25	P9E1710	05/15/19	05/19/19	EPA 300.0
% Moisture	27.0	0.1	%	1	P9E1602	05/16/19	05/16/19	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	34.2	mg/kg dry	1	P9E1605	05/15/19	05/16/19	TPH 8015M
>C12-C28	ND	34.2	mg/kg dry	1	P9E1605	05/15/19	05/16/19	TPH 8015M
>C28-C35	ND	34.2	mg/kg dry	1	P9E1605	05/15/19	05/16/19	TPH 8015M
Surrogate: 1-Chlorooctane		95.4 %	70-130		P9E1605	05/15/19	05/16/19	TPH 8015M
Surrogate: o-Terphenyl		108 %	70-130		P9E1605	05/15/19	05/16/19	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	34.2	mg/kg dry	1	[CALC]	05/15/19	05/16/19	calc

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Dp-5 (8'-10')
9E15009-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0238	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B	
Toluene	ND	0.0238	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B	
Ethylbenzene	ND	0.0238	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B	
Xylene (p/m)	ND	0.0476	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B	
Xylene (o)	ND	0.0238	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		107 %	75-125		P9E2305	05/23/19	05/23/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		109 %	75-125		P9E2305	05/23/19	05/23/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	5710	29.8	mg/kg dry	25	P9E1710	05/15/19	05/19/19	EPA 300.0	
% Moisture	16.0	0.1	%	1	P9E1602	05/16/19	05/16/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.8	mg/kg dry	1	P9E1605	05/15/19	05/16/19	TPH 8015M	
>C12-C28	ND	29.8	mg/kg dry	1	P9E1605	05/15/19	05/16/19	TPH 8015M	
>C28-C35	ND	29.8	mg/kg dry	1	P9E1605	05/15/19	05/16/19	TPH 8015M	
Surrogate: 1-Chlorooctane		89.5 %	70-130		P9E1605	05/15/19	05/16/19	TPH 8015M	
Surrogate: o-Terphenyl		101 %	70-130		P9E1605	05/15/19	05/16/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.8	mg/kg dry	1	[CALC]	05/15/19	05/16/19	calc	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Dp-8 (0-1')
9E15009-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0250	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B	
Xylene (p/m)	ND	0.0500	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B	
Xylene (o)	ND	0.0250	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		115 %	75-125		P9E2305	05/23/19	05/23/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		117 %	75-125		P9E2305	05/23/19	05/23/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1390	6.25	mg/kg dry	5	P9E1710	05/15/19	05/19/19	EPA 300.0	
% Moisture	20.0	0.1	%	1	P9E1602	05/16/19	05/16/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	31.2	mg/kg dry	1	P9E1605	05/15/19	05/17/19	TPH 8015M	
>C12-C28	ND	31.2	mg/kg dry	1	P9E1605	05/15/19	05/17/19	TPH 8015M	
>C28-C35	ND	31.2	mg/kg dry	1	P9E1605	05/15/19	05/17/19	TPH 8015M	
Surrogate: 1-Chlorooctane		83.6 %	70-130		P9E1605	05/15/19	05/17/19	TPH 8015M	
Surrogate: o-Terphenyl		94.9 %	70-130		P9E1605	05/15/19	05/17/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	31.2	mg/kg dry	1	[CALC]	05/15/19	05/17/19	calc	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Dp-8 (1-3')
9E15009-14 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0241	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B	
Toluene	ND	0.0241	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B	
Ethylbenzene	ND	0.0241	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B	
Xylene (p/m)	ND	0.0482	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B	
Xylene (o)	ND	0.0241	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.8 %	75-125		P9E2305	05/23/19	05/23/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		83.0 %	75-125		P9E2305	05/23/19	05/23/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1550	6.02	mg/kg dry	5	P9E1710	05/15/19	05/19/19	EPA 300.0	
% Moisture	17.0	0.1	%	1	P9E1602	05/16/19	05/16/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	30.1	mg/kg dry	1	P9E1605	05/15/19	05/17/19	TPH 8015M	
>C12-C28	ND	30.1	mg/kg dry	1	P9E1605	05/15/19	05/17/19	TPH 8015M	
>C28-C35	ND	30.1	mg/kg dry	1	P9E1605	05/15/19	05/17/19	TPH 8015M	
Surrogate: 1-Chlorooctane		87.6 %	70-130		P9E1605	05/15/19	05/17/19	TPH 8015M	
Surrogate: o-Terphenyl		100 %	70-130		P9E1605	05/15/19	05/17/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	30.1	mg/kg dry	1	[CALC]	05/15/19	05/17/19	calc	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Dp-8 (3'-5')
9E15009-15 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0238	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B
Toluene	ND	0.0238	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B
Ethylbenzene	ND	0.0238	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B
Xylene (p/m)	ND	0.0476	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B
Xylene (o)	ND	0.0238	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B
Surrogate: 1,4-Difluorobenzene		91.7 %	75-125		P9E2305	05/23/19	05/23/19	EPA 8021B
Surrogate: 4-Bromofluorobenzene		96.5 %	75-125		P9E2305	05/23/19	05/23/19	EPA 8021B

General Chemistry Parameters by EPA / Standard Methods

Chloride	6340	29.8	mg/kg dry	25	P9E1710	05/15/19	05/19/19	EPA 300.0
% Moisture	16.0	0.1	%	1	P9E1602	05/16/19	05/16/19	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.8	mg/kg dry	1	P9E1605	05/15/19	05/17/19	TPH 8015M
>C12-C28	ND	29.8	mg/kg dry	1	P9E1605	05/15/19	05/17/19	TPH 8015M
>C28-C35	ND	29.8	mg/kg dry	1	P9E1605	05/15/19	05/17/19	TPH 8015M
Surrogate: 1-Chlorooctane		88.8 %	70-130		P9E1605	05/15/19	05/17/19	TPH 8015M
Surrogate: o-Terphenyl		96.3 %	70-130		P9E1605	05/15/19	05/17/19	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	29.8	mg/kg dry	1	[CALC]	05/15/19	05/17/19	calc

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Dp-8 (5'-6')
9E15009-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0263	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B	
Toluene	ND	0.0263	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B	
Ethylbenzene	ND	0.0263	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B	
Xylene (p/m)	ND	0.0526	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B	
Xylene (o)	ND	0.0263	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		86.4 %	75-125		P9E2305	05/23/19	05/23/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	75-125		P9E2305	05/23/19	05/23/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	270	1.32	mg/kg dry	1	P9E1710	05/15/19	05/19/19	EPA 300.0	
% Moisture	24.0	0.1	%	1	P9E1602	05/16/19	05/16/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	32.9	mg/kg dry	1	P9E1605	05/15/19	05/17/19	TPH 8015M	
>C12-C28	ND	32.9	mg/kg dry	1	P9E1605	05/15/19	05/17/19	TPH 8015M	
>C28-C35	ND	32.9	mg/kg dry	1	P9E1605	05/15/19	05/17/19	TPH 8015M	
Surrogate: 1-Chlorooctane		91.0 %	70-130		P9E1605	05/15/19	05/17/19	TPH 8015M	
Surrogate: o-Terphenyl		99.6 %	70-130		P9E1605	05/15/19	05/17/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	32.9	mg/kg dry	1	[CALC]	05/15/19	05/17/19	calc	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Dp-8 (6'-8')
9E15009-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0267	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B	
Toluene	ND	0.0267	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B	
Ethylbenzene	ND	0.0267	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B	
Xylene (p/m)	ND	0.0533	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B	
Xylene (o)	ND	0.0267	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		113 %	75-125		P9E2305	05/23/19	05/23/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		91.4 %	75-125		P9E2305	05/23/19	05/23/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	90.5	1.33	mg/kg dry	1	P9E1710	05/15/19	05/19/19	EPA 300.0	
% Moisture	25.0	0.1	%	1	P9E1602	05/16/19	05/16/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	33.3	mg/kg dry	1	P9E1605	05/15/19	05/17/19	TPH 8015M	
>C12-C28	ND	33.3	mg/kg dry	1	P9E1605	05/15/19	05/17/19	TPH 8015M	
>C28-C35	ND	33.3	mg/kg dry	1	P9E1605	05/15/19	05/17/19	TPH 8015M	
Surrogate: 1-Chlorooctane		88.3 %	70-130		P9E1605	05/15/19	05/17/19	TPH 8015M	
Surrogate: o-Terphenyl		97.3 %	70-130		P9E1605	05/15/19	05/17/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	33.3	mg/kg dry	1	[CALC]	05/15/19	05/17/19	calc	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Dp-8 (8'-10')
9E15009-18 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0253	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B	
Toluene	ND	0.0253	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B	
Ethylbenzene	ND	0.0253	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B	
Xylene (p/m)	ND	0.0506	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B	
Xylene (o)	ND	0.0253	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		109 %	75-125		P9E2305	05/23/19	05/23/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		105 %	75-125		P9E2305	05/23/19	05/23/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	58.3	1.27	mg/kg dry	1	P9E1710	05/15/19	05/19/19	EPA 300.0	
% Moisture	21.0	0.1	%	1	P9E1602	05/16/19	05/16/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	31.6	mg/kg dry	1	P9E1605	05/15/19	05/17/19	TPH 8015M	
>C12-C28	ND	31.6	mg/kg dry	1	P9E1605	05/15/19	05/17/19	TPH 8015M	
>C28-C35	ND	31.6	mg/kg dry	1	P9E1605	05/15/19	05/17/19	TPH 8015M	
Surrogate: 1-Chlorooctane		93.0 %	70-130		P9E1605	05/15/19	05/17/19	TPH 8015M	
Surrogate: o-Terphenyl		101 %	70-130		P9E1605	05/15/19	05/17/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	31.6	mg/kg dry	1	[CALC]	05/15/19	05/17/19	calc	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Dp-17 (0-1')
9E15009-19 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0211	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B
Toluene	ND	0.0211	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B
Ethylbenzene	ND	0.0211	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B
Xylene (p/m)	ND	0.0421	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B
Xylene (o)	ND	0.0211	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B
Surrogate: 1,4-Difluorobenzene		111 %	75-125		P9E2305	05/23/19	05/23/19	EPA 8021B
Surrogate: 4-Bromofluorobenzene		91.8 %	75-125		P9E2305	05/23/19	05/23/19	EPA 8021B

General Chemistry Parameters by EPA / Standard Methods

Chloride	3720	10.5	mg/kg dry	10	P9E2103	05/21/19	05/21/19	EPA 300.0
% Moisture	5.0	0.1	%	1	P9E1602	05/16/19	05/16/19	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P9E1605	05/15/19	05/17/19	TPH 8015M
>C12-C28	ND	26.3	mg/kg dry	1	P9E1605	05/15/19	05/17/19	TPH 8015M
>C28-C35	ND	26.3	mg/kg dry	1	P9E1605	05/15/19	05/17/19	TPH 8015M
Surrogate: 1-Chlorooctane		88.9 %	70-130		P9E1605	05/15/19	05/17/19	TPH 8015M
Surrogate: o-Terphenyl		98.6 %	70-130		P9E1605	05/15/19	05/17/19	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	05/15/19	05/17/19	calc

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Dp-17 (1-3')
9E15009-20 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0241	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B
Toluene	ND	0.0241	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B
Ethylbenzene	ND	0.0241	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B
Xylene (p/m)	ND	0.0482	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B
Xylene (o)	ND	0.0241	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B
Surrogate: 4-Bromofluorobenzene		89.4 %	75-125		P9E2305	05/23/19	05/23/19	EPA 8021B
Surrogate: 1,4-Difluorobenzene		97.4 %	75-125		P9E2305	05/23/19	05/23/19	EPA 8021B

General Chemistry Parameters by EPA / Standard Methods

Chloride	2260	12.0	mg/kg dry	10	P9E2103	05/21/19	05/21/19	EPA 300.0
% Moisture	17.0	0.1	%	1	P9E1602	05/16/19	05/16/19	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	30.1	mg/kg dry	1	P9E1605	05/15/19	05/17/19	TPH 8015M
>C12-C28	ND	30.1	mg/kg dry	1	P9E1605	05/15/19	05/17/19	TPH 8015M
>C28-C35	ND	30.1	mg/kg dry	1	P9E1605	05/15/19	05/17/19	TPH 8015M
Surrogate: 1-Chlorooctane		92.3 %	70-130		P9E1605	05/15/19	05/17/19	TPH 8015M
Surrogate: o-Terphenyl		102 %	70-130		P9E1605	05/15/19	05/17/19	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	30.1	mg/kg dry	1	[CALC]	05/15/19	05/17/19	calc

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Dp-17 (3'-5')
9E15009-21 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0253	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B	
Toluene	ND	0.0253	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B	
Ethylbenzene	ND	0.0253	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B	
Xylene (p/m)	ND	0.0506	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B	
Xylene (o)	ND	0.0253	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		97.9 %	75-125		P9E2305	05/23/19	05/23/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		85.1 %	75-125		P9E2305	05/23/19	05/23/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	440	1.27	mg/kg dry	1	P9E2103	05/21/19	05/21/19	EPA 300.0	
% Moisture	21.0	0.1	%	1	P9E1602	05/16/19	05/16/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	31.6	mg/kg dry	1	P9E1605	05/15/19	05/17/19	TPH 8015M	
>C12-C28	ND	31.6	mg/kg dry	1	P9E1605	05/15/19	05/17/19	TPH 8015M	
>C28-C35	ND	31.6	mg/kg dry	1	P9E1605	05/15/19	05/17/19	TPH 8015M	
Surrogate: 1-Chlorooctane		98.1 %	70-130		P9E1605	05/15/19	05/17/19	TPH 8015M	
Surrogate: o-Terphenyl		110 %	70-130		P9E1605	05/15/19	05/17/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	31.6	mg/kg dry	1	[CALC]	05/15/19	05/17/19	calc	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Dp-17 (5'-6')
9E15009-22 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0241	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B	
Toluene	ND	0.0241	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B	
Ethylbenzene	ND	0.0241	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B	
Xylene (p/m)	ND	0.0482	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B	
Xylene (o)	ND	0.0241	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		110 %	75-125		P9E2305	05/23/19	05/23/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		94.8 %	75-125		P9E2305	05/23/19	05/23/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	65.5	1.20	mg/kg dry	1	P9E2103	05/21/19	05/21/19	EPA 300.0	
% Moisture	17.0	0.1	%	1	P9E1602	05/16/19	05/16/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	30.1	mg/kg dry	1	P9E1605	05/15/19	05/17/19	TPH 8015M	
>C12-C28	ND	30.1	mg/kg dry	1	P9E1605	05/15/19	05/17/19	TPH 8015M	
>C28-C35	ND	30.1	mg/kg dry	1	P9E1605	05/15/19	05/17/19	TPH 8015M	
Surrogate: 1-Chlorooctane		97.2 %	70-130		P9E1605	05/15/19	05/17/19	TPH 8015M	
Surrogate: o-Terphenyl		109 %	70-130		P9E1605	05/15/19	05/17/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	30.1	mg/kg dry	1	[CALC]	05/15/19	05/17/19	calc	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Dp-17 (6'-8')
9E15009-23 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0244	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B	
Toluene	ND	0.0244	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B	
Ethylbenzene	ND	0.0244	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B	
Xylene (p/m)	ND	0.0488	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B	
Xylene (o)	ND	0.0244	mg/kg dry	20	P9E2305	05/23/19	05/23/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		100 %	75-125		P9E2305	05/23/19	05/23/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		84.7 %	75-125		P9E2305	05/23/19	05/23/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1200	6.10	mg/kg dry	5	P9E2103	05/21/19	05/21/19	EPA 300.0	
% Moisture	18.0	0.1	%	1	P9E1602	05/16/19	05/16/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	30.5	mg/kg dry	1	P9E1605	05/15/19	05/17/19	TPH 8015M	
>C12-C28	ND	30.5	mg/kg dry	1	P9E1605	05/15/19	05/17/19	TPH 8015M	
>C28-C35	ND	30.5	mg/kg dry	1	P9E1605	05/15/19	05/17/19	TPH 8015M	
Surrogate: 1-Chlorooctane		89.6 %	70-130		P9E1605	05/15/19	05/17/19	TPH 8015M	
Surrogate: o-Terphenyl		99.5 %	70-130		P9E1605	05/15/19	05/17/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	30.5	mg/kg dry	1	[CALC]	05/15/19	05/17/19	calc	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Dp-17 (8'-10')
9E15009-24 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0215	mg/kg dry	20	P9E2305	05/23/19	05/24/19	EPA 8021B	
Toluene	ND	0.0215	mg/kg dry	20	P9E2305	05/23/19	05/24/19	EPA 8021B	
Ethylbenzene	ND	0.0215	mg/kg dry	20	P9E2305	05/23/19	05/24/19	EPA 8021B	
Xylene (p/m)	ND	0.0430	mg/kg dry	20	P9E2305	05/23/19	05/24/19	EPA 8021B	
Xylene (o)	ND	0.0215	mg/kg dry	20	P9E2305	05/23/19	05/24/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		107 %	75-125		P9E2305	05/23/19	05/24/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		106 %	75-125		P9E2305	05/23/19	05/24/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1020	1.08	mg/kg dry	1	P9E2103	05/21/19	05/21/19	EPA 300.0	
% Moisture	7.0	0.1	%	1	P9E1602	05/16/19	05/16/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P9E1605	05/15/19	05/17/19	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P9E1605	05/15/19	05/17/19	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P9E1605	05/15/19	05/17/19	TPH 8015M	
Surrogate: 1-Chlorooctane		84.0 %	70-130		P9E1605	05/15/19	05/17/19	TPH 8015M	
Surrogate: o-Terphenyl		95.0 %	70-130		P9E1605	05/15/19	05/17/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	05/15/19	05/17/19	calc	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Dp-14 (0-1')
9E15009-25 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0206	mg/kg dry	20	P9E2305	05/23/19	05/24/19	EPA 8021B
Toluene	ND	0.0206	mg/kg dry	20	P9E2305	05/23/19	05/24/19	EPA 8021B
Ethylbenzene	ND	0.0206	mg/kg dry	20	P9E2305	05/23/19	05/24/19	EPA 8021B
Xylene (p/m)	ND	0.0412	mg/kg dry	20	P9E2305	05/23/19	05/24/19	EPA 8021B
Xylene (o)	ND	0.0206	mg/kg dry	20	P9E2305	05/23/19	05/24/19	EPA 8021B
Surrogate: 4-Bromofluorobenzene		109 %	75-125		P9E2305	05/23/19	05/24/19	EPA 8021B
Surrogate: 1,4-Difluorobenzene		120 %	75-125		P9E2305	05/23/19	05/24/19	EPA 8021B

General Chemistry Parameters by EPA / Standard Methods

Chloride	4380	10.3	mg/kg dry	10	P9E2103	05/21/19	05/21/19	EPA 300.0
% Moisture	3.0	0.1	%	1	P9E1602	05/16/19	05/16/19	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P9E1701	05/17/19	05/17/19	TPH 8015M
>C12-C28	ND	25.8	mg/kg dry	1	P9E1701	05/17/19	05/17/19	TPH 8015M
>C28-C35	ND	25.8	mg/kg dry	1	P9E1701	05/17/19	05/17/19	TPH 8015M
Surrogate: 1-Chlorooctane		83.3 %	70-130		P9E1701	05/17/19	05/17/19	TPH 8015M
Surrogate: o-Terphenyl		94.2 %	70-130		P9E1701	05/17/19	05/17/19	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	05/17/19	05/17/19	calc

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Dp-14 (1-3')
9E15009-26 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0241	mg/kg dry	20	P9E2305	05/23/19	05/24/19	EPA 8021B
Toluene	ND	0.0241	mg/kg dry	20	P9E2305	05/23/19	05/24/19	EPA 8021B
Ethylbenzene	ND	0.0241	mg/kg dry	20	P9E2305	05/23/19	05/24/19	EPA 8021B
Xylene (p/m)	ND	0.0482	mg/kg dry	20	P9E2305	05/23/19	05/24/19	EPA 8021B
Xylene (o)	ND	0.0241	mg/kg dry	20	P9E2305	05/23/19	05/24/19	EPA 8021B
Surrogate: 4-Bromofluorobenzene		98.6 %	75-125		P9E2305	05/23/19	05/24/19	EPA 8021B
Surrogate: 1,4-Difluorobenzene		102 %	75-125		P9E2305	05/23/19	05/24/19	EPA 8021B

General Chemistry Parameters by EPA / Standard Methods

Chloride	1160	1.20	mg/kg dry	1	P9E2103	05/21/19	05/21/19	EPA 300.0
% Moisture	17.0	0.1	%	1	P9E1602	05/16/19	05/16/19	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	30.1	mg/kg dry	1	P9E1701	05/17/19	05/17/19	TPH 8015M
>C12-C28	ND	30.1	mg/kg dry	1	P9E1701	05/17/19	05/17/19	TPH 8015M
>C28-C35	ND	30.1	mg/kg dry	1	P9E1701	05/17/19	05/17/19	TPH 8015M
Surrogate: 1-Chlorooctane		80.6 %	70-130		P9E1701	05/17/19	05/17/19	TPH 8015M
Surrogate: o-Terphenyl		91.9 %	70-130		P9E1701	05/17/19	05/17/19	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	30.1	mg/kg dry	1	[CALC]	05/17/19	05/17/19	calc

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Dp-14 (3'-5')
9E15009-27 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0220	mg/kg dry	20	P9E2305	05/23/19	05/24/19	EPA 8021B	
Toluene	ND	0.0220	mg/kg dry	20	P9E2305	05/23/19	05/24/19	EPA 8021B	
Ethylbenzene	ND	0.0220	mg/kg dry	20	P9E2305	05/23/19	05/24/19	EPA 8021B	
Xylene (p/m)	ND	0.0440	mg/kg dry	20	P9E2305	05/23/19	05/24/19	EPA 8021B	
Xylene (o)	ND	0.0220	mg/kg dry	20	P9E2305	05/23/19	05/24/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		96.8 %	75-125		P9E2305	05/23/19	05/24/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		104 %	75-125		P9E2305	05/23/19	05/24/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	21500	54.9	mg/kg dry	50	P9E2207	05/22/19	05/22/19	EPA 300.0	
% Moisture	9.0	0.1	%	1	P9E1602	05/16/19	05/16/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P9E1701	05/17/19	05/17/19	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P9E1701	05/17/19	05/17/19	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P9E1701	05/17/19	05/17/19	TPH 8015M	
Surrogate: 1-Chlorooctane		79.0 %	70-130		P9E1701	05/17/19	05/17/19	TPH 8015M	
Surrogate: o-Terphenyl		89.2 %	70-130		P9E1701	05/17/19	05/17/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	05/17/19	05/17/19	calc	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Dp-14 (5'-6')
9E15009-28 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0260	mg/kg dry	20	P9E2305	05/23/19	05/24/19	EPA 8021B
Toluene	ND	0.0260	mg/kg dry	20	P9E2305	05/23/19	05/24/19	EPA 8021B
Ethylbenzene	ND	0.0260	mg/kg dry	20	P9E2305	05/23/19	05/24/19	EPA 8021B
Xylene (p/m)	ND	0.0519	mg/kg dry	20	P9E2305	05/23/19	05/24/19	EPA 8021B
Xylene (o)	ND	0.0260	mg/kg dry	20	P9E2305	05/23/19	05/24/19	EPA 8021B
Surrogate: 4-Bromofluorobenzene		89.2 %	75-125		P9E2305	05/23/19	05/24/19	EPA 8021B
Surrogate: 1,4-Difluorobenzene		116 %	75-125		P9E2305	05/23/19	05/24/19	EPA 8021B

General Chemistry Parameters by EPA / Standard Methods

Chloride	19100	64.9	mg/kg dry	50	P9E2207	05/22/19	05/22/19	EPA 300.0
% Moisture	23.0	0.1	%	1	P9E1602	05/16/19	05/16/19	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	32.5	mg/kg dry	1	P9E1701	05/17/19	05/17/19	TPH 8015M
>C12-C28	ND	32.5	mg/kg dry	1	P9E1701	05/17/19	05/17/19	TPH 8015M
>C28-C35	ND	32.5	mg/kg dry	1	P9E1701	05/17/19	05/17/19	TPH 8015M
Surrogate: 1-Chlorooctane		81.2 %	70-130		P9E1701	05/17/19	05/17/19	TPH 8015M
Surrogate: o-Terphenyl		91.9 %	70-130		P9E1701	05/17/19	05/17/19	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	32.5	mg/kg dry	1	[CALC]	05/17/19	05/17/19	calc

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Dp-14 (6'-8')
9E15009-29 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0233	mg/kg dry	20	P9E2305	05/23/19	05/24/19	EPA 8021B	
Toluene	ND	0.0233	mg/kg dry	20	P9E2305	05/23/19	05/24/19	EPA 8021B	
Ethylbenzene	ND	0.0233	mg/kg dry	20	P9E2305	05/23/19	05/24/19	EPA 8021B	
Xylene (p/m)	ND	0.0465	mg/kg dry	20	P9E2305	05/23/19	05/24/19	EPA 8021B	
Xylene (o)	ND	0.0233	mg/kg dry	20	P9E2305	05/23/19	05/24/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		90.1 %	75-125		P9E2305	05/23/19	05/24/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		80.2 %	75-125		P9E2305	05/23/19	05/24/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	9380	29.1	mg/kg dry	25	P9E2207	05/22/19	05/22/19	EPA 300.0	
% Moisture	14.0	0.1	%	1	P9E1602	05/16/19	05/16/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.1	mg/kg dry	1	P9E1701	05/17/19	05/17/19	TPH 8015M	
>C12-C28	ND	29.1	mg/kg dry	1	P9E1701	05/17/19	05/17/19	TPH 8015M	
>C28-C35	ND	29.1	mg/kg dry	1	P9E1701	05/17/19	05/17/19	TPH 8015M	
Surrogate: 1-Chlorooctane		82.3 %	70-130		P9E1701	05/17/19	05/17/19	TPH 8015M	
Surrogate: o-Terphenyl		93.2 %	70-130		P9E1701	05/17/19	05/17/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.1	mg/kg dry	1	[CALC]	05/17/19	05/17/19	calc	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Dp-14 (8'-10')
9E15009-30 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0222	mg/kg dry	20	P9E2305	05/23/19	05/24/19	EPA 8021B	
Toluene	ND	0.0222	mg/kg dry	20	P9E2305	05/23/19	05/24/19	EPA 8021B	
Ethylbenzene	ND	0.0222	mg/kg dry	20	P9E2305	05/23/19	05/24/19	EPA 8021B	
Xylene (p/m)	ND	0.0444	mg/kg dry	20	P9E2305	05/23/19	05/24/19	EPA 8021B	
Xylene (o)	ND	0.0222	mg/kg dry	20	P9E2305	05/23/19	05/24/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		73.2 %	75-125		P9E2305	05/23/19	05/24/19	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		89.8 %	75-125		P9E2305	05/23/19	05/24/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1380	5.56	mg/kg dry	5	P9E2207	05/22/19	05/22/19	EPA 300.0	
% Moisture	10.0	0.1	%	1	P9E1602	05/16/19	05/16/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P9E1701	05/17/19	05/17/19	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P9E1701	05/17/19	05/17/19	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P9E1701	05/17/19	05/17/19	TPH 8015M	
Surrogate: 1-Chlorooctane		86.0 %	70-130		P9E1701	05/17/19	05/17/19	TPH 8015M	
Surrogate: o-Terphenyl		92.5 %	70-130		P9E1701	05/17/19	05/17/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	05/17/19	05/17/19	calc	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Dp-12 (0-1')
9E15009-31 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0206	mg/kg dry	20	P9E2402	05/24/19	05/24/19	EPA 8021B
Toluene	ND	0.0206	mg/kg dry	20	P9E2402	05/24/19	05/24/19	EPA 8021B
Ethylbenzene	ND	0.0206	mg/kg dry	20	P9E2402	05/24/19	05/24/19	EPA 8021B
Xylene (p/m)	ND	0.0412	mg/kg dry	20	P9E2402	05/24/19	05/24/19	EPA 8021B
Xylene (o)	ND	0.0206	mg/kg dry	20	P9E2402	05/24/19	05/24/19	EPA 8021B
Surrogate: 1,4-Difluorobenzene		110 %	75-125		P9E2402	05/24/19	05/24/19	EPA 8021B
Surrogate: 4-Bromofluorobenzene		114 %	75-125		P9E2402	05/24/19	05/24/19	EPA 8021B

General Chemistry Parameters by EPA / Standard Methods

Chloride	4060	10.3	mg/kg dry	10	P9E2207	05/22/19	05/22/19	EPA 300.0
% Moisture	3.0	0.1	%	1	P9E1602	05/16/19	05/16/19	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P9E1701	05/17/19	05/17/19	TPH 8015M
>C12-C28	ND	25.8	mg/kg dry	1	P9E1701	05/17/19	05/17/19	TPH 8015M
>C28-C35	ND	25.8	mg/kg dry	1	P9E1701	05/17/19	05/17/19	TPH 8015M
Surrogate: 1-Chlorooctane		88.3 %	70-130		P9E1701	05/17/19	05/17/19	TPH 8015M
Surrogate: o-Terphenyl		97.5 %	70-130		P9E1701	05/17/19	05/17/19	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	05/17/19	05/17/19	calc

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Dp-12 (1-3')
9E15009-32 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0217	mg/kg dry	20	P9E2402	05/24/19	05/24/19	EPA 8021B
Toluene	ND	0.0217	mg/kg dry	20	P9E2402	05/24/19	05/24/19	EPA 8021B
Ethylbenzene	ND	0.0217	mg/kg dry	20	P9E2402	05/24/19	05/24/19	EPA 8021B
Xylene (p/m)	ND	0.0435	mg/kg dry	20	P9E2402	05/24/19	05/24/19	EPA 8021B
Xylene (o)	ND	0.0217	mg/kg dry	20	P9E2402	05/24/19	05/24/19	EPA 8021B
Surrogate: 1,4-Difluorobenzene		106 %	75-125		P9E2402	05/24/19	05/24/19	EPA 8021B
Surrogate: 4-Bromofluorobenzene		94.4 %	75-125		P9E2402	05/24/19	05/24/19	EPA 8021B

General Chemistry Parameters by EPA / Standard Methods

Chloride	8550	27.2	mg/kg dry	25	P9E2207	05/22/19	05/22/19	EPA 300.0
% Moisture	8.0	0.1	%	1	P9E1602	05/16/19	05/16/19	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P9E1701	05/17/19	05/17/19	TPH 8015M
>C12-C28	ND	27.2	mg/kg dry	1	P9E1701	05/17/19	05/17/19	TPH 8015M
>C28-C35	ND	27.2	mg/kg dry	1	P9E1701	05/17/19	05/17/19	TPH 8015M
Surrogate: 1-Chlorooctane		85.6 %	70-130		P9E1701	05/17/19	05/17/19	TPH 8015M
Surrogate: o-Terphenyl		94.0 %	70-130		P9E1701	05/17/19	05/17/19	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	05/17/19	05/17/19	calc

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Dp-12 (3'-5')
9E15009-33 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0217	mg/kg dry	20	P9E2402	05/24/19	05/24/19	EPA 8021B	
Toluene	ND	0.0217	mg/kg dry	20	P9E2402	05/24/19	05/24/19	EPA 8021B	
Ethylbenzene	ND	0.0217	mg/kg dry	20	P9E2402	05/24/19	05/24/19	EPA 8021B	
Xylene (p/m)	ND	0.0435	mg/kg dry	20	P9E2402	05/24/19	05/24/19	EPA 8021B	
Xylene (o)	ND	0.0217	mg/kg dry	20	P9E2402	05/24/19	05/24/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		72.7 %	75-125		P9E2402	05/24/19	05/24/19	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		91.2 %	75-125		P9E2402	05/24/19	05/24/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	145	1.09	mg/kg dry	1	P9E2207	05/22/19	05/22/19	EPA 300.0	
% Moisture	8.0	0.1	%	1	P9E1602	05/16/19	05/16/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P9E1701	05/17/19	05/17/19	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P9E1701	05/17/19	05/17/19	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P9E1701	05/17/19	05/17/19	TPH 8015M	
Surrogate: 1-Chlorooctane		88.1 %	70-130		P9E1701	05/17/19	05/17/19	TPH 8015M	
Surrogate: o-Terphenyl		98.0 %	70-130		P9E1701	05/17/19	05/17/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	05/17/19	05/17/19	calc	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Dp-12 (5'-6')
9E15009-34 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0247	mg/kg dry	20	P9E2402	05/24/19	05/24/19	EPA 8021B	
Toluene	ND	0.0247	mg/kg dry	20	P9E2402	05/24/19	05/24/19	EPA 8021B	
Ethylbenzene	ND	0.0247	mg/kg dry	20	P9E2402	05/24/19	05/24/19	EPA 8021B	
Xylene (p/m)	ND	0.0494	mg/kg dry	20	P9E2402	05/24/19	05/24/19	EPA 8021B	
Xylene (o)	ND	0.0247	mg/kg dry	20	P9E2402	05/24/19	05/24/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		98.7 %	75-125		P9E2402	05/24/19	05/24/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		118 %	75-125		P9E2402	05/24/19	05/24/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	144	1.23	mg/kg dry	1	P9E2209	05/22/19	05/22/19	EPA 300.0	
% Moisture	19.0	0.1	%	1	P9E1602	05/16/19	05/16/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	30.9	mg/kg dry	1	P9E1701	05/17/19	05/17/19	TPH 8015M	
>C12-C28	ND	30.9	mg/kg dry	1	P9E1701	05/17/19	05/17/19	TPH 8015M	
>C28-C35	ND	30.9	mg/kg dry	1	P9E1701	05/17/19	05/17/19	TPH 8015M	
Surrogate: 1-Chlorooctane		88.0 %	70-130		P9E1701	05/17/19	05/17/19	TPH 8015M	
Surrogate: o-Terphenyl		97.7 %	70-130		P9E1701	05/17/19	05/17/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	30.9	mg/kg dry	1	[CALC]	05/17/19	05/17/19	calc	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Dp-12 (6'-8')
9E15009-35 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0227	mg/kg dry	20	P9E2402	05/24/19	05/24/19	EPA 8021B	
Toluene	ND	0.0227	mg/kg dry	20	P9E2402	05/24/19	05/24/19	EPA 8021B	
Ethylbenzene	ND	0.0227	mg/kg dry	20	P9E2402	05/24/19	05/24/19	EPA 8021B	
Xylene (p/m)	ND	0.0455	mg/kg dry	20	P9E2402	05/24/19	05/24/19	EPA 8021B	
Xylene (o)	ND	0.0227	mg/kg dry	20	P9E2402	05/24/19	05/24/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		89.9 %	75-125		P9E2402	05/24/19	05/24/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.8 %	75-125		P9E2402	05/24/19	05/24/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	18.0	1.14	mg/kg dry	1	P9E2209	05/22/19	05/23/19	EPA 300.0	
% Moisture	12.0	0.1	%	1	P9E1602	05/16/19	05/16/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.4	mg/kg dry	1	P9E1701	05/17/19	05/17/19	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P9E1701	05/17/19	05/17/19	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P9E1701	05/17/19	05/17/19	TPH 8015M	
Surrogate: 1-Chlorooctane		87.8 %	70-130		P9E1701	05/17/19	05/17/19	TPH 8015M	
Surrogate: o-Terphenyl		96.6 %	70-130		P9E1701	05/17/19	05/17/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	05/17/19	05/17/19	calc	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Dp-12 (8'-10')
9E15009-36 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0263	mg/kg dry	20	P9E2402	05/24/19	05/24/19	EPA 8021B	
Toluene	ND	0.0263	mg/kg dry	20	P9E2402	05/24/19	05/24/19	EPA 8021B	
Ethylbenzene	ND	0.0263	mg/kg dry	20	P9E2402	05/24/19	05/24/19	EPA 8021B	
Xylene (p/m)	ND	0.0526	mg/kg dry	20	P9E2402	05/24/19	05/24/19	EPA 8021B	
Xylene (o)	ND	0.0263	mg/kg dry	20	P9E2402	05/24/19	05/24/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		114 %	75-125		P9E2402	05/24/19	05/24/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		100 %	75-125		P9E2402	05/24/19	05/24/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	99.9	1.32	mg/kg dry	1	P9E2209	05/22/19	05/23/19	EPA 300.0	
% Moisture	24.0	0.1	%	1	P9E1602	05/16/19	05/16/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	32.9	mg/kg dry	1	P9E1701	05/17/19	05/17/19	TPH 8015M	
>C12-C28	ND	32.9	mg/kg dry	1	P9E1701	05/17/19	05/17/19	TPH 8015M	
>C28-C35	ND	32.9	mg/kg dry	1	P9E1701	05/17/19	05/17/19	TPH 8015M	
Surrogate: 1-Chlorooctane		85.7 %	70-130		P9E1701	05/17/19	05/17/19	TPH 8015M	
Surrogate: o-Terphenyl		95.2 %	70-130		P9E1701	05/17/19	05/17/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	32.9	mg/kg dry	1	[CALC]	05/17/19	05/17/19	calc	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Dp-18 (0-1')
9E15009-37 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0233	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B	
Toluene	ND	0.0233	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B	
Ethylbenzene	ND	0.0233	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B	
Xylene (p/m)	ND	0.0465	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B	
Xylene (o)	ND	0.0233	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		108 %	75-125		P9E2402	05/24/19	05/25/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		95.2 %	75-125		P9E2402	05/24/19	05/25/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	11800	58.1	mg/kg dry	50	P9E2209	05/22/19	05/23/19	EPA 300.0	
% Moisture	14.0	0.1	%	1	P9E1602	05/16/19	05/16/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.1	mg/kg dry	1	P9E1701	05/17/19	05/17/19	TPH 8015M	
>C12-C28	ND	29.1	mg/kg dry	1	P9E1701	05/17/19	05/17/19	TPH 8015M	
>C28-C35	ND	29.1	mg/kg dry	1	P9E1701	05/17/19	05/17/19	TPH 8015M	
Surrogate: 1-Chlorooctane		91.8 %	70-130		P9E1701	05/17/19	05/17/19	TPH 8015M	
Surrogate: o-Terphenyl		103 %	70-130		P9E1701	05/17/19	05/17/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.1	mg/kg dry	1	[CALC]	05/17/19	05/17/19	calc	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Dp-18 (1-3')
9E15009-38 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0206	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B
Toluene	ND	0.0206	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B
Ethylbenzene	ND	0.0206	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B
Xylene (p/m)	ND	0.0412	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B
Xylene (o)	ND	0.0206	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B
Surrogate: 4-Bromofluorobenzene		89.1 %	75-125		P9E2402	05/24/19	05/25/19	EPA 8021B
Surrogate: 1,4-Difluorobenzene		97.1 %	75-125		P9E2402	05/24/19	05/25/19	EPA 8021B

General Chemistry Parameters by EPA / Standard Methods

Chloride	2910	10.3	mg/kg dry	10	P9E2209	05/22/19	05/23/19	EPA 300.0
% Moisture	3.0	0.1	%	1	P9E1602	05/16/19	05/16/19	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P9E1701	05/17/19	05/17/19	TPH 8015M
>C12-C28	ND	25.8	mg/kg dry	1	P9E1701	05/17/19	05/17/19	TPH 8015M
>C28-C35	ND	25.8	mg/kg dry	1	P9E1701	05/17/19	05/17/19	TPH 8015M
Surrogate: 1-Chlorooctane		91.8 %	70-130		P9E1701	05/17/19	05/17/19	TPH 8015M
Surrogate: o-Terphenyl		102 %	70-130		P9E1701	05/17/19	05/17/19	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	05/17/19	05/17/19	calc

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Dp-18 (3'-5')
9E15009-39 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0208	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B	
Toluene	ND	0.0208	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B	
Ethylbenzene	ND	0.0208	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B	
Xylene (p/m)	ND	0.0417	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B	
Xylene (o)	ND	0.0208	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		100 %	75-125		P9E2402	05/24/19	05/25/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		86.4 %	75-125		P9E2402	05/24/19	05/25/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	3240	10.4	mg/kg dry	10	P9E2209	05/22/19	05/23/19	EPA 300.0	
% Moisture	4.0	0.1	%	1	P9E1602	05/16/19	05/16/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P9E1701	05/17/19	05/17/19	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P9E1701	05/17/19	05/17/19	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P9E1701	05/17/19	05/17/19	TPH 8015M	
Surrogate: 1-Chlorooctane		92.1 %	70-130		P9E1701	05/17/19	05/17/19	TPH 8015M	
Surrogate: o-Terphenyl		104 %	70-130		P9E1701	05/17/19	05/17/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	05/17/19	05/17/19	calc	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Dp-18 (5'-6')
9E15009-40 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0227	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B
Toluene	ND	0.0227	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B
Ethylbenzene	ND	0.0227	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B
Xylene (p/m)	ND	0.0455	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B
Xylene (o)	ND	0.0227	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B
Surrogate: 1,4-Difluorobenzene		107 %	75-125		P9E2402	05/24/19	05/25/19	EPA 8021B
Surrogate: 4-Bromofluorobenzene		92.5 %	75-125		P9E2402	05/24/19	05/25/19	EPA 8021B

General Chemistry Parameters by EPA / Standard Methods

Chloride	13100	56.8	mg/kg dry	50	P9E2209	05/22/19	05/23/19	EPA 300.0
% Moisture	12.0	0.1	%	1	P9E1602	05/16/19	05/16/19	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.4	mg/kg dry	1	P9E1801	05/17/19	05/18/19	TPH 8015M
>C12-C28	ND	28.4	mg/kg dry	1	P9E1801	05/17/19	05/18/19	TPH 8015M
>C28-C35	ND	28.4	mg/kg dry	1	P9E1801	05/17/19	05/18/19	TPH 8015M
Surrogate: 1-Chlorooctane		84.2 %	70-130		P9E1801	05/17/19	05/18/19	TPH 8015M
Surrogate: o-Terphenyl		92.8 %	70-130		P9E1801	05/17/19	05/18/19	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	05/17/19	05/18/19	calc

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Dp-18 (6'-8')
9E15009-41 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0278	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B	
Toluene	ND	0.0278	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B	
Ethylbenzene	ND	0.0278	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B	
Xylene (p/m)	ND	0.0556	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B	
Xylene (o)	ND	0.0278	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		104 %	75-125		P9E2402	05/24/19	05/25/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		108 %	75-125		P9E2402	05/24/19	05/25/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	26400	69.4	mg/kg dry	50	P9E2209	05/22/19	05/23/19	EPA 300.0	
% Moisture	28.0	0.1	%	1	P9E1602	05/16/19	05/16/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	34.7	mg/kg dry	1	P9E1801	05/17/19	05/18/19	TPH 8015M	
>C12-C28	ND	34.7	mg/kg dry	1	P9E1801	05/17/19	05/18/19	TPH 8015M	
>C28-C35	ND	34.7	mg/kg dry	1	P9E1801	05/17/19	05/18/19	TPH 8015M	
Surrogate: 1-Chlorooctane		84.2 %	70-130		P9E1801	05/17/19	05/18/19	TPH 8015M	
Surrogate: o-Terphenyl		94.8 %	70-130		P9E1801	05/17/19	05/18/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	34.7	mg/kg dry	1	[CALC]	05/17/19	05/18/19	calc	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Dp-18 (8'-10')
9E15009-42 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0222	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B	
Toluene	ND	0.0222	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B	
Ethylbenzene	ND	0.0222	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B	
Xylene (p/m)	ND	0.0444	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B	
Xylene (o)	ND	0.0222	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		115 %	75-125		P9E2402	05/24/19	05/25/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		110 %	75-125		P9E2402	05/24/19	05/25/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	15700	55.6	mg/kg dry	50	P9E2209	05/22/19	05/23/19	EPA 300.0	
% Moisture	10.0	0.1	%	1	P9E1602	05/16/19	05/16/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P9E1801	05/17/19	05/18/19	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P9E1801	05/17/19	05/18/19	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P9E1801	05/17/19	05/18/19	TPH 8015M	
Surrogate: 1-Chlorooctane		88.4 %	70-130		P9E1801	05/17/19	05/18/19	TPH 8015M	
Surrogate: o-Terphenyl		98.7 %	70-130		P9E1801	05/17/19	05/18/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	05/17/19	05/18/19	calc	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Dp-19 (0-1')
9E15009-43 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0241	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B	
Toluene	ND	0.0241	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B	
Ethylbenzene	ND	0.0241	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B	
Xylene (p/m)	ND	0.0482	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B	
Xylene (o)	ND	0.0241	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		106 %	75-125		P9E2402	05/24/19	05/25/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		101 %	75-125		P9E2402	05/24/19	05/25/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1050	6.02	mg/kg dry	5	P9E2209	05/22/19	05/23/19	EPA 300.0	
% Moisture	17.0	0.1	%	1	P9E1602	05/16/19	05/16/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	30.1	mg/kg dry	1	P9E1801	05/17/19	05/18/19	TPH 8015M	
>C12-C28	ND	30.1	mg/kg dry	1	P9E1801	05/17/19	05/18/19	TPH 8015M	
>C28-C35	ND	30.1	mg/kg dry	1	P9E1801	05/17/19	05/18/19	TPH 8015M	
Surrogate: 1-Chlorooctane		84.8 %	70-130		P9E1801	05/17/19	05/18/19	TPH 8015M	
Surrogate: o-Terphenyl		96.1 %	70-130		P9E1801	05/17/19	05/18/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	30.1	mg/kg dry	1	[CALC]	05/17/19	05/18/19	calc	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Dp-19 (1-3')
9E15009-44 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0244	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B
Toluene	ND	0.0244	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B
Ethylbenzene	ND	0.0244	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B
Xylene (p/m)	ND	0.0488	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B
Xylene (o)	ND	0.0244	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B
Surrogate: 4-Bromofluorobenzene		99.1 %	75-125		P9E2402	05/24/19	05/25/19	EPA 8021B
Surrogate: 1,4-Difluorobenzene		112 %	75-125		P9E2402	05/24/19	05/25/19	EPA 8021B

General Chemistry Parameters by EPA / Standard Methods

Chloride	6300	30.5	mg/kg dry	25	P9E2209	05/22/19	05/23/19	EPA 300.0
% Moisture	18.0	0.1	%	1	P9E1602	05/16/19	05/16/19	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	30.5	mg/kg dry	1	P9E1802	05/18/19	05/18/19	TPH 8015M
>C12-C28	ND	30.5	mg/kg dry	1	P9E1802	05/18/19	05/18/19	TPH 8015M
>C28-C35	ND	30.5	mg/kg dry	1	P9E1802	05/18/19	05/18/19	TPH 8015M
Surrogate: 1-Chlorooctane		85.2 %	70-130		P9E1802	05/18/19	05/18/19	TPH 8015M
Surrogate: o-Terphenyl		95.7 %	70-130		P9E1802	05/18/19	05/18/19	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	30.5	mg/kg dry	1	[CALC]	05/18/19	05/18/19	calc

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Dp-19 (3'-5')
9E15009-45 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0250	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B	
Xylene (p/m)	ND	0.0500	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B	
Xylene (o)	ND	0.0250	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		97.8 %	75-125		P9E2402	05/24/19	05/25/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		104 %	75-125		P9E2402	05/24/19	05/25/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	7900	31.2	mg/kg dry	25	P9E2209	05/22/19	05/23/19	EPA 300.0	
% Moisture	20.0	0.1	%	1	P9E1602	05/16/19	05/16/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	31.2	mg/kg dry	1	P9E1802	05/18/19	05/18/19	TPH 8015M	
>C12-C28	ND	31.2	mg/kg dry	1	P9E1802	05/18/19	05/18/19	TPH 8015M	
>C28-C35	ND	31.2	mg/kg dry	1	P9E1802	05/18/19	05/18/19	TPH 8015M	
Surrogate: 1-Chlorooctane		87.5 %	70-130		P9E1802	05/18/19	05/18/19	TPH 8015M	
Surrogate: o-Terphenyl		99.5 %	70-130		P9E1802	05/18/19	05/18/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	31.2	mg/kg dry	1	[CALC]	05/18/19	05/18/19	calc	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Dp-19 (5'-6')
9E15009-46 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0238	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B	
Toluene	ND	0.0238	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B	
Ethylbenzene	ND	0.0238	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B	
Xylene (p/m)	ND	0.0476	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B	
Xylene (o)	ND	0.0238	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		105 %	75-125		P9E2402	05/24/19	05/25/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		86.8 %	75-125		P9E2402	05/24/19	05/25/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	3330	11.9	mg/kg dry	10	P9E2209	05/22/19	05/23/19	EPA 300.0	
% Moisture	16.0	0.1	%	1	P9E1602	05/16/19	05/16/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.8	mg/kg dry	1	P9E1802	05/18/19	05/18/19	TPH 8015M	
>C12-C28	ND	29.8	mg/kg dry	1	P9E1802	05/18/19	05/18/19	TPH 8015M	
>C28-C35	ND	29.8	mg/kg dry	1	P9E1802	05/18/19	05/18/19	TPH 8015M	
Surrogate: 1-Chlorooctane		97.6 %	70-130		P9E1802	05/18/19	05/18/19	TPH 8015M	
Surrogate: o-Terphenyl		110 %	70-130		P9E1802	05/18/19	05/18/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.8	mg/kg dry	1	[CALC]	05/18/19	05/18/19	calc	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Dp-19 (6'-8')
9E15009-47 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0256	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B
Toluene	ND	0.0256	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B
Ethylbenzene	ND	0.0256	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B
Xylene (p/m)	ND	0.0513	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B
Xylene (o)	ND	0.0256	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B
Surrogate: 4-Bromofluorobenzene		84.2 %	75-125		P9E2402	05/24/19	05/25/19	EPA 8021B
Surrogate: 1,4-Difluorobenzene		100 %	75-125		P9E2402	05/24/19	05/25/19	EPA 8021B

General Chemistry Parameters by EPA / Standard Methods

Chloride	15800	64.1	mg/kg dry	50	P9E2209	05/22/19	05/23/19	EPA 300.0
% Moisture	22.0	0.1	%	1	P9E1602	05/16/19	05/16/19	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	32.1	mg/kg dry	1	P9E1802	05/18/19	05/18/19	TPH 8015M
>C12-C28	ND	32.1	mg/kg dry	1	P9E1802	05/18/19	05/18/19	TPH 8015M
>C28-C35	ND	32.1	mg/kg dry	1	P9E1802	05/18/19	05/18/19	TPH 8015M
Surrogate: 1-Chlorooctane		102 %	70-130		P9E1802	05/18/19	05/18/19	TPH 8015M
Surrogate: o-Terphenyl		115 %	70-130		P9E1802	05/18/19	05/18/19	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	32.1	mg/kg dry	1	[CALC]	05/18/19	05/18/19	calc

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Dp-19 (8'-10')
9E15009-48 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.0263	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B
Toluene	ND	0.0263	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B
Ethylbenzene	ND	0.0263	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B
Xylene (p/m)	ND	0.0526	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B
Xylene (o)	ND	0.0263	mg/kg dry	20	P9E2402	05/24/19	05/25/19	EPA 8021B
Surrogate: 4-Bromofluorobenzene		96.1 %	75-125		P9E2402	05/24/19	05/25/19	EPA 8021B
Surrogate: 1,4-Difluorobenzene		109 %	75-125		P9E2402	05/24/19	05/25/19	EPA 8021B

General Chemistry Parameters by EPA / Standard Methods

Chloride	8630	32.9	mg/kg dry	25	P9E2209	05/22/19	05/23/19	EPA 300.0
% Moisture	24.0	0.1	%	1	P9E1602	05/16/19	05/16/19	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	32.9	mg/kg dry	1	P9E1802	05/18/19	05/18/19	TPH 8015M
>C12-C28	ND	32.9	mg/kg dry	1	P9E1802	05/18/19	05/18/19	TPH 8015M
>C28-C35	ND	32.9	mg/kg dry	1	P9E1802	05/18/19	05/18/19	TPH 8015M
Surrogate: 1-Chlorooctane		92.3 %	70-130		P9E1802	05/18/19	05/18/19	TPH 8015M
Surrogate: o-Terphenyl		106 %	70-130		P9E1802	05/18/19	05/18/19	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	32.9	mg/kg dry	1	[CALC]	05/18/19	05/18/19	calc

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch P9E1803 - General Preparation (GC)

Blank (P9E1803-BLK1)

Prepared & Analyzed: 05/18/19

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.0549		"	0.0600		91.4	75-125			
Surrogate: 4-Bromofluorobenzene	0.0557		"	0.0600		92.9	75-125			

LCS (P9E1803-BS1)

Prepared & Analyzed: 05/18/19

Benzene	0.0875	0.00100	mg/kg wet	0.100		87.5	70-130			
Toluene	0.0867	0.00100	"	0.100		86.7	70-130			
Ethylbenzene	0.105	0.00100	"	0.100		105	70-130			
Xylene (p/m)	0.161	0.00200	"	0.200		80.6	70-130			
Xylene (o)	0.0956	0.00100	"	0.100		95.6	70-130			
Surrogate: 1,4-Difluorobenzene	0.0639		"	0.0600		106	75-125			
Surrogate: 4-Bromofluorobenzene	0.0530		"	0.0600		88.3	75-125			

LCS Dup (P9E1803-BSD1)

Prepared & Analyzed: 05/18/19

Benzene	0.0902	0.00100	mg/kg wet	0.100		90.2	70-130	3.05	20	
Toluene	0.0878	0.00100	"	0.100		87.8	70-130	1.34	20	
Ethylbenzene	0.103	0.00100	"	0.100		103	70-130	1.75	20	
Xylene (p/m)	0.162	0.00200	"	0.200		81.0	70-130	0.588	20	
Xylene (o)	0.0940	0.00100	"	0.100		94.0	70-130	1.67	20	
Surrogate: 1,4-Difluorobenzene	0.0683		"	0.0600		114	75-125			
Surrogate: 4-Bromofluorobenzene	0.0509		"	0.0600		84.9	75-125			

Calibration Blank (P9E1803-CCB1)

Prepared & Analyzed: 05/18/19

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.0600		"	0.0600		100	75-125			
Surrogate: 4-Bromofluorobenzene	0.0462		"	0.0600		77.1	75-125			

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch P9E1803 - General Preparation (GC)

Calibration Blank (P9E1803-CCB2)

Prepared & Analyzed: 05/18/19

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.0498		"	0.0600		83.0	75-125			
Surrogate: 1,4-Difluorobenzene	0.0585		"	0.0600		97.4	75-125			

Calibration Check (P9E1803-CCV1)

Prepared & Analyzed: 05/18/19

Benzene	0.0936	0.00100	mg/kg wet	0.100		93.6	80-120			
Toluene	0.0883	0.00100	"	0.100		88.3	80-120			
Ethylbenzene	0.0952	0.00100	"	0.100		95.2	80-120			
Xylene (p/m)	0.160	0.00200	"	0.200		80.1	80-120			
Xylene (o)	0.0948	0.00100	"	0.100		94.8	80-120			
Surrogate: 1,4-Difluorobenzene	0.0686		"	0.0600		114	75-125			
Surrogate: 4-Bromofluorobenzene	0.0548		"	0.0600		91.3	75-125			

Calibration Check (P9E1803-CCV2)

Prepared & Analyzed: 05/18/19

Benzene	0.101	0.00100	mg/kg wet	0.100		101	80-120			
Toluene	0.0998	0.00100	"	0.100		99.8	80-120			
Ethylbenzene	0.107	0.00100	"	0.100		107	80-120			
Xylene (p/m)	0.173	0.00200	"	0.200		86.5	80-120			
Xylene (o)	0.105	0.00100	"	0.100		105	80-120			
Surrogate: 4-Bromofluorobenzene	0.0512		"	0.0600		85.3	75-125			
Surrogate: 1,4-Difluorobenzene	0.0679		"	0.0600		113	75-125			

Calibration Check (P9E1803-CCV3)

Prepared: 05/18/19 Analyzed: 05/19/19

Benzene	0.0955	0.00100	mg/kg wet	0.100		95.5	80-120			
Toluene	0.0966	0.00100	"	0.100		96.6	80-120			
Ethylbenzene	0.102	0.00100	"	0.100		102	80-120			
Xylene (p/m)	0.166	0.00200	"	0.200		83.2	80-120			
Xylene (o)	0.101	0.00100	"	0.100		101	80-120			
Surrogate: 4-Bromofluorobenzene	0.0502		"	0.0600		83.7	75-125			
Surrogate: 1,4-Difluorobenzene	0.0679		"	0.0600		113	75-125			

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch P9E1803 - General Preparation (GC)

Matrix Spike (P9E1803-MS1)

Source: 9E15008-01

Prepared: 05/18/19 Analyzed: 05/19/19

Benzene	0.0577	0.00116	mg/kg dry	0.116	ND	49.6	80-120			QM-07
Toluene	0.0602	0.00116	"	0.116	ND	51.8	80-120			QM-07
Ethylbenzene	0.0820	0.00116	"	0.116	ND	70.5	80-120			QM-07
Xylene (p/m)	0.116	0.00233	"	0.233	ND	49.9	80-120			QM-07
Xylene (o)	0.0646	0.00116	"	0.116	ND	55.6	80-120			QM-07
Surrogate: 4-Bromofluorobenzene	0.0618		"	0.0698		88.6	75-125			
Surrogate: 1,4-Difluorobenzene	0.0781		"	0.0698		112	75-125			

Matrix Spike Dup (P9E1803-MSD1)

Source: 9E15008-01

Prepared: 05/18/19 Analyzed: 05/19/19

Benzene	0.0559	0.00116	mg/kg dry	0.116	ND	48.0	80-120	3.26	20	QM-07
Toluene	0.0590	0.00116	"	0.116	ND	50.7	80-120	2.07	20	QM-07
Ethylbenzene	0.0731	0.00116	"	0.116	ND	62.9	80-120	11.4	20	QM-07
Xylene (p/m)	0.0998	0.00233	"	0.233	ND	42.9	80-120	15.1	20	QM-07
Xylene (o)	0.0536	0.00116	"	0.116	ND	46.1	80-120	18.6	20	QM-07
Surrogate: 4-Bromofluorobenzene	0.0595		"	0.0698		85.2	75-125			
Surrogate: 1,4-Difluorobenzene	0.0774		"	0.0698		111	75-125			

Batch P9E2305 - General Preparation (GC)

Blank (P9E2305-BLK1)

Prepared & Analyzed: 05/23/19

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.0586		"	0.0600		97.6	75-125			
Surrogate: 4-Bromofluorobenzene	0.0611		"	0.0600		102	75-125			

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch P9E2305 - General Preparation (GC)

LCS (P9E2305-BS1)

Prepared & Analyzed: 05/23/19

Benzene	0.0985	0.00100	mg/kg wet	0.100		98.5	70-130			
Toluene	0.0922	0.00100	"	0.100		92.2	70-130			
Ethylbenzene	0.104	0.00100	"	0.100		104	70-130			
Xylene (p/m)	0.166	0.00200	"	0.200		83.2	70-130			
Xylene (o)	0.0932	0.00100	"	0.100		93.2	70-130			
Surrogate: 1,4-Difluorobenzene	0.0626		"	0.0600		104	75-125			
Surrogate: 4-Bromofluorobenzene	0.0652		"	0.0600		109	75-125			

LCS Dup (P9E2305-BSD1)

Prepared & Analyzed: 05/23/19

Benzene	0.106	0.00100	mg/kg wet	0.100		106	70-130	7.09	20	
Toluene	0.0981	0.00100	"	0.100		98.1	70-130	6.20	20	
Ethylbenzene	0.110	0.00100	"	0.100		110	70-130	5.22	20	
Xylene (p/m)	0.168	0.00200	"	0.200		84.0	70-130	0.903	20	
Xylene (o)	0.0983	0.00100	"	0.100		98.3	70-130	5.35	20	
Surrogate: 4-Bromofluorobenzene	0.0626		"	0.0600		104	75-125			
Surrogate: 1,4-Difluorobenzene	0.0647		"	0.0600		108	75-125			

Matrix Spike (P9E2305-MS1)

Source: 9E17007-01

Prepared: 05/23/19 Analyzed: 05/24/19

Benzene	0.184	0.0227	mg/kg dry	0.227	ND	80.8	80-120			
Toluene	0.185	0.0227	"	0.227	ND	81.6	80-120			
Ethylbenzene	0.233	0.0227	"	0.227	ND	102	80-120			
Xylene (p/m)	0.464	0.0455	"	0.455	ND	102	80-120			
Xylene (o)	0.182	0.0227	"	0.227	ND	80.1	80-120			
Surrogate: 4-Bromofluorobenzene	0.0666		"	0.0682		97.8	75-125			
Surrogate: 1,4-Difluorobenzene	0.0759		"	0.0682		111	75-125			

Matrix Spike Dup (P9E2305-MSD1)

Source: 9E17007-01

Prepared: 05/23/19 Analyzed: 05/24/19

Benzene	0.189	0.0227	mg/kg dry	0.227	ND	83.3	80-120	3.05	20	
Toluene	0.213	0.0227	"	0.227	ND	93.9	80-120	14.0	20	
Ethylbenzene	0.246	0.0227	"	0.227	ND	108	80-120	5.50	20	
Xylene (p/m)	0.458	0.0455	"	0.455	ND	101	80-120	1.38	20	
Xylene (o)	0.178	0.0227	"	0.227	ND	78.5	80-120	2.02	20	QM-07
Surrogate: 4-Bromofluorobenzene	0.0632		"	0.0682		92.7	75-125			
Surrogate: 1,4-Difluorobenzene	0.0752		"	0.0682		110	75-125			

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch P9E2402 - General Preparation (GC)

Blank (P9E2402-BLK1)

Prepared & Analyzed: 05/24/19

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.0589		"	0.0600		98.1	75-125			
Surrogate: 4-Bromofluorobenzene	0.0519		"	0.0600		86.5	75-125			

LCS (P9E2402-BS1)

Prepared & Analyzed: 05/24/19

Benzene	0.103	0.00100	mg/kg wet	0.100		103	70-130			
Toluene	0.103	0.00100	"	0.100		103	70-130			
Ethylbenzene	0.114	0.00100	"	0.100		114	70-130			
Xylene (p/m)	0.169	0.00200	"	0.200		84.6	70-130			
Xylene (o)	0.0975	0.00100	"	0.100		97.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.0682		"	0.0600		114	75-125			
Surrogate: 1,4-Difluorobenzene	0.0674		"	0.0600		112	75-125			

LCS Dup (P9E2402-BSD1)

Prepared & Analyzed: 05/24/19

Benzene	0.104	0.00100	mg/kg wet	0.100		104	70-130	0.116	20	
Toluene	0.104	0.00100	"	0.100		104	70-130	1.13	20	
Ethylbenzene	0.115	0.00100	"	0.100		115	70-130	0.752	20	
Xylene (p/m)	0.170	0.00200	"	0.200		85.0	70-130	0.407	20	
Xylene (o)	0.0970	0.00100	"	0.100		97.0	70-130	0.432	20	
Surrogate: 4-Bromofluorobenzene	0.0662		"	0.0600		110	75-125			
Surrogate: 1,4-Difluorobenzene	0.0691		"	0.0600		115	75-125			

Calibration Blank (P9E2402-CCB1)

Prepared & Analyzed: 05/24/19

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.0569		"	0.0600		94.8	75-125			
Surrogate: 1,4-Difluorobenzene	0.0537		"	0.0600		89.5	75-125			

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch P9E2402 - General Preparation (GC)

Calibration Blank (P9E2402-CCB2)

Prepared: 05/24/19 Analyzed: 05/25/19

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.0628		"	0.0600		105	75-125			
Surrogate: 1,4-Difluorobenzene	0.0702		"	0.0600		117	75-125			

Calibration Check (P9E2402-CCV2)

Prepared: 05/24/19 Analyzed: 05/25/19

Benzene	0.0992	0.00100	mg/kg wet	0.100		99.2	80-120			
Toluene	0.0983	0.00100	"	0.100		98.3	80-120			
Ethylbenzene	0.0945	0.00100	"	0.100		94.5	80-120			
Xylene (p/m)	0.161	0.00200	"	0.200		80.6	80-120			
Xylene (o)	0.0929	0.00100	"	0.100		92.9	80-120			
Surrogate: 4-Bromofluorobenzene	0.0634		"	0.0600		106	75-125			
Surrogate: 1,4-Difluorobenzene	0.0662		"	0.0600		110	75-125			

Calibration Check (P9E2402-CCV3)

Prepared: 05/24/19 Analyzed: 05/25/19

Benzene	0.0961	0.00100	mg/kg wet	0.100		96.1	80-120			
Toluene	0.0944	0.00100	"	0.100		94.4	80-120			
Ethylbenzene	0.0936	0.00100	"	0.100		93.6	80-120			
Xylene (p/m)	0.161	0.00200	"	0.200		80.4	80-120			
Xylene (o)	0.0922	0.00100	"	0.100		92.2	80-120			
Surrogate: 4-Bromofluorobenzene	0.0627		"	0.0600		104	75-125			
Surrogate: 1,4-Difluorobenzene	0.0647		"	0.0600		108	75-125			

Matrix Spike (P9E2402-MS1)

Source: 9E15009-31

Prepared: 05/24/19 Analyzed: 05/25/19

Benzene	2.03	0.0206	mg/kg dry	2.06	ND	98.7	80-120			
Toluene	2.08	0.0206	"	2.06	ND	101	80-120			
Ethylbenzene	2.27	0.0206	"	2.06	ND	110	80-120			
Xylene (p/m)	3.48	0.0412	"	4.12	0.0266	83.8	80-120			
Xylene (o)	1.87	0.0206	"	2.06	0.0165	89.7	80-120			
Surrogate: 4-Bromofluorobenzene	0.0614		"	0.0619		99.2	75-125			
Surrogate: 1,4-Difluorobenzene	0.0706		"	0.0619		114	75-125			

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch P9E2402 - General Preparation (GC)

Matrix Spike Dup (P9E2402-MSD1)	Source: 9E15009-31			Prepared: 05/24/19		Analyzed: 05/25/19				
Benzene	2.12	0.0206	mg/kg dry	2.06	ND	103	80-120	4.10	20	
Toluene	2.13	0.0206	"	2.06	ND	103	80-120	2.16	20	
Ethylbenzene	2.37	0.0206	"	2.06	ND	115	80-120	4.41	20	
Xylene (p/m)	3.56	0.0412	"	4.12	0.0266	85.8	80-120	2.34	20	
Xylene (o)	1.98	0.0206	"	2.06	0.0165	95.0	80-120	5.78	20	
Surrogate: 1,4-Difluorobenzene	0.0671		"	0.0619		108	75-125			
Surrogate: 4-Bromofluorobenzene	0.0635		"	0.0619		103	75-125			

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch P9E1602 - * DEFAULT PREP *****

Blank (P9E1602-BLK1)

Prepared & Analyzed: 05/16/19

% Moisture ND 0.1 %

Duplicate (P9E1602-DUP1)

Source: 9E15008-01

Prepared & Analyzed: 05/16/19

% Moisture 13.0 0.1 % 14.0 7.41 20

Duplicate (P9E1602-DUP2)

Source: 9E15009-45

Prepared & Analyzed: 05/16/19

% Moisture 21.0 0.1 % 20.0 4.88 20

Duplicate (P9E1602-DUP3)

Source: 9E15011-01

Prepared & Analyzed: 05/16/19

% Moisture 11.0 0.1 % 11.0 0.00 20

Batch P9E1710 - * DEFAULT PREP *****

Blank (P9E1710-BLK1)

Prepared: 05/15/19 Analyzed: 05/19/19

Chloride ND 1.00 mg/kg wet

LCS (P9E1710-BS1)

Prepared: 05/15/19 Analyzed: 05/19/19

Chloride 423 1.00 mg/kg wet 400 106 80-120

LCS Dup (P9E1710-BSD1)

Prepared: 05/15/19 Analyzed: 05/19/19

Chloride 424 1.00 mg/kg wet 400 106 80-120 0.158 20

Calibration Blank (P9E1710-CCB1)

Prepared: 05/15/19 Analyzed: 05/19/19

Chloride 0.00 mg/kg wet

Calibration Blank (P9E1710-CCB2)

Prepared: 05/15/19 Analyzed: 05/19/19

Chloride -0.0560 mg/kg wet

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch P9E1710 - * DEFAULT PREP *****

Calibration Check (P9E1710-CCV1)

Prepared: 05/15/19 Analyzed: 05/19/19

Chloride	20.8		mg/kg	20.0		104	0-200			
----------	------	--	-------	------	--	-----	-------	--	--	--

Calibration Check (P9E1710-CCV2)

Prepared: 05/15/19 Analyzed: 05/19/19

Chloride	20.6		mg/kg	20.0		103	0-200			
----------	------	--	-------	------	--	-----	-------	--	--	--

Calibration Check (P9E1710-CCV3)

Prepared: 05/15/19 Analyzed: 05/19/19

Chloride	20.7		mg/kg	20.0		103	0-200			
----------	------	--	-------	------	--	-----	-------	--	--	--

Matrix Spike (P9E1710-MS1)

Source: 9E15009-08

Prepared: 05/15/19 Analyzed: 05/19/19

Chloride	35800	59.5	mg/kg dry	23800	13500	93.7	80-120			
----------	-------	------	-----------	-------	-------	------	--------	--	--	--

Matrix Spike (P9E1710-MS2)

Source: 9E15009-15

Prepared: 05/15/19 Analyzed: 05/19/19

Chloride	18400	29.8	mg/kg dry	11900	6340	101	80-120			
----------	-------	------	-----------	-------	------	-----	--------	--	--	--

Matrix Spike Dup (P9E1710-MSD1)

Source: 9E15009-08

Prepared: 05/15/19 Analyzed: 05/19/19

Chloride	35800	59.5	mg/kg dry	23800	13500	94.0	80-120	0.143	20	
----------	-------	------	-----------	-------	-------	------	--------	-------	----	--

Matrix Spike Dup (P9E1710-MSD2)

Source: 9E15009-15

Prepared: 05/15/19 Analyzed: 05/19/19

Chloride	18500	29.8	mg/kg dry	11900	6340	102	80-120	0.418	20	
----------	-------	------	-----------	-------	------	-----	--------	-------	----	--

Batch P9E2103 - * DEFAULT PREP *****

Blank (P9E2103-BLK1)

Prepared & Analyzed: 05/21/19

Chloride	ND	1.00	mg/kg wet							
----------	----	------	-----------	--	--	--	--	--	--	--

LCS (P9E2103-BS1)

Prepared & Analyzed: 05/21/19

Chloride	414	1.00	mg/kg wet	400		103	80-120			
----------	-----	------	-----------	-----	--	-----	--------	--	--	--

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch P9E2103 - * DEFAULT PREP *****

LCS Dup (P9E2103-BSD1)

Prepared & Analyzed: 05/21/19

Chloride	411	1.00	mg/kg wet	400		103	80-120	0.740	20	
----------	-----	------	-----------	-----	--	-----	--------	-------	----	--

Calibration Blank (P9E2103-CCB1)

Prepared & Analyzed: 05/21/19

Chloride	0.00		mg/kg wet							
----------	------	--	-----------	--	--	--	--	--	--	--

Calibration Blank (P9E2103-CCB2)

Prepared & Analyzed: 05/21/19

Chloride	-0.0490		mg/kg wet							
----------	---------	--	-----------	--	--	--	--	--	--	--

Calibration Check (P9E2103-CCV1)

Prepared & Analyzed: 05/21/19

Chloride	20.1	0.100	mg/kg wet				0-200			
----------	------	-------	-----------	--	--	--	-------	--	--	--

Calibration Check (P9E2103-CCV2)

Prepared & Analyzed: 05/21/19

Chloride	20.2	0.100	mg/kg wet				0-200			
----------	------	-------	-----------	--	--	--	-------	--	--	--

Calibration Check (P9E2103-CCV3)

Prepared: 05/21/19 Analyzed: 05/22/19

Chloride	20.1	0.100	mg/kg wet				0-200			
----------	------	-------	-----------	--	--	--	-------	--	--	--

Matrix Spike (P9E2103-MS1)

Source: 9E17006-27

Prepared & Analyzed: 05/21/19

Chloride	9170	11.2	mg/kg dry	5620	3550	100	80-120			
----------	------	------	-----------	------	------	-----	--------	--	--	--

Matrix Spike (P9E2103-MS2)

Source: 9E15009-19

Prepared & Analyzed: 05/21/19

Chloride	11000	10.5	mg/kg dry	6320	3720	115	80-120			
----------	-------	------	-----------	------	------	-----	--------	--	--	--

Matrix Spike Dup (P9E2103-MSD1)

Source: 9E17006-27

Prepared & Analyzed: 05/21/19

Chloride	9090	11.2	mg/kg dry	5620	3550	98.8	80-120	0.778	20	
----------	------	------	-----------	------	------	------	--------	-------	----	--

Matrix Spike Dup (P9E2103-MSD2)

Source: 9E15009-19

Prepared & Analyzed: 05/21/19

Chloride	11100	10.5	mg/kg dry	6320	3720	116	80-120	1.08	20	
----------	-------	------	-----------	------	------	-----	--------	------	----	--

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch P9E2207 - * DEFAULT PREP *****

Blank (P9E2207-BLK1)

Prepared & Analyzed: 05/22/19

Chloride	ND	1.00	mg/kg wet
----------	----	------	-----------

LCS (P9E2207-BS1)

Prepared & Analyzed: 05/22/19

Chloride	402	1.00	mg/kg wet	400	100	80-120
----------	-----	------	-----------	-----	-----	--------

LCS Dup (P9E2207-BSD1)

Prepared & Analyzed: 05/22/19

Chloride	399	1.00	mg/kg wet	400	99.6	80-120	0.847	20
----------	-----	------	-----------	-----	------	--------	-------	----

Calibration Blank (P9E2207-CCB1)

Prepared & Analyzed: 05/22/19

Chloride	0.00		mg/kg wet
----------	------	--	-----------

Calibration Blank (P9E2207-CCB2)

Prepared & Analyzed: 05/22/19

Chloride	0.00		mg/kg wet
----------	------	--	-----------

Calibration Check (P9E2207-CCV1)

Prepared & Analyzed: 05/22/19

Chloride	19.9		mg/kg	20.0	99.4	0-200
----------	------	--	-------	------	------	-------

Calibration Check (P9E2207-CCV2)

Prepared & Analyzed: 05/22/19

Chloride	20.3		mg/kg	20.0	101	0-200
----------	------	--	-------	------	-----	-------

Calibration Check (P9E2207-CCV3)

Prepared & Analyzed: 05/22/19

Chloride	20.2		mg/kg	20.0	101	0-200
----------	------	--	-------	------	-----	-------

Matrix Spike (P9E2207-MS1)

Source: 9E21021-01

Prepared & Analyzed: 05/22/19

Chloride	632	1.00	mg/kg dry	500	103	106	80-120
----------	-----	------	-----------	-----	-----	-----	--------

Matrix Spike (P9E2207-MS2)

Source: 9E22001-01

Prepared & Analyzed: 05/22/19

Chloride	4020	26.3	mg/kg dry	2630	1310	103	80-120
----------	------	------	-----------	------	------	-----	--------

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch P9E2207 - * DEFAULT PREP *****

Matrix Spike Dup (P9E2207-MSD1) **Source: 9E21021-01** Prepared & Analyzed: 05/22/19

Chloride	575	1.00	mg/kg dry	500	103	94.3	80-120	9.48	20
----------	-----	------	-----------	-----	-----	------	--------	------	----

Matrix Spike Dup (P9E2207-MSD2) **Source: 9E22001-01** Prepared & Analyzed: 05/22/19

Chloride	3800	26.3	mg/kg dry	2630	1310	94.6	80-120	5.82	20
----------	------	------	-----------	------	------	------	--------	------	----

Batch P9E2209 - * DEFAULT PREP *****

Blank (P9E2209-BLK1) Prepared & Analyzed: 05/22/19

Chloride	ND	1.00	mg/kg wet
----------	----	------	-----------

LCS (P9E2209-BS1) Prepared & Analyzed: 05/22/19

Chloride	395	1.00	mg/kg wet	400	98.6	80-120
----------	-----	------	-----------	-----	------	--------

LCS Dup (P9E2209-BSD1) Prepared & Analyzed: 05/22/19

Chloride	402	1.00	mg/kg wet	400	101	80-120	1.88	20
----------	-----	------	-----------	-----	-----	--------	------	----

Calibration Blank (P9E2209-CCB1) Prepared & Analyzed: 05/22/19

Chloride	0.00		mg/kg wet
----------	------	--	-----------

Calibration Blank (P9E2209-CCB2) Prepared: 05/22/19 Analyzed: 05/23/19

Chloride	0.00		mg/kg wet
----------	------	--	-----------

Calibration Check (P9E2209-CCV1) Prepared & Analyzed: 05/22/19

Chloride	20.2		mg/kg	20.0	101	0-200
----------	------	--	-------	------	-----	-------

Calibration Check (P9E2209-CCV2) Prepared: 05/22/19 Analyzed: 05/23/19

Chloride	19.6		mg/kg	20.0	97.8	0-200
----------	------	--	-------	------	------	-------

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch P9E2209 - * DEFAULT PREP *****

Calibration Check (P9E2209-CCV3)

Prepared: 05/22/19 Analyzed: 05/23/19

Chloride	20.0		mg/kg	20.0		100	0-200			
----------	------	--	-------	------	--	-----	-------	--	--	--

Matrix Spike (P9E2209-MS1)

Source: 9E15009-34

Prepared: 05/22/19 Analyzed: 05/23/19

Chloride	702	1.23	mg/kg dry	617	144	90.4	80-120			
----------	-----	------	-----------	-----	-----	------	--------	--	--	--

Matrix Spike (P9E2209-MS2)

Source: 9E15009-44

Prepared: 05/22/19 Analyzed: 05/23/19

Chloride	9040	30.5	mg/kg dry	3050	6300	89.8	80-120			
----------	------	------	-----------	------	------	------	--------	--	--	--

Matrix Spike Dup (P9E2209-MSD1)

Source: 9E15009-34

Prepared: 05/22/19 Analyzed: 05/23/19

Chloride	720	1.23	mg/kg dry	617	144	93.4	80-120	2.59	20	
----------	-----	------	-----------	-----	-----	------	--------	------	----	--

Matrix Spike Dup (P9E2209-MSD2)

Source: 9E15009-44

Prepared: 05/22/19 Analyzed: 05/23/19

Chloride	9310	30.5	mg/kg dry	3050	6300	98.5	80-120	2.89	20	
----------	------	------	-----------	------	------	------	--------	------	----	--

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch P9E1601 - TX 1005

Blank (P9E1601-BLK1)

Prepared: 05/15/19 Analyzed: 05/16/19

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	100		"	100		100	70-130			
Surrogate: o-Terphenyl	53.8		"	50.0		108	70-130			

LCS (P9E1601-BS1)

Prepared: 05/15/19 Analyzed: 05/16/19

C6-C12	1050	25.0	mg/kg wet	1000		105	75-125			
>C12-C28	1100	25.0	"	1000		110	75-125			
Surrogate: 1-Chlorooctane	118		"	100		118	70-130			
Surrogate: o-Terphenyl	48.2		"	50.0		96.3	70-130			

LCS Dup (P9E1601-BSD1)

Prepared: 05/15/19 Analyzed: 05/16/19

C6-C12	1030	25.0	mg/kg wet	1000		103	75-125	1.99	20	
>C12-C28	1070	25.0	"	1000		107	75-125	2.03	20	
Surrogate: 1-Chlorooctane	115		"	100		115	70-130			
Surrogate: o-Terphenyl	47.3		"	50.0		94.6	70-130			

Calibration Blank (P9E1601-CCB1)

Prepared: 05/15/19 Analyzed: 05/16/19

C6-C12	6.24		mg/kg wet							
>C12-C28	13.3		"							
Surrogate: 1-Chlorooctane	94.8		"	100		94.8	70-130			
Surrogate: o-Terphenyl	50.9		"	50.0		102	70-130			

Calibration Blank (P9E1601-CCB2)

Prepared: 05/15/19 Analyzed: 05/16/19

C6-C12	9.07		mg/kg wet							
>C12-C28	8.52		"							
Surrogate: 1-Chlorooctane	88.2		"	100		88.2	70-130			
Surrogate: o-Terphenyl	47.5		"	50.0		95.0	70-130			

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch P9E1601 - TX 1005

Calibration Check (P9E1601-CCV1)

Prepared: 05/15/19 Analyzed: 05/16/19

C6-C12	555	25.0	mg/kg wet	500		111	85-115			
>C12-C28	517	25.0	"	500		103	85-115			
Surrogate: 1-Chlorooctane	108		"	100		108	70-130			
Surrogate: o-Terphenyl	48.4		"	50.0		96.8	70-130			

Calibration Check (P9E1601-CCV2)

Prepared: 05/15/19 Analyzed: 05/16/19

C6-C12	532	25.0	mg/kg wet	500		106	85-115			
>C12-C28	546	25.0	"	500		109	85-115			
Surrogate: 1-Chlorooctane	99.3		"	100		99.3	70-130			
Surrogate: o-Terphenyl	45.3		"	50.0		90.6	70-130			

Calibration Check (P9E1601-CCV3)

Prepared: 05/15/19 Analyzed: 05/16/19

C6-C12	547	25.0	mg/kg wet	500		109	85-115			
>C12-C28	517	25.0	"	500		103	85-115			
Surrogate: 1-Chlorooctane	104		"	100		104	70-130			
Surrogate: o-Terphenyl	47.2		"	50.0		94.5	70-130			

Duplicate (P9E1601-DUP1)

Source: 9E15009-04

Prepared: 05/15/19 Analyzed: 05/16/19

C6-C12	ND	35.7	mg/kg dry		ND				20	
>C12-C28	ND	35.7	"		ND				20	
Surrogate: 1-Chlorooctane	117		"	143		81.8	70-130			
Surrogate: o-Terphenyl	64.9		"	71.4		90.8	70-130			

Batch P9E1605 - TX 1005

Blank (P9E1605-BLK1)

Prepared: 05/15/19 Analyzed: 05/16/19

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	126		"	100		126	70-130			
Surrogate: o-Terphenyl	68.3		"	50.0		137	70-130			S-GC

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch P9E1605 - TX 1005

LCS (P9E1605-BS1)

Prepared: 05/15/19 Analyzed: 05/16/19

C6-C12	1060	25.0	mg/kg wet	1000		106	75-125			
>C12-C28	1120	25.0	"	1000		112	75-125			
Surrogate: 1-Chlorooctane	118		"	100		118	70-130			
Surrogate: o-Terphenyl	45.4		"	50.0		90.8	70-130			

LCS Dup (P9E1605-BSD1)

Prepared: 05/15/19 Analyzed: 05/16/19

C6-C12	1050	25.0	mg/kg wet	1000		105	75-125	1.48	20	
>C12-C28	1100	25.0	"	1000		110	75-125	1.49	20	
Surrogate: 1-Chlorooctane	116		"	100		116	70-130			
Surrogate: o-Terphenyl	43.1		"	50.0		86.2	70-130			

Calibration Blank (P9E1605-CCB1)

Prepared: 05/15/19 Analyzed: 05/16/19

C6-C12	10.3		mg/kg wet							
>C12-C28	14.5		"							
Surrogate: 1-Chlorooctane	92.9		"	100		92.9	70-130			
Surrogate: o-Terphenyl	50.4		"	50.0		101	70-130			

Calibration Blank (P9E1605-CCB2)

Prepared: 05/15/19 Analyzed: 05/17/19

C6-C12	9.98		mg/kg wet							
>C12-C28	23.5		"							
Surrogate: 1-Chlorooctane	90.6		"	100		90.6	70-130			
Surrogate: o-Terphenyl	48.4		"	50.0		96.7	70-130			

Calibration Check (P9E1605-CCV1)

Prepared: 05/15/19 Analyzed: 05/16/19

C6-C12	547	25.0	mg/kg wet	500		109	85-115			
>C12-C28	517	25.0	"	500		103	85-115			
Surrogate: 1-Chlorooctane	104		"	100		104	70-130			
Surrogate: o-Terphenyl	47.2		"	50.0		94.5	70-130			

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch P9E1605 - TX 1005

Calibration Check (P9E1605-CCV2)

Prepared: 05/15/19 Analyzed: 05/17/19

C6-C12	550	25.0	mg/kg wet	500		110	85-115			
>C12-C28	517	25.0	"	500		103	85-115			
Surrogate: 1-Chlorooctane	104		"	100		104	70-130			
Surrogate: o-Terphenyl	45.9		"	50.0		91.8	70-130			

Calibration Check (P9E1605-CCV3)

Prepared: 05/15/19 Analyzed: 05/17/19

C6-C12	546	25.0	mg/kg wet	500		109	85-115			
>C12-C28	539	25.0	"	500		108	85-115			
Surrogate: 1-Chlorooctane	105		"	100		105	70-130			
Surrogate: o-Terphenyl	46.2		"	50.0		92.3	70-130			

Duplicate (P9E1605-DUP1)

Source: 9E15009-24

Prepared: 05/15/19 Analyzed: 05/17/19

C6-C12	12.1	26.9	mg/kg dry		11.7			3.26	20	
>C12-C28	ND	26.9	"		19.0				20	
Surrogate: 1-Chlorooctane	87.8		"	108		81.6	70-130			
Surrogate: o-Terphenyl	49.6		"	53.8		92.2	70-130			

Batch P9E1701 - TX 1005

Blank (P9E1701-BLK1)

Prepared & Analyzed: 05/17/19

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	80.3		"	100		80.3	70-130			
Surrogate: o-Terphenyl	43.6		"	50.0		87.1	70-130			

LCS (P9E1701-BS1)

Prepared & Analyzed: 05/17/19

C6-C12	1050	25.0	mg/kg wet	1000		105	75-125			
>C12-C28	1090	25.0	"	1000		109	75-125			
Surrogate: 1-Chlorooctane	116		"	100		116	70-130			
Surrogate: o-Terphenyl	45.8		"	50.0		91.5	70-130			

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch P9E1701 - TX 1005

LCS Dup (P9E1701-BSD1)

Prepared & Analyzed: 05/17/19

C6-C12	1020	25.0	mg/kg wet	1000		102	75-125	3.17	20	
>C12-C28	1050	25.0	"	1000		105	75-125	3.85	20	
Surrogate: 1-Chlorooctane	112		"	100		112	70-130			
Surrogate: o-Terphenyl	48.7		"	50.0		97.4	70-130			

Duplicate (P9E1701-DUP1)

Source: 9E15009-39

Prepared: 05/17/19 Analyzed: 05/18/19

C6-C12	12.9	26.0	mg/kg dry		10.2			23.5	20	
>C12-C28	10.6	26.0	"		ND				20	
Surrogate: 1-Chlorooctane	97.0		"	104		93.1	70-130			
Surrogate: o-Terphenyl	54.8		"	52.1		105	70-130			

Batch P9E1801 - TX 1005

Calibration Blank (P9E1801-CCB2)

Prepared: 05/17/19 Analyzed: 05/18/19

C6-C12	7.15		mg/kg wet							
>C12-C28	8.43		"							
Surrogate: 1-Chlorooctane	94.9		"	100		94.9	70-130			
Surrogate: o-Terphenyl	51.9		"	50.0		104	70-130			

Calibration Check (P9E1801-CCV2)

Prepared: 05/17/19 Analyzed: 05/18/19

C6-C12	547	25.0	mg/kg wet	500		109	85-115			
>C12-C28	556	25.0	"	500		111	85-115			
Surrogate: 1-Chlorooctane	105		"	100		105	70-130			
Surrogate: o-Terphenyl	47.4		"	50.0		94.8	70-130			

Calibration Check (P9E1801-CCV3)

Prepared: 05/17/19 Analyzed: 05/18/19

C6-C12	498	25.0	mg/kg wet	500		99.6	85-115			
>C12-C28	529	25.0	"	500		106	85-115			
Surrogate: 1-Chlorooctane	110		"	100		110	70-130			
Surrogate: o-Terphenyl	49.1		"	50.0		98.3	70-130			

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch P9E1801 - TX 1005

Duplicate (P9E1801-DUP1)

Source: 9E15009-43

Prepared: 05/17/19 Analyzed: 05/18/19

C6-C12	ND	30.1	mg/kg dry		12.2				20	
>C12-C28	11.6	30.1	"		ND				20	
Surrogate: 1-Chlorooctane	100		"	120		83.3	70-130			
Surrogate: o-Terphenyl	56.9		"	60.2		94.5	70-130			

Batch P9E1802 - TX 1005

Blank (P9E1802-BLK1)

Prepared & Analyzed: 05/18/19

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	95.7		"	100		95.7	70-130			
Surrogate: o-Terphenyl	52.2		"	50.0		104	70-130			

LCS (P9E1802-BS1)

Prepared & Analyzed: 05/18/19

C6-C12	1080	25.0	mg/kg wet	1000		108	75-125			
>C12-C28	1070	25.0	"	1000		107	75-125			
Surrogate: 1-Chlorooctane	123		"	100		123	70-130			
Surrogate: o-Terphenyl	46.0		"	50.0		91.9	70-130			

LCS Dup (P9E1802-BSD1)

Prepared & Analyzed: 05/18/19

C6-C12	1190	25.0	mg/kg wet	1000		119	75-125	9.90	20	
>C12-C28	1120	25.0	"	1000		112	75-125	4.78	20	
Surrogate: 1-Chlorooctane	108		"	100		108	70-130			
Surrogate: o-Terphenyl	51.0		"	50.0		102	70-130			

Calibration Blank (P9E1802-CCB1)

Prepared & Analyzed: 05/18/19

C6-C12	10.7		mg/kg wet							
>C12-C28	7.98		"							
Surrogate: 1-Chlorooctane	95.8		"	100		95.8	70-130			
Surrogate: o-Terphenyl	52.2		"	50.0		104	70-130			

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch P9E1802 - TX 1005

Calibration Blank (P9E1802-CCB2)

Prepared & Analyzed: 05/18/19

C6-C12	10.6		mg/kg wet							
>C12-C28	14.8		"							
Surrogate: 1-Chlorooctane	100		"	100		100	70-130			
Surrogate: o-Terphenyl	54.5		"	50.0		109	70-130			

Calibration Check (P9E1802-CCV1)

Prepared & Analyzed: 05/18/19

C6-C12	498	25.0	mg/kg wet	500		99.6	85-115			
>C12-C28	529	25.0	"	500		106	85-115			
Surrogate: 1-Chlorooctane	110		"	100		110	70-130			
Surrogate: o-Terphenyl	49.1		"	50.0		98.3	70-130			

Calibration Check (P9E1802-CCV2)

Prepared & Analyzed: 05/18/19

C6-C12	561	25.0	mg/kg wet	500		112	85-115			
>C12-C28	554	25.0	"	500		111	85-115			
Surrogate: 1-Chlorooctane	115		"	100		115	70-130			
Surrogate: o-Terphenyl	51.5		"	50.0		103	70-130			

Calibration Check (P9E1802-CCV3)

Prepared: 05/18/19 Analyzed: 05/19/19

C6-C12	503	25.0	mg/kg wet	500		101	85-115			
>C12-C28	503	25.0	"	500		101	85-115			
Surrogate: 1-Chlorooctane	97.0		"	100		97.0	70-130			
Surrogate: o-Terphenyl	43.7		"	50.0		87.5	70-130			

Duplicate (P9E1802-DUP1)

Source: 9E16007-01

Prepared: 05/18/19 Analyzed: 05/19/19

C6-C12	ND	29.1	mg/kg dry		13.8				20	
>C12-C28	15.1	29.1	"		17.1			12.6	20	
Surrogate: 1-Chlorooctane	102		"	116		87.5	70-130			
Surrogate: o-Terphenyl	57.5		"	58.1		98.9	70-130			

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Molly State Battery
Project Number: 18-0138-08
Project Manager: Mark Larson

Fax: (432) 687-0456

Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

ROI Received on Ice

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

BULK Samples received in Bulk soil containers

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

9/4/2019

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Larson & Associates, Inc.

Project: Molly State Battery

Fax: (432) 687-0456

P.O. Box 50685

Project Number: 18-0138-08

Midland TX, 79710

Project Manager: Mark Larson

Data Reported to:

DATE: 5/15/2019 PAGE 1 OF 4
PO#: 9E15009
PROJECT LOCATION OR NAME: Molly Stg#
LAB WORK ORDER#: 9E15009
LAI PROJECT #: 18-0138-D8 COLLECTOR: KD

CHAIN-OF-CUSTODY

No 0627

TRRP report?		S=SOIL W=WATER A=AIR		P=PAINT SL=SLUDGE OT=OTHER		TIME ZONE: Time zone/State:		MST		
Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO ₃	H ₂ SO ₄ ☐ NaOH ☐	ICE	UNPRESERVED
DP-3 (0-1')	1	5/9/19	14:15	S	1					
(1-3')	2	5/9/19	14:17							
(3-5')	3	5/9/19	14:19							
(5-6')	4	5/9/19	14:21							
(6-8')	5	5/9/19	14:23							
(8-10')	6	5/9/19	14:25							
DP-5 (0-1')	7	5/9/19	15:48							
(1-3')	8	5/9/19	15:50							
(3-5')	9	5/9/19	15:52							
(5-6')	10	5/9/19	15:56							
(6-8')	11	5/9/19	15:54							
(8-10')	12	5/9/19	15:58							
DP-8 (0-1')	13	5/10/19	13:02							
(1-3')	14	5/10/19	13:04							
(3-5')	15	5/10/19	13:06							
TOTAL	15									

RELINQUISHED BY: (Signature) [Signature] DATE/TIME 5/15/19 10:36 RECEIVED BY: (Signature) [Signature]

RELINQUISHED BY: (Signature) [Signature] DATE/TIME 5/15/19 10:36 RECEIVED BY: (Signature) [Signature]

RELINQUISHED BY: (Signature) [Signature] DATE/TIME 5/15/19 10:36 RECEIVED BY: (Signature) [Signature]

LABORATORY: PHSL

TURN AROUND TIME
NORMAL ☒ 1 DAY ☐
2 DAY ☐
OTHER ☐

LABORATORY USE ONLY:
RECEIVING TEMP: 1.6/2.6 THERM#: L2
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

ANALYSES

BTEX ☒ MTBE ☐ TPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐

GASOLINE MOD 8015 ☒ DIESEL - MOD 8015 ☒ OIL - MOD 8015 ☒

VOC 8260 ☒ SVOC 8270 ☒ PAH 8270 ☒ HOLDPAH ☐

8081 PESTICIDES ☐ 8151 HERBICIDES ☐ TBLP PCBs ☐

TCLP - METALS (RCRA) ☐ TCLP VOC ☐ TOTAL METALS (RCRA) ☐ Semi-VOC ☐

LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐ RCI ☐ TOX ☐ FLASHPOINT ☐

TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ PH ☐ HEXAVALENT CHROMIUM ☐ PECHLORATE ☐

EXPLOSIVES ☐ CHLORIDES ☐ ANIONS ☐ ALKALINITY ☐

FIELD NOTES

sample
unit 1
delimitation
limit is
reached
CL = 600
BTEX = 50
TPH = 2,500

Page 75 of 77

FIELD NOTES

...DOLLS.

LABORATORY USE ONLY: RECEIVING TEMP: 1.6/2.6 THERM# L2
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☐ HAND DELIVERED

PAGE 3 OF
QE 15009

☐ CARRIER BILL # _____

☐ HAND DELIVERED

Data Reported to:

DATE: 5/15/2019 PAGE 4 OF 4
PO#: 9E15009 LAB WORK ORDER#: 9E15009
PROJECT LOCATION OR NAME: Molly State
LAI PROJECT #: 18-0138-08 COLLECTOR: KO

CHAIN-OF-CUSTODY

Nº 0626

TRRP report? ☐ Yes ☒ No		S=SOIL W=WATER A=AIR		P=PAINT SL=SLUDGE OT=OTHER	
TIME ZONE: Time zone/State: MSI					
Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers
DP-19 (5-6)	46	5/14/19	15:03	S	2
(6-8)	47	15:04			
(8-10)	48	15:05			
PRESERVATION					
HCl					
HNO ₃					
H ₂ SO ₄ ☐ NaOH ☐					
ICE					
UNPRESERVED					
ANALYSES					
BTEX ☒ MTBE ☐					
TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐					
GASOLINE MOD 8015 ☒					
DIESEL - MOD 8015 ☒					
OIL - MOD 8015 ☒					
VOC 8260 ☒					
SVOC 8270 ☒					
8081 PESTICIDES ☐					
8082 PCBS ☐					
TBLP - METALS (ROR) ☐					
TCLP - PEST ☐ HERB ☐ Semi-VOC ☐					
TOTAL METALS (RCRA) ☐ OTHER LIST ☐					
LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐					
ROI ☐ TOX ☐ FLASHPOINT ☐					
TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐					
pH ☐ HEXAVALENT CHROMIUM ☐					
EXPLOSIVES ☐ PECTHLORATE ☐					
CHLORIDE ANIONS ☐ ALKALINITY ☐					
FIELD NOTES					
Sample until delineation limit is reached					
Cl = 600					
BTEX = 50					
TPH = 2,500					
TOTAL					
3					
REINQUISHED BY: (Signature) <u>[Signature]</u> DATE/TIME <u>5/15/19 10:36</u> RECEIVED BY: (Signature) <u>[Signature]</u>					
REINQUISHED BY: (Signature) <u>[Signature]</u> DATE/TIME <u>5/15/19 10:36</u> RECEIVED BY: (Signature) <u>[Signature]</u>					
REINQUISHED BY: (Signature) <u>[Signature]</u> DATE/TIME <u>5/15/19 10:36</u> RECEIVED BY: (Signature) <u>[Signature]</u>					
LABORATORY: <u>QBEL</u> TURN AROUND TIME <u>NORMAL</u> ☒ 1 DAY ☐ 2 DAY ☐ OTHER ☐					
LABORATORY USE ONLY: RECEIVING TEMP: <u>16.6</u> THERM: <u>L2</u> CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED ☐ CARRIER BILL # <u> </u> ☐ HAND DELIVERED					

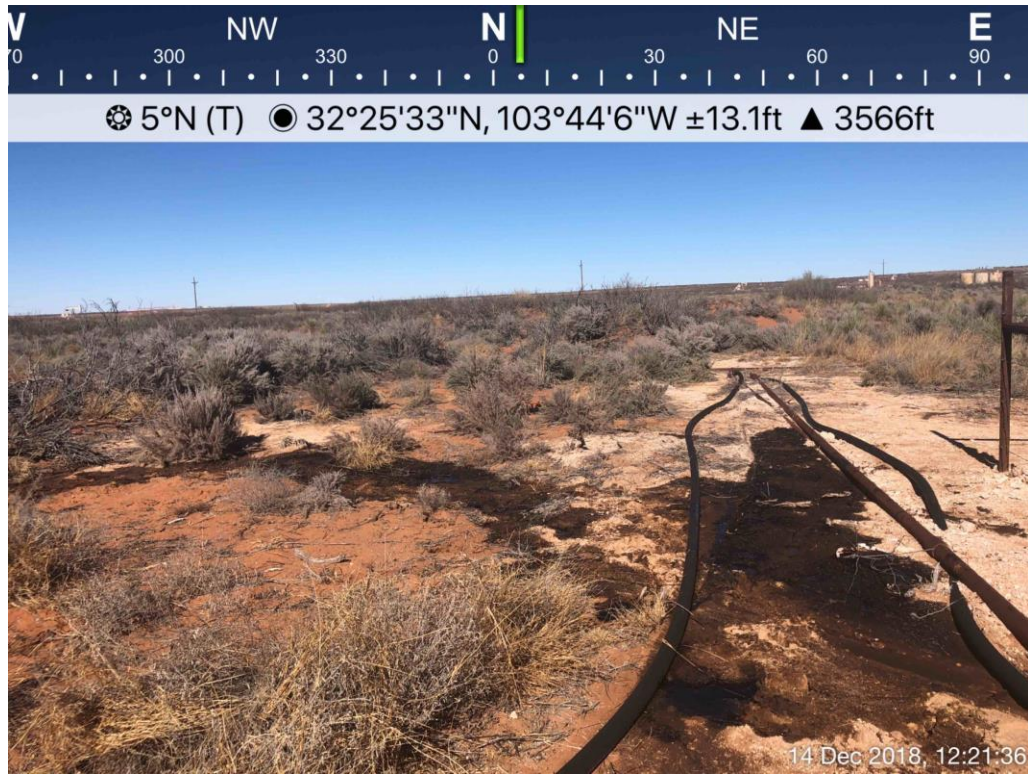
Appendix D
Photographs



Molly State Battery Viewing Southwest, December 14, 2018



Spill Area Viewing Southeast, December 14, 2018



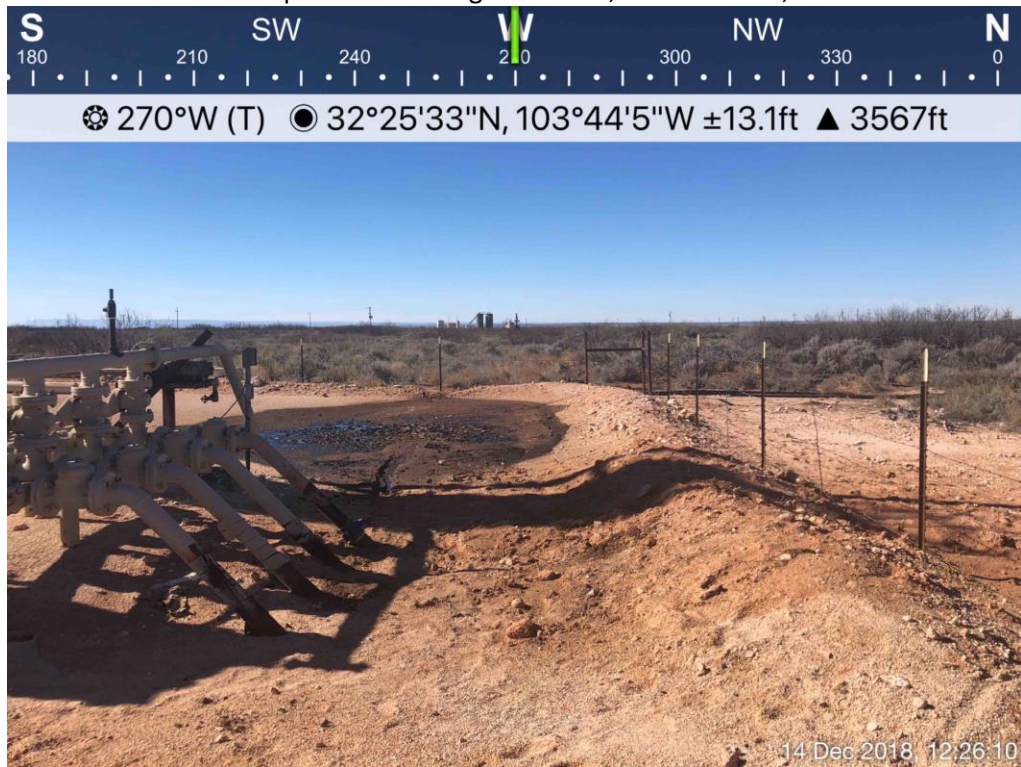
Spill Area Viewing North, December 14, 2018



Spill Area Viewing Southeast, December 14, 2018



Spill Area Viewing Southeast, December 14, 2018



Spill Area Viewing West, December 14, 2018