R. T. HICKS CONSULTANTS, LTD.

901 Rio Grande Blvd NW 🛦 Suite F-142 🛦 Albuquerque, NM 87104 🛦 505.266.5004 🛦 Fax: 505.266-0745

Nover	nber 27, 2013	HOBES OCD
NMOO	eoffrey Leking CD District 1 French Drive	DEC 02 2013
Hobbs Via E-	s, New Mexico 88240 mail	RECEIVED
RE:	Caza Operating, Caza Ridge "14" State 4H, API: 30-025-40936, Unit T23S R34E, In-place Burial Notice	P Section 14

Dear Geoffrey:

The "In-place Burial" closure plan for the above referenced pit was approved on February 13, 2013 by the NMOCD, prior to the establishment of the June 2013 pit rule. Construction and operation of the temporary pit has been conducted to satisfy the rule under which it was approved as well as the June 2013 rule. A modified closure plan, prepared using the June 2013 rule was submitted to the NMOCD on September 17, 2013 and approved on September 18, 2013.

On September 12, 2013 five-point composite samples were recovered from both the inner and outer cells of the pit, combined according to the appropriate waste volume in each cell, and stabilized with the available mixing soil at a 3:1 ratio. Laboratory analyses were performed to determine the concentrations of the parameters listed in Table II of 19.15.17.13 NMAC.

The table below shows that TPH (418.1) and Total BTEX from this sampling event exceed the standards set forth in the Rule. A decision was made to allow the waste to remain undisturbed in the pit for several weeks in order to allow aeration and natural attenuation to reduce the hydrocarbon concentrations of the waste before re-sampling. Please note that the TPH result is nearly 5 times higher than GRO+DRO+MRO.

Summary Comparison of Laboratory Results to Pit Rule Burial Standards	Sampling Date	Laboratory Results of Stabilized Waste Material (mg/kg)	19.15.17.13 NMAC Table II Depth to GW below waste > 100 Feet (mg/kg)	Estimated Maximum Mix Ratio Required To Achieve Pit Rule Burial Standard (must be <3:1)
GRO + DRO + MRO (EPA Method 8015M)	9/12/13	588	1,000	1.76 :1
TPH (EPA Method 418.1)	9/12/13	2,900	2,500	3.48 : 1
Chloride (EPA Method 300.0)	9/12/13	32,800	80,000	1.23 :1
Benzene (EPA Meth. 8021B or 8260B)	9/12/13	3.01	10	0.90 :1
Total BTEX (EPA Meth. 8021B or 8260B)	9/12/13	62.7	50	3.76:1

¹ (5) The operator shall collect, at a minimum, a five point composite of the contents of the temporary pit or drying pad/tank associated with a closed-loop system to demonstrate that, after the waste is solidified or stabilized with soil or other non-waste material at a ratio of no more than 3:1 soil or other non-waste material to waste, the concentration of any contaminant in the stabilized waste is not higher than the parameters in Table II of 19.15.17.13 NMAC.

November 27, 2013 Page 3

Due to a communication failure between RT Hicks Consultants and the dirt contractor, on or about October 22, 2013 the in-place closure began prior to formal NMOCD notification or approval. Upon discovering this, the pit closure activity was immediately terminated and a soil-sampling event was scheduled to determine the concentrations of the constituents that exceeded the standards from the previous sampling event.

On October 23, 2013 a five-point composite sample was recovered from the waste that had not yet been mixed by the dirt contractor. It is believed that this sample is conservative with respect to hydrocarbons, in that most of the undisturbed sample was located around the outer edge of the pit and therefore represents a higher percentage of material from the outer cell which contained oil from the flow-back. The composite sample was stabilized with the clean soil at a 3:1 ratio. Laboratory analyses were performed to determine the concentrations of TPH (418.1) and Total BTEX (8021B) for comparison to Table II of 19.15.17.13 NMAC.

The table below shows that only TPH (418.1) from this sampling event continued to exceed the standards set forth in the Rule. We did not have the laboratory to analyze this sample for GRO+DRO+MRO because the standard was met with the previous sample.

Summary Comparison of Laboratory Results to Pit Rule Burial Standards	Sampling Date	Laboratory Results of Stabilized Waste Material (mg/kg)	19.15.17.13 NMAC Table II Depth to GW below waste > 100 Feet (mg/kg)	Estimated Maximum Mix Ratio Required To Achieve Pit Rule Burial Standard (must be <3:1)
TPH (EPA Method 418.1)	10/23/13	3,300	2,500	3.96 :1
Benzene (EPA Meth. 8021B or 8260B)	10/23/13	1.21	10	0.36 :1
Total BTEX (EPA Meth. 8021B or 8260B)	10/23/13	37.1	50	2.23 :1

Upon consulting with Cardinal and Hall Environmental Laboratories, we found that the method employed by Cardinal to prepare the sample for analysis is different from that of Hall. We were concerned that Cardinal's method, which does not use a silica gel sieve prior to analysis, may not effectively eliminate organic mud additives (e.g. cellulose) and/or lost circulation material (e.g. cottonseed hulls) from the analytical result. Therefore, on November 12, 2013 a third sampling event was conducted for analysis by Hall. The composite soil sample was recovered from the entire pit and stabilized with clean soil at a 3:1 ratio. No effort was made to represent the correct volumes of the inner and outer cells, since the premature mixing had made that task virtually impossible. Rather, the purpose of the sample was to compare the results of an analysis of GRO+DRO+MRO by 8015D with the results of an analysis of TPH by 418.1 prepared using a silica gel sieve.

Hall Environmental Laboratories performed the laboratory analysis and the results are shown as follows:

GRO	DRO	MRO	TPH (8015D)	TPH (418.1)
(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
30	1,300	770	2,100	2,400

November 27, 2013 Page 3

RT Hicks Consultants believes that these results strongly indicate that an analysis of TPH by 418.1, when prepared using a silica gel sieve to remove the affects of the mud additives, provides a much better representation of the actual hydrocarbon contaminants than what we understand is an "oil and grease" method used by Cardinal Laboratories. For crude releases to sandy soil, an oil and grease method is probably fine. However, when non-petroleum organic compounds are present (e.g. drilling fluids), one should rely upon the more robust silica gel sieve technique or perhaps simply add GRO+DRO+MRO.

In light of these results, RT Hicks Consultants believes that the TPH by 418.1 analysis from the September 12, and October 23, 2013 sampling events should be disregarded in favor of the September 12, 2013 GRO+DRO+MRO results. On this bases be believe that the pit qualifies for closure under the current Rule and would like to move as quickly as possible to complete the closure.

In the future, RT Hicks Consultants will only perform analysis of TPH by 418.1 using the silica gel sieve preparation.

Sincerely, R.T. Hicks Consultants

al 7 httlyde

Dale Littlejohn

Copy: Caza Operating, LLC

New Mexico State Land Office PO Box 1148 Santa Fe, NM 87504-1148 CERTIFIED MAIL – RETURN RECEIPT REQUEST



October 03, 2013

DALE LITTLEJOHN R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE, NM 87104 HOBES OCD DEC 02 2013 RECEIVED

RE: CAZA RIDGE #4H

Enclosed are the results of analyses for samples received by the laboratory on 09/12/13 10:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104		Project: CAZA RIDGE #4H Project Number: NONE GIVEN Project Manager: DALE LITTLEJOHN Fax To: NONE		Reported: 03-Oct-13 10:13	
Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	
STABLE 3:1 MIX	H302211-01	Soil	12-Sep-13 08:50	12-Sep-13 10:30	

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

DEC 02 2013

Analytical Results For:

R T HICKS CONSULTANTS Project: CAZA RIDGE #4H 901 RIO GRANDE BLVD SUITE F-142 Project Number: NONE GIVEN ALBUQUERQUE NM, 87104 Project Manager: DALE LITTLEJOHN Fax To: NONE STABLE 3:1 MIX							Reported: 03-Oct-13 10:	13
		LE 3:1 211-01 (S						
Analyte Resul	Reporting t Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
	Cardina	l Labora	atories					
Inorganic Compounds								
Chloride 3280	16.0	mg/kg	4	3091602	AP	16-Sep-13	4500-CI-B	
Organic Compounds								
TPH 418.1 2900	100	mg/kg	10	3092605	СК	02-Oct-13	418.1	SUB-SS
Volatile Organic Compounds by EPA Method 8021								S-04
Benzene* 3.0	0.500	mg/kg	500	3091601	MS	17-Sep-13	8021B	
Toluene* 20.5	0.500	mg/kg	500	3091601	MS	17-Sep-13	8021B	
Ethylbenzene* 10.	0.500	mg/kg	500	3091601	MS	17-Sep-13	8021B	
Total Xylenes* 28.5	1.50	mg/kg	500	3091601	MS	17-Sep-13	8021B	
Total BTEX 62."	3.00	mg/kg	500	3091601	MS	17-Sep-13	8021B	
Surrogate: 4-Bromofluorobenzene (PID)	134 %	89.	4-126	3091601	MS	17-Sep-13	8021B	
Petroleum Hydrocarbons by GC FID								
GRO C6-C10 85.5	5 10.0	mg/kg	1	3091207	MS	13-Sep-13	8015B	
DRO >C10-C28 413	10.0	mg/kg	1	3091207	MS	13-Sep-13	8015B	
EXT DRO >C28-C35 89.2	2 10.0	mg/kg	1	3091207	MS	13-Sep-13	8015B	
Surrogate: 1-Chlorooctane	88.3 %	65.	2-140	3091207	MS	13-Sep-13	8015B	
Surrogate: 1-Chlorooctadecane	100 %	63.	6-154	3091207	MS	13-Sep-13	8015B	

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



SOT NO SIGNADE DEVD SOTTET THE	Project: CAZA RIDGE #4H Number: NONE GIVEN Manager: DALE LITTLEJOHN Fax To: NONE	Reported: 03-Oct-13 10:13
--------------------------------	---	------------------------------

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3091602 - 1:4 DI Water										
Blank (3091602-BLK1)				Prepared &	Analyzed:	16-Sep-13				
Chloride	ND	16.0	mg/kg							
LCS (3091602-BS1)				Prepared &	Analyzed:	16-Sep-13				
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (3091602-BSD1)				Prepared &	Analyzed:	16-Sep-13				
Chloride	432	16.0	mg/kg	400		108	80-120	3.77	20	

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 4 of 9



R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-14 ALBUQUERQUE NM, 87104	42	Project Nu Project Ma	imber:	CAZA RIDGI NONE GIVE DALE LITTL NONE	N		Reported: Oct-13 10):13
	Or	ganic Comp Cardin		- Quality C boratories				

Prepared & Analyzed: 02-Oct-13

Blank (3092605-BLK1)

TPH 418.1

10.0 mg/kg

ND

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 5 of 9



R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104	Project Number:	DALE LITTLEJOHN	Reported: 03-Oct-13 10:13
---	-----------------	-----------------	------------------------------

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardina	l La	borat	tories
---------	------	-------	--------

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3091601 - Volatiles										
Blank (3091601-BLK1)				Prepared &	Analyzed:	16-Sep-13				
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0571		mg/kg	0.0500		114	89.4-126			
LCS (3091601-BS1)				Prepared &	Analyzed:	16-Sep-13				
Benzene	1.98	0.050	mg/kg	2.00		99.0	76.4-135			
Toluene	2.14	0.050	mg/kg	2.00		107	80.2-135			
Ethylbenzene	2.27	0.050	mg/kg	2.00		113	78.5-133			
Total Xylenes	6.92	0.150	mg/kg	6.00		115	80.1-135			
Surrogate: 4-Bromofluorobenzene (PID)	0.0564		mg/kg	0.0500		113	89.4-126			
LCS Dup (3091601-BSD1)				Prepared &	Analyzed:	16-Sep-13				
Benzene	2.07	0.050	mg/kg	2.00		104	76.4-135	4.45	16.4	
Toluene	2.23	0.050	mg/kg	2.00		112	80.2-135	4.08	16.6	
Ethylbenzene	2.37	0.050	mg/kg	2.00		118	78.5-133	4.29	16.1	
Total Xylenes	7.12	0.150	mg/kg	6.00		119	80.1-135	2.88	15.8	
Surrogate: 4-Bromofluorobenzene (PID)	0.0582		mg/kg	0.0500		116	89.4-126			

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 6 of 9



901 RIO GRANDE BLVD SUITE F-142 Project Number ALBUQUERQUE NM, 87104 Project Manager	CAZA RIDGE #4H NONE GIVEN DALE LITTLEJOHN NONE	Reported: 03-Oct-13 10:13
--	---	------------------------------

Petroleum Hydrocarbons by GC FID - Quality Control

Card	linal	La	bora	tories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3091207 - General Prep - Organics										
Blank (3091207-BLK1)				Prepared &	Analyzed:	12-Sep-13				
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C35	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	37.9		mg/kg	50.0		75.9	65.2-140			
Surrogate: 1-Chlorooctadecane	43.7		mg/kg	50.0		87.4	63.6-154			
LCS (3091207-BS1)				Prepared &	Analyzed:	12-Sep-13				
GRO C6-C10	200	10.0	mg/kg	200		100	66.4-124			
DRO >C10-C28	192	10.0	mg/kg	200		96.1	61.6-132			
Total TPH C6-C28	392	10.0	mg/kg	400		98.0	69.7-122			
Surrogate: 1-Chlorooctane	44.2		mg/kg	50.0		88.4	65.2-140			
Surrogate: 1-Chlorooctadecane	49.4		mg/kg	50.0		98.7	63.6-154			
LCS Dup (3091207-BSD1)				Prepared &	Analyzed:	12-Sep-13				
GRO C6-C10	210	10.0	mg/kg	200		105	66.4-124	4.71	23.4	
DRO >C10-C28	200	10.0	mg/kg	200		99.8	61.6-132	3.84	23.1	
Total TPH C6-C28	409	10.0	mg/kg	400		102	69.7-122	4.29	20.6	
Surrogate: 1-Chlorooctane	46.9		mg/kg	50.0		93.8	65.2-140			
Surrogate: 1-Chlorooctadecane	52.5		mg/kg	50.0		105	63.6-154			

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

SUB-SS	Analysis subcontracted to SunStar Laboratories, Inc.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 8 of 9

	2
Lat	CA
oora	RD
ator	ž
, Ies	AL

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	Company Name: RT Hicks Consultants Ltd	unts Ltd							aturiorsa				:11	1914160	A second s					INAL	ANALYSIS	REQUEST	ST	1	1		
- rejeet manager			1						+-	1.0. #	3								_								
Muuresa.			1						+	ŝ	company.	IIY.		TT TIONS OUTSUIL	Tiout.												
City: Albuquerque	que	State: NM	Zip: 87104	87	10	-	.		-	Attn:		Krista	sta)						
Phone #: (432)	(432) 528-3878	Fax #: dale@rthicksconsult.com	thic	ksc	ons	ult	8	P	-	dd	res	ŝ	8	Address: 901 Rio G. F-	F-142				_		140						
Project #:		Project Owner: Caza Oper.	6	20	6	ð	3	•	-	ity		Alb	h	City: Albuquerque		8					ori						
Project Name:	Caza Ridge								10	tat	State: NM	N	>	Zip: 87104	++	JT					әр						
Project Location:	Lea	County New Mexico	6						-	ho	Phone #:	*	5	(505) 266-5004)4) X:)(30						_
Sampler Name:	Dale Littlejohn								_	Fax #:	*	ठ	0 H	k@rthicksconsult.com	lt.com	80		_			0.0						
FOR LAB USE ONLY				_		з	MATRIX	Ĩ			PRESERV.	SE	2	SAMPLING	G	12	อ	a	-	_	0 0						
Lab I.D.	Sample I.D.		G)RAB OR (C)OMP.	CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	DIL	SLUDGE	OTHER :	ACID/BASE:	CE / COOL	OTHER :	DATE	TIME	B or 8260B)	(Mðr08) OA	(M8108) OR	(M2108) OA	(1.814) H9T	er approved)						
	Stable 3:1	Mix		4				-	++	and the owner where the		- 1		a/12 0	058	<	<	<	4	<	<					+	
																										*	
analyses. All claims includin service. In no event shall Ca affiliates or successors arisin	I. Lexce two is: Leaving and Using sector and a sound and related to the sector of	ause whatsoever shall be de ause whatsoever shall be de puental damages, including v of services hereunder by Ca	without li rdinal, re	initatio egandl	unles on, bu	s mad siness wheth	e in w intern	niting uption	and r ns, los	eceive s of u	d by se, o	Cardi r loss	of the	o ure amount paid o /ithin 30 days after o offts incurred by clie e above stated reaso	a by the cilent for tr ir completion of the Ment, its subsidiaric	applicat as,	ble										
Relinquished By:	hutter	Time: 1030	Received By:			1.3	a	X	0	2	Benson	2	2	-	Phone Result: Fax Result: REMARKS:	ult:	□ Yes	I No		Add'l P	Add'l Phone #: Add'l Fax #:						
Relinquished By:		Date: Time:	Received By:	eive	dE	ŝy:																					
Delivered By:	Delivered By: (Circle One)			_		Sample Condition	leo	tac		3		CHECKE	A C	ED BY:													
Sampler - UPS	Sampler - UPS - Bus - Other:		5.80	60			No	ΗŊ	Nes			h	N	4													



November 05, 2013

DALE LITTLEJOHN R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE, NM 87104

RE: CAZA RIDGE '14' STATE #4H

Enclosed are the results of analyses for samples received by the laboratory on 10/23/13 14:12.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



HOBES OCD

Analytical Results For:

DEC O	2	2013
-------	---	------

RECEIVED

R T HICKS CONSULTANTS DALE LITTLEJOHN 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	10/23/2013	Sampling Date:	10/23/2013
Reported:	11/05/2013	Sampling Type:	Soil
Project Name:	CAZA RIDGE '14' STATE #4H	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: 3:1 MIX SAMPLE (H302568-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.21	0.050	10/24/2013	ND	2.05	103	2.00	0.398	
Toluene*	11.1	0.050	10/24/2013	ND	2.14	107	2.00	0.0304	
Ethylbenzene*	6.45	0.050	10/24/2013	ND	2.17	108	2.00	0.263	
Total Xylenes*	18.3	0.150	10/24/2013	ND	6.55	109	6.00	1.57	
Total BTEX	37.1	0.300	10/24/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104	% 89.4-12	6						
TPH 418.1	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	3300	100	10/31/2013	ND	76.0	92.7	82.0	11.1	SUB-SS

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



*

. .

Notes and Definitions

SUB-SS	Analysis subcontracted to SunStar Laboratories, Inc.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report $% \left({{{\left({{{\left({{{\left({{{c}}} \right)}} \right)}_{i}} \right)}_{i}}}} \right)$

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 4

	0
ро	
bra	Ū
to	Z
rie	\triangleright
S	

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Delivered By: (Circle One) Sampler - UPS - Bus - Other	Relinquished By:	Dal 7 Tura	affiliates or successors arising or Relinquished By:	analyses. All claims including th service. In no event shall Cardin	DI FASE NOTE- I lability and D							H30256	Lab I.D.	FOR LAB USE ONLY	Sampler Name: [Project Location:	Project Name: Co	Project #:	Phone #: (432) 5:	City: Albuquerque	Address:	Project Manager:	Company Name:
(Circle One) Bus - Other:		June, h	ut of or related to the performance o	anneges. Cerunitatis technity and crient ose for negligence and any other ca tal be liable for incidental or consequ	amarae Cardinale liability and clion						3:1 Mix Sa		Sample I.D.		Dale Littlejohn	Lea County	aza Ridse "14		(432) 528-3878	Ð	901 Rio Grande BL	Dale Littlejohn	R T Hicks Consultants Ltd
17	Date: Time:	Time:2:12	Date: 10/22	iuse whatsoever shall be de Jental damages, including w	the overlate has non-out for and						Sample					L WM	t" State	Project Owner: Laza	Fax #: dale@r	State: NM	BLVD, Suite F-142		nts Ltd
17.6°C Sample Condition Cool Intact Vas PYes No No No No No No	Received By:	Jodi Mu	Anal, regardless of whether such date Received By: 1	chairr ansing writeriter based in contra amed walved unless made in writing ithout limitation, business interruptor	nation whether beaud in control						Statement of the local division in which the local division in the local division in the local division in the	# CONTA GROUNI WASTEV SOIL OIL	DWATER WATER	MATRIX			+ H	Laza Oper.	Fax #: dale@rthicksconsult.com	Zip: 87104			
No CHECKED BY:		Aundon	iffliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Relinquished By: Date: 10/23 Received By: 1	re-executive reprint reprint provide the second state of the se	and or fast shall be Emflad in the same						V 1923/13	SLUDGE OTHER : ACID/BA ICE / CO OTHER :	SE: DOL	PRESERV. SAM	<u>اڭ</u>	Phone #: (505) 266-5004	State: NM Zip: 87104	city: Albuquerque	Address: 901 Rio G.	Attn: Krista	Company: RT Hicks	P.O. #:	621,75/18
	direct	REMARKS:	Phone Result	unt paid by the citerit for t ys after completion of the ad by client, its subsidiari							13 245	re time		SAMPLING	onsult.com	6-5004	37104	U .	G. F-142		ks Consult.		0
	the	2		ne applicable es,					_		<	(003	3 of 826) X	ЭT	B					
	the to	2 th	1 Yes		\vdash	-	-		-	_			108) OF									-	
	0	- LO	ON D		\vdash	+	-					-	108) OF 108) OF	-								_	
6	報	Add	Add		\vdash						7		LPH (41									•	AN/
	•.	Add'I Fax #:	l Phone									(pən	s spbro	0	0.0	(30	əp	orio	140)			ANALYSIS
		orought	*							·									1				
		*t																				-	REQUEST
					\vdash	_																-	-
								 														_	
					\vdash			_														_	
														_								-	

Page 4 of 4



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

November 22, 2013

Randall Hicks R.T. Hicks Consultants, LTD 901 Rio Grande Blvd. NW Suite F-142 Albuquerque, NM 87104 TEL: (505) 266-5004 FAX (505) 266-0745

RE: Caza Ridge 4H

OrderNo.: 1311617

Dear Randall Hicks:

Hall Environmental Analysis Laboratory received 1 sample(s) on 11/14/2013 for the analyses presented in the following report.

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

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Ander

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 1311617 Date Reported: 11/22/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

Project: Caza Ridge 4H

Client Sample ID: Caza Ridge 4H Pit 3:1 Final Min Collection Date: 11/12/2013 3:05:00 PM Received Date: 11/14/2013 9:35:00 AM

Lab ID: 1311617-001	Matrix:	SOIL	Received Date: 11/14/2013 9:35:00 AM										
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch						
EPA METHOD 8015D: DIESEL RANGE O	RGANICS					Analys	: BCN						
Diesel Range Organics (DRO)	1300	100		mg/Kg	10	11/19/2013 1:17:22 PN	1 10373						
Motor Oil Range Organics (MRO)	770	500		mg/Kg	10	11/19/2013 1:17:22 PM	10373						
Surr: DNOP	0	66-131	S	%REC	10	11/19/2013 1:17:22 PM	10373						
EPA METHOD 8015D: GASOLINE RANG	E					Analys	NSB						
Gasoline Range Organics (GRO)	30	4.9		mg/Kg	1	11/18/2013 11:54:27 A	M 10364						
Surr: BFB	240	74.5-129	S	%REC	1	11/18/2013 11:54:27 A	M 10364						
EPA METHOD 418.1: TPH						Analyst	BCN						
Petroleum Hydrocarbons, TR	2400	200		mg/Kg	10	11/19/2013	10341						

HOBBS OCD

DEC 02 2013

RECEIVED

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	E	Value above quantitation range	Н	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit Page 1 of 4
	0	RSD is greater than RSDlimit	Р	Sample pH greater than 2 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:	R.T. Hid Caza Ri	cks Consultants dge 4H	s, LTD							
Sample ID	MB-10341	SampType	BLK	Tes	tCode: EF	A Method	418.1: TPH			
Client ID:	PBS	Batch ID	10341	F	RunNo: 14	1899				
Prep Date:	11/14/2013	Analysis Date	11/19/2013	5	SeqNo: 42	29708	Units: mg/k	g		
Analyte		Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hyd	rocarbons, TR	ND	20							
Sample ID	LCS-10341	SampType	E LCS	Tes	tCode: EF	A Method	418.1: TPH			
Client ID:	LCSS	Batch ID	: 10341	F	RunNo: 14	1899				
Prep Date:	11/14/2013	Analysis Date	11/19/2013	S	SeqNo: 42	29709	Units: mg/k	g		
Analyte		Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hyd	rocarbons, TR	100	20 100.0	0	104	80	120			
Sample ID	LCSD-10341	SampType	: LCSD	Tes	tCode: EF	A Method	418.1: TPH			
Client ID:	LCSS02	Batch ID	10341	F	RunNo: 14	1899				
Prep Date:	11/14/2013	Analysis Date	11/19/2013	S	SeqNo: 42	29710	Units: mg/k	g		
Analyte		Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hyd	rocarbons, TR	100	20 100.0	0	104	80	120	0	20	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Page 2 of 4

WO#: 1311617 22-Nov-13

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

R.T. Hicks Consultants, LTD

Result

ND

ND

SampType: MBLK

Batch ID: 10373

Analysis Date: 11/18/2013

PQL

10

50

Caza Ridge 4H

Client:

Project:

Client ID:

Prep Date:

Analyte

Sample ID MB-10373

Diesel Range Organics (DRO)

Motor Oil Range Organics (MRO)

PBS

11/18/2013

Surr: DNOP	9.4 10.	94.2 66	131
Sample ID MB-10375	SampType: MBLK	TestCode: EPA Method 8	3015D: Diesel Range Organics
Client ID: PBS	Batch ID: 10375	RunNo: 14849	
Prep Date: 11/18/2013	Analysis Date: 11/18/2013	SeqNo: 428500	Units: %REC
Analyte	Result PQL SPK val	ue SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Surr: DNOP	9.1 10.	91.3 66	131
Sample ID MB-10380	SampType: MBLK	TestCode: EPA Method 8	015D: Diesel Range Organics
Client ID: PBS	Batch ID: 10380	RunNo: 14849	
Prep Date: 11/18/2013	Analysis Date: 11/18/2013	SeqNo: 428534	Units: %REC
Analyte	Result PQL SPK val	ue SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Surr: DNOP	8.6 10.	86.0 66	131
Sample ID LCS-10373	SampType: LCS	TestCode: EPA Method 8	015D: Diesel Range Organics
Client ID: LCSS	Batch ID: 10373	RunNo: 14849	
Prep Date: 11/18/2013	Analysis Date: 11/18/2013	SeqNo: 428570	Units: mg/Kg
Analyte	Result PQL SPK val	ue SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	48 10 50.	0 0 95.2 62.1	127
Surr: DNOP	4.5 5.0	90.9 66	131
Sample ID LCS-10375	SampType: LCS	TestCode: EPA Method 8	015D: Diesel Range Organics
Client ID: LCSS	Batch ID: 10375	RunNo: 14849	
Prep Date: 11/18/2013	Analysis Date: 11/18/2013	SeqNo: 428571	Units: %REC
Analyte	Result PQL SPK val	ue SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Surr: DNOP	4.6 5.0	91.5 66	131
Sample ID LCS-10380	SampType: LCS	TestCode: EPA Method 8	015D: Diesel Range Organics
Client ID: LCSS	Batch ID: 10380	RunNo: 14849	
client ID. LCSS			Units: %REC
Prep Date: 11/18/2013	Analysis Date: 11/18/2013	SeqNo: 428651	
		SeqNo: 428651 ue SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual

SPK value SPK Ref Val %REC

E Value above quantitation range

J Analyte detected below quantitation limits

0 RSD is greater than RSDlimit

R RPD outside accepted recovery limits

- S Spike Recovery outside accepted recovery limits

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Ρ Sample pH greater than 2 for VOA and TOC only.

RL **Reporting Detection Limit** WO#: 1311617 22-Nov-13

TestCode: EPA Method 8015D: Diesel Range Organics

Units: mg/Kg

%RPD

RPDLimit

Page 3 of 4

HighLimit

RunNo: 14849

SeqNo: 428499

LowLimit

Qual

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:	R.T. Hicl Caza Rid	ks Consulta ge 4H	nts, LT	D							
Sample ID	MB-10364	SampT	pe: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID:	PBS	Batch	ID: 10	364	F	RunNo: 1	4860				
Prep Date:	11/15/2013	Analysis Da	ate: 11	1/18/2013	S	SeqNo: 4	28823	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang Surr: BFB	e Organics (GRO)	ND 910	5.0	1000		91.3	74.5	129			
Sample ID	LCS-10364	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID:	LCSS	Batch	ID: 10	364	F	RunNo: 1	4860				
Prep Date:	11/15/2013	Analysis Da	ate: 11	1/18/2013	S	SeqNo: 4	28824	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	25	5.0	25.00	0	99.8	74.5	126			
Surr: BFB		1000		1000		99.9	74.5	129			
Sample ID	1311617-001AMS	SampT	pe: MS	6	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID:	Caza Ridge 4H Pi	t 3 Batch	ID: 10	364	F	RunNo: 1	4860				
Prep Date:	11/15/2013	Analysis Da	ate: 11	1/18/2013	S	SeqNo: 4	28826	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	58	4.9	24.46	30.49	111	76	156			
Surr: BFB		2600		978.5		261	74.5	129			S
Sample ID	1311617-001AMS	D SampT	pe: MS	SD.	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	6
Client ID:	Caza Ridge 4H Pi	t 3 Batch	ID: 10	364	F	RunNo: 1	4860				
Prep Date:	11/15/2013	Analysis Da	ate: 11	1/18/2013	s	eqNo: 4	28827	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	e Organics (GRO)	50	4.9	24.46	30.49	81.2	76	156	13.5	17.7	
Surr: BFB		2400		978.5		242	74.5	129	0	0	S

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Page 4 of 4

WO#: 1311617 22-Nov-13

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental Albu Albu TEL: 505-345-3975 Website: www.hal	4901 Hawkins querque, NM 871 FAX: 505-345-41		Sample Log-In Check List							
Client Name: RT HICKS	Work Order Number:	1311617		RcptNo: 1							
Received by/date: A, F, Logged By: Ashley Gallegos	11/14/13 11/14/2013 9:35:00 AM	I	AJ								
Completed By: Ashley Gallegos	11/14/2013 1:53:07 PM	l .	AF								
Reviewed By:	11/15/13	an a s	V								
Chain of Custody			No	Not Present							
1. Custody seals intact on sample bottles?		Yes	No	Not Present							
2. Is Chain of Custody complete?		Yes 🗸	NO 1	Not Present L							
3. How was the sample delivered?		Client									
Log In											
4. Was an attempt made to cool the samples	?	Yes 🗸	No	NA							
5. Were all samples received at a temperatur	e of >0° C to 6.0°C	Yes 🗸	No []]	NA							
6. Sample(s) in proper container(s)?		Yes 🗹	No								
7. Sufficient sample volume for indicated test	(s)?	Yes 🖌	No								
8. Are samples (except VOA and ONG) prope	erly preserved?	Yes 🔽	No								
9. Was preservative added to bottles?		Yes	No 🗸	NA							
10.VOA vials have zero headspace?		Yes	No	No VOA Vials 🗸							
11. Were any sample containers received brok	ken?	Yes	No 🖌	# of processed							
12.Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🔽	No 🗐	# of preserved bottles checked for pH: (<2 or >12 unle	ess noted)						
13. Are matrices correctly identified on Chain of	of Custody?	Yes 🗹	No	Adjusted?	,						
14. Is it clear what analyses were requested?		Yes 🗸	No								
15. Were all holding times able to be met? (If no, notify customer for authorization.)	,	Yes 🗸	No	Checked by:							
Special Handling (if applicable)											

16.1	Nas client notified of all o	liscrepancies with this order?	Yes	No	NA 🗸
	Person Notified:		Date:		
	By Whom:		Via: [] eMail	Phone Fax	In Person
	Regarding:		<u>a a da angan angan angan angan angan kana kana</u>	NEW 2017 AN	
	Client Instructions:				

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.6	Good	Not Present			

UALL ENVIRONMENTAL	ABORATORY		0					(N	Y or) səlddu8 ii					-				
	NOR NOR	E	Albuquerque, NM 87109	4107		_			AO\	/-ime2) 0728	2			+					
C		al.co	e, NN	345-	Request				(AOV) 80828	1								
		ment	erque	505-345-4107	Req		s,80c	9 <u>2808</u>	/ səp	8081 Pesticio									
		viron	nbno	Fax		(*(OS'⁺O	d' ^z ON		,IO,∃) anoinA									
U	Ľ	allen	- Alt		Anal					CEA 8 Met	-				1				
	ANALYSIS	www.hallenvironmental.com	R	3975			(SN			0168) s'HA9	-			_					
		3	vkins	345-						EDB (Methoo	-		_		 				
			4901 Hawkins NE	Tel. 505-345-3975		(0)			-	192108 H91	-		 -		 +				
			4901	Tel.		-			-	BTEX + MTB	1							arks:	
										BTEX + MTB	-			+				Remarks:	
		1	t			7	ge			No.	100							Time	Time
		1.1	ge 41			1 1	arelall (thok		0N []	HEAL NO	2							Date	Date
:allie:	🗆 Rush	`	I ZA KY		(/			-	Preservative								2	
	Standard	Project Name:	S	Project #:		Project Manager:	Luo		On Ice: X Yes Samole Temperature	Container F	2 GLOS							Received by:	Received by:
Chain-of-Custody Record	jks				Sood	rthicksconsult.	1			Sample Request ID	3.1 FWARMAN							law the	/
-of-Cus	2.T. HICKS				2 Cele - 5	2	L			Matrix Soic							Z	Relinquished by	Relinquished by:
hain			Mailing Address:			email or Fax#:	QA/QC Package:	itation		Time								Time:	Time:
0	Client:		Mailing		Phone #:	email c	QAVQC	Accreditation		Date 1.12								Date: · I4.B	Date: