

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

Form C-141  
Revised August 8, 2011

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

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

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company: Dugan Production Corp	Contact: Neil Haws
Address PO Box 420, Farmington NM 87499-0420	Telephone No. 505-635-3124
Facility Name: Molly Pitcher #1	Facility Type: Gas well
Surface Owner: Federal	Mineral Owner: Federal
API No. 30-045-22084	

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	14	30N	14W	1650	N	990	E	San Juan

Latitude: 36.816966; Longitude: -108.272939

**NATURE OF RELEASE**

Type of Release: Contaminated Soil	Volume of Release: UNK	Volume Recovered: UNK
Source of Release: Cellar of fiberglass BGT	Date and Hour of Occurrence: 12-4-17 0900	Date and Hour of Discovery: 12-19-17
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <b>NMOCD</b>	
By Whom?	Date and Hour: <b>APR 23 2018</b>	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse: None	
If a Watercourse was Impacted, Describe Fully.* NA.	<b>DISTRICT III</b>	

Describe Cause of Problem and Remedial Action Taken.\* On 12-4-17 Dugan Production cleaned out soil from around fiberglass BGT at the Molly Pitcher #1. Removed soil was replaced onto the location. On 12-19-17 OCD inspector found "dark staining on the south side of the location and staining inside the cellar of the Below Grade Tank".

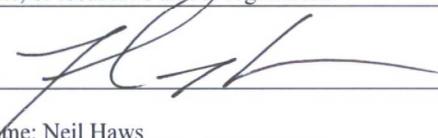
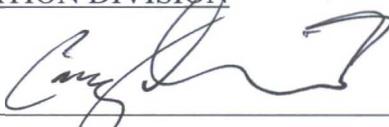
Remedial Action Taken: On 1-18-18 Soil Samples were taken and sent to Cardinal Laboratories, test results revealed contamination in the samples

Describe Area Affected and Cleanup Action Taken.\*

(On location) Stained soil will be removed and taken to an approved land farm, clean soil will be used for replacement as needed

**Final:** Final Cleanup and soil removal was completed on 3/5/18, contaminated soil was taken to Envirotech land farm and approved replacement soil from Envirotech was used to replace soil into the pit. A closure report was submitted to the OCD and the old BGT was removed. A new Steel Single Wall, Double Bottom BGT has been installed to replace the old tank. New BGT has been registered and will follow all of the requirements of 19.15.17 NMAC.

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

Signature: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Neil Haws	Approved by Environmental Specialist: 	
Title: Environmental	Approval Date: 5/3/18	Expiration Date:
E-mail Address: neil.haws@duganproduction.com	Conditions of Approval: _____	Attached <input type="checkbox"/>
Date: 4-18-18	Phone: 505-635-3124	

\* Attach Additional Sheets If Necessary

#NCS 180383 0440

14



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

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January 26, 2018

MIKE SANDOVAL  
DUGAN PRODUCTION  
P. O. BOX 420  
FARMINGTON, NM 87499

RE: MOLLY PITCHER #1

Enclosed are the results of analyses for samples received by the laboratory on 01/23/18 10:00.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, flowing "C" at the beginning.

Celey D. Keene  
Lab Director/Quality Manager

**Analytical Results For:**

 DUGAN PRODUCTION  
 MIKE SANDOVAL  
 P. O. BOX 420  
 FARMINGTON NM, 87499  
 Fax To: (505) 327-4043

 Received: 01/23/2018  
 Reported: 01/26/2018  
 Project Name: MOLLY PITCHER #1  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 01/18/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: MOLLY PITCHER #1 DIRT PILE (H800237-01)**

BTEX 8021B		mg/kg		Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/23/2018	ND	2.05	102	2.00	0.148		
Toluene*	<b>0.177</b>	0.050	01/23/2018	ND	2.10	105	2.00	1.70		
Ethylbenzene*	<b>0.803</b>	0.050	01/23/2018	ND	2.11	106	2.00	1.81		
Total Xylenes*	<b>12.4</b>	0.150	01/23/2018	ND	6.52	109	6.00	1.55		
<b>Total BTEX</b>	<b>13.3</b>	0.300	01/23/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 150 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<b>32.0</b>	16.0	01/24/2018	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS				S-06		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<b>407</b>	50.0	01/24/2018	ND	209	104	200	1.31		
DRO >C10-C28*	<b>32700</b>	50.0	01/24/2018	ND	228	114	200	2.89		
EXT DRO >C28-C36	<b>6180</b>	50.0	01/24/2018	ND						

Surrogate: 1-Chlorooctane 291 % 41-142

Surrogate: 1-Chlorooctadecane 1480 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DUGAN PRODUCTION  
 MIKE SANDOVAL  
 P. O. BOX 420  
 FARMINGTON NM, 87499  
 Fax To: (505) 327-4043

 Received: 01/23/2018  
 Reported: 01/26/2018  
 Project Name: MOLLY PITCHER #1  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 01/18/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: MOLLY PITCHER #1 SEP- PIT (H800237-02)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2018	ND	2.05	102	2.00	0.148	
Toluene*	<0.050	0.050	01/23/2018	ND	2.10	105	2.00	1.70	
Ethylbenzene*	<b>0.221</b>	0.050	01/23/2018	ND	2.11	106	2.00	1.81	
<b>Total Xylenes*</b>	<b>3.36</b>	0.150	01/23/2018	ND	6.52	109	6.00	1.55	
<b>Total BTEX</b>	<b>3.58</b>	0.300	01/23/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 132 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>16.0</b>	16.0	01/24/2018	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>131</b>	50.0	01/24/2018	ND	209	104	200	1.31		
<b>DRO &gt;C10-C28*</b>	<b>7300</b>	50.0	01/24/2018	ND	228	114	200	2.89		
<b>EXT DRO &gt;C28-C36</b>	<b>1560</b>	50.0	01/24/2018	ND						

Surrogate: 1-Chlorooctane 119 % 41-142

Surrogate: 1-Chlorooctadecane 389 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

(970) 247-4220  
Fax: (970) 247-4227

service@greenanalytical.com or dzufelt@greenanalytical.com  
75 Suttle St Durango, CO 81303

Company Name (If Applicable): <i>Dugan Production</i>			Bill to (if different):			<b>ANALYSIS REQUEST</b>													
Contact Person: <i>Michael Sandoval</i>			P.O. #:			XX	Betex-cl-TPH-Benz												
Address:			Company:																
City:		State:	Zip:		Attn:														
Phone #:			Address:																
Email:			City:																
Project Name (optional): <i>Molly Pitcher #1</i>			State:		Zip:														
Project Number (optional):			Phone #:																
Sampler Name (Print): <i>Michael Sandoval</i>			Email:																
For Lab Use	Sample Name or Location	Collected		Matrix (check one)									# of containers						
		Date	Time	GROUNDWATER	SURFACEWATER								WASTEWATER	PRODUCEDWATER	SOIL	DRINKING WATER	OTHER	No preservation (general)	HNO <sub>3</sub>
<i>H800237</i>	<i>1 Molly Pitcher #1 Dirt file</i>	<i>1-18-18</i>	<i>9:20</i>																
	<i>2 Molly Pitcher #1 sep-pit</i>	<i>1-18-18</i>	<i>9:15</i>																

PLEASE NOTE: GAL's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by GAL within 30 days after completion. In no event shall GAL be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by GAL, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <i>[Signature]</i>	Date: <i>1-18-18</i>	Received By: <i>Christin Clark</i>	Time: <i>10:10</i>	ADDITIONAL REMARKS:	Report to State? (Circle) Yes    No
Relinquished By: <i>Christin Clark</i>	Date: <i>1/22/18</i>	Received By: <i>Fed Ex</i>	Time: <i>10:00</i>		
Relinquished By:	Date: <i>1-23-18</i>	Received By: <i>Jamara [Signature]</i>	Time: <i>10:00</i>		
Delivered By: (Circle One) <i>UPS</i>	Temperature at receipt: <i>4.7c</i>	Temperature at receipt: <i>5.8c #75 on 1/24</i>	CHECKED BY: <i>W.T.</i>		

† GAL cannot always accept verbal changes. Please fax or email written change requests.  
\* Chain of Custody must be signed in "Relinquished By:" as an acceptance of services and all applicable charges.

February 26, 2018

MIKE SANDOVAL  
DUGAN PRODUCTION  
P. O. BOX 420  
FARMINGTON, NM 87499

RE: MOLLY PITCHER #1

Enclosed are the results of analyses for samples received by the laboratory on 02/20/18 9:35.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene  
Lab Director/Quality Manager

**Analytical Results For:**

 DUGAN PRODUCTION  
 MIKE SANDOVAL  
 P. O. BOX 420  
 FARMINGTON NM, 87499  
 Fax To: (505) 327-4043

 Received: 02/20/2018  
 Reported: 02/26/2018  
 Project Name: MOLLY PITCHER #1  
 Project Number: PIT  
 Project Location: NOT GIVEN

 Sampling Date: 02/19/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: MOLLY PITCHER #1 - 1 (H800509-01)**

BTEX 8021B		mg/L		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/21/2018	ND	2.23	112	2.00	15.4		
Toluene*	<0.050	0.050	02/21/2018	ND	2.21	110	2.00	16.2		
Ethylbenzene*	<0.050	0.050	02/21/2018	ND	2.15	107	2.00	13.7		
Total Xylenes*	<0.150	0.150	02/21/2018	ND	6.56	109	6.00	13.4		
Total BTEX	<0.300	0.300	02/21/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 81.3-128

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/20/2018	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/21/2018	ND	195	97.4	200	8.53		
DRO >C10-C28*	<10.0	10.0	02/21/2018	ND	205	103	200	3.16		
EXT DRO >C28-C36	<10.0	10.0	02/21/2018	ND						

Surrogate: 1-Chlorooctane 94.6 % 41-142

Surrogate: 1-Chlorooctadecane 93.6 % 37.6-147

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DUGAN PRODUCTION  
 MIKE SANDOVAL  
 P. O. BOX 420  
 FARMINGTON NM, 87499  
 Fax To: (505) 327-4043

 Received: 02/20/2018  
 Reported: 02/26/2018  
 Project Name: MOLLY PITCHER #1  
 Project Number: PIT  
 Project Location: NOT GIVEN

 Sampling Date: 02/19/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: MOLLY PITCHER #1 - 2 (H800509-02)**

BTEX 8021B		mg/L		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/21/2018	ND	2.23	112	2.00	15.4		
Toluene*	<0.050	0.050	02/21/2018	ND	2.21	110	2.00	16.2		
Ethylbenzene*	<0.050	0.050	02/21/2018	ND	2.15	107	2.00	13.7		
Total Xylenes*	<0.150	0.150	02/21/2018	ND	6.56	109	6.00	13.4		
Total BTEX	<0.300	0.300	02/21/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 81.3-128

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/20/2018	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/21/2018	ND	195	97.4	200	8.53		
DRO >C10-C28*	<10.0	10.0	02/21/2018	ND	205	103	200	3.16		
EXT DRO >C28-C36	<10.0	10.0	02/21/2018	ND						

Surrogate: 1-Chlorooctane 92.9 % 41-142

Surrogate: 1-Chlorooctadecane 92.4 % 37.6-147

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DUGAN PRODUCTION  
 MIKE SANDOVAL  
 P. O. BOX 420  
 FARMINGTON NM, 87499  
 Fax To: (505) 327-4043

 Received: 02/20/2018  
 Reported: 02/26/2018  
 Project Name: MOLLY PITCHER #1  
 Project Number: PIT  
 Project Location: NOT GIVEN

 Sampling Date: 02/19/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: MOLLY PITCHER #1 - 3 (H800509-03)**

BTEX 8021B		mg/L		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/21/2018	ND	2.23	112	2.00	15.4		
Toluene*	<0.050	0.050	02/21/2018	ND	2.21	110	2.00	16.2		
Ethylbenzene*	<0.050	0.050	02/21/2018	ND	2.15	107	2.00	13.7		
Total Xylenes*	<0.150	0.150	02/21/2018	ND	6.56	109	6.00	13.4		
Total BTEX	<0.300	0.300	02/21/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 81.3-128

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	02/20/2018	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/21/2018	ND	195	97.4	200	8.53		
DRO >C10-C28*	<10.0	10.0	02/21/2018	ND	205	103	200	3.16		
EXT DRO >C28-C36	<10.0	10.0	02/21/2018	ND						

Surrogate: 1-Chlorooctane 92.2 % 41-142

Surrogate: 1-Chlorooctadecane 95.2 % 37.6-147

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DUGAN PRODUCTION  
 MIKE SANDOVAL  
 P. O. BOX 420  
 FARMINGTON NM, 87499  
 Fax To: (505) 327-4043

 Received: 02/20/2018  
 Reported: 02/26/2018  
 Project Name: MOLLY PITCHER #1  
 Project Number: PIT  
 Project Location: NOT GIVEN

 Sampling Date: 02/19/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: MOLLY PITCHER #1 - 4 (H800509-04)**

BTEX 8021B		mg/L		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/21/2018	ND	2.23	112	2.00	15.4		
Toluene*	<0.050	0.050	02/21/2018	ND	2.21	110	2.00	16.2		
Ethylbenzene*	<0.050	0.050	02/21/2018	ND	2.15	107	2.00	13.7		
Total Xylenes*	<0.150	0.150	02/21/2018	ND	6.56	109	6.00	13.4		
Total BTEX	<0.300	0.300	02/21/2018	ND						

Surrogate: 4-Bromofluorobenzene (PII) 107 % 81.3-128

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/20/2018	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/21/2018	ND	195	97.4	200	8.53		
DRO >C10-C28*	123	10.0	02/21/2018	ND	205	103	200	3.16		
EXT DRO >C28-C36	21.2	10.0	02/21/2018	ND						

Surrogate: 1-Chlorooctane 97.6 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DUGAN PRODUCTION  
 MIKE SANDOVAL  
 P. O. BOX 420  
 FARMINGTON NM, 87499  
 Fax To: (505) 327-4043

 Received: 02/20/2018  
 Reported: 02/26/2018  
 Project Name: MOLLY PITCHER #1  
 Project Number: PIT  
 Project Location: NOT GIVEN

 Sampling Date: 02/19/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: MOLLY PITCHER #1 - B (H800509-05)**

BTEX 8021B		mg/L		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/21/2018	ND	2.23	112	2.00	15.4		
Toluene*	<0.050	0.050	02/21/2018	ND	2.21	110	2.00	16.2		
Ethylbenzene*	<0.050	0.050	02/21/2018	ND	2.15	107	2.00	13.7		
Total Xylenes*	<0.150	0.150	02/21/2018	ND	6.56	109	6.00	13.4		
Total BTEX	<0.300	0.300	02/21/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 81.3-128

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/20/2018	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/21/2018	ND	195	97.4	200	8.53		
<b>DRO &gt;C10-C28*</b>	<b>92.2</b>	10.0	02/21/2018	ND	205	103	200	3.16		
<b>EXT DRO &gt;C28-C36</b>	<b>11.7</b>	10.0	02/21/2018	ND						

Surrogate: 1-Chlorooctane 99.9 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

(970) 247-4220 service@greenanalytical.com or dzufelt@greenanalytical.com  
 Fax: (970) 247-4227 75 Suttle St Durango, CO 81303

Company Name(if Applicable): <i>Dugan Production</i>		Bill to (if different):	
Contact Person: <i>Mike Sandard</i>		P.O. #:	
Address:		Company:	
City:	State:	Zip:	Attn:
Phone #:		Address:	
Email:		City:	
Project Name(optional): <i>Molly Pitches #1</i>		State:	Zip:
Project Number(optional): <i>pit</i>		Phone #:	
Sampler Name (Print):		Email:	

**ANALYSIS REQUEST**

For Lab Use	Sample Name or Location	Collected		Matrix (check one)							# of containers					
		Date	Time	GROUNDWATER	SURFACEWATER	WASTEWATER	PRODUCEDWATER	SOIL	DRINKING WATER	OTHER:	No preservation (general)	HNO <sub>3</sub>	HCl	H <sub>2</sub> SO <sub>4</sub>	Other:	
<i>H800509</i>	<i>Molly Pitches #1</i>	<i>2-19-18</i>	<i>11:45</i>													
	<i>Molly Pitches #1</i>	<i>2-19-18</i>	<i>11:50</i>													
	<i>Molly Pitches #1</i>	<i>2-19-18</i>	<i>11:55</i>													
	<i>Molly Pitches #1</i>	<i>2-19-18</i>	<i>12:00</i>													
	<i>Molly Pitches #1-R</i>	<i>2-19-18</i>	<i>11:40</i>													

*XXXXXX Beter-CL-TPH-Beoz*

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Relinquished By: <i>[Signature]</i>	Date: <i>2-19-18</i>	Received By: <i>[Signature]</i>	ADDITIONAL REMARKS:	Report to State? (Circle) Yes No
Relinquished By: <i>[Signature]</i>	Date: <i>2/19/18</i>	Received By: <i>Fed Ex</i>		
Relinquished By:	Date: <i>2-20-18</i>	Received By:		
Delivered By: (Circle One) <i>2.6c</i>	Temperature at receipt: <i>10.9 C #25</i>	CHECKED BY: <i>[Signature]</i>		
Sampler - UPS <input checked="" type="radio"/> FedEx <input type="radio"/> Kangaroo - Other: <i>Corrected 2.85c</i>				

† GAL cannot always accept verbal changes. Please fax or email written change requests.  
 \* Chain of Custody must be signed in "Relinquished By:" as an acceptance of services and all applicable charges.