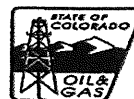


State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303) 894-2100 Fax 894-2109



FOR OGCC USE ONLY

SITE INVESTIGATION AND REMEDIATION WORKPLAN

This form shall be submitted to the Director for approval prior to the initiation of site investigation and remediation activities. Form 27 is intended to be used whenever possible. Additional documentation will be required when large volumes of soil and groundwater have been impacted or involve large facilities with multiple source areas. See Rule 910. Attach as many pages as needed to fully describe the proposed work.

CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

☒ Spill or Release ☐ Plug & Abandon ☐ Central Facility Closure ☐ Site/Facility Closure ☐ Other (describe): _____

OGCC Employee:

☐ Spill ☐ Complaint
☐ Inspection ☐ NOAV

Tracking No:

GENERAL INFORMATION

OGCC Operator Number: 47121		Contact Name and Telephone	
Name of Operator: <u>Kerr McGee Gathering LLC</u>		<u>Charles Chase</u>	
Address: <u>PO Box 173779</u>		No: <u>970-336-3500</u>	
City: <u>Denver</u> State: <u>CO</u> Zip: <u>80217-3779</u>		Fax: <u>970-336-3656</u>	
API/Facility No: <u>120082</u>		County: <u>Arapahoe</u>	
Facility Name: <u>Mitchell Compressor Station</u>		Facility Number: _____	
Well Name: _____		Well Number: _____	
Location (QtrQtr, Sec, Twp, Rng, Meridian): <u>NENE S32 4S 63W</u>		Latitude: <u>39.665046</u> Longitude: <u>-104.454203</u>	

TECHNICAL CONDITIONS

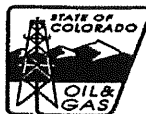
Type of Waste Causing Impact (crude oil, condensate, produced water, etc.): <u>Condensate</u>	
Site Conditions: Is location within a sensitive area (according to Rule 901e)? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N If yes, attach evaluation.	
Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): <u>Crop land</u>	
Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: <u>Silty sand to clay overlying claystone.</u>	
Potential receptors (water wells within 1/4 mi, surface waters, etc.): <u>No surface water is located within 1/4-mile of the site.</u>	
<u>The nearest water well is located 400 feet north of the site.</u>	
Description of Impact (if previously provided, refer to that form or document):	
Impacted Media (check):	Extent of Impact:
<input checked="" type="checkbox"/> Soils	<u>See attached data.</u>
<input type="checkbox"/> Vegetation	_____
<input checked="" type="checkbox"/> Groundwater	<u>See attached data.</u>
<input type="checkbox"/> Surface water	_____
How Determined:	
<u>Excavation, soil sampling, and laboratory analysis.</u>	
<u>Groundwater sampling and laboratory analysis.</u>	

REMEDIATION WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document): <p>In June 2016, an operator discovered a release from a condensate dump line during routine operations at the Mitchell Compressor Station. The volume of the released material is unknown. The cause of the release was internal pipeline corrosion. The affected pipeline was repaired and returned to service. Excavation and subsurface assessment activities were initiated to establish the extent of the release. Impacted soil remains in place adjacent to the repaired equipment. This impacted material is inaccessible due to existing piping necessary for compressor operations. An initial Form 19 was submitted to the COGCC on June 17, 2016 (Document # 401063425) and a Supplemental Form 19 was submitted to the COGCC on June 24, 2016 (Document # 401067583). The COGCC has issued Spill Tracking # 446222 for this release.</p>
Describe how source is to be removed: <p>On June 13, 2016, excavation activities commenced and approximately 170 cubic yards of impacted material were excavated and transported to the Republic Services Landfill in Commerce City, Colorado for disposal. Excavation activities were completed in two areas (north and south) along the buried pipelines in the facility. Excavations were advanced to remove visually impacted materials prior to backfilling. Soil samples were subsequently collected via hand auger at hydro-vacuumed locations positioned along the former sidewalls and base of the final extent of the two excavation areas at approximately 6 feet and 8 feet below ground surface (bgs), respectively. An additional soil sample (BH01-16@9.5-10.5') was collected from a hand augered soil boring adjacent to the release area. Soil samples were submitted to Origins Laboratory in Denver, Colorado for analysis of benzene, toluene, ethylbenzene, total xylenes (BTEX), total petroleum hydrocarbons (TPH) - gasoline range organics (GRO) by USEPA Method 8260, TPH - diesel range organics and oil range organics (DRO and ORO) by USEPA Method 8015, and total oil and grease (HEM) by USEPA Method 9071B. Soil samples were screened for the presence of HEM due to the proximity of the release area to the compressor building, where there is an increased potential to encounter soil impacted with used engine oil. Laboratory results indicated that constituent concentrations in soil samples collected from the final extent of the southern excavation area were below applicable COGCC Table 910-1 standards. The results indicated that constituent concentrations in the soil samples collected from the final extent of the northern excavation area and sample BH01-16@9.5-10.5' were above applicable COGCC Table 910-1 standards for benzene, toluene and TPH. Groundwater was not encountered in either excavation area or the BH01-16 soil boring. From June 20 to July 1, 2016, eight (8) additional soil borings (BH02-16 through BH09-16) were advanced at the site to further assess soil and potential groundwater impacts. Soil borings were advanced to depths ranging from 36 to 45 feet bgs. Soil samples were collected from each boring and submitted to Origins Laboratory in Denver, Colorado for analysis of BTEX, TPH - GRO by USEPA Method 8260, TPH - DRO and ORO by USEPA Method 8015, and HEM by USEPA Method 9071B. Laboratory results indicated that constituent concentrations in soil samples collected from all locations, with the exception of BH07-16, were above applicable COGCC Table 910-1 standards for benzene and TPH. Soil analytical results are summarized in Table 1, and soil sample locations are illustrated on Figures 1 and 2. Laboratory analytical reports are included as Attachment A and boring logs are included as Attachment B.</p>
Describe how remediation of existing impacts is to be accomplished , including removal and disposal at an injection well or licensed facility, land treatment on site, removal of impacted groundwater, insitu bioremediation, burning of oily vegetation, etc.: <p>Impacted soil was excavated and transported to the Republic Services Landfill in Commerce City, Colorado. Remaining impacted soil will be addressed through future insitu or ex-situ remediation technologies. Proposed groundwater assessment and remediation measures are described on the following page.</p>

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado
(303) 894-2100 Fax 894-2109



Page 2

REMEDIATION WORKPLAN (CONT.)

OGCC Employee: _____

Tracking Number: _____
Name of Operator: _____
OGCC Operator No: _____
Received Date: _____
Well Name & No: _____
Facility Name & No.: _____

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):

Between June 20 and July 1, 2016, eight (8) temporary groundwater monitoring wells (BH02-16 - BH09-16) were installed in the previously advanced investigative soil borings to assess potential groundwater impacts. On July 5, 2016, a groundwater gauging event was conducted at the 8 temporary groundwater monitoring wells. Results of the gauging activities indicated the presence of light non-aqueous phase liquid (LNAPL) at four locations (BH03-16 - BH06-16.) The source of the LNAPL, including potential third-party sources, is being investigated. The 8 wells will be gauged for depth to LNAPL and depth to groundwater on a regular basis. If present, LNAPL will be removed and the total volume removed tracked. On August 8, 2016, groundwater samples were collected from the three (3) temporary monitoring wells (BH07-16 - BH09-16) that did not exhibit LNAPL. Temporary groundwater monitoring wells not exhibiting LNAPL will be sampled on a quarterly basis, and submitted for laboratory analysis of BTEX until concentrations remain below COGCC groundwater standards for four consecutive quarters. Additional borings and temporary groundwater monitoring wells may be required to further assess the extent of impacted soil and groundwater at the site. Groundwater analytical data is presented in Table 2. Temporary monitoring well locations are illustrated on Figure 3 and a groundwater elevation contour map is presented on Figure 4. Temporary monitoring well completion logs/boring logs are included as Attachment B.

Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeding program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing. Use additional sheet for description if required.

The excavations have been backfilled with clean soil and graded to match the adjacent topography. The line was replaced and Kerr-McGee's compressor station remains operational. Reclamation activities will commence upon completion of decommissioning activities at the site once the facility is no longer needed for natural gas compression activities. All reclamation will be completed in accordance with the COGCC 1000 Series Rules.

Attach samples and analytical results taken to verify remediation of impacts. Show locations of samples on an onsite schematic or drawing.

Is further site investigation required? ☒ Y ☐ N If yes, describe:

Data indicate that impacted soil remains at the site. Eight temporary monitoring wells were installed to further assess groundwater impacts. Following a review of groundwater analytical data and flow direction, additional point-of-compliance wells may be installed, if necessary. Soil and groundwater analytical results are summarized in Tables 1 and 2, respectively. Soil and groundwater sample locations are presented on Figures 1, 2 and 3. Groundwater elevations and contours are presented on Figure 4. Laboratory analytical reports are included as Attachment A and temporary monitoring well completion logs are included as Attachment B.

Final disposition of E&P waste (land treated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.):

Impacted soil was transported to the Republic Services Landfill in Commerce City, Colorado for disposal.

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: 6/13/2016	Date Site Investigation Completed: TBD	Remediation Plan Submitted: _____
Remediation Start Date: 6/13/2016	Anticipated Completion Date: 8/15/2018	Actual Completion Date: _____

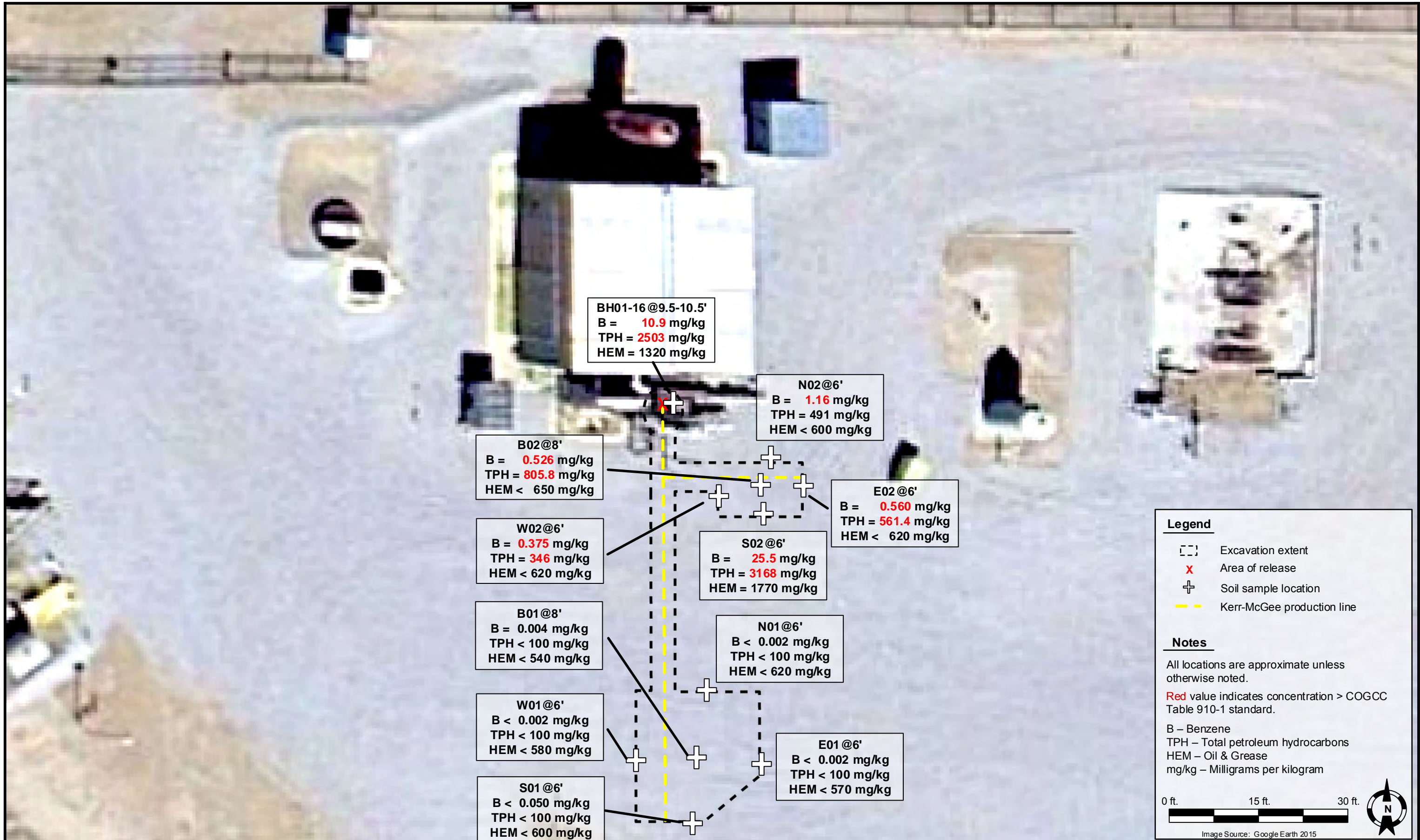
I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

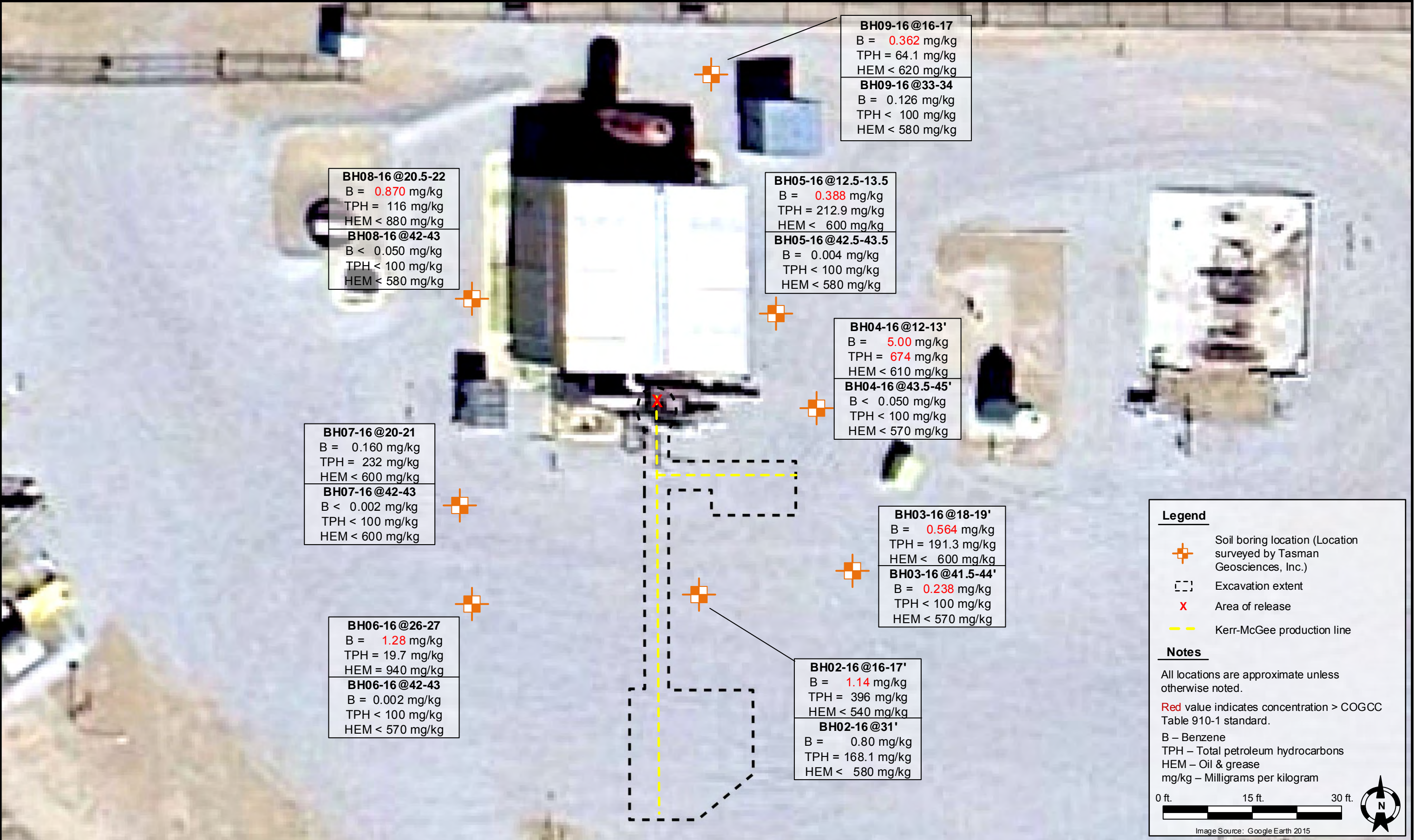
Print Name: Charles Chase

Signed: Charles Chase Title: Senior HSE Representative Date: 8/29/16

OGCC Approved: _____ Title: _____ Date: _____

FIGURES





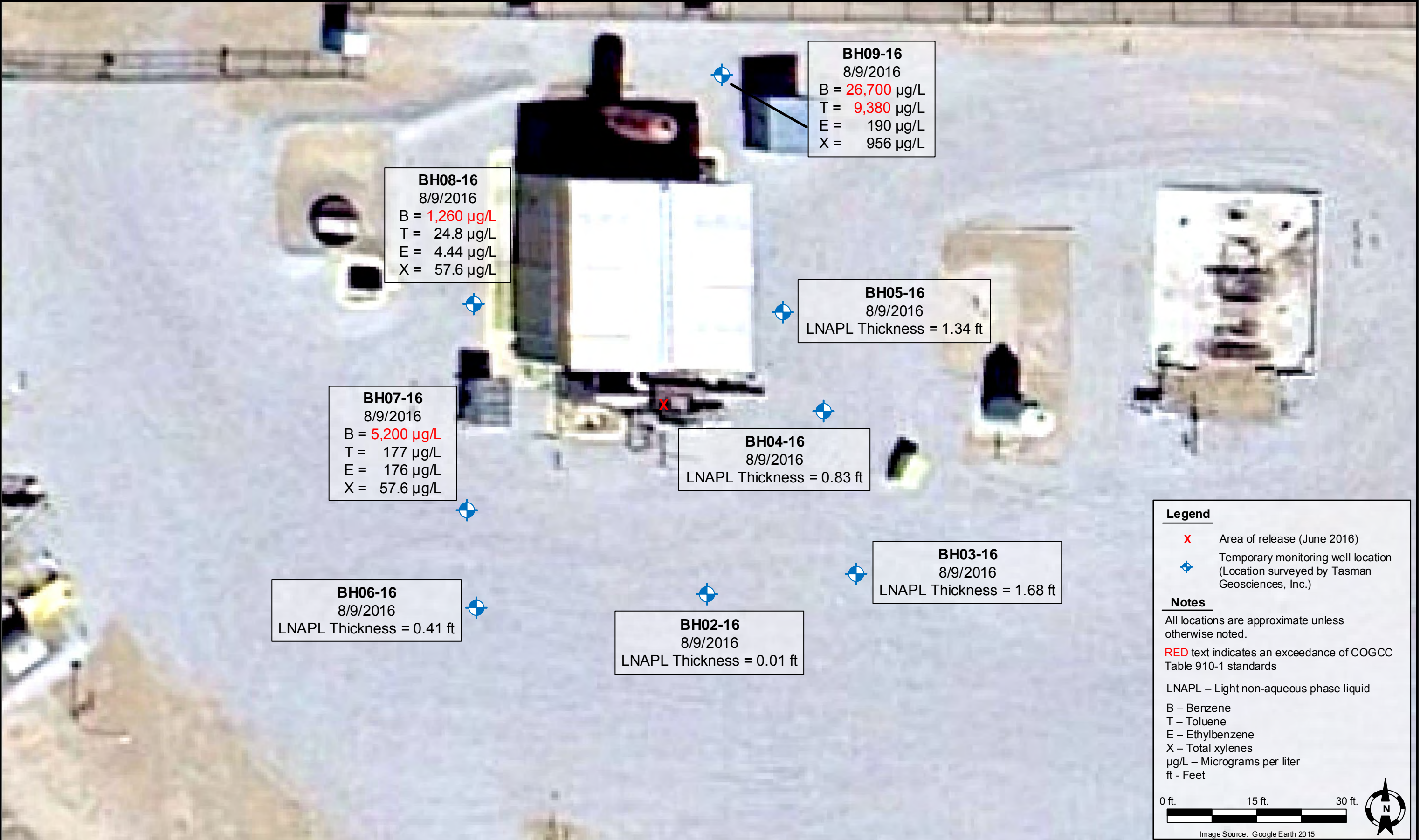
DATE:	August 18, 2016
DESIGNED BY:	Z. Mahaffey
DRAWN BY:	Z. Mahaffey



Kerr-McGee Gathering LLC
Mitchell Compressor Station
NENE, Section 32, Township 4 South, Range 63 West
Arapahoe County, Colorado

Soil Boring Analytical
Results Map

FIGURE
2



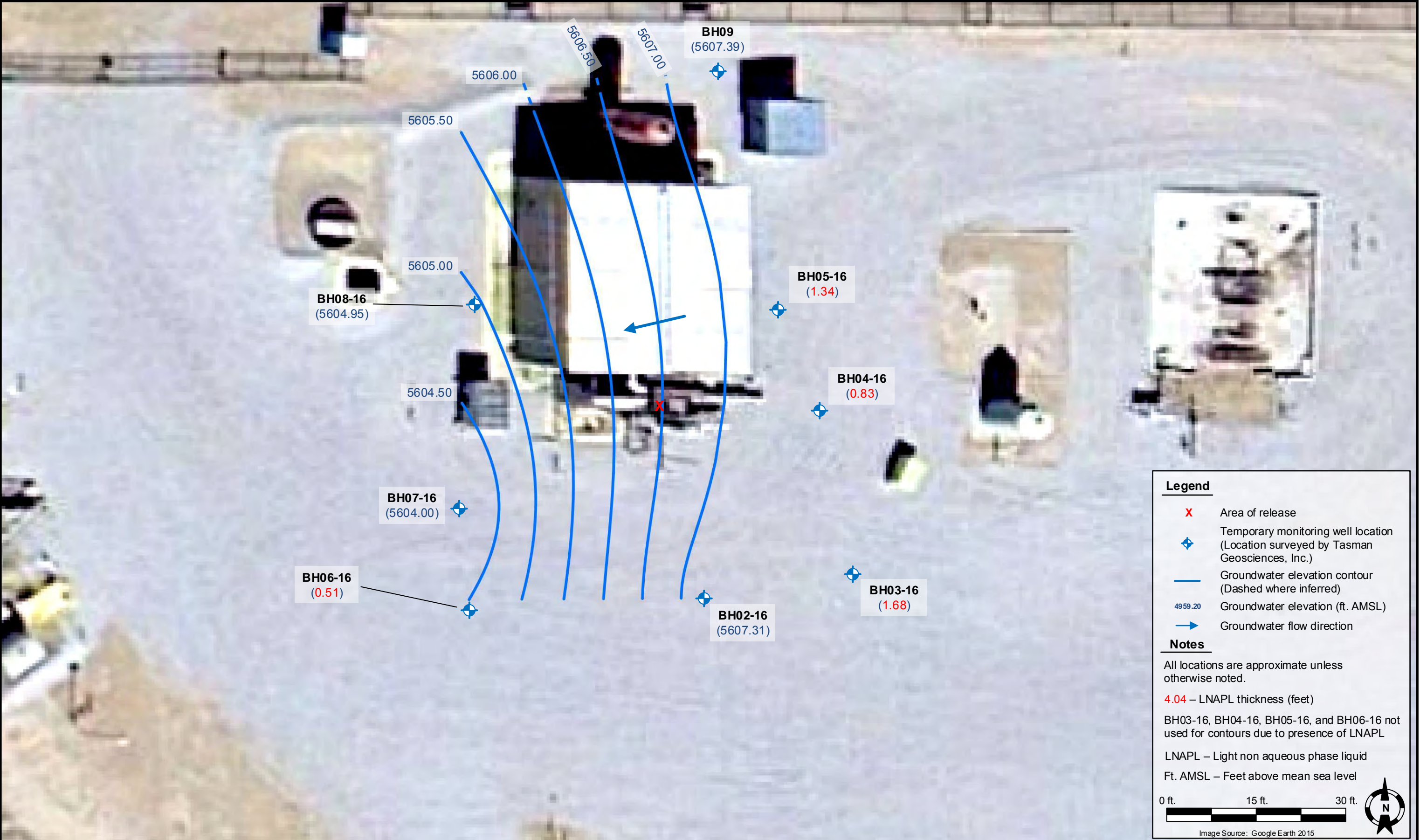
DATE:	August 18, 2016
DESIGNED BY:	Z. Mahaffey
DRAWN BY:	Z. Mahaffey



Kerr-McGee Gathering LLC
Mitchell Compressor Station
NENE, Section 32, Township 4 South, Range 63 West
Arapahoe County, Colorado

Groundwater Analytical
Results Map

FIGURE
3



DATE:	August 15, 2016
DESIGNED BY:	Z. Mahaffey
DRAWN BY:	Z. Mahaffey



Kerr-McGee Gathering LLC
Mitchell Compressor Station
NENE, Section 32, Township 4 South, Range 63 West
Arapahoe County, Colorado

Groundwater Elevation
Contour Map
(8/9/2016)

FIGURE
4

ANALYTICAL TABLES

TABLE 1
MITCHELL COMPRESSOR STATION
SOIL SAMPLE RESULTS SUMMARY TABLE
KERR-McGEE GATHERING LLC

Sample ID	Date Sampled	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TVPH - GRO (mg/kg)	TEPH - DRO (mg/kg)	TEPH - ORO (mg/kg)	Total Oil&Grease (HEM) (mg/kg)
COGCC standards for soil (mg/kg) ⁽¹⁾			0.17	85	100	175	500			-
B01@8'	6/13/2016	8	0.004	<0.002	<0.002	<0.002	<0.200	<25.0	<100	<540
B02@8'	6/13/2016	8	0.526	2.09	1.44	6.13	263	63.8	479	<650
E01@6'	6/13/2016	6	<0.002	<0.002	<0.002	<0.002	<0.200	<25.0	<100	<570
E02@6'	6/13/2016	6	0.560	6.08	1.88	6.60	430	26.4	105	<620
N01@6'	6/13/2016	6	<0.002	<0.002	<0.002	<0.002	<0.200	<25.0	<100	<620
N02@6'	6/13/2016	6	1.16	10.4	7.26	23.5	491	<25.0	<100	<600
S01@6'	6/13/2016	6	<0.050	<0.050	<0.050	<0.050	<5.00	<25.0	<100	<600
S02@6'	6/13/2016	6	25.5	194	21.6	60.4	1,890	218	1,060	1,770
W01@6'	6/13/2016	6	<0.002	<0.002	<0.002	<0.002	<0.200	<25.0	<100	<580
W02@6'	6/13/2016	6	0.375	2.67	2.57	11.4	346	<25.0	<100	<620
BH01-16@9.5-10.5'	6/13/2016	10.5	10.9	48.1	15.6	43.9	1,420	145	938	1,320
BH02-16@16-17'	6/20/2016	16 - 17	1.14	6.41	0.691	5.24	260	<25.0	136	<540
BH02-16@31'	6/20/2016	31	0.080	0.315	0.166	0.58	59.1	<25.0	109	<580
BH03-16 @ 18-19'	6/27/2016	18 - 19	0.564	0.887	0.135	0.617	39.3	<25.0	152	<600
BH03-16 @ 41.5-44'	6/27/2016	41.5 - 44	0.238	0.270	<0.050	0.075	<5.00	<25.0	<100	<570
BH04-16 @ 12-13'	6/27/2016	12 - 13	5.00	11.7	4.20	12.2	455	<25.0	219	<610
BH04-16 @ 43.5-45'	6/27/2016	43.5 - 45	<0.050	<0.050	<0.050	<0.050	<5.00	<25.0	<100	<570
BH05-16 @ 12.5-13.5'	6/30/2016	12.5 - 13.5	0.388	0.450	0.108	0.662	55.9	<25.0	157	<600
BH05-16 @ 42.5-43.5'	6/30/2016	42.5 - 43.5	0.004	0.004	<0.002	<0.002	<0.200	<25.0	<100	<580
BH06-16 @ 26-27'	6/30/2016	26 - 27	1.28	2.60	<0.050	0.376	19.7	<50.0	<200	940
BH06-16 @ 42-43'	6/30/2016	42 - 43	0.002	<0.002	<0.002	<0.002	<0.200	<25.0	<100	<570

TABLE 1
MITCHELL COMPRESSOR STATION
SOIL SAMPLE RESULTS SUMMARY TABLE
KERR-McGEE GATHERING LLC

Sample ID	Date Sampled	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TVPH - GRO (mg/kg)	TEPH - DRO (mg/kg)	TEPH - ORO (mg/kg)	Total Oil&Grease (HEM) (mg/kg)
COGCC standards for soil (mg/kg) ⁽¹⁾			0.17	85	100	175	500			-
BH07-16 @ 20-21'	6/30/2016	20 - 21	0.160	0.490	0.052	0.130	232	<25.0	<100	<600
BH07-16 @ 42-43'	6/30/2016	42 - 43	<0.002	<0.002	<0.002	<0.002	<0.200	<25.0	<100	<600
BH08-16 @ 20.5-22'	7/1/2016	20.5 - 22	0.870	0.242	<0.050	1.38	116	<25.0	<100	<880
BH08-16 @ 42-43'	7/1/2016	42 - 43	<0.050	<0.050	<0.050	<0.050	<5.00	<25.0	<100	<580
BH09-16 @ 16-17'	7/1/2016	16 - 17	0.362	<0.050	<0.050	<0.050	64.1	<25.0	<100	<620
BH09-16 @ 33-34'	7/1/2016	33 - 34	0.126	0.109	<0.050	<0.050	<5.00	<25.0	<100	<580

Notes:

1. Standards for soil are taken from 2 CCR 404-1, Table 910-1, effective January 30, 2015.

COGCC = Colorado Oil and Gas Conservation Commission

(<) = Analytical result is less than the indicated laboratory reporting limit.

TVPH - GRO = Total volatile petroleum hydrocarbons - gasoline range organics

TEPH - DRO = Total extractable petroleum hydrocarbons - diesel range organics

TEPH - ORO = Total extractable petroleum hydrocarbons - oil range organics

mg/kg = Milligrams per kilogram.

bgs = Below ground surface.

BOLD= Analytical result is in exceedance of COGCC Table 910-1 soil standards.

NS = Not sampled/analyzed

TABLE 2
MITCHELL COMPRESSOR STATION
GROUNDWATER SAMPLE RESULTS SUMMARY TABLE
KERR-McGEE GATHERING LLC

Sample ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth To Water (ft. BTOC)	Depth To LNAPL (ft. BTOC)
COGCC standards for groundwater (µg/L) ⁽¹⁾		5	560	700	1,400	-	-
BH02-16	08/09/16	NS	NS	NS	NS	31.05	31.04
BH03-16	08/09/16	NS	NS	NS	NS	36.94	35.26
BH04-16	08/09/16	NS	NS	NS	NS	33.00	32.17
BH05-16	08/09/16	NS	NS	NS	NS	31.28	29.94
BH06-16	08/09/16	NS	NS	NS	NS	34.87	34.46
BH07-16	08/09/16	5,200	177	176	1,500	34.80	ND
BH08-16	08/09/16	1,260	24.8	4.44	57.6	33.63	ND
BH09-16	08/09/16	26,700	9,380	190	965	30.44	ND

Notes:

1. Standards for groundwater are taken from 2 CCR 404-1, Table 910-1, effective January 30, 2015

COGCC = Colorado Oil and Gas Conservation Commission

(<) = Analytical result is less than the indicated laboratory reporting limit

µg/L = Micrograms per liter

ft. BTOC = Feet below top of casing

BOLD = Analytical result is in exceedance of COGCC Table 910-1 groundwater standards

NS = Not sampled

ND = No LNAPL detected

LNAPL = Light non-aqueous phase liquid

**ATTACHMENT A
LABORATORY
ANALYTICAL REPORTS**



June 21, 2016

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver

CO 80211

**Project Name - KMG - Mitchell Compressor
Station**

Project Number - 88798693

Attached are your analytical results for KMG - Mitchell Compressor Station received by Origins Laboratory, Inc. June 13, 2016. This project is associated with Origins project number X606153-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: 88798693

Project: KMG - Mitchell Compressor Station

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01-16@9.5-10.5	X606153-01	Soil	June 13, 2016 10:37	06/13/2016 16:39
B01@8'	X606153-02	Soil	June 13, 2016 11:15	06/13/2016 16:39
N01@6'	X606153-03	Soil	June 13, 2016 11:19	06/13/2016 16:39
S01@6'	X606153-04	Soil	June 13, 2016 11:01	06/13/2016 16:39
E01@6'	X606153-05	Soil	June 13, 2016 11:23	06/13/2016 16:39
W01@6'	X606153-06	Soil	June 13, 2016 11:09	06/13/2016 16:39
B02@8'	X606153-07	Soil	June 13, 2016 12:27	06/13/2016 16:39
N02@6'	X606153-08	Soil	June 13, 2016 12:38	06/13/2016 16:39
S02@6'	X606153-09	Soil	June 13, 2016 12:34	06/13/2016 16:39
E02@6'	X606153-10	Soil	June 13, 2016 12:42	06/13/2016 16:39

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: 88798693

Project: KMG - Mitchell Compressor Station

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
W02@6'	X606153-11	Soil	June 13, 2016 13:21	06/13/2016 16:39

Sample BH01 was changed to BH01-16 per the email from Mike Jahn on 06/21/16.

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

www.originslaboratory.com

page 1 of 2

X606153

ORIGINS
LABORATORY, INC

Client: APC
Project Manager: Robert Cornez
Address:
Project Name: Mitchell Compressor Station
Project Number: 88798693
Telephone Number: 303-881-9525
Email Address: rcornez@tasma-geo.com
Samples Collected By: Zach Mathis

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis				Sample Instructions		
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #	Other	6-2-17-21-26	TPM - 21-26-27	8015		TRAP	
Bhole 95-10.5	6/13/16	1037	2	X				X					X	X			
Bhole 8'		1115	1														
Nhole 6'		1114	1														
Soil 6'		1101	1														
Eole 6'		1123	1														
Wole 6'		1109	1														
Bhole 8'		1227	1														
Nhole 6'		1238	1														
Soil 6'		1234	1														
Eole 6'		1242	1														
Relinquished By: [Signature]	Date: 6/13/16	Time: 1639															
Relinquished By: [Signature]	Date: 6/13/16	Time: 1639															

Date Results Needed

Temp Received: 48°

Origins Laboratory, Inc.

Jefe Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

ORIGINS

LABORATORY, INC

X606153

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page 2 of 2

Client: APC

Project Manager: Robert Covez

Address:

Project Name: Mitchell Composites Station

Telephone Number: 303-884-4525

Project Number: 88798493

Email Address: Carla.Bellamy-glo.com

Samples Collected By: Zach Murphy

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #	Other	TRM-DRUGS	
W0206'	6/13/16	1321	1	X					X		X	X	1
													2
													3
													4
													5
													6
													7
													8
													9
													10
Relinquished By: Zhi / [Signature]	Date: 6/13/16	Time: 1638		Received By: [Signature]				Date: 6/13/16	Time: 1639	Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard			
Relinquished By:	Date:	Time:		Received By:				Date:	Time:				

Temp Received: 48°

Date Results Needed

Origins Laboratory, Inc.

Jeff Pellipini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

Origins Laboratory

F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: X606153

Client: Tasman Geosciences
Client Project ID: Mitchell Compressor Station

Checklist Completed by: Joe Henderson

Shipped Via: Hand Pickup 2/6/13
(UPS, FedEx, Hand Delivered, Pickup, etc.)

Date/time completed: 6/13/16 1705

Airbill #: NA

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: _____

Cooler Number/Temperature: 1 / 4.8 °C _____ / _____ °C _____ / _____ °C (Describe)

Thermometer ID: T603

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾if NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 6/13/16

Origins Laboratory, Inc.

[Signature]

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

BH01-16@9.5-10.5
6/13/2016 10:37:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X606153-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	145	25.0	mg/kg	1	B6F1302	06/13/2016	06/13/2016
Residual Range Organics (C28-C40)	938	100	"	"	"	"	"

Surrogate: <i>o</i> -Terphenyl	84.1 %	59-131			"	"	"
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	1420	50.0	mg/kg	250	B6F1301	06/13/2016	06/14/2016
Benzene	10.9	0.498	"	"	"	"	"
Toluene	48.1	0.498	"	"	"	"	"
Ethylbenzene	15.6	0.498	"	"	"	"	"
Xylenes, total	43.9	0.498	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	128 %	70-130			"	"	"
Surrogate: Toluene-d8	109 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	97.2 %	70-130			"	"	"

Oil & Grease by 9071B

Oil and Grease, Total (HEM)	1320	710	mg/Kg	1	500987		06/15/2016
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Total Solids by 160.3 Modified

Solids, Total	70	0.1	%	1	501344	"	06/17/2016
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Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

B01@8'

6/13/2016 11:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X606153-02 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6F1302	06/13/2016	06/13/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 72.3 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6F1301	06/13/2016	06/14/2016	U
Benzene	0.004	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 112 % 70-130 " " "
Surrogate: Toluene-d8 92.2 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 99.7 % 70-130 " " "

Oil & Grease by 9071B

Oil and Grease, Total (HEM)	ND	540	mg/Kg	1	500987		06/15/2016	Ua
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Total Solids by 160.3 Modified

Solids, Total	86	0.1	%	1	501344	"	06/17/2016	
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Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

N01@6'

6/13/2016 11:19:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X606153-03 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6F1302	06/13/2016	06/13/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 76.3 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6F1301	06/13/2016	06/14/2016	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 117 % 70-130 " " "
Surrogate: Toluene-d8 94.4 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

Oil & Grease by 9071B

Oil and Grease, Total (HEM)	ND	620	mg/Kg	1	500987		06/15/2016	Ua
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Total Solids by 160.3 Modified

Solids, Total	81	0.1	%	1	501344	"	06/17/2016	
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Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

S01@6'

6/13/2016 11:01:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X606153-04 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6F1302	06/13/2016	06/14/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 81.0 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B6F1301	06/13/2016	06/14/2016	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 106 % 70-130 " " "
Surrogate: Toluene-d8 94.5 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 97.2 % 70-130 " " "

Oil & Grease by 9071B

Oil and Grease, Total (HEM)	ND	600	mg/Kg	1	500987		06/15/2016	Ua
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Total Solids by 160.3 Modified

Solids, Total	81	0.1	%	1	501344	"	06/17/2016	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

E01@6'

6/13/2016 11:23:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X606153-05 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6F1302	06/13/2016	06/14/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 82.2 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6F1301	06/13/2016	06/14/2016	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 118 % 70-130 " " "
Surrogate: Toluene-d8 95.1 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 100 % 70-130 " " "

Oil & Grease by 9071B

Oil and Grease, Total (HEM)	ND	570	mg/Kg	1	500987		06/15/2016	Ua
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Total Solids by 160.3 Modified

Solids, Total	81	0.1	%	1	501344	"	06/17/2016	
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Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

W01@6'

6/13/2016 11:09:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X606153-06 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6F1302	06/13/2016	06/14/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 81.2 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6F1301	06/13/2016	06/14/2016	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 113 % 70-130 " " "
Surrogate: Toluene-d8 93.4 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 97.3 % 70-130 " " "

Oil & Grease by 9071B

Oil and Grease, Total (HEM)	ND	580	mg/Kg	1	500987		06/15/2016	Ua
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Total Solids by 160.3 Modified

Solids, Total	82	0.1	%	1	501344	"	06/17/2016	
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Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

B02@8'

6/13/2016 12:27:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X606153-07 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	63.8	25.0	mg/kg	1	B6F1302	06/13/2016	06/14/2016	
Residual Range Organics (C28-C40)	479	100	"	"	"	"	"	

Surrogate: o-Terphenyl	85.3 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	263	5.00	mg/kg	25	B6F1301	06/13/2016	06/14/2016	
Benzene	0.526	0.050	"	"	"	"	"	
Toluene	2.09	0.050	"	"	"	"	"	
Ethylbenzene	1.44	0.050	"	"	"	"	"	
Xylenes, total	6.13	0.050	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130			"	"	06/14/2016	
Surrogate: Toluene-d8	96.1 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.8 %	70-130			"	"	"	

Oil & Grease by 9071B

Oil and Grease, Total (HEM)	ND	650	mg/Kg	1	500987		06/15/2016	Ua
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Total Solids by 160.3 Modified

Solids, Total	76	0.1	%	1	501344	"	06/17/2016	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

N02@6'

6/13/2016 12:38:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X606153-08 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6F1302	06/13/2016	06/14/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 81.8 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	491	50.0	mg/kg	250	B6F1301	06/13/2016	06/14/2016	
Benzene	1.16	0.050	"	25	"	"	06/14/2016	
Toluene	10.4	0.498	"	250	"	"	06/14/2016	
Ethylbenzene	7.26	0.498	"	"	"	"	"	
Xylenes, total	23.5	0.498	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 111 % 70-130 " " "

Surrogate: Toluene-d8 98.9 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 97.5 % 70-130 " " "

Oil & Grease by 9071B

Oil and Grease, Total (HEM)	ND	600	mg/Kg	1	500987		06/15/2016	Ua
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Total Solids by 160.3 Modified

Solids, Total	75	0.1	%	1	501344	"	06/17/2016	
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Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

S02@6'

6/13/2016 12:34:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X606153-09 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	218	25.0	mg/kg	1	B6F1302	06/13/2016	06/14/2016
Residual Range Organics (C28-C40)	1060	100	"	"	"	"	"

Surrogate: o-Terphenyl 78.9 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	1890	50.0	mg/kg	250	B6F1301	06/13/2016	06/14/2016
Benzene	25.5	0.498	"	"	"	"	"
Toluene	194	4.98	"	2500	"	"	06/14/2016
Ethylbenzene	21.6	0.498	"	250	"	"	06/14/2016
Xylenes, total	60.4	0.498	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4 106 % 70-130 " " 06/14/2016
Surrogate: Toluene-d8 97.4 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

Oil & Grease by 9071B

Oil and Grease, Total (HEM)	1770	620	mg/Kg	1	500987		06/15/2016
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Total Solids by 160.3 Modified

Solids, Total	74	0.1	%	1	501344	"	06/17/2016
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Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

E02@6'

6/13/2016 12:42:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X606153-10 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	26.4	25.0	mg/kg	1	B6F1302	06/13/2016	06/14/2016	
Residual Range Organics (C28-C40)	105	100	"	"	"	"	"	

Surrogate: o-Terphenyl 80.3 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	430	5.00	mg/kg	25	B6F1301	06/13/2016	06/14/2016	
Benzene	0.560	0.498	"	250	"	"	06/14/2016	
Toluene	6.08	0.498	"	"	"	"	"	
Ethylbenzene	1.88	0.498	"	"	"	"	"	
Xylenes, total	6.60	0.498	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 112 % 70-130 " " "
Surrogate: Toluene-d8 98.0 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 96.9 % 70-130 " " "

Oil & Grease by 9071B

Oil and Grease, Total (HEM)	ND	620	mg/Kg	1	500987		06/15/2016	Ua
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Total Solids by 160.3 Modified

Solids, Total	77	0.1	%	1	501344	"	06/17/2016	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

W02@6'

6/13/2016 1:21:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X606153-11 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6F1302	06/13/2016	06/14/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 79.6 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	346	5.00	mg/kg	25	B6F1301	06/13/2016	06/14/2016	
Benzene	0.375	0.050	"	"	"	"	"	
Toluene	2.67	0.050	"	"	"	"	"	
Ethylbenzene	2.57	0.050	"	"	"	"	"	
Xylenes, total	11.4	0.050	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 116 % 70-130 " " 06/14/2016
Surrogate: Toluene-d8 95.5 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 80.7 % 70-130 " " "

Oil & Grease by 9071B

Oil and Grease, Total (HEM)	ND	620	mg/Kg	1	500987		06/15/2016	Ua
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Total Solids by 160.3 Modified

Solids, Total	79	0.1	%	1	501344	"	06/17/2016	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B6F1301 - EPA 5030 (soil)										
Blank (B6F1301-BLK1)					Prepared: 06/13/2016 Analyzed: 06/13/2016					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		100	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.5	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B6F1301 - EPA 5030 (soil)										
Blank (B6F1301-BLK2)					Prepared: 06/13/2016 Analyzed: 06/13/2016					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		103	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B6F1301 - EPA 5030 (soil)										
LCS (B6F1301-BS1)					Prepared: 06/13/2016 Analyzed: 06/13/2016					
Benzene	0.112	0.002	mg/kg	0.100		112	77.1-124			
Toluene	0.116	0.002	"	0.100		116	74.5-128			
Ethylbenzene	0.111	0.002	"	0.100		111	66.4-127			
m,p-Xylene	0.223	0.004	"	0.200		111	76.6-124			
o-Xylene	0.106	0.002	"	0.100		106	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		100	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.6	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B6F1301 - EPA 5030 (soil)										
LCS (B6F1301-BS2)					Prepared: 06/13/2016 Analyzed: 06/13/2016					
Benzene	0.096	0.002	mg/kg	0.100		96.2	77.1-124			
Toluene	0.098	0.002	"	0.100		98.5	74.5-128			
Ethylbenzene	0.110	0.002	"	0.100		110	66.4-127			
m,p-Xylene	0.218	0.004	"	0.200		109	76.6-124			
o-Xylene	0.106	0.002	"	0.100		106	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		98.1	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.3	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.3	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6F1301 - EPA 5030 (soil)

Matrix Spike (B6F1301-MS1)		Source: X606138-02			Prepared: 06/13/2016 Analyzed: 06/13/2016					
Benzene	0.111	0.002	mg/kg	0.100	ND	111	71.8-126			
Toluene	0.120	0.002	"	0.100	ND	120	65.1-130			
Ethylbenzene	0.114	0.002	"	0.100	ND	114	62.2-130			
m,p-Xylene	0.228	0.004	"	0.200	ND	114	46.5-137			
o-Xylene	0.109	0.002	"	0.100	ND	109	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6F1301 - EPA 5030 (soil)

Matrix Spike (B6F1301-MS2)		Source: X606152-01			Prepared: 06/13/2016 Analyzed: 06/13/2016					
Benzene	0.097	0.002	mg/kg	0.100	ND	96.9	71.8-126			
Toluene	0.100	0.002	"	0.100	ND	99.8	65.1-130			
Ethylbenzene	0.110	0.002	"	0.100	ND	110	62.2-130			
m,p-Xylene	0.219	0.004	"	0.200	ND	110	46.5-137			
o-Xylene	0.107	0.002	"	0.100	ND	107	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		98.2	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.5	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.6	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6F1301 - EPA 5030 (soil)

Matrix Spike Dup (B6F1301-MSD1)		Source: X606138-02			Prepared: 06/13/2016 Analyzed: 06/13/2016					
Benzene	0.110	0.002	mg/kg	0.100	ND	110	71.8-126	1.16	11.3	
Toluene	0.115	0.002	"	0.100	ND	115	65.1-130	3.84	15.4	
Ethylbenzene	0.112	0.002	"	0.100	ND	112	62.2-130	2.11	19.6	
m,p-Xylene	0.222	0.004	"	0.200	ND	111	46.5-137	2.72	19.2	
o-Xylene	0.108	0.002	"	0.100	ND	108	54.2-134	0.958	17.9	
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		100	70-130			
Surrogate: Toluene-d8	65		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.4	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6F1301 - EPA 5030 (soil)

Matrix Spike Dup (B6F1301-MSD2)		Source: X606152-01			Prepared: 06/13/2016 Analyzed: 06/13/2016					
Benzene	0.104	0.002	mg/kg	0.100	ND	104	71.8-126	6.74	11.3	
Toluene	0.108	0.002	"	0.100	ND	108	65.1-130	8.02	15.4	
Ethylbenzene	0.118	0.002	"	0.100	ND	118	62.2-130	6.21	19.6	
m,p-Xylene	0.232	0.004	"	0.200	ND	116	46.5-137	5.67	19.2	
o-Xylene	0.114	0.002	"	0.100	ND	114	54.2-134	6.58	17.9	
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		103	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.4	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.3	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Extractable Petroleum Hydrocarbons by 8015C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6F1302 - EPA 3580

Blank (B6F1302-BLK1)

Prepared: 06/13/2016 Analyzed: 06/13/2016

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	47		"	50.0		94.9	59-131			

Blank (B6F1302-BLK2)

Prepared: 06/13/2016 Analyzed: 06/13/2016

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	41		"	50.0		82.7	59-131			

LCS (B6F1302-BS1)

Prepared: 06/13/2016 Analyzed: 06/13/2016

Diesel (C10-C28)	958	50.0	mg/kg	1000		95.8	64-121			
Residual Range Organics (C28-C40)	881	200	"	1000		88.1	58-124			
Surrogate: o-Terphenyl	48		"	50.0		96.8	59-131			

LCS (B6F1302-BS2)

Prepared: 06/13/2016 Analyzed: 06/13/2016

Diesel (C10-C28)	840	50.0	mg/kg	1000		84.0	64-121			
Residual Range Organics (C28-C40)	760	200	"	1000		76.0	58-124			
Surrogate: o-Terphenyl	43		"	50.0		85.1	59-131			

Matrix Spike (B6F1302-MS1)

Source: X606138-02

Prepared: 06/13/2016 Analyzed: 06/13/2016

Diesel (C10-C28)	969	50.0	mg/kg	1000	20.4	94.9	53-125			
Residual Range Organics (C28-C40)	965	200	"	1000	ND	96.5	47-133			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

Extractable Petroleum Hydrocarbons by 8015C - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B6F1302 - EPA 3580										
Matrix Spike (B6F1302-MS1)		Source: X606138-02			Prepared: 06/13/2016 Analyzed: 06/13/2016					
Surrogate: o-Terphenyl	49		mg/kg	50.0		98.9	59-131			
Matrix Spike (B6F1302-MS2)		Source: X606152-01			Prepared: 06/13/2016 Analyzed: 06/13/2016					
Diesel (C10-C28)	783	50.0	mg/kg	1000	ND	78.3	53-125			
Residual Range Organics (C28-C40)	686	200	"	1000	ND	68.6	47-133			
Surrogate: o-Terphenyl	42		"	50.0		84.6	59-131			
Matrix Spike Dup (B6F1302-MSD1)		Source: X606138-02			Prepared: 06/13/2016 Analyzed: 06/13/2016					
Diesel (C10-C28)	824	50.0	mg/kg	1000	20.4	80.3	53-125	16.6	20	
Residual Range Organics (C28-C40)	709	200	"	1000	ND	70.9	47-133	30.6	20	QM-07
Surrogate: o-Terphenyl	42		"	50.0		83.6	59-131			
Matrix Spike Dup (B6F1302-MSD2)		Source: X606152-01			Prepared: 06/13/2016 Analyzed: 06/13/2016					
Diesel (C10-C28)	898	50.0	mg/kg	1000	ND	89.8	53-125	13.7	20	
Residual Range Organics (C28-C40)	876	200	"	1000	ND	87.6	47-133	24.3	20	QR-02
Surrogate: o-Terphenyl	46		"	50.0		91.7	59-131			

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

Oil & Grease by 9071B - Quality Control ALG-J

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 500987 -										
Blank (1-BLK)		Source: 1-BLK								
Oil and Grease, Total (HEM)	ND	500	mg/Kg				-			Ua
LCS (1-LCS)		Source: 1-LCS								
Oil and Grease, Total (HEM)	3750	500	mg/Kg	4000		94	70-130			
LCSD (1-LCSD)		Source: 1-LCSD								
Oil and Grease, Total (HEM)	3830	500	mg/Kg	4000		96	70-130	2	20	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

Total Solids by 160.3 Modified - Quality Control ALG-J

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 501344 -

DUP (J1604273-003-D)		Source: J1604273-003-DUP			Prepared: Analyzed: 06/17/2016					
Solids, Total	81	0.1	%				-	<1	20	
DUP (J1604273-010-D)		Source: J1604273-010-DUP			Prepared: Analyzed: 06/17/2016					
Solids, Total	76	0.1	%				-	1	20	

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Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: 88798693

Project: KMG - Mitchell Compressor Station

Notes and Definitions

Ua The compound was analyzed for, but was not detected (Non-detect) at or above the MRL/MDL.

U Sample is Non-Detect.

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

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President



June 24, 2016

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver

CO 80211

**Project Name - KMG - Mitchell Compressor
Station**

Project Number - 88798693

Attached are your analytical results for KMG - Mitchell Compressor Station received by Origins Laboratory, Inc. June 20, 2016. This project is associated with Origins project number X606238-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: 88798693

Project: KMG - Mitchell Compressor Station

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH02-16@16-17'	X606238-01	Soil	June 20, 2016 10:00	06/20/2016 16:28
BH02-16@31'	X606238-02	Soil	June 20, 2016 12:35	06/20/2016 16:28

Both sample IDs were changed to BH02-16 per the email from Mike Jahn on 06/21/16.

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

ORIGINS
LABORATORY, INC

www.originslaboratory.com

X606238

page 1 of 1

Client: Tasman / APC Midstream
Address: _____
Telephone Number: _____
Email Address: _____
Project Manager: Bob Cornez
Project Name: Mitchell Compressor Station
Project Number: WO#: 88798693
Samples Collected By: Eric Siegel

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions			
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	At Summ #			Other		
BH02e 16-17'	6/20/16	10:00	1	X					X		9078 CH	8015 DR	8260 GBR	1	
BH02e 31'	6/20/16	12:35	1	X					X		9078 CH	8015 DR	8260 GBR	2	
														3	
														4	
														5	
														6	
														7	
														8	
														9	
														10	

Relinquished By: <u>G.A. Mathis</u>	Date: <u>6/20/16</u>	Time: <u>1600</u>	Received By: <u>[Signature]</u>	Date: <u>6/20/16</u>	Time: <u>1628</u>	Turnaround Time: <input checked="" type="checkbox"/> Same Day <input checked="" type="checkbox"/> 24 Hr <input checked="" type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	

Date Results Needed

Temp Received: 0.8

Origins Laboratory, Inc.

Jefe Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

Origins Laboratory

F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: 460238

Client: Tasman Geosciences

Client Project ID: Mitchell Compressor Station

Checklist Completed by: Joe Henderson

Shipped Via: DeKup
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 6/20/16 1702

Airbill #: 11A

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: _____

Cooler Number/Temperature: 1 / 0.8 °C 1 °C 1 °C (Describe) 1 °C

Thermometer ID: 103

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	No Project ID
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH < 2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any): <u>Project ID Found on Sample Jars 6/20</u>				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by: [Signature] (Project Manager)

Date/Time Reviewed: 6/21/16

Origins Laboratory, Inc.

[Signature]

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

BH02-16@16-17'

6/20/2016 10:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X606238-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6F2003	06/20/2016	06/20/2016	U
Residual Range Organics (C28-C40)	136	100	"	"	"	"	"	

Surrogate: o-Terphenyl	79.9 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	260	5.00	mg/kg	25	B6F2001	06/20/2016	06/20/2016	
Benzene	1.14	0.050	"	"	"	"	"	
Toluene	6.41	0.050	"	"	"	"	"	
Ethylbenzene	0.691	0.050	"	"	"	"	"	
Xylenes, total	5.24	0.050	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	78.3 %	70-130			"	"	"	
Surrogate: Toluene-d8	110 %	70-130			"	"	06/20/2016	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	06/20/2016	

Oil & Grease by 9071B

Oil and Grease, Total (HEM)	ND	540	mg/Kg	1	502035		06/22/2016	Ua
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Total Solids by 160.3 Modified

Solids, Total	85	0.1	%	1	501941	"	06/21/2016	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

BH02-16@31'

6/20/2016 12:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X606238-02 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6F2003	06/20/2016	06/20/2016	U
Residual Range Organics (C28-C40)	109	100	"	"	"	"	"	

Surrogate: o-Terphenyl	73.4 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	59.1	5.00	mg/kg	25	B6F2001	06/20/2016	06/20/2016	
Benzene	0.080	0.050	"	"	"	"	"	
Toluene	0.315	0.050	"	"	"	"	"	
Ethylbenzene	0.166	0.050	"	"	"	"	"	
Xylenes, total	0.580	0.050	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	85.0 %	70-130			"	"	"	
Surrogate: Toluene-d8	114 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	

Oil & Grease by 9071B

Oil and Grease, Total (HEM)	ND	580	mg/Kg	1	502035		06/22/2016	Ua
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Total Solids by 160.3 Modified

Solids, Total	85	0.1	%	1	501941	"	06/21/2016	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B6F2001 - EPA 5030 (soil)										
Blank (B6F2001-BLK1)					Prepared: 06/20/2016 Analyzed: 06/20/2016					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		104	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.3	70-130			
Surrogate: 4-Bromofluorobenzene	68		"	62.5		109	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B6F2001 - EPA 5030 (soil)										
LCS (B6F2001-BS1)					Prepared: 06/20/2016 Analyzed: 06/20/2016					
Benzene	0.111	0.002	mg/kg	0.100		111	77.1-124			
Toluene	0.113	0.002	"	0.100		113	74.5-128			
Ethylbenzene	0.109	0.002	"	0.100		109	66.4-127			
m,p-Xylene	0.225	0.004	"	0.200		113	76.6-124			
o-Xylene	0.110	0.002	"	0.100		110	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		98.5	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	67		"	62.5		108	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6F2001 - EPA 5030 (soil)

Matrix Spike (B6F2001-MS1)		Source: X606149-05			Prepared: 06/20/2016 Analyzed: 06/20/2016					
Benzene	0.116	0.002	mg/kg	0.100	0.0008	116	71.8-126			
Toluene	0.115	0.002	"	0.100	ND	115	65.1-130			
Ethylbenzene	0.116	0.002	"	0.100	0.0007	116	62.2-130			
m,p-Xylene	0.243	0.004	"	0.200	0.003	120	46.5-137			
o-Xylene	0.117	0.002	"	0.100	0.0004	116	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	59		ug/kg	62.5		94.9	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	67		"	62.5		107	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6F2001 - EPA 5030 (soil)

Matrix Spike Dup (B6F2001-MSD1)		Source: X606149-05			Prepared: 06/20/2016 Analyzed: 06/20/2016					
Benzene	0.117	0.002	mg/kg	0.100	0.0008	116	71.8-126	0.599	11.3	
Toluene	0.114	0.002	"	0.100	ND	114	65.1-130	0.912	15.4	
Ethylbenzene	0.117	0.002	"	0.100	0.0007	116	62.2-130	0.155	19.6	
m,p-Xylene	0.242	0.004	"	0.200	0.003	119	46.5-137	0.421	19.2	
o-Xylene	0.118	0.002	"	0.100	0.0004	117	54.2-134	0.769	17.9	
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		98.6	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		106	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Extractable Petroleum Hydrocarbons by 8015C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6F2003 - EPA 3580

Blank (B6F2003-BLK1)

Prepared: 06/20/2016 Analyzed: 06/20/2016

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	46		"	50.0		91.9	59-131			

LCS (B6F2003-BS1)

Prepared: 06/20/2016 Analyzed: 06/20/2016

Diesel (C10-C28)	857	50.0	mg/kg	1000		85.7	64-121			
Residual Range Organics (C28-C40)	788	200	"	1000		78.8	58-124			
Surrogate: o-Terphenyl	42		"	50.0		84.1	59-131			

Matrix Spike (B6F2003-MS1)

Source: X606211-01

Prepared: 06/20/2016 Analyzed: 06/20/2016

Diesel (C10-C28)	897	50.0	mg/kg	1000	26.2	87.1	53-125			
Residual Range Organics (C28-C40)	849	200	"	1000	14.5	83.4	47-133			
Surrogate: o-Terphenyl	43		"	50.0		86.5	59-131			

Matrix Spike Dup (B6F2003-MSD1)

Source: X606211-01

Prepared: 06/20/2016 Analyzed: 06/20/2016

Diesel (C10-C28)	905	50.0	mg/kg	1000	26.2	87.9	53-125	0.984	20	
Residual Range Organics (C28-C40)	833	200	"	1000	14.5	81.9	47-133	1.91	20	
Surrogate: o-Terphenyl	45		"	50.0		89.7	59-131			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

Oil & Grease by 9071B - Quality Control ALG-J

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 502035 -										
Blank (1-BLK)		Source: 1-BLK								
Oil and Grease, Total (HEM)	ND	500	mg/Kg				-			Ua
LCS (1-LCS)		Source: 1-LCS								
Oil and Grease, Total (HEM)	3660	500	mg/Kg	4000		92	70-130			
LCSD (1-LCSD)		Source: 1-LCSD								
Oil and Grease, Total (HEM)	3500	500	mg/Kg	4000		88	70-130	4	20	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: 88798693

Project: KMG - Mitchell Compressor Station

Notes and Definitions

Ua The compound was analyzed for, but was not detected (Non-detect) at or above the MRL/MDL.

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

July 01, 2016

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver

CO 80211

**Project Name - KMG - Mitchell Compressor
Station**

Project Number - [none]

Attached are your analytical results for KMG - Mitchell Compressor Station received by Origins Laboratory, Inc. June 27, 2016. This project is associated with Origins project number X606318-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: [none]

Project: KMG - Mitchell Compressor Station

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH03-16 @ 18-19'	X606318-01	Soil	June 27, 2016 10:41	06/27/2016 17:07
BH03-16 @ 41.5-44'	X606318-02	Soil	June 27, 2016 12:03	06/27/2016 17:07
BH04-16 @ 12-13'	X606318-03	Soil	June 27, 2016 13:30	06/27/2016 17:07
BH04-16 @ 43.5-45'	X606318-04	Soil	June 27, 2016 16:00	06/27/2016 17:07

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Mitchell Compressor Station

www.originslaboratory.com

page 7 of 1

X606318

ORIGINS
LABORATORY, INC

Client: APC

Address: _____

Project Manager: Robert Cornez

Project Name: Mitchell Compressor Station

Project Number: _____

Samples Collected By: Zach Mathis

Telephone Number: 303-881-9525

Email Address: noelle@tasman-geo.com

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative					Matrix				Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air / Surface	Other			
BH03-16@ 18-14'	6/27/16	1041	2	X					X				X	
BH03-16@ 41.5-44'	6/27/16	1203	1											
BH04-16@ 12-13'	6/27/16	1330	1											
BH04-16@ 43.5-45'	6/27/16	1600	1											

Date Results Needed: 5.0

Origins Laboratory, Inc.

Jefe Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Mitchell Compressor Station

Origins Laboratory

F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: X606318

Client: Tasman

Client Project ID: Mitchell Compressor Station

Checklist Completed by: Jeff Smith

Shipped Via: Pick Up
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 6/27/16

Airbill #: N/A

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: _____

Cooler Number/Temperature: 1 / 50 °C 1 / _____ °C 1 / _____ °C (Describe)

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) / (pH < 2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Jeff Smith
Reviewed by (Project Manager)

6/27/16
Date/Time Reviewed

Origins Laboratory, Inc.

Jeff Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Mitchell Compressor Station

BH03-16 @ 18-19'

6/27/2016 10:41:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X606318-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6F2705	06/27/2016	06/28/2016	U
Residual Range Organics (C28-C40)	152	100	"	"	"	"	"	

Surrogate: o-Terphenyl	70.9 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	39.3	5.00	mg/kg	25	B6F2704	06/27/2016	06/28/2016	
Benzene	0.564	0.050	"	"	"	"	"	
Toluene	0.887	0.050	"	"	"	"	"	
Ethylbenzene	0.135	0.050	"	"	"	"	"	
Xylenes, total	0.617	0.050	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"	

Oil & Grease by 9071B

Oil and Grease, Total (HEM)	ND	600	mg/Kg	1	503190		06/30/2016	Ua
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Total Solids by 160.3

Solids, Total	82	0.1	%	1	503299	"	06/29/2016	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Mitchell Compressor Station

BH03-16 @ 41.5-44'
6/27/2016 12:03:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X606318-02 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6F2705	06/27/2016	06/28/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 67.7 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B6F2704	06/27/2016	06/28/2016	U
Benzene	0.238	0.050	"	"	"	"	"	
Toluene	0.270	0.050	"	"	"	"	"	
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	0.075	0.050	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 96.9 % 70-130 " " "
Surrogate: Toluene-d8 98.5 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

Oil & Grease by 9071B

Oil and Grease, Total (HEM)	ND	570	mg/Kg	1	503190		06/30/2016	Ua
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Total Solids by 160.3

Solids, Total	86	0.1	%	1	503299	"	06/29/2016	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Mitchell Compressor Station

BH04-16 @ 12-13'
6/27/2016 1:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X606318-03 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6F2705	06/27/2016	06/28/2016	U
Residual Range Organics (C28-C40)	219	100	"	"	"	"	"	

Surrogate: o-Terphenyl	71.6 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	455	5.00	mg/kg	25	B6F2704	06/27/2016	06/28/2016	
Benzene	5.00	0.050	"	"	"	"	"	
Toluene	11.7	0.498	"	250	"	"	06/28/2016	
Ethylbenzene	4.20	0.050	"	25	"	"	06/28/2016	
Xylenes, total	12.2	0.050	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	06/28/2016	
Surrogate: Toluene-d8	104 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"	

Oil & Grease by 9071B

Oil and Grease, Total (HEM)	ND	610	mg/Kg	1	503190		06/30/2016	Ua
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Total Solids by 160.3

Solids, Total	80	0.1	%	1	503299	"	06/29/2016	
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Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Mitchell Compressor Station

BH04-16 @ 43.5-45'
6/27/2016 4:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X606318-04 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6F2705	06/27/2016	06/28/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 70.6 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B6F2704	06/27/2016	06/28/2016	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 99.8 % 70-130 " " "
Surrogate: Toluene-d8 96.8 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

Oil & Grease by 9071B

Oil and Grease, Total (HEM)	ND	570	mg/Kg	1	503190		06/30/2016	Ua
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Total Solids by 160.3

Solids, Total	86	0.1	%	1	503299	"	06/29/2016	
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Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Mitchell Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B6F2704 - EPA 5030 (soil)										
Blank (B6F2704-BLK1)					Prepared: 06/27/2016 Analyzed: 06/27/2016					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		99.2	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.2	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Mitchell Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B6F2704 - EPA 5030 (soil)										
Blank (B6F2704-BLK2)					Prepared: 06/27/2016 Analyzed: 06/27/2016					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Mitchell Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B6F2704 - EPA 5030 (soil)										
LCS (B6F2704-BS1)					Prepared: 06/27/2016 Analyzed: 06/27/2016					
Benzene	0.095	0.002	mg/kg	0.100		95.5	77.1-124			
Toluene	0.093	0.002	"	0.100		92.6	74.5-128			
Ethylbenzene	0.097	0.002	"	0.100		96.6	66.4-127			
m,p-Xylene	0.192	0.004	"	0.200		95.8	76.6-124			
o-Xylene	0.096	0.002	"	0.100		95.9	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	60		ug/kg	62.5		96.4	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Mitchell Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6F2704 - EPA 5030 (soil)

LCS (B6F2704-BS2)

Prepared: 06/27/2016 Analyzed: 06/27/2016

Benzene	0.093	0.002	mg/kg	0.100		93.1	77.1-124			
Toluene	0.091	0.002	"	0.100		91.2	74.5-128			
Ethylbenzene	0.088	0.002	"	0.100		87.9	66.4-127			
m,p-Xylene	0.177	0.004	"	0.200		88.4	76.6-124			
o-Xylene	0.089	0.002	"	0.100		89.3	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		103	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Mitchell Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6F2704 - EPA 5030 (soil)

Matrix Spike (B6F2704-MS1)		Source: X606271-01			Prepared: 06/27/2016 Analyzed: 06/27/2016					
Benzene	0.091	0.002	mg/kg	0.100	ND	90.9	71.8-126			
Toluene	0.084	0.002	"	0.100	ND	83.9	65.1-130			
Ethylbenzene	0.081	0.002	"	0.100	ND	80.7	62.2-130			
m,p-Xylene	0.166	0.004	"	0.200	ND	82.8	46.5-137			
o-Xylene	0.082	0.002	"	0.100	0.0003	81.8	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5		105	70-130			
Surrogate: Toluene-d8	60		"	62.5		95.5	70-130			
Surrogate: 4-Bromofluorobenzene	67		"	62.5		107	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Mitchell Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6F2704 - EPA 5030 (soil)

Matrix Spike (B6F2704-MS2)		Source: X606317-01			Prepared: 06/27/2016 Analyzed: 06/27/2016					
Benzene	0.093	0.002	mg/kg	0.100	ND	92.5	71.8-126			
Toluene	0.092	0.002	"	0.100	ND	92.2	65.1-130			
Ethylbenzene	0.089	0.002	"	0.100	ND	89.2	62.2-130			
m,p-Xylene	0.181	0.004	"	0.200	ND	87.2	46.5-137			
o-Xylene	0.092	0.002	"	0.100	ND	91.7	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		103	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Mitchell Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6F2704 - EPA 5030 (soil)

Matrix Spike Dup (B6F2704-MSD1)		Source: X606271-01			Prepared: 06/27/2016 Analyzed: 06/27/2016					
Benzene	0.093	0.002	mg/kg	0.100	ND	93.2	71.8-126	2.54	11.3	
Toluene	0.087	0.002	"	0.100	ND	86.6	65.1-130	3.21	15.4	
Ethylbenzene	0.083	0.002	"	0.100	ND	82.7	62.2-130	2.42	19.6	
m,p-Xylene	0.171	0.004	"	0.200	ND	85.4	46.5-137	3.09	19.2	
o-Xylene	0.084	0.002	"	0.100	0.0003	84.5	54.2-134	3.30	17.9	
Surrogate: 1,2-Dichloroethane-d4	74		ug/kg	62.5		118	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.4	70-130			
Surrogate: 4-Bromofluorobenzene	67		"	62.5		108	70-130			

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Mitchell Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6F2704 - EPA 5030 (soil)

Matrix Spike Dup (B6F2704-MSD2)		Source: X606317-01			Prepared: 06/27/2016 Analyzed: 06/27/2016					
Benzene	0.094	0.002	mg/kg	0.100	ND	94.3	71.8-126	1.91	11.3	
Toluene	0.092	0.002	"	0.100	ND	92.0	65.1-130	0.174	15.4	
Ethylbenzene	0.089	0.002	"	0.100	ND	89.4	62.2-130	0.269	19.6	
m,p-Xylene	0.181	0.004	"	0.200	ND	87.4	46.5-137	0.144	19.2	
o-Xylene	0.091	0.002	"	0.100	ND	91.0	54.2-134	0.788	17.9	
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		103	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Mitchell Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Extractable Petroleum Hydrocarbons by 8015C - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6F2705 - EPA 3580

Blank (B6F2705-BLK1)

Prepared: 06/27/2016 Analyzed: 06/27/2016

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	48		"	50.0		96.5	59-131			

Blank (B6F2705-BLK2)

Prepared: 06/27/2016 Analyzed: 06/27/2016

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	46		"	50.0		91.7	59-131			

LCS (B6F2705-BS1)

Prepared: 06/27/2016 Analyzed: 06/27/2016

Diesel (C10-C28)	926	50.0	mg/kg	1000		92.6	64-121			
Residual Range Organics (C28-C40)	820	200	"	1000		82.0	58-124			
Surrogate: o-Terphenyl	39		"	50.0		77.1	59-131			

LCS (B6F2705-BS2)

Prepared: 06/27/2016 Analyzed: 06/27/2016

Diesel (C10-C28)	905	50.0	mg/kg	1000		90.5	64-121			
Residual Range Organics (C28-C40)	1010	200	"	1000		101	58-124			
Surrogate: o-Terphenyl	44		"	50.0		87.9	59-131			

Matrix Spike (B6F2705-MS1)

Source: X606271-01

Prepared: 06/27/2016 Analyzed: 06/27/2016

Diesel (C10-C28)	965	50.0	mg/kg	1000	ND	96.5	53-125			
Residual Range Organics (C28-C40)	918	200	"	1000	ND	91.8	47-133			

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Mitchell Compressor Station

Extractable Petroleum Hydrocarbons by 8015C - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B6F2705 - EPA 3580										
Matrix Spike (B6F2705-MS1)		Source: X606271-01			Prepared: 06/27/2016 Analyzed: 06/27/2016					
Surrogate: o-Terphenyl	41		mg/kg	50.0		82.0	59-131			
Matrix Spike Dup (B6F2705-MSD1)		Source: X606271-01			Prepared: 06/27/2016 Analyzed: 06/27/2016					
Diesel (C10-C28)	1000	50.0	mg/kg	1000	ND	100	53-125	3.94	20	
Residual Range Organics (C28-C40)	948	200	"	1000	ND	94.8	47-133	3.20	20	
Surrogate: o-Terphenyl	44		"	50.0		88.8	59-131			
Matrix Spike Dup (B6F2705-MSD2)		Source: X606317-01			Prepared: 06/27/2016 Analyzed: 06/27/2016					
Diesel (C10-C28)	891	50.0	mg/kg	1000	ND	89.1	53-125		20	
Residual Range Organics (C28-C40)	991	200	"	1000	ND	99.1	47-133		20	
Surrogate: o-Terphenyl	44		"	50.0		87.4	59-131			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Mitchell Compressor Station

Oil & Grease by 9071B - Quality Control ALG-J

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 503190 -										
Blank (1-BLK)		Source: 1-BLK								
Oil and Grease, Total (HEM)	ND	500	mg/Kg				-			Ua
LCS (1-LCS)		Source: 1-LCS								
Oil and Grease, Total (HEM)	3520	500	mg/Kg	4000		88	70-130			
LCSD (1-LCSD)		Source: 1-LCSD								
Oil and Grease, Total (HEM)	3570	500	mg/Kg	4000		89	70-130	1	20	

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Mitchell Compressor Station

Total Solids by 160.3 - Quality Control
ALG-J

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 503299 -

DUP (J1604599-001-D)

Source: J1604599-001-DUP

Prepared: Analyzed: 06/29/2016

Solids, Total	82	0.1	%				-	<1	20	
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Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: [none]

Project: KMG - Mitchell Compressor Station

Notes and Definitions

Ua The compound was analyzed for, but was not detected (Non-detect) at or above the MRL/MDL.

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President



July 07, 2016

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver

CO 80211

**Project Name - KMG - Mitchell Compressor
Station**

Project Number - 88798693

Attached are your analytical results for KMG - Mitchell Compressor Station received by Origins Laboratory, Inc. July 01, 2016. This project is associated with Origins project number X607001-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: 88798693

Project: KMG - Mitchell Compressor Station

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH05-16 @ 12.5-13.5	X607001-01	Soil	June 30, 2016 10:00	07/01/2016 07:42
BH05-16 @ 42.5-43.5	X607001-02	Soil	June 30, 2016 10:45	07/01/2016 07:42
BH06-16 @ 26-27	X607001-03	Soil	June 30, 2016 14:20	07/01/2016 07:42
BH06-16 @ 42-43	X607001-04	Soil	June 30, 2016 15:00	07/01/2016 07:42
BH07-16 @ 20-21	X607001-05	Soil	June 30, 2016 16:51	07/01/2016 07:42
BH07-16 @ 42-43	X607001-06	Soil	June 30, 2016 17:35	07/01/2016 07:42

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

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X607001

ORIGINS
LABORATORY, INC

page 1 of 1

Client: APL
Address: _____
Telephone Number: 303-881-9525
Email Address: rcornez@tasman-geo.com

Project Manager: Bob Cornez
Project Name: Mitchell Compressor Station
Project Number: 88798693
Samples Collected By: Zach Mahoney

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summary			Other
BH05-110212.5-13.5	6/30/16	1000	2	X				X			X	1	
BH05-110212.5-43.5	6/30/16	1045	2	X				X			X	2	
BH06-110216.26-27	6/30/16	1420	2	X				X			X	3	
BH06-110216.42-43	6/30/16	1500	2	X				X			X	4	
BH07-110220-21	6/30/16	1651	2	X				X			X	5	
BH07-110242-43	6/30/16	1735	2	X				X			X	6	
												7	
												8	
												9	
												10	

Relinquished By: [Signature] Date: 6/7/16 Time: 714
Relinquished By: [Signature] Date: 7/1/16 Time: 0742

Turnaround Time: Same Day ☒ 24 Hr ☐ 48 Hr ☐ 72 Hr ☐ Standard ☐

Date Results Needed

Temp Received: 14°C

Origins Laboratory, Inc.

Jefe Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

Origins Laboratory

F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: X607001

Client: Tasman

Client Project ID: KMG-Mitchell Compressor

Checklist Completed by: Jen Pellegrini

Shipped Via: FD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 7/1/16

Airbill #: NA

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: _____

Cooler Number/Temperature: 1 / 1.4 °C / _____ °C / _____ °C (Describe)

Thermometer ID: TACB

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) / (pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by: [Signature] (Project Manager)

Date/Time Reviewed: 7/1/16

Origins Laboratory, Inc.

[Signature]

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

BH05-16 @ 12.5-13.5
6/30/2016 10:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X607001-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6G0102	07/01/2016	07/01/2016	U
Residual Range Organics (C28-C40)	157	100	"	"	"	"	"	

Surrogate: o-Terphenyl	79.7 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	55.9	5.00	mg/kg	25	B6G0101	07/01/2016	07/01/2016	
Benzene	0.388	0.050	"	"	"	"	"	
Toluene	0.450	0.050	"	"	"	"	"	
Ethylbenzene	0.108	0.050	"	"	"	"	"	
Xylenes, total	0.662	0.050	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	83.5 %	70-130			"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	

Oil & Grease by 9071B

Oil and Grease, Total (HEM)	ND	600	mg/Kg	1	503840		07/05/2016	Ua
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Total Solids by 160.3 Modified

Solids, Total	79	0.1	%	1	503838	"	07/05/2016	
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Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

BH05-16 @ 42.5-43.5
6/30/2016 10:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X607001-02 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6G0102	07/01/2016	07/01/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	98.7 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6G0101	07/01/2016	07/01/2016	U
Benzene	0.004	0.002	"	"	"	"	"	
Toluene	0.004	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	88.8 %	70-130			"	"	"	
Surrogate: Toluene-d8	95.4 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	106 %	70-130			"	"	"	

Oil & Grease by 9071B

Oil and Grease, Total (HEM)	ND	580	mg/Kg	1	503840		07/05/2016	Ua
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Total Solids by 160.3 Modified

Solids, Total	84	0.1	%	1	503838	"	07/05/2016	
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Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

BH06-16 @ 26-27
6/30/2016 2:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X607001-03 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B6G0102	07/01/2016	07/01/2016	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: o-Terphenyl	95.4 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	19.7	5.00	mg/kg	25	B6G0101	07/01/2016	07/01/2016	
Benzene	1.28	0.050	"	"	"	"	"	
Toluene	2.60	0.050	"	"	"	"	"	
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	0.376	0.050	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	83.7 %	70-130			"	"	"	
Surrogate: Toluene-d8	99.4 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	107 %	70-130			"	"	"	

Oil & Grease by 9071B

Oil and Grease, Total (HEM)	940	840	mg/Kg	1	503840		07/05/2016	
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Total Solids by 160.3 Modified

Solids, Total	58	0.1	%	1	503838	"	07/05/2016	
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Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

BH06-16 @ 42-43
6/30/2016 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X607001-04 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6G0102	07/01/2016	07/01/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 80.6 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6G0101	07/01/2016	07/01/2016	U
Benzene	0.002	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 87.6 % 70-130 " " "
Surrogate: Toluene-d8 95.1 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 108 % 70-130 " " "

Oil & Grease by 9071B

Oil and Grease, Total (HEM)	ND	570	mg/Kg	1	503840		07/05/2016	Ua
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Total Solids by 160.3 Modified

Solids, Total	84	0.1	%	1	503838	"	07/05/2016	
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Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

BH07-16 @ 20-21
6/30/2016 4:51:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X607001-05 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6G0102	07/01/2016	07/01/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	88.4 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	232	5.00	mg/kg	25	B6G0101	07/01/2016	07/01/2016	
Benzene	0.160	0.050	"	"	"	"	"	
Toluene	0.490	0.050	"	"	"	"	"	
Ethylbenzene	0.052	0.050	"	"	"	"	"	
Xylenes, total	0.130	0.050	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	85.4 %	70-130			"	"	"	
Surrogate: Toluene-d8	96.6 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	111 %	70-130			"	"	"	

Oil & Grease by 9071B

Oil and Grease, Total (HEM)	ND	600	mg/Kg	1	503840		07/05/2016	Ua
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Total Solids by 160.3 Modified

Solids, Total	71	0.1	%	1	503838	"	07/05/2016	
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Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

BH07-16 @ 42-43
6/30/2016 5:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X607001-06 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6G0102	07/01/2016	07/01/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 80.4 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6G0101	07/01/2016	07/01/2016	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 88.0 % 70-130 " " "
Surrogate: Toluene-d8 95.3 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 108 % 70-130 " " "

Oil & Grease by 9071B

Oil and Grease, Total (HEM)	ND	600	mg/Kg	1	503840		07/05/2016	Ua
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Total Solids by 160.3 Modified

Solids, Total	83	0.1	%	1	503838	"	07/05/2016	
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Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B6G0101 - EPA 5030 (soil)										
Blank (B6G0101-BLK1)					Prepared: 07/01/2016 Analyzed: 07/01/2016					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	55		ug/kg	62.5		87.5	70-130			
Surrogate: Toluene-d8	59		"	62.5		95.0	70-130			
Surrogate: 4-Bromofluorobenzene	67		"	62.5		108	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B6G0101 - EPA 5030 (soil)										
LCS (B6G0101-BS1)					Prepared: 07/01/2016 Analyzed: 07/01/2016					
Benzene	0.101	0.002	mg/kg	0.100		101	77.1-124			
Toluene	0.085	0.002	"	0.100		85.1	74.5-128			
Ethylbenzene	0.095	0.002	"	0.100		95.3	66.4-127			
m,p-Xylene	0.182	0.004	"	0.200		90.8	76.6-124			
o-Xylene	0.083	0.002	"	0.100		82.5	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	53		ug/kg	62.5		85.1	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		105	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6G0101 - EPA 5030 (soil)

Matrix Spike (B6G0101-MS1)		Source: X607001-02			Prepared: 07/01/2016 Analyzed: 07/01/2016					
Benzene	0.103	0.002	mg/kg	0.100	0.004	98.3	71.8-126			
Toluene	0.092	0.002	"	0.100	0.004	87.8	65.1-130			
Ethylbenzene	0.114	0.002	"	0.100	ND	114	62.2-130			
m,p-Xylene	0.220	0.004	"	0.200	ND	110	46.5-137			
o-Xylene	0.094	0.002	"	0.100	0.0005	93.0	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	53		ug/kg	62.5		84.6	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		105	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6G0101 - EPA 5030 (soil)

Matrix Spike Dup (B6G0101-MSD1)		Source: X607001-02			Prepared: 07/01/2016 Analyzed: 07/01/2016					
Benzene	0.100	0.002	mg/kg	0.100	0.004	95.3	71.8-126	2.97	11.3	
Toluene	0.091	0.002	"	0.100	0.004	86.7	65.1-130	1.16	15.4	
Ethylbenzene	0.107	0.002	"	0.100	ND	107	62.2-130	5.86	19.6	
m,p-Xylene	0.208	0.004	"	0.200	ND	104	46.5-137	5.45	19.2	
o-Xylene	0.090	0.002	"	0.100	0.0005	89.7	54.2-134	3.61	17.9	
Surrogate: 1,2-Dichloroethane-d4	55		ug/kg	62.5		88.1	70-130			
Surrogate: Toluene-d8	65		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		106	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Extractable Petroleum Hydrocarbons by 8015C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6G0102 - EPA 3580

Blank (B6G0102-BLK1)

Prepared: 07/01/2016 Analyzed: 07/01/2016

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	49		"	50.0		97.5	59-131			

LCS (B6G0102-BS1)

Prepared: 07/01/2016 Analyzed: 07/01/2016

Diesel (C10-C28)	1020	50.0	mg/kg	1000		102	64-121			
Residual Range Organics (C28-C40)	1200	200	"	1000		120	58-124			
Surrogate: o-Terphenyl	48		"	50.0		95.9	59-131			

Matrix Spike (B6G0102-MS1)

Source: X607001-02

Prepared: 07/01/2016 Analyzed: 07/01/2016

Diesel (C10-C28)	1000	50.0	mg/kg	1000	ND	100	53-125			
Residual Range Organics (C28-C40)	1100	200	"	1000	32.2	107	47-133			
Surrogate: o-Terphenyl	54		"	50.0		108	59-131			

Matrix Spike Dup (B6G0102-MSD1)

Source: X607001-02

Prepared: 07/01/2016 Analyzed: 07/01/2016

Diesel (C10-C28)	862	50.0	mg/kg	1000	ND	86.2	53-125	15.0	20	
Residual Range Organics (C28-C40)	942	200	"	1000	32.2	90.9	47-133	16.5	20	
Surrogate: o-Terphenyl	48		"	50.0		95.8	59-131			

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

Oil & Grease by 9071B - Quality Control ALG-J

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 503840 -										
Blank (1-BLK)		Source: 1-BLK								
Oil and Grease, Total (HEM)	ND	500	mg/Kg				-			Ua
LCS (1-LCS)		Source: 1-LCS								
Oil and Grease, Total (HEM)	3840	500	mg/Kg	4000		96	70-130			
LCSD (1-LCSD)		Source: 1-LCSD								
Oil and Grease, Total (HEM)	3820	500	mg/Kg	4000		96	70-130	<1	20	

Origins Laboratory, Inc.



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Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: 88798693

Project: KMG - Mitchell Compressor Station

Notes and Definitions

Ua The compound was analyzed for, but was not detected (Non-detect) at or above the MRL/MDL.

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

July 07, 2016

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver

CO 80211

**Project Name - KMG - Mitchell Compressor
Station**

Project Number - 88798693

Attached are your analytical results for KMG - Mitchell Compressor Station received by Origins Laboratory, Inc. July 01, 2016. This project is associated with Origins project number X607023-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: 88798693

Project: KMG - Mitchell Compressor Station

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH08-16 @ 20.5-22	X607023-01	Soil	July 1, 2016 9:23	07/01/2016 15:30
BH08-16 @ 42-43	X607023-02	Soil	July 1, 2016 10:15	07/01/2016 15:30
BH09-16 @ 16-17	X607023-03	Soil	July 1, 2016 11:41	07/01/2016 15:30
BH09-16 @ 33-34	X607023-04	Soil	July 1, 2016 12:40	07/01/2016 15:30

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

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page 1 of 1

X607073

Client: APC

Project Manager: Robert Cornez

Project Name: Mitchell Compressor Station

Project Number: 88798693

Samples Collected By: Zach Mastey

Telephone Number: 303-889-9525

Email Address: rcornez@tasman-geo.com

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis				Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa	Other	TPH-DRA	TPH-8015C	LABTEX 8210	
B408-16205-22	7/1/16	0923	2	X				X				X	X	1	
B408-16242-43	7/1/16	1015	2	X				X				X	X	2	
B409-16216-17	7/1/16	1141	2	X				X				X	X	3	
B409-16233-34	7/1/16	1240	2	X				X				X	X	4	
														5	
														6	
														7	
														8	
														9	
														10	

Relinquished By: Zach Mastey Date: 7/1/16 Time: 1519

Relinquished By: _____ Date: _____ Time: _____

Received By: [Signature] Date: 7.1.16 Time: 1530

Received By: _____ Date: _____ Time: _____

Turnaround Time: ☒ Same Day ☐ 24 Hr ☐ 48 Hr ☐ 72 Hr ☐ Standard

Origins Laboratory, Inc.

Jefe Pellegrini

Jen Pellegrini For Noelle Doyle Mathis, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

Origins Laboratory

F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: 260703

Client: Tasman

Client Project ID: Mitchell Compressor Station

Checklist Completed by: Jeff Smith

Shipped Via: Hand Pick Up
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 7/11/12

Airbill #: NA

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: _____

Cooler Number/Temperature: 1 / 7.2 °C 1 / _____ °C 1 / _____ °C (Describe) _____ °C

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) / (pH < 2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) Jeff Smith

Date/Time Reviewed 7/11/12

Origins Laboratory, Inc.

Jeff Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

BH08-16 @ 20.5-22
7/1/2016 9:23:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X607023-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6G0102	07/01/2016	07/01/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 64.1 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	116	5.00	mg/kg	25	B6G0101	07/01/2016	07/01/2016	
Benzene	0.870	0.050	"	"	"	"	"	
Toluene	0.242	0.050	"	"	"	"	"	
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	1.38	0.050	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 87.1 % 70-130 " " "
Surrogate: Toluene-d8 101 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

Oil & Grease by 9071B

Oil and Grease, Total (HEM)	ND	880	mg/Kg	1	503840		07/05/2016	Ua
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Total Solids by 160.3 Modified

Solids, Total	58	0.1	%	1	503838	"	07/05/2016	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

BH08-16 @ 42-43
7/1/2016 10:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X607023-02 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6G0102	07/01/2016	07/01/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	75.7 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B6G0101	07/01/2016	07/01/2016	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	89.0 %	70-130			"	"	"	
Surrogate: Toluene-d8	97.3 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %	70-130			"	"	"	

Oil & Grease by 9071B

Oil and Grease, Total (HEM)	ND	580	mg/Kg	1	503840		07/05/2016	Ua
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Total Solids by 160.3 Modified

Solids, Total	85	0.1	%	1	503838	"	07/05/2016	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

BH09-16 @ 16-17
7/1/2016 11:41:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X607023-03 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6G0102	07/01/2016	07/01/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 66.8 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	64.1	5.00	mg/kg	25	B6G0101	07/01/2016	07/01/2016	
Benzene	0.362	0.050	"	"	"	"	"	
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 88.2 % 70-130 " " "
Surrogate: Toluene-d8 100 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 105 % 70-130 " " "

Oil & Grease by 9071B

Oil and Grease, Total (HEM)	ND	620	mg/Kg	1	503840		07/05/2016	Ua
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Total Solids by 160.3 Modified

Solids, Total	80	0.1	%	1	503838	"	07/05/2016	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

BH09-16 @ 33-34
7/1/2016 12:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X607023-04 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6G0102	07/01/2016	07/01/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 74.6 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B6G0101	07/01/2016	07/01/2016	U
Benzene	0.126	0.050	"	"	"	"	"	
Toluene	0.109	0.050	"	"	"	"	"	
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 87.4 % 70-130 " " "
Surrogate: Toluene-d8 98.8 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

Oil & Grease by 9071B

Oil and Grease, Total (HEM)	ND	580	mg/Kg	1	503840		07/05/2016	Ua
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Total Solids by 160.3 Modified

Solids, Total	80	0.1	%	1	503838	"	07/05/2016	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B6G0101 - EPA 5030 (soil)										
Blank (B6G0101-BLK1)					Prepared: 07/01/2016 Analyzed: 07/01/2016					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	55		ug/kg	62.5		87.5	70-130			
Surrogate: Toluene-d8	59		"	62.5		95.0	70-130			
Surrogate: 4-Bromofluorobenzene	67		"	62.5		108	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B6G0101 - EPA 5030 (soil)										
LCS (B6G0101-BS1)					Prepared: 07/01/2016 Analyzed: 07/01/2016					
Benzene	0.101	0.002	mg/kg	0.100		101	77.1-124			
Toluene	0.085	0.002	"	0.100		85.1	74.5-128			
Ethylbenzene	0.095	0.002	"	0.100		95.3	66.4-127			
m,p-Xylene	0.182	0.004	"	0.200		90.8	76.6-124			
o-Xylene	0.083	0.002	"	0.100		82.5	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	53		ug/kg	62.5		85.1	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		105	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6G0101 - EPA 5030 (soil)

Matrix Spike (B6G0101-MS1)		Source: X607001-02			Prepared: 07/01/2016 Analyzed: 07/01/2016					
Benzene	0.103	0.002	mg/kg	0.100	0.004	98.3	71.8-126			
Toluene	0.092	0.002	"	0.100	0.004	87.8	65.1-130			
Ethylbenzene	0.114	0.002	"	0.100	ND	114	62.2-130			
m,p-Xylene	0.220	0.004	"	0.200	ND	110	46.5-137			
o-Xylene	0.094	0.002	"	0.100	0.0005	93.0	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	53		ug/kg	62.5		84.6	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		105	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6G0101 - EPA 5030 (soil)

Matrix Spike Dup (B6G0101-MSD1)		Source: X607001-02			Prepared: 07/01/2016 Analyzed: 07/01/2016					
Benzene	0.100	0.002	mg/kg	0.100	0.004	95.3	71.8-126	2.97	11.3	
Toluene	0.091	0.002	"	0.100	0.004	86.7	65.1-130	1.16	15.4	
Ethylbenzene	0.107	0.002	"	0.100	ND	107	62.2-130	5.86	19.6	
m,p-Xylene	0.208	0.004	"	0.200	ND	104	46.5-137	5.45	19.2	
o-Xylene	0.090	0.002	"	0.100	0.0005	89.7	54.2-134	3.61	17.9	
Surrogate: 1,2-Dichloroethane-d4	55		ug/kg	62.5		88.1	70-130			
Surrogate: Toluene-d8	65		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		106	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Extractable Petroleum Hydrocarbons by 8015C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6G0102 - EPA 3580

Blank (B6G0102-BLK1)

Prepared: 07/01/2016 Analyzed: 07/01/2016

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	49		"	50.0		97.5	59-131			

LCS (B6G0102-BS1)

Prepared: 07/01/2016 Analyzed: 07/01/2016

Diesel (C10-C28)	1020	50.0	mg/kg	1000		102	64-121			
Residual Range Organics (C28-C40)	1200	200	"	1000		120	58-124			
Surrogate: o-Terphenyl	48		"	50.0		95.9	59-131			

Matrix Spike (B6G0102-MS1)

Source: X607001-02

Prepared: 07/01/2016 Analyzed: 07/01/2016

Diesel (C10-C28)	1000	50.0	mg/kg	1000	ND	100	53-125			
Residual Range Organics (C28-C40)	1100	200	"	1000	32.2	107	47-133			
Surrogate: o-Terphenyl	54		"	50.0		108	59-131			

Matrix Spike Dup (B6G0102-MSD1)

Source: X607001-02

Prepared: 07/01/2016 Analyzed: 07/01/2016

Diesel (C10-C28)	862	50.0	mg/kg	1000	ND	86.2	53-125	15.0	20	
Residual Range Organics (C28-C40)	942	200	"	1000	32.2	90.9	47-133	16.5	20	
Surrogate: o-Terphenyl	48		"	50.0		95.8	59-131			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: 88798693
Project: KMG - Mitchell Compressor Station

Oil & Grease by 9071B - Quality Control ALG-J

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 503840 -										
Blank (1-BLK)		Source: 1-BLK								
Oil and Grease, Total (HEM)	ND	500	mg/Kg				-			Ua
LCS (1-LCS)		Source: 1-LCS								
Oil and Grease, Total (HEM)	3840	500	mg/Kg	4000		96	70-130			
LCSD (1-LCSD)		Source: 1-LCSD								
Oil and Grease, Total (HEM)	3820	500	mg/Kg	4000		96	70-130	<1	20	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: 88798693

Project: KMG - Mitchell Compressor Station

Notes and Definitions

Ua The compound was analyzed for, but was not detected (Non-detect) at or above the MRL/MDL.

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President

August 11, 2016

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver

CO 80211

**Project Name - KMG - Mitchell Compressor
Station**

Project Number - [none]

Attached are your analytical results for KMG - Mitchell Compressor Station received by Origins Laboratory, Inc. August 09, 2016. This project is associated with Origins project number X608087-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: [none]

Project: KMG - Mitchell Compressor Station

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH07-16-08/09/16	X608087-01	Water	August 9, 2016 10:45	08/09/2016 12:36
BH08-16-08/09/16	X608087-02	Water	August 9, 2016 11:30	08/09/2016 12:36
BH09-16-08/09/16	X608087-03	Water	August 9, 2016 12:15	08/09/2016 12:36

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Mitchell Compressor Station

www.originslaboratory.com

page 1 of 1

ORIGINS
LABORATORY, INC

Client: APC

Address: —

Telephone Number: 9704709042

Email Address: rcornez@tasmangeo.com

X608087

Project Manager: Bob Cornez

Project Name: Mitchell Compressor Station

Project Number: R1 ZM

Samples Collected By: R1 ZM

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #			
BH07-16-08/09/16	8/9/16	1045	3		X			X				8260 Other	1
BH08-16-08/09/16	8/9/16	1130	3		X			X					2
BH09-16-08/09/16	8/9/16	1215	3		X			X					3
													4
													5
													6
													7
													8
													9
													10

Released By: [Signature]

Released By: [Signature]

Date: 8/9/16

Date: 8/9/16

Time: 1236

Time: 1236

Received By: [Signature]

Received By: [Signature]

Date: 8/9/16

Date: 8/9/16

Time: 1236

Time: 1236

Turnaround Time: Same Day ☐ 24 Hr ☐ 48 Hr ☒ 72 Hr ☐ Standard ☒ *MRK*

Temp Received: 6.7 Date Results Needed

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Mitchell Compressor Station

Origins Laboratory

F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: X608087

Client: Tasman

Client Project ID: Mitchell Compressor Station

Checklist Completed by: Jef Smith

Shipped Via: A/D

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 8/9/14

Airbill #: NA

Matrix(s) Received: (Check all that apply): Soil/Solid ☒ Water ☐ Other: ☐

Cooler Number/Temperature: 1 10.7 °C 1 °C 1 °C (Describe) 1 °C

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		<input checked="" type="checkbox"/>		<u>Sampled Same Day</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH < 2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>			<u>HCC</u>
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Jef Smith
Reviewed by (Project Manager)

8/9/14
Date/Time Reviewed

Origins Laboratory, Inc.

Jef Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Mitchell Compressor Station

BH07-16-08/09/16

8/9/2016 10:45:00AM

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

Origins Laboratory, Inc.
X608087-01 (Water)

BTEX by EPA 8260C

Benzene	5200	50.0	ug/L	50	B6H0908	08/09/2016	08/10/2016
Toluene	177	4.00	"	4	"	"	08/10/2016
Ethylbenzene	176	4.00	"	"	"	"	"
Xylenes, total	1500	4.00	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	107 %	84-121			"	"	"
Surrogate: Toluene-d8	101 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	93.5 %	84-114			"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Mitchell Compressor Station

BH08-16-08/09/16

8/9/2016 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X608087-02 (Water)

BTEX by EPA 8260C

Benzene	1260	50.0	ug/L	50	B6H0908	08/09/2016	08/10/2016
Toluene	24.8	4.00	"	4	"	"	08/10/2016
Ethylbenzene	4.44	4.00	"	"	"	"	"
Xylenes, total	57.6	4.00	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	109 %	84-121			"	"	"
Surrogate: Toluene-d8	98.5 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	92.8 %	84-114			"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Mitchell Compressor Station

BH09-16-08/09/16

8/9/2016 12:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X608087-03 (Water)

BTEX by EPA 8260C

Benzene	26700	500	ug/L	500	B6H0908	08/09/2016	08/11/2016
Toluene	9380	500	"	"	"	"	"
Ethylbenzene	190	4.00	"	4	"	"	08/10/2016
Xylenes, total	965	4.00	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	100 %	84-121			"	"	08/11/2016
Surrogate: Toluene-d8	98.6 %	85-115			"	"	08/10/2016
Surrogate: 4-Bromofluorobenzene	91.3 %	84-114			"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Mitchell Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6H0908 - EPA 5030B (Water)

Blank (B6H0908-BLK1)

Prepared: 08/09/2016 Analyzed: 08/09/2016

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	69		"	62.5	111		84-121			
Surrogate: Toluene-d8	60		"	62.5	95.7		85-115			
Surrogate: 4-Bromofluorobenzene	66		"	62.5	105		84-114			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Mitchell Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6H0908 - EPA 5030B (Water)

LCS (B6H0908-BS1)

Prepared: 08/09/2016 Analyzed: 08/09/2016

Benzene	51.2	1.00	ug/L	50.0		102	73.3-129			
Toluene	47.7	1.00	"	50.0		95.5	76.2-123			
Ethylbenzene	48.7	1.00	"	50.0		97.3	73.6-130			
m,p-Xylene	98.0	2.00	"	100		98.0	76.1-126			
o-Xylene	49.3	1.00	"	50.0		98.6	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	70		"	62.5		113	84-121			
Surrogate: Toluene-d8	61		"	62.5		97.7	85-115			
Surrogate: 4-Bromofluorobenzene	67		"	62.5		107	84-114			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Mitchell Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6H0908 - EPA 5030B (Water)

Matrix Spike (B6H0908-MS1)		Source: X608090-02			Prepared: 08/09/2016 Analyzed: 08/09/2016					
Benzene	50.8	1.00	ug/L	50.0	ND	102	74-130			
Toluene	47.0	1.00	"	50.0	ND	94.1	73-131			
Ethylbenzene	48.4	1.00	"	50.0	ND	96.7	76-132			
m,p-Xylene	97.2	2.00	"	100	ND	97.2	69-139			
o-Xylene	49.1	1.00	"	50.0	ND	98.2	74-131			
Surrogate: 1,2-Dichloroethane-d4	71		"	62.5		114	84-121			
Surrogate: Toluene-d8	61		"	62.5		96.9	85-115			
Surrogate: 4-Bromofluorobenzene	67		"	62.5		107	84-114			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Mitchell Compressor Station

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

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

Batch B6H0908 - EPA 5030B (Water)

Matrix Spike Dup (B6H0908-MSD1)		Source: X608090-02			Prepared: 08/09/2016 Analyzed: 08/09/2016					
Benzene	51.9	1.00	ug/L	50.0	ND	104	74-130	2.12	20	
Toluene	48.2	1.00	"	50.0	ND	96.4	73-131	2.44	20	
Ethylbenzene	48.8	1.00	"	50.0	ND	97.6	76-132	0.865	20	
m,p-Xylene	98.4	2.00	"	100	ND	98.4	69-139	1.27	20	
o-Xylene	49.5	1.00	"	50.0	ND	99.1	74-131	0.851	20	
Surrogate: 1,2-Dichloroethane-d4	72		"	62.5		116	84-121			
Surrogate: Toluene-d8	61		"	62.5		97.4	85-115			
Surrogate: 4-Bromofluorobenzene	67		"	62.5		106	84-114			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Bob Cornez

Project Number: [none]

Project: KMG - Mitchell Compressor Station

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President

**ATTACHMENT B
BORHOLE / WELL
COMPLETION LOGS**



6899 Pecos Street, Unit C
Denver, Colorado 80221

CLIENT: Kerr-McGee Gathering LLC.

LOGGED BY: Eric Siegel

PROJECT MANAGER: Robert Cornez

DRILLING CONTRACTOR: Site Services

DRILLING EQUIPMENT: Split Stem Auger

DRILL BIT SIZE (INCHES): 8"

DATE STARTED - COMPLETED: 06/20/16 - 06/20/16

TOTAL WELL DEPTH (FT. BGS): 36

DEPTH TO WATER (FT. BGS): 31.36 (07/05/16) ▼

Mitchell Compressor Station

BORING / WELL ID: BH02-16

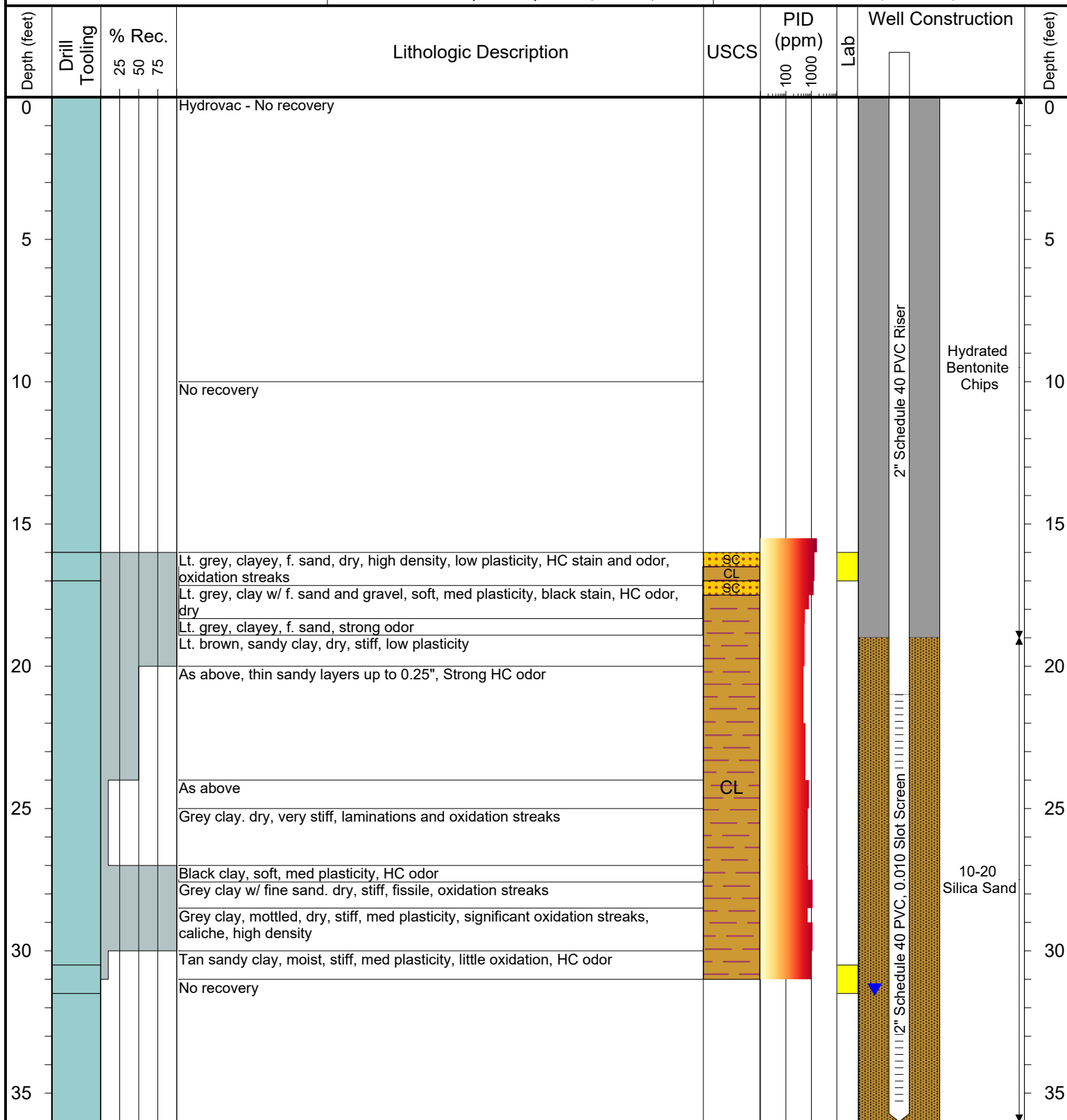
LOCATION: Arapahoe County, Colorado

NORTHING (CO STATE PLANE): 39.66513866

EASTING (CO STATE PLANE): -104.4542187

CASING ELEVATION (FT. AMSL): 5638.36

GROUND ELEVATION (FT. AMSL): 5638.66



Drilling / Sample Method:

Split Spoon Auger

Expendable Well Tip

Perforated Injection Tool

HydroPunch Groundwater Sampler

Laboratory Sample Types:

Geotechnical Lab

Analytical Chemistry Lab

Geotechnical & Analytical Chemistry Lab



6899 Pecos Street, Unit C
Denver, Colorado 80221

CLIENT: Kerr-McGee Gathering LLC.

LOGGED BY: Zach Mahaffey

PROJECT MANAGER: Robert Cornez

DRILLING CONTRACTOR: Site Services

DRILLING EQUIPMENT: Split Stem Auger

DRILL BIT SIZE (INCHES): 8"

DATE STARTED - COMPLETED: 06/27/16 - 06/27/16

TOTAL WELL DEPTH (FT. BGS): 44

DEPTH TO WATER (FT. BGS): 39.63 (07/05/16) ▼

Mitchell Compressor Station

BORING / WELL ID: BH03-16

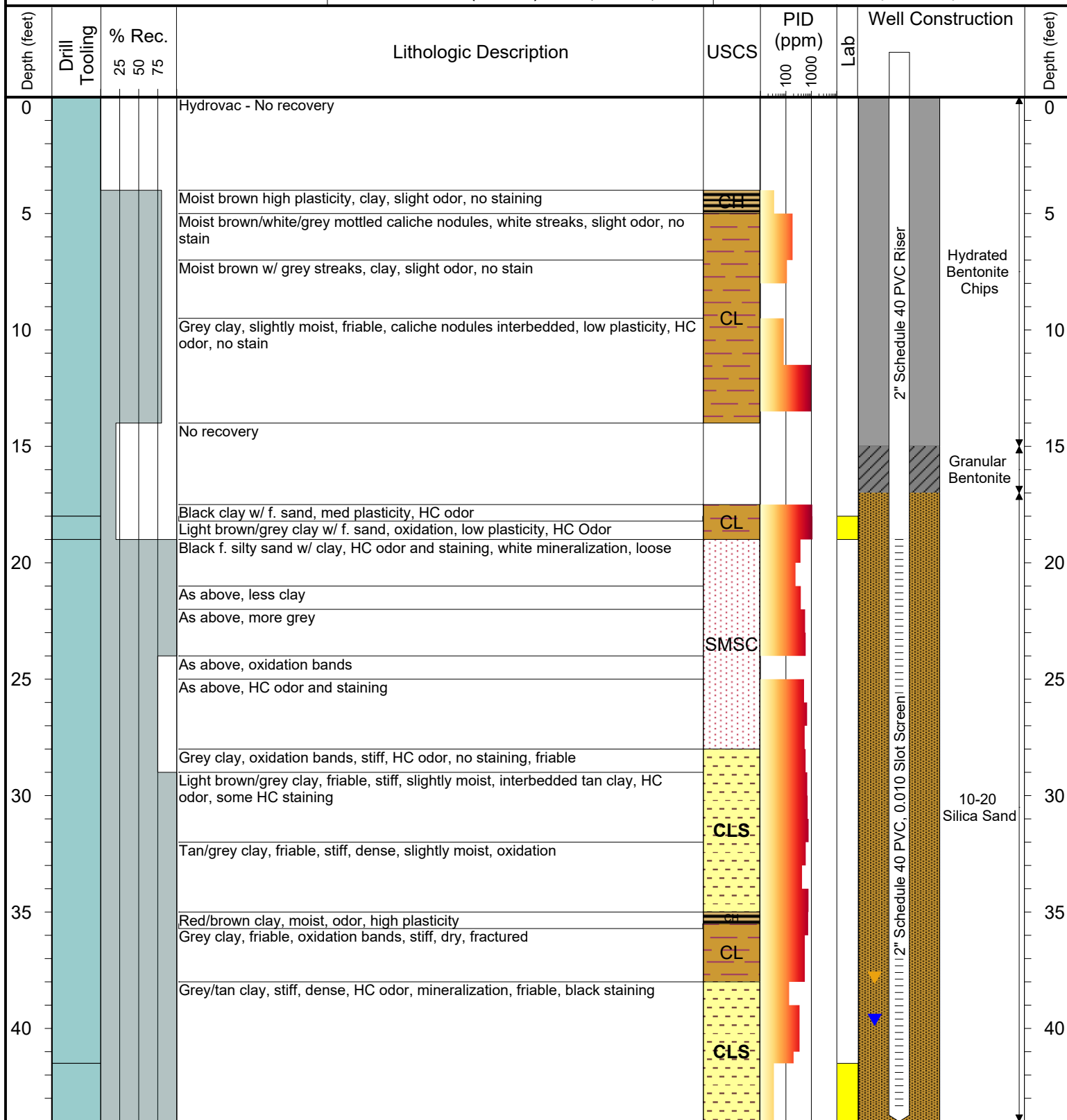
LOCATION: Arapahoe County, Colorado

NORTHING (CO STATE PLANE): 39.66514891

EASTING (CO STATE PLANE): -104.4541297

CASING ELEVATION (FT. AMSL): 5637.69

GROUND ELEVATION (FT. AMSL): 5638.16



Drilling / Sample Method:

Split Spoon Auger

Expendable Well Tip

Perforated Injection Tool

HydroPunch Groundwater Sampler

Laboratory Sample Types:

Geotechnical Lab

Analytical Chemistry Lab

Geotechnical & Analytical Chemistry Lab



6899 Pecos Street, Unit C
Denver, Colorado 80221

CLIENT: Kerr-McGee Gathering LLC.

LOGGED BY: Zach Mahaffey

PROJECT MANAGER: Robert Cornez

DRILLING CONTRACTOR: Site Services

DRILLING EQUIPMENT: Split Stem Auger

DRILL BIT SIZE (INCHES): 8"

DATE STARTED - COMPLETED: 06/28/16 - 06/28/16

TOTAL WELL DEPTH (FT. BGS): 45

DEPTH TO WATER (FT. BGS): 35.56 (07/05/16) ▼

Mitchell Compressor Station

BORING / WELL ID: BH04-16

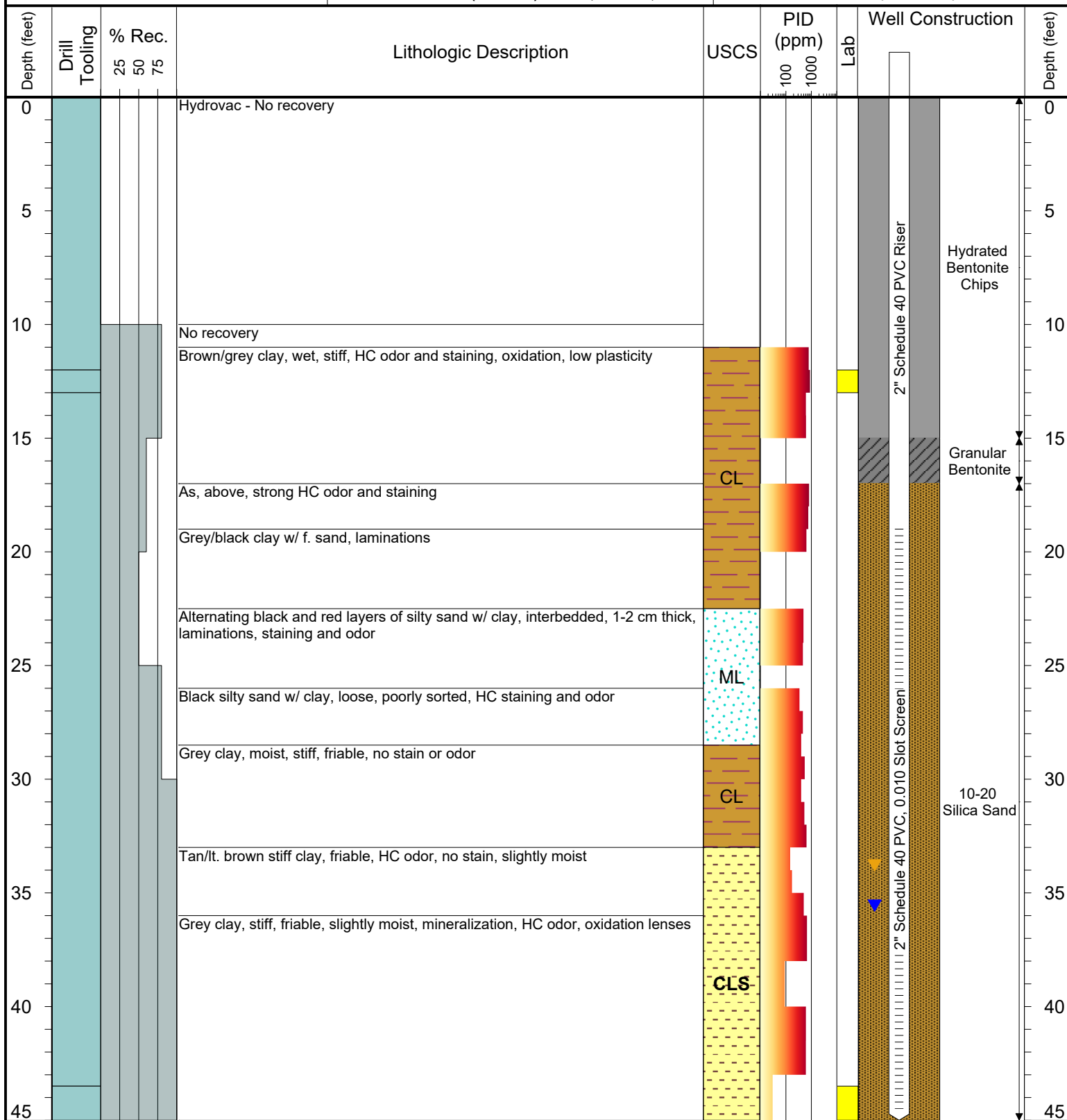
LOCATION: Arapahoe County, Colorado

NORTHING (CO STATE PLANE): 39.6652243

EASTING (CO STATE PLANE): -104.4541487

CASING ELEVATION (FT. AMSL): 5637.64

GROUND ELEVATION (FT. AMSL): 5638.15



Drilling / Sample Method:

Split Spoon Auger

Expendable Well Tip

Perforated Injection Tool

HydroPunch Groundwater Sampler

Laboratory Sample Types:

Geotechnical Lab

Analytical Chemistry Lab

Geotechnical & Analytical Chemistry Lab



6899 Pecos Street, Unit C
Denver, Colorado 80221

CLIENT: Kerr-McGee Gathering LLC.

LOGGED BY: Zach Mahaffey

PROJECT MANAGER: Robert Cornez

DRILLING CONTRACTOR: Site Services

DRILLING EQUIPMENT: Split Stem Auger

DRILL BIT SIZE (INCHES): 8"

DATE STARTED - COMPLETED: 06/30/16 - 06/30/16

TOTAL WELL DEPTH (FT. BGS): 43.5

DEPTH TO WATER (FT. BGS): 32.10 (07/05/16) ▼

Mitchell Compressor Station

BORING / WELL ID: BH05-16

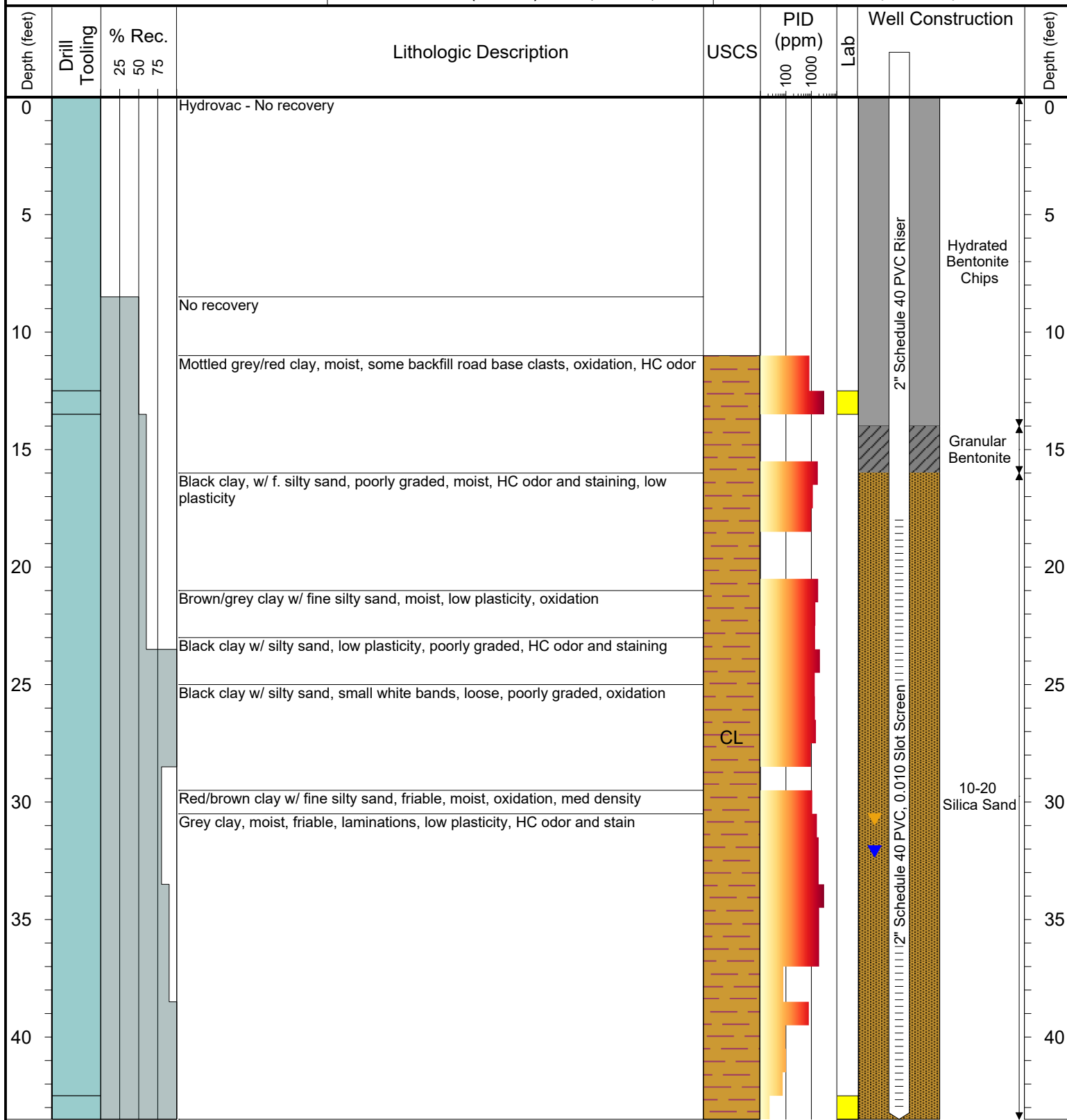
LOCATION: Arapahoe County, Colorado

NORTHING (CO STATE PLANE): 39.66527103

EASTING (CO STATE PLANE): -104.4541734

CASING ELEVATION (FT. AMSL): 5637.8

GROUND ELEVATION (FT. AMSL): 5638.26



Drilling / Sample Method:

- Split Spoon Auger
- Expendable Well Tip
- Perforated Injection Tool
- HydroPunch Groundwater Sampler

Laboratory Sample Types:

- Geotechnical Lab
- Analytical Chemistry Lab
- Geotechnical & Analytical Chemistry Lab



6899 Pecos Street, Unit C
Denver, Colorado 80221

CLIENT: Kerr-McGee Gathering LLC.

LOGGED BY: Zach Mahaffey

PROJECT MANAGER: Robert Cornez

DRILLING CONTRACTOR: Site Services

DRILLING EQUIPMENT: Split Stem Auger

DRILL BIT SIZE (INCHES): 8"

DATE STARTED - COMPLETED: 06/30/16 - 06/30/16

TOTAL WELL DEPTH (FT. BGS): 43

DEPTH TO WATER (FT. BGS): 30.51 (07/05/16) ▼

Mitchell Compressor Station

BORING / WELL ID: BH06-16

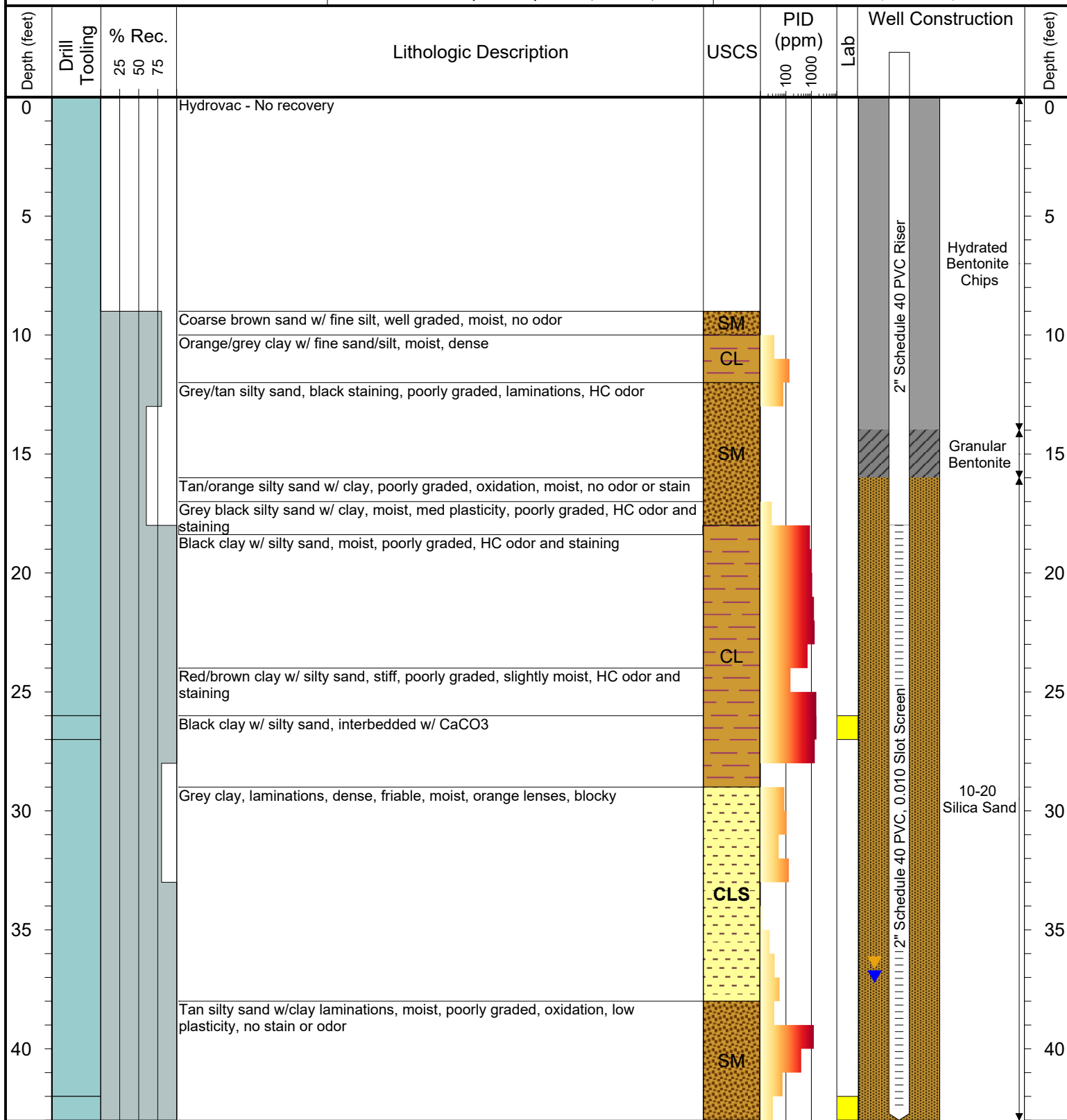
LOCATION: Arapahoe County, Colorado

NORTHING (CO STATE PLANE): 39.6651336

EASTING (CO STATE PLANE): -104.454359

CASING ELEVATION (FT. AMSL): 5639.28

GROUND ELEVATION (FT. AMSL): 5639.28



Drilling / Sample Method:

Split Spoon Auger

Expendable Well Tip

Perforated Injection Tool

HydroPunch Groundwater Sampler

Laboratory Sample Types:

Geotechnical Lab

Analytical Chemistry Lab

Geotechnical & Analytical Chemistry Lab



6899 Pecos Street, Unit C
Denver, Colorado 80221

CLIENT: Kerr-McGee Gathering LLC.

LOGGED BY: Zach Mahaffey

PROJECT MANAGER: Robert Cornez

DRILLING CONTRACTOR: Site Services

DRILLING EQUIPMENT: Split Stem Auger

DRILL BIT SIZE (INCHES): 8"

DATE STARTED - COMPLETED: 06/30/16 - 06/30/16

TOTAL WELL DEPTH (FT. BGS): 43

DEPTH TO WATER (FT. BGS): 36.05 (07/05/16) ▼

Mitchell Compressor Station

BORING / WELL ID: BH07-16

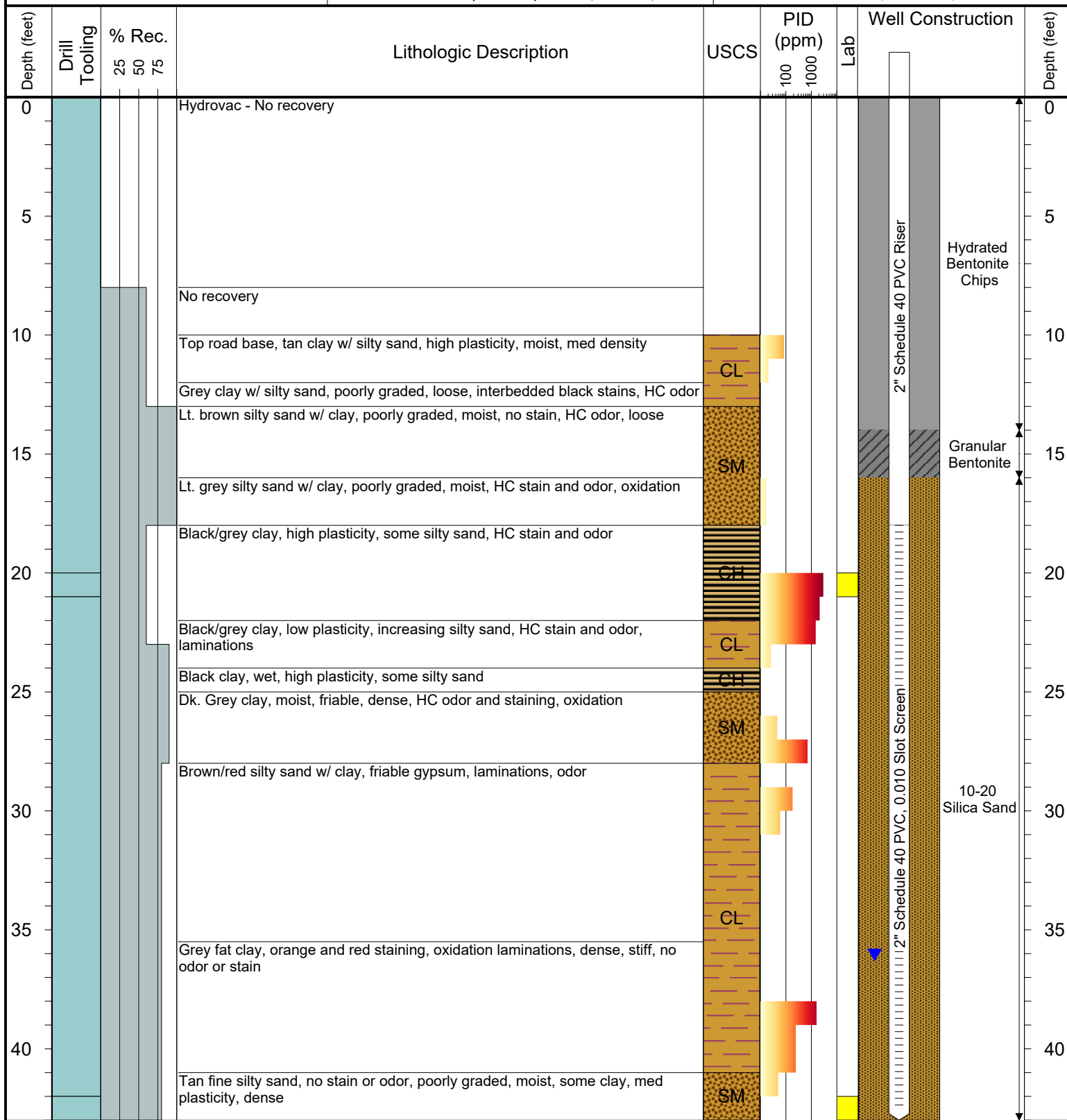
LOCATION: Arapahoe County, Colorado

NORTHING (CO STATE PLANE): 39.66518081

EASTING (CO STATE PLANE): -104.4543644

CASING ELEVATION (FT. AMSL): 5638.8

GROUND ELEVATION (FT. AMSL): 5639.28



Drilling / Sample Method:

Split Spoon Auger

Expendable Well Tip

Perforated Injection Tool

HydroPunch Groundwater Sampler

Laboratory Sample Types:

Geotechnical Lab

Analytical Chemistry Lab

Geotechnical & Analytical Chemistry Lab



6899 Pecos Street, Unit C
Denver, Colorado 80221

CLIENT: Kerr-McGee Gathering LLC.

LOGGED BY: Zach Mahaffey

PROJECT MANAGER: Robert Cornez

DRILLING CONTRACTOR: Site Services

DRILLING EQUIPMENT: Split Stem Auger

DRILL BIT SIZE (INCHES): 8"

DATE STARTED - COMPLETED: 07/01/16 -07/01/16

TOTAL WELL DEPTH (FT. BGS): 43

DEPTH TO WATER (FT. BGS): 34.51 (07/05/16) ▼

Mitchell Compressor Station

BORING / WELL ID: BH08-16

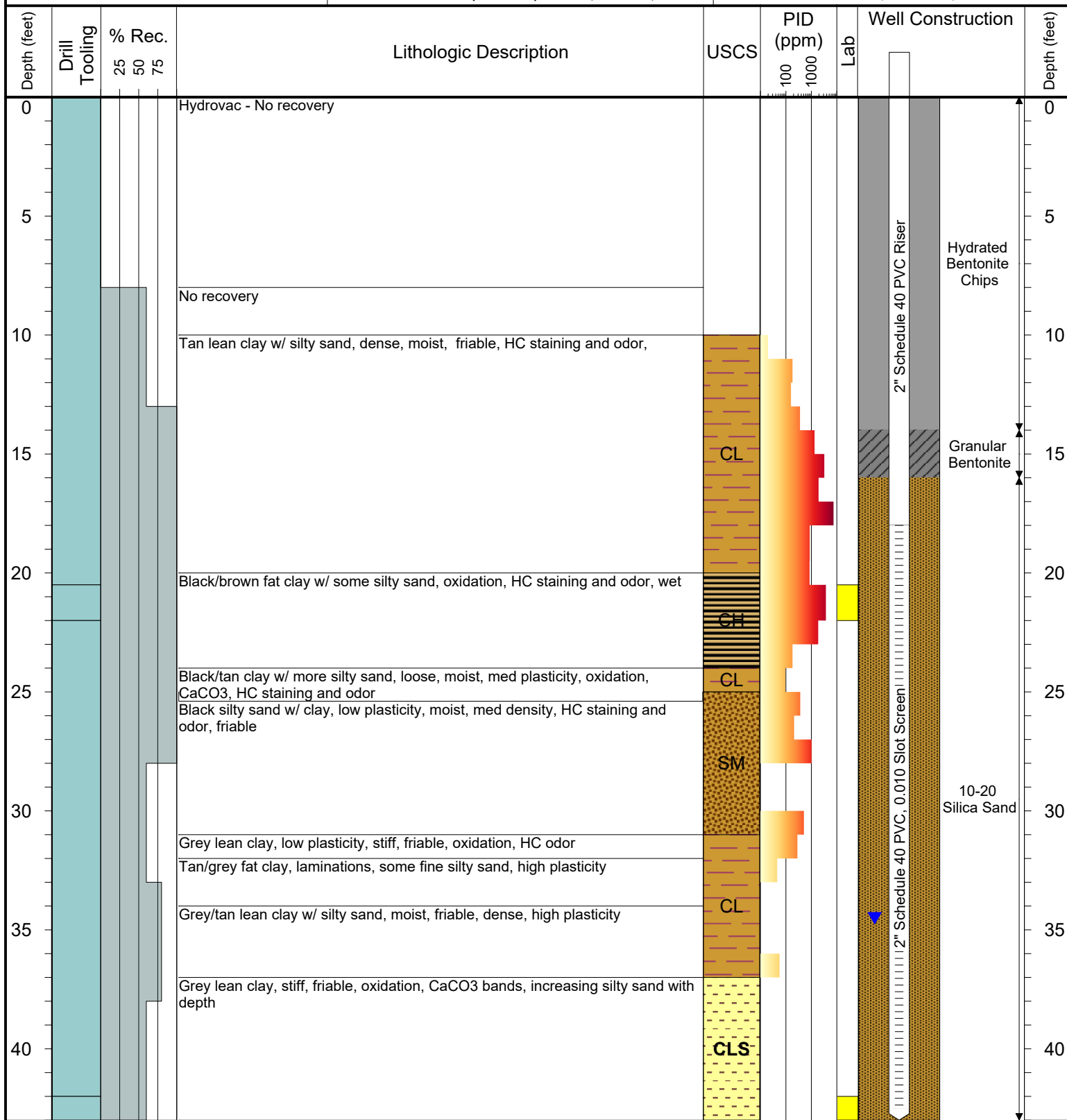
LOCATION: Arapahoe County, Colorado

NORTHING (CO STATE PLANE): 39.66527585

EASTING (CO STATE PLANE): -104.4543558

CASING ELEVATION (FT. AMSL): 5638.58

GROUND ELEVATION (FT. AMSL): 5639



Drilling / Sample Method:

Split Spoon Auger

Expendable Well Tip

Perforated Injection Tool

HydroPunch Groundwater Sampler

Laboratory Sample Types:

Geotechnical Lab

Analytical Chemistry Lab

Geotechnical & Analytical Chemistry Lab



6899 Pecos Street, Unit C
Denver, Colorado 80221

CLIENT: Kerr-McGee Gathering LLC.

LOGGED BY: Zach Mahaffey

PROJECT MANAGER: Robert Cornez

DRILLING CONTRACTOR: Site Services

DRILLING EQUIPMENT: Split Stem Auger

DRILL BIT SIZE (INCHES): 8"

DATE STARTED - COMPLETED: 07/01/16 -07/01/16

TOTAL WELL DEPTH (FT. BGS): 43

DEPTH TO WATER (FT. BGS): 36.96 (07/05/16) ▼

Mitchell Compressor Station

BORING / WELL ID: BH09-16

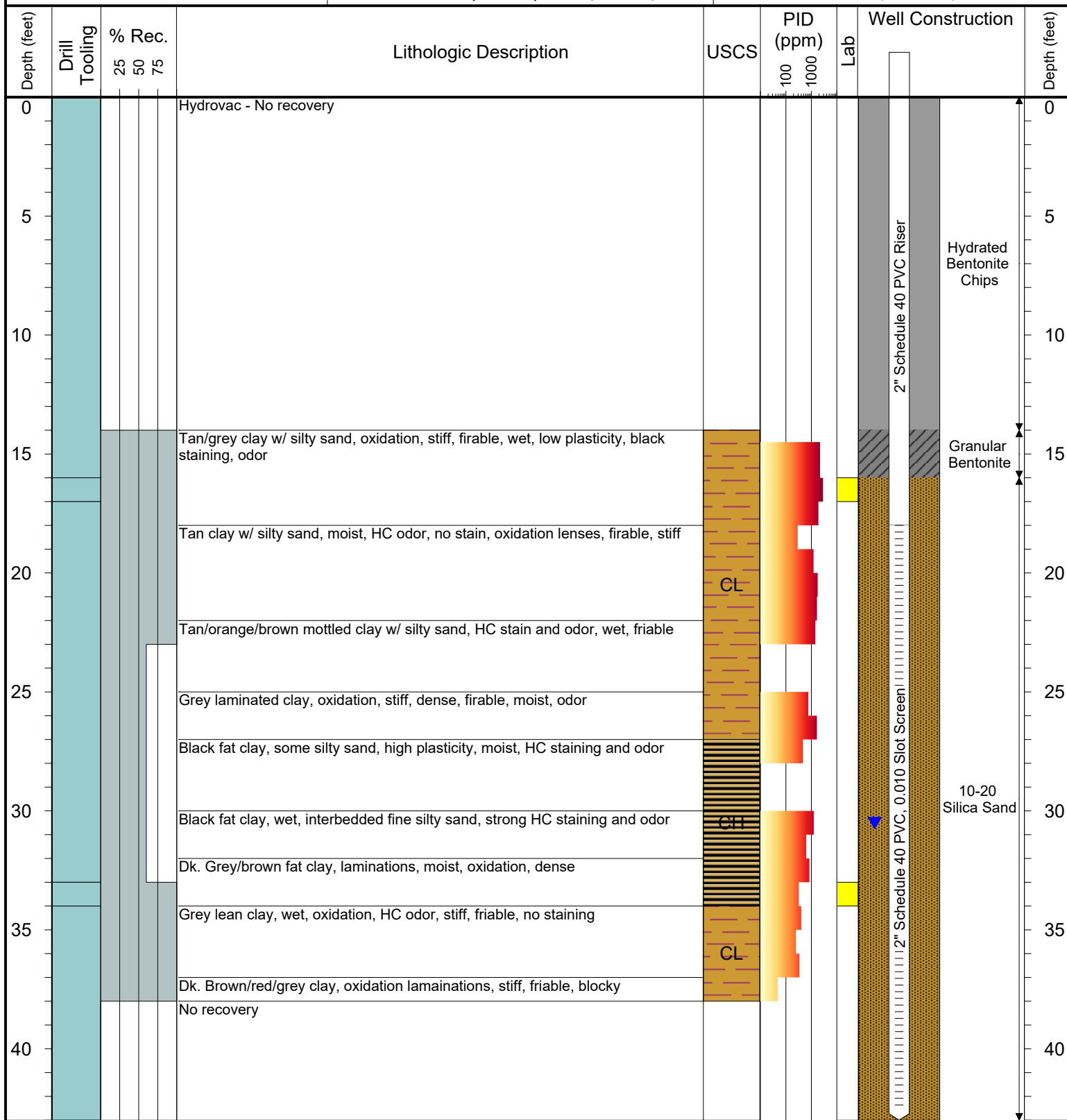
LOCATION: Arapahoe County, Colorado

NORTHING (CO STATE PLANE): 39.66538176

EASTING (CO STATE PLANE): -104.4542088

CASING ELEVATION (FT. AMSL): 5637.83

GROUND ELEVATION (FT. AMSL): 5638.16



Drilling / Sample Method:

- Split Spoon Auger
- Expendable Well Tip
- Perforated Injection Tool
- HydroPunch Groundwater Sampler

Laboratory Sample Types:

- Geotechnical Lab
- Analytical Chemistry Lab
- Geotechnical & Analytical Chemistry Lab