



September 30, 2015

Stan Spencer
NW Environmental Protection Specialist
Colorado Oil and Gas Conservation Commission
796 Megan Ave, Suite 201,
Rifle, CO 81650

Re: TR 24-28-597 Spill Closure Request

Dear Mr. Spencer,

Attached is the laboratory report and the sample location map for soil samples collected from the impacted area and nearby non-impacted native soil in order to close the spill that occurred at the TR 24-28-597 well pad and was discovered on June 30, 2015.

- One grab sample was collected from the impacted area and was analyzed for the abbreviated list of constituents which was permitted with the supplemental form 19.
- Three grab samples were collected from nearby non-impacted, native soil to establish the background concentrations for arsenic. In accordance with the COGCC Rule 910.b.(3)E. one grab sample was analyzed for inorganics to establish background soil conditions.

As the attached lab reports indicate, all constituents of concern listed in the COGCC Table 910-1 are in compliance with the cleanup requirements. The impacted area was backfilled with clean fill. The excavated material was used for the interim reclamation of the pad. The impacted area will be covered with 3' of clean soil during the final reclamation of the road to ensure successful reclamation of this area.

Based on these results, WPX respectfully requests closure of this incident.

Please do not hesitate to contact me at (970) 683-2295 should you have any questions or concerns regarding this information.

Sincerely,

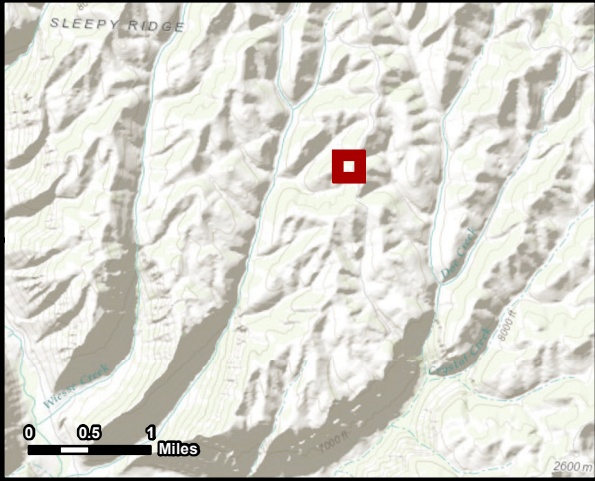
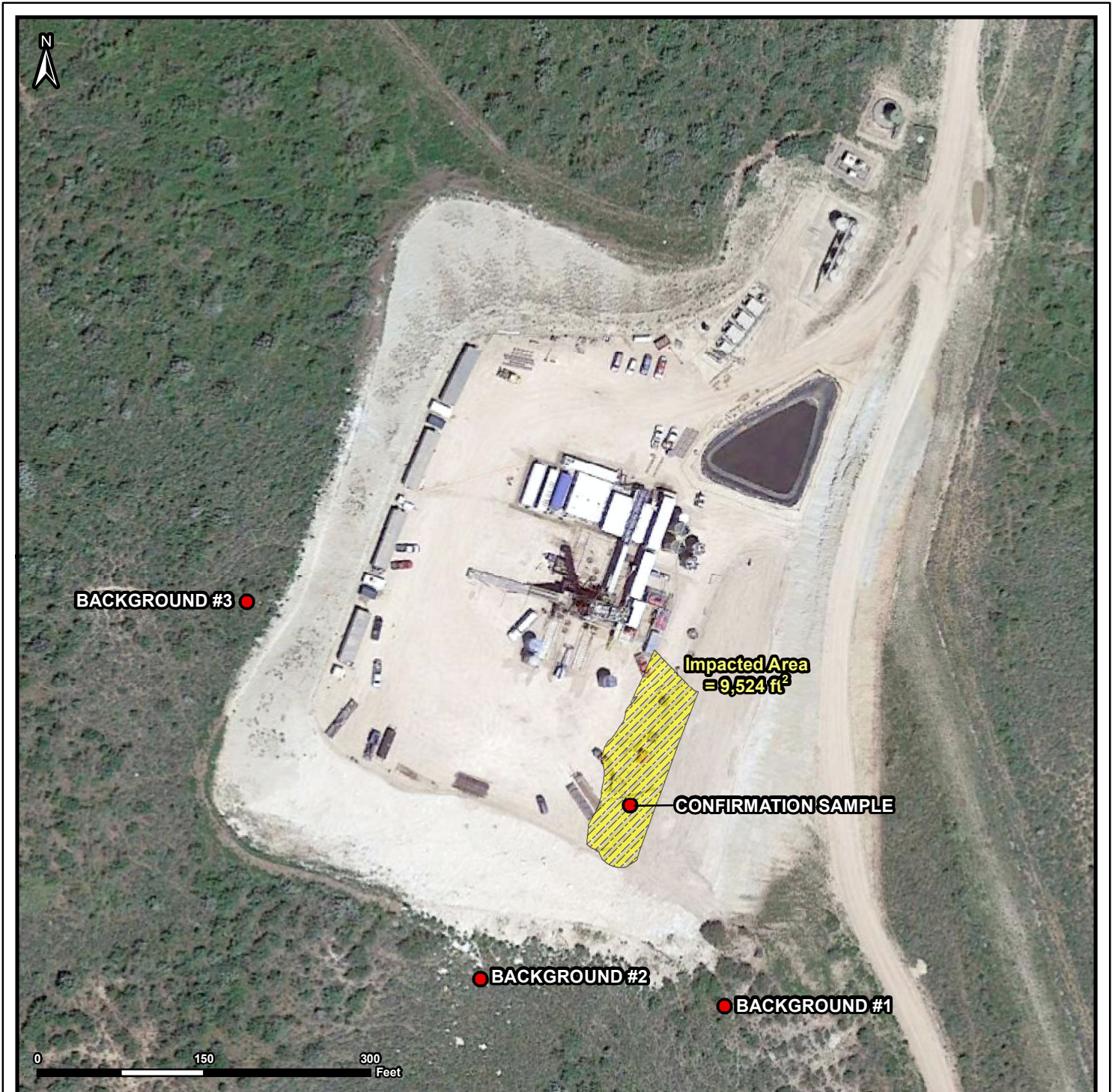
A handwritten signature in blue ink that reads "Karolina Blaney".

Karolina Blaney
Environmental Specialist

Attachments (2)

- Sampling Location Map
- Laboratory Reports

Contaminant of Concern ↓	COGCC standards	Location →	Confirmation	TR 24-28-597-B-1	TR 24-28-597-B-2	TR 24-28-597-B-3
		Date Sampled →	8/28/2015	8/28/2015	8/28/2015	8/28/2015
Organic Compounds in Soil						
TPH	500	mg/kg	98			
DRO		mg/kg	98			
GRO		mg/kg	ND			
Benzene	0.17	mg/kg	ND			
Toluene	85	mg/kg	0.14			
Ethylbenzene	100	mg/kg	ND			
Xylenes (Total)	175	mg/kg	0.73			
Acenaphthene	1,000	mg/kg	ND			
Anthracene	1,000	mg/kg	ND			
Benzo(A)anthracene	0.22	mg/kg	ND			
Benzo(B)fluoranthene	0.22	mg/kg	ND			
Benzo(K)fluoranthene	2.2	mg/kg	ND			
Benzo(A)pyrene	0.022	mg/kg	ND			
Chrysene	22	mg/kg	ND			
Dibenzo(A,H)anthracene	0.022	mg/kg	ND			
Fluoranthene	1,000	mg/kg	ND			
Fluorene	1,000	mg/kg	ND			
Indeno(1,2,3-cd)pyrene	0.22	mg/kg	ND			
Naphthalene	23	mg/kg	0.013			
Pyrene	1,000	mg/kg	ND			
Inorganics in Soil						
EC	<4 or 2 x background	mmhos/cm	13			0.78
SAR	<12		20			0.074
pH	6-9		8			6.5
Metals in Soil						
Arsenic	0.39	mg/kg	14	9.1	9.1	9.2
Barium total	15,000	mg/kg	570			
Cadmium	70	mg/kg	ND			
Chromium (III)	120,000	mg/kg	24			
Chromium (VI)	23	mg/kg	ND			
Copper	3,100	mg/kg	24			
Lead	400	mg/kg	7			
Mercury	23	mg/kg	0.037			
Nickel	1,600	mg/kg	41			
Selenium	390	mg/kg	ND			
Silver	390	mg/kg	ND			
Zinc	23,000	mg/kg	41			



NOTES / COMMENTS:

DISCLAIMER: This representation and the Geographic Information System (GIS) used to create it are designed as a source of reference and not intended to replace official records and/or legal surveys. HCS1 assumes no responsibility for any risks, dangers, or liabilities that may result from its use and makes no guarantees as to the quality or accuracy of the underlying data.



Spill Closure Map

TR 24-28-597
39.57972 -108.28512
Section 28, Township 5 South, Range 97 West

Mapped Features	Transportation	Hydrography
● Sample Location	— CO Highways	— Ditch
▨ Impacted Area	— County Roads	— Intermittent Stream
PLSS	— Local Streets	— Perennial Stream
□ Township	— Access Roads	■ Waterbody
□ Section		■ Watershed



HRL COMPLIANCE SOLUTIONS, INC.
Environmental Consultants

Author: E. Fought
Revision: 0
Date: 9/16/2013



14-Sep-2015

Mark Mumby
HRL Compliance Solutions, Inc
2385 F 1/2 Road
Grand Junction, CO 81505

Re: **TR 24-28**

Work Order: **1509031**

Dear Mark,

ALS Environmental received 4 samples on 01-Sep-2015 10:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Sample results are compliant with NELAP standard requirements and QC results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 30.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Les Arnold".

Electronically approved by: Les Arnold

Les Arnold
Senior Project Manager



Certificate No: MN 532786

Report of Laboratory Analysis

ADDRESS 3352 128th Avenue Holland, Michigan 49424-9263 | PHONE (616) 399-6070 | FAX (616) 399-6185

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental ALS Environmental logo icon consisting of a small blue triangle with a yellow flame.

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RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions, Inc
Project: TR 24-28
Work Order: 1509031

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1509031-01	Confirmation	Soil		8/28/2015 13:45	9/1/2015 10:00	<input type="checkbox"/>
1509031-02	BKGD 1	Soil		8/28/2015 13:47	9/1/2015 10:00	<input type="checkbox"/>
1509031-03	BKGD 2	Soil		8/28/2015 13:49	9/1/2015 10:00	<input type="checkbox"/>
1509031-04	BKGD 3	Soil		8/28/2015 13:51	9/1/2015 10:00	<input type="checkbox"/>

Client: HRL Compliance Solutions, Inc**Project:** TR 24-28**Work Order:** 1509031**Case Narrative**

Samples for the above noted Work Order were received on 09/01/2015. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting.

With the following exceptions, all sample analyses achieved analytical criteria.

Sample Receiving:

No deviations or anomalies were noted.

Volatile Organics:

No deviations or anomalies were noted.

Extractable Organics:

No deviations or anomalies were noted.

Metals:

No deviations or anomalies were noted.

Wet Chemistry:

No deviations or anomalies were noted.

Client: HRL Compliance Solutions, Inc
 Project: TR 24-28
 Sample ID: Confirmation
 Collection Date: 8/28/2015 01:45 PM

Work Order: 1509031
 Lab ID: 1509031-01
 Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M			Analyst: IT
DRO (C10-C28)	98		4.7	mg/Kg-dry	1	9/3/2015 06:57 PM
<i>Surr: 4-Terphenyl-d14</i>	68.9		39-133	%REC	1	9/3/2015 06:57 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015D		Prep: SW5035 / 9/1/15	Analyst: IT
GRO (C6-C10)	ND		2.9	mg/Kg-dry	1	9/2/2015 03:59 AM
<i>Surr: Toluene-d8</i>	95.1		50-150	%REC	1	9/2/2015 03:59 AM
MERCURY BY CVAA			SW7471B		Prep: SW7471 / 9/3/15	Analyst: LR
Mercury	0.037		0.015	mg/Kg-dry	1	9/3/2015 03:54 PM
METALS ANALYSIS BY ICP			SW846 6010C		Prep: SW3050B / 9/1/15	Analyst: JEC
Arsenic	14		0.38	mg/Kg-dry	1	9/3/2015 04:47 PM
Barium	570		0.38	mg/Kg-dry	1	9/3/2015 04:47 PM
Cadmium	ND		0.31	mg/Kg-dry	1	9/3/2015 04:47 PM
Chromium	24		0.38	mg/Kg-dry	1	9/3/2015 04:47 PM
Copper	24		0.38	mg/Kg-dry	1	9/3/2015 04:47 PM
Lead	7.0		0.38	mg/Kg-dry	1	9/3/2015 04:47 PM
Nickel	41		0.38	mg/Kg-dry	1	9/3/2015 04:47 PM
Selenium	ND		0.77	mg/Kg-dry	2	9/4/2015 10:08 AM
Silver	ND		0.38	mg/Kg-dry	1	9/3/2015 04:47 PM
Zinc	41		0.77	mg/Kg-dry	1	9/3/2015 04:47 PM
SOLUBLE CATIONS FOR SAR			SW846 6010C		Prep: USDA Method 20B / 9/3/15	Analyst: JEC
Calcium	460		5.0	mg/L	10	9/3/2015 12:32 PM
Magnesium	98		2.0	mg/L	10	9/3/2015 12:32 PM
Sodium	1,800		2.0	mg/L	10	9/3/2015 12:32 PM
SODIUM ADSORPTION RATIO			USDA H60 METHO		Prep: USDA Method 20B / 9/3/15	Analyst: JEC
Sodium Adsorption Ratio	20		0.010	none	1	9/3/2015
SEMI-VOLATILE ORGANIC COMPOUNDS			SW846 8270D		Prep: SW3550 / 9/11/15	Analyst: RS
Acenaphthene	ND		7.6	µg/Kg-dry	1	9/12/2015 04:23 AM
Acenaphthylene	ND		7.6	µg/Kg-dry	1	9/12/2015 04:23 AM
Anthracene	ND		7.6	µg/Kg-dry	1	9/12/2015 04:23 AM
Benzo(a)anthracene	ND		7.6	µg/Kg-dry	1	9/12/2015 04:23 AM
Benzo(a)pyrene	ND		7.6	µg/Kg-dry	1	9/12/2015 04:23 AM
Benzo(b)fluoranthene	ND		7.6	µg/Kg-dry	1	9/12/2015 04:23 AM
Benzo(g,h,i)perylene	ND		7.6	µg/Kg-dry	1	9/12/2015 04:23 AM
Benzo(k)fluoranthene	ND		7.6	µg/Kg-dry	1	9/12/2015 04:23 AM
Chrysene	ND		7.6	µg/Kg-dry	1	9/12/2015 04:23 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 14-Sep-15

Client: HRL Compliance Solutions, Inc
Project: TR 24-28
Sample ID: Confirmation
Collection Date: 8/28/2015 01:45 PM

Work Order: 1509031
Lab ID: 1509031-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		7.6	µg/Kg-dry	1	9/12/2015 04:23 AM
Fluoranthene	ND		7.6	µg/Kg-dry	1	9/12/2015 04:23 AM
Fluorene	ND		7.6	µg/Kg-dry	1	9/12/2015 04:23 AM
Indeno(1,2,3-cd)pyrene	ND		7.6	µg/Kg-dry	1	9/12/2015 04:23 AM
Naphthalene	13		7.6	µg/Kg-dry	1	9/12/2015 04:23 AM
Pyrene	ND		7.6	µg/Kg-dry	1	9/12/2015 04:23 AM
Surr: 2-Fluorobiphenyl	48.4		12-100	%REC	1	9/12/2015 04:23 AM
Surr: 4-Terphenyl-d14	66.7		25-137	%REC	1	9/12/2015 04:23 AM
Surr: Nitrobenzene-d5	41.6		37-107	%REC	1	9/12/2015 04:23 AM
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 9/1/15	Analyst: BG
Benzene	ND		34	µg/Kg-dry	1	9/2/2015 03:55 PM
Ethylbenzene	ND		34	µg/Kg-dry	1	9/2/2015 03:55 PM
m,p-Xylene	650		69	µg/Kg-dry	1	9/2/2015 03:55 PM
o-Xylene	81		34	µg/Kg-dry	1	9/2/2015 03:55 PM
Toluene	140		34	µg/Kg-dry	1	9/2/2015 03:55 PM
Xylenes, Total	730		100	µg/Kg-dry	1	9/2/2015 03:55 PM
Surr: 1,2-Dichloroethane-d4	97.4		70-130	%REC	1	9/2/2015 03:55 PM
Surr: 4-Bromofluorobenzene	103		70-130	%REC	1	9/2/2015 03:55 PM
Surr: Dibromofluoromethane	100		70-130	%REC	1	9/2/2015 03:55 PM
Surr: Toluene-d8	94.3		70-130	%REC	1	9/2/2015 03:55 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO		Prep: USDA Method 20B / 9/3/15	Analyst: JB
Electrical Conductivity @ Saturation	13		0.050	mmhos/cm @2	10	9/3/2015 01:00 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JB
Chromium, Trivalent	24		0.57	mg/Kg-dry	1	9/4/2015 04:00 PM
CHROMIUM, HEXAVALENT			SW7196A		Prep: SW3060A / 9/3/15	Analyst: MB
Chromium, Hexavalent	ND		1.1	mg/Kg-dry	1	9/4/2015 01:00 PM
MOISTURE			E160.3M			Analyst: TM
Moisture	13		0.050	% of sample	1	9/4/2015 01:34 PM
PH			SW9045D		Prep: EXTRACT / 9/2/15	Analyst: KF
pH	8.0			s.u.	1	9/2/2015 06:09 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 14-Sep-15

Client: HRL Compliance Solutions, Inc

Project: TR 24-28

Work Order: 1509031

Sample ID: BKGD 1

Lab ID: 1509031-02

Collection Date: 8/28/2015 01:47 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS ANALYSIS BY ICP			SW846 6010C		Prep: SW3050B / 9/1/15	Analyst: JEC
Arsenic	9.1		0.42	mg/Kg-dry	1	9/3/2015 04:53 PM
MOISTURE			E160.3M			Analyst: TM
Moisture	11		0.050	% of sample	1	9/4/2015 10:33 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 14-Sep-15

Client: HRL Compliance Solutions, Inc

Project: TR 24-28

Work Order: 1509031

Sample ID: BKGD 2

Lab ID: 1509031-03

Collection Date: 8/28/2015 01:49 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS ANALYSIS BY ICP			SW846 6010C	Prep: SW3050B / 9/1/15		Analyst: JEC
Arsenic	9.1		0.43	mg/Kg-dry	1	9/3/2015 04:59 PM
MOISTURE			E160.3M			Analyst: TM
Moisture	12		0.050	% of sample	1	9/4/2015 10:33 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 14-Sep-15

Client: HRL Compliance Solutions, Inc

Project: TR 24-28

Work Order: 1509031

Sample ID: BKGD 3

Lab ID: 1509031-04

Collection Date: 8/28/2015 01:51 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS ANALYSIS BY ICP						
Arsenic	9.2		SW846 6010C 0.44	mg/Kg-dry	Prep: SW3050B / 9/1/15 1	Analyst: JEC 9/3/2015 05:05 PM
SOLUBLE CATIONS FOR SAR						
Calcium	110		SW846 6010C 5.0	mg/L	Prep: USDA Method 20B / 9/3/15 10	Analyst: JEC 9/3/2015 12:38 PM
Magnesium	24		2.0	mg/L	10	9/3/2015 12:38 PM
Sodium	3.3		2.0	mg/L	10	9/3/2015 05:34 PM
SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	0.074		USDA H60 METHO 0.010	none	Prep: USDA Method 20B / 9/3/15 1	Analyst: JEC 9/3/2015
ELECTRICAL CONDUCTIVITY (SAR)						
Electrical Conductivity @ Saturation	0.78		USDA H60 METHO 0.050	mmhos/cm @2	Prep: USDA Method 20B / 9/3/15 10	Analyst: JB 9/3/2015 01:00 PM
MOISTURE						
Moisture	11		E160.3M 0.050	% of sample	1	Analyst: TM 9/4/2015 10:33 AM
PH						
pH	6.5		SW9045D	s.u.	Prep: EXTRACT / 9/2/15 1	Analyst: KF 9/2/2015 06:09 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: HRL Compliance Solutions, Inc
Project: TR 24-28
WorkOrder: 1509031

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and PQL, sample results may exhibit background or reagent contamination at the observed level.

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight
mg/Kg-dry	Milligrams per Kilogram Dry Weight
mg/L	Milligrams per Liter
mmhos/cm @25°C	Millimhos-Centimeter at 25 Degrees Celcius
none	
s.u.	Standard Units

Client: HRL Compliance Solutions, Inc
Work Order: 1509031
Project: TR 24-28

QC BATCH REPORT

Batch ID: **75599c** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-75599-75599c				Units: mg/Kg		Analysis Date: 9/3/2015 04:28 PM		
Client ID:		Run ID: GC8_150903A		SeqNo: 3445671		Prep Date: 9/3/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	5.0								
<i>Surr: 4-Terphenyl-d14</i>	1.386	0	2	0	69.3	39-133		0		

LCS		Sample ID: DLCSS1-75599-75599c				Units: mg/Kg		Analysis Date: 9/3/2015 04:58 PM		
Client ID:		Run ID: GC8_150903A		SeqNo: 3445672		Prep Date: 9/3/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	178.9	5.0	200	0	89.5	61-109		0		
<i>Surr: 4-Terphenyl-d14</i>	1.345	0	2	0	67.2	39-133		0		

MS		Sample ID: 1509099-01B MS				Units: mg/Kg		Analysis Date: 9/3/2015 05:28 PM		
Client ID:		Run ID: GC8_150903A		SeqNo: 3445673		Prep Date: 9/3/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	168.5	4.1	162.2	42.72	77.5	48-110		0		
<i>Surr: 4-Terphenyl-d14</i>	1.159	0	1.622	0	71.5	39-133		0		

MSD		Sample ID: 1509099-01B MSD				Units: mg/Kg		Analysis Date: 9/3/2015 05:57 PM		
Client ID:		Run ID: GC8_150903A		SeqNo: 3445674		Prep Date: 9/3/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	169.7	4.1	162.9	42.72	78	48-110	168.5	0.751	30	
<i>Surr: 4-Terphenyl-d14</i>	1.101	0	1.629	0	67.6	39-133	1.159	5.18	30	

The following samples were analyzed in this batch: 1509031-01B

Client: HRL Compliance Solutions, Inc
 Work Order: 1509031
 Project: TR 24-28

QC BATCH REPORT

Batch ID: 75505 Instrument ID GC9 Method: SW8015D

MBLK		Sample ID: MBLK-75505-75505				Units: µg/Kg		Analysis Date: 9/1/2015 09:29 PM		
Client ID:		Run ID: GC9_150901A		SeqNo: 3441680		Prep Date: 9/1/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	ND	2,500								
<i>Surr: Toluene-d8</i>	4932	0	5000	0	98.6	50-150	0			

LCS		Sample ID: LCS-75505-75505				Units: µg/Kg		Analysis Date: 9/1/2015 09:04 PM		
Client ID:		Run ID: GC9_150901A		SeqNo: 3441679		Prep Date: 9/1/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	519800	2,500	500000	0	104	70-130	0			
<i>Surr: Toluene-d8</i>	5153	0	5000	0	103	50-150	0			

MS		Sample ID: 1509004-14A MS				Units: µg/Kg		Analysis Date: 9/2/2015 01:55 AM		
Client ID:		Run ID: GC9_150901A		SeqNo: 3441687		Prep Date: 9/1/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	1288000	2,500	500000	618600	134	70-130	0			S
<i>Surr: Toluene-d8</i>	5569	0	5000	0	111	50-150	0			

MSD		Sample ID: 1509004-14A MSD				Units: µg/Kg		Analysis Date: 9/2/2015 02:20 AM		
Client ID:		Run ID: GC9_150901A		SeqNo: 3441688		Prep Date: 9/1/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	1256000	2,500	500000	618600	127	70-130	1288000	2.56	30	
<i>Surr: Toluene-d8</i>	5560	0	5000	0	111	50-150	5569	0.162	30	

The following samples were analyzed in this batch:

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
 Work Order: 1509031
 Project: TR 24-28

QC BATCH REPORT

Batch ID: 75544 Instrument ID HG1 Method: SW7471B

MBLK		Sample ID: MBLK-75544-75544				Units: mg/Kg		Analysis Date: 9/3/2015 03:16 PM		
Client ID:		Run ID: HG1_150903A		SeqNo: 3444668		Prep Date: 9/3/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury ND 0.020

LCS		Sample ID: LCS-75544-75544				Units: mg/Kg		Analysis Date: 9/3/2015 03:19 PM		
Client ID:		Run ID: HG1_150903A		SeqNo: 3444669		Prep Date: 9/3/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1789 0.020 0.1665 0 107 80-120 0

MS		Sample ID: 1509014-04BMS				Units: mg/Kg		Analysis Date: 9/3/2015 03:23 PM		
Client ID:		Run ID: HG1_150903A		SeqNo: 3444671		Prep Date: 9/3/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1083 0.012 0.103 -0.0005705 106 75-125 0

MSD		Sample ID: 1509014-04BMSD				Units: mg/Kg		Analysis Date: 9/3/2015 03:25 PM		
Client ID:		Run ID: HG1_150903A		SeqNo: 3444672		Prep Date: 9/3/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1088 0.012 0.1019 -0.0005705 107 75-125 0.1083 0.486 35

The following samples were analyzed in this batch: 1509031-01B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
 Work Order: 1509031
 Project: TR 24-28

QC BATCH REPORT

Batch ID: 75506 Instrument ID ICP2 Method: SW846 6010C

MBLK		Sample ID: MBLK-75506-75506				Units: mg/Kg		Analysis Date: 9/2/2015 09:30 AM		
Client ID:		Run ID: ICP2_150902A			SeqNo: 3442275		Prep Date: 9/1/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.25								
Barium	ND	0.25								
Cadmium	ND	0.50								
Chromium	0.01157	0.25								J
Copper	ND	0.50								
Lead	ND	0.25								
Nickel	ND	0.25								
Selenium	ND	0.50								
Silver	ND	0.25								
Zinc	ND	0.50								

LCS		Sample ID: LCS-75506-75506				Units: mg/Kg		Analysis Date: 9/2/2015 09:36 AM		
Client ID:		Run ID: ICP2_150902A			SeqNo: 3442276		Prep Date: 9/1/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.723	0.25	5	0	94.5	80-120	0			
Barium	4.879	0.25	5	0	97.6	80-120	0			
Cadmium	4.449	0.50	5	0	89	80-120	0			
Chromium	5.197	0.25	5	0	104	80-120	0			
Copper	4.954	0.50	5	0	99.1	80-120	0			
Lead	4.943	0.25	5	0	98.9	80-120	0			
Nickel	5.117	0.25	5	0	102	80-120	0			
Selenium	4.972	0.50	5	0	99.4	80-120	0			
Silver	4.748	0.25	5	0	95	80-120	0			
Zinc	4.41	0.50	5	0	88.2	80-120	0			

MS		Sample ID: 1509010-02AMS				Units: mg/Kg		Analysis Date: 9/2/2015 10:04 AM		
Client ID:		Run ID: ICP2_150902A			SeqNo: 3442281		Prep Date: 9/1/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	24.63	0.38	7.692	13.95	139	75-125	0			S
Barium	216.2	0.38	7.692	269.8	-696	75-125	0			SO
Cadmium	10.56	0.77	7.692	3.851	87.3	75-125	0			
Chromium	262.3	0.38	7.692	333.5	-926	75-125	0			SO
Copper	201.7	0.77	7.692	298.7	-1260	75-125	0			SO
Lead	530.4	0.38	7.692	393.9	1770	75-125	0			SO
Nickel	62.12	0.38	7.692	48.97	171	75-125	0			SO
Selenium	11.95	0.77	7.692	2.949	117	75-125	0			
Silver	7.84	0.38	7.692	0.2654	98.5	75-125	0			
Zinc	1749	0.77	7.692	1099	8440	75-125	0			SEO

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 1509031
Project: TR 24-28

QC BATCH REPORT

Batch ID: **75506** Instrument ID **ICP2** Method: **SW846 6010C**

MSD		Sample ID: 1509010-02AMSD				Units: mg/Kg		Analysis Date: 9/2/2015 10:10 AM		
Client ID:		Run ID: ICP2_150902A			SeqNo: 3442282		Prep Date: 9/1/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	21.47	0.39	7.704	13.95	97.7	75-125	24.63	13.7	20	
Barium	250.6	0.39	7.704	269.8	-249	75-125	216.2	14.7	20	SO
Cadmium	10.74	0.77	7.704	3.851	89.4	75-125	10.56	1.62	20	
Chromium	213.9	0.39	7.704	333.5	-1550	75-125	262.3	20.3	20	SRO
Copper	249.4	0.77	7.704	298.7	-640	75-125	201.7	21.1	20	SRO
Lead	476.5	0.39	7.704	393.9	1070	75-125	530.4	10.7	20	SO
Nickel	63.93	0.39	7.704	48.97	194	75-125	62.12	2.87	20	SO
Selenium	10.36	0.77	7.704	2.949	96.2	75-125	11.95	14.2	20	
Silver	7.631	0.39	7.704	0.2654	95.6	75-125	7.84	2.71	20	
Zinc	952	0.77	7.704	1099	-1910	75-125	1749	59	20	SREO

The following samples were analyzed in this batch:

1509031-01B	1509031-02A	1509031-03A
1509031-04A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 1509031
Project: TR 24-28

QC BATCH REPORT

Batch ID: **75533** Instrument ID **ICP2** Method: **SW846 6010C**

DUP		Sample ID: 1509031-04BDUP				Units: mg/L		Analysis Date: 9/3/2015 12:43 PM		
Client ID: BKGD 3		Run ID: ICP2_150903A				SeqNo: 3444366		Prep Date: 9/3/2015		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	109.2	5.0	0	0	0	0-0	108.5	0.585		
Magnesium	24.61	2.0	0	0	0	0-0	24.34	1.11		

DUP		Sample ID: 1509031-04BDUP				Units: mg/L		Analysis Date: 9/3/2015 05:39 PM		
Client ID: BKGD 3		Run ID: ICP2_150903B				SeqNo: 3444960		Prep Date: 9/3/2015		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium	3.423	2.0	0	0	0	0-0	3.293	3.86		

DUP		Sample ID: 1509031-04BDUP				Units: none		Analysis Date: 9/3/2015		
Client ID: BKGD 3		Run ID: SAR_150903A				SeqNo: 3444983		Prep Date: 9/3/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	0.07702	0.010	0	0	0		0.07438	3.5	50	

The following samples were analyzed in this batch: 1509031-01C 1509031-04B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
 Work Order: 1509031
 Project: TR 24-28

QC BATCH REPORT

Batch ID: 75593 Instrument ID SVMS4 Method: SW846 8270D

MBLK		Sample ID: SBLKS1-75593-75593				Units: µg/Kg		Analysis Date: 9/3/2015 05:29 PM		
Client ID:		Run ID: SVMS4_150903A		SeqNo: 3445761		Prep Date: 9/3/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	ND	6.7								
Acenaphthylene	ND	6.7								
Anthracene	ND	6.7								
Benzo(a)anthracene	ND	6.7								
Benzo(a)pyrene	ND	6.7								
Benzo(b)fluoranthene	ND	6.7								
Benzo(g,h,i)perylene	ND	6.7								
Benzo(k)fluoranthene	ND	6.7								
Chrysene	ND	6.7								
Dibenzo(a,h)anthracene	ND	6.7								
Fluoranthene	ND	6.7								
Fluorene	ND	6.7								
Indeno(1,2,3-cd)pyrene	ND	6.7								
Naphthalene	ND	6.7								
Pyrene	ND	6.7								
Surr: 2-Fluorobiphenyl	1318	0	1667	0	79.1	12-100	0			
Surr: 4-Terphenyl-d14	1538	0	1667	0	92.3	25-137	0			
Surr: Nitrobenzene-d5	1354	0	1667	0	81.2	37-107	0			

LCS		Sample ID: SLCSS1-75593-75593				Units: µg/Kg		Analysis Date: 9/3/2015 05:55 PM		
Client ID:		Run ID: SVMS4_150903A		SeqNo: 3445762		Prep Date: 9/3/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	594.3	6.7	666.7	0	89.1	45-110	0			
Acenaphthylene	594	6.7	666.7	0	89.1	45-105	0			
Anthracene	628.7	6.7	666.7	0	94.3	55-105	0			
Benzo(a)anthracene	677	6.7	666.7	0	102	50-110	0			
Benzo(a)pyrene	681.7	6.7	666.7	0	102	50-110	0			
Benzo(b)fluoranthene	677.3	6.7	666.7	0	102	45-115	0			
Benzo(g,h,i)perylene	724.3	6.7	666.7	0	109	40-125	0			
Benzo(k)fluoranthene	703.3	6.7	666.7	0	105	45-115	0			
Chrysene	693.7	6.7	666.7	0	104	55-110	0			
Dibenzo(a,h)anthracene	697.3	6.7	666.7	0	105	40-125	0			
Fluoranthene	643	6.7	666.7	0	96.4	55-115	0			
Fluorene	589	6.7	666.7	0	88.3	50-110	0			
Indeno(1,2,3-cd)pyrene	673.7	6.7	666.7	0	101	40-120	0			
Naphthalene	569.7	6.7	666.7	0	85.4	40-105	0			
Pyrene	740.3	6.7	666.7	0	111	45-125	0			
Surr: 2-Fluorobiphenyl	1453	0	1667	0	87.2	12-100	0			
Surr: 4-Terphenyl-d14	1632	0	1667	0	97.9	25-137	0			
Surr: Nitrobenzene-d5	1442	0	1667	0	86.5	37-107	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
 Work Order: 1509031
 Project: TR 24-28

QC BATCH REPORT

Batch ID: 75593 Instrument ID SVMS4 Method: SW846 8270D

MS				Sample ID: 1509062-02B MS			Units: µg/Kg		Analysis Date: 9/3/2015 06:20 PM		
Client ID:		Run ID: SVMS4_150903A		SeqNo: 3445763		Prep Date: 9/3/2015		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	540.2	6.6	664	0	81.3	45-110	0				
Acenaphthylene	527.2	6.6	664	0	79.4	45-105	0				
Anthracene	580	6.6	664	0	87.3	55-105	0				
Benzo(a)anthracene	589.3	6.6	664	0	88.7	50-110	0				
Benzo(a)pyrene	580.3	6.6	664	0	87.4	50-110	0				
Benzo(b)fluoranthene	581.7	6.6	664	0	87.6	45-115	0				
Benzo(g,h,i)perylene	532.2	6.6	664	0	80.1	40-125	0				
Benzo(k)fluoranthene	586	6.6	664	0	88.2	45-115	0				
Chrysene	598.6	6.6	664	0	90.1	55-110	0				
Dibenzo(a,h)anthracene	519.9	6.6	664	0	78.3	40-125	0				
Fluoranthene	627.8	6.6	664	6.157	93.6	55-115	0				
Fluorene	562.4	6.6	664	0	84.7	50-110	0				
Indeno(1,2,3-cd)pyrene	529.2	6.6	664	0	79.7	40-120	0				
Naphthalene	516.6	6.6	664	0	77.8	40-105	0				
Pyrene	540.8	6.6	664	6.482	80.5	45-125	0				
Surr: 2-Fluorobiphenyl	1189	0	1660	0	71.6	12-100	0				
Surr: 4-Terphenyl-d14	1229	0	1660	0	74.1	25-137	0				
Surr: Nitrobenzene-d5	1260	0	1660	0	75.9	37-107	0				

MSD				Sample ID: 1509062-02B MSD			Units: µg/Kg		Analysis Date: 9/3/2015 06:46 PM		
Client ID:		Run ID: SVMS4_150903A		SeqNo: 3445764		Prep Date: 9/3/2015		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	540.4	6.6	658.6	0	82	45-110	540.2	0.0368	30		
Acenaphthylene	546.3	6.6	658.6	0	82.9	45-105	527.2	3.55	30		
Anthracene	607.2	6.6	658.6	0	92.2	55-105	580	4.58	30		
Benzo(a)anthracene	614.8	6.6	658.6	0	93.3	50-110	589.3	4.23	30		
Benzo(a)pyrene	634.5	6.6	658.6	0	96.3	50-110	580.3	8.92	30		
Benzo(b)fluoranthene	643.7	6.6	658.6	0	97.7	45-115	581.7	10.1	30		
Benzo(g,h,i)perylene	575.6	6.6	658.6	0	87.4	40-125	532.2	7.84	30		
Benzo(k)fluoranthene	637.5	6.6	658.6	0	96.8	45-115	586	8.42	30		
Chrysene	628.9	6.6	658.6	0	95.5	55-110	598.6	4.94	30		
Dibenzo(a,h)anthracene	560.8	6.6	658.6	0	85.1	40-125	519.9	7.56	30		
Fluoranthene	639.1	6.6	658.6	6.157	96.1	55-115	627.8	1.79	30		
Fluorene	568.7	6.6	658.6	0	86.3	50-110	562.4	1.11	30		
Indeno(1,2,3-cd)pyrene	592.7	6.6	658.6	0	90	40-120	529.2	11.3	30		
Naphthalene	499.9	6.6	658.6	0	75.9	40-105	516.6	3.29	30		
Pyrene	615.8	6.6	658.6	6.482	92.5	45-125	540.8	13	30		
Surr: 2-Fluorobiphenyl	1247	0	1646	0	75.7	12-100	1189	4.8	40		
Surr: 4-Terphenyl-d14	1334	0	1646	0	81	25-137	1229	8.18	40		
Surr: Nitrobenzene-d5	1252	0	1646	0	76	37-107	1260	0.688	40		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc

Work Order: 1509031

Project: TR 24-28

QC BATCH REPORT

Batch ID: **75593**

Instrument ID **SVMS4**

Method: **SW846 8270D**

The following samples were analyzed in this batch:

1509031-01B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
 Work Order: 1509031
 Project: TR 24-28

QC BATCH REPORT

Batch ID: 75963 Instrument ID SVMS5 Method: SW846 8270D

MBLK		Sample ID: SBLKS1-75963-75963				Units: µg/Kg		Analysis Date: 9/11/2015 07:41 PM		
Client ID:		Run ID: SVMS5_150911A		SeqNo: 3456088		Prep Date: 9/11/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	ND	6.7								
Acenaphthylene	ND	6.7								
Anthracene	ND	6.7								
Benzo(a)anthracene	ND	6.7								
Benzo(a)pyrene	ND	6.7								
Benzo(b)fluoranthene	ND	6.7								
Benzo(g,h,i)perylene	ND	6.7								
Benzo(k)fluoranthene	ND	6.7								
Chrysene	ND	6.7								
Dibenzo(a,h)anthracene	ND	6.7								
Fluoranthene	ND	6.7								
Fluorene	ND	6.7								
Indeno(1,2,3-cd)pyrene	ND	6.7								
Naphthalene	ND	6.7								
Pyrene	ND	6.7								
Surr: 2-Fluorobiphenyl	964	0	1667	0	57.8	12-100	0			
Surr: 4-Terphenyl-d14	1415	0	1667	0	84.9	25-137	0			
Surr: Nitrobenzene-d5	927.3	0	1667	0	55.6	37-107	0			

LCS		Sample ID: SLCSS1-75963-75963				Units: µg/Kg		Analysis Date: 9/11/2015 08:03 PM		
Client ID:		Run ID: SVMS5_150911A		SeqNo: 3456089		Prep Date: 9/11/2015		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	505.7	6.7	666.7	0	75.8	45-110	0			
Acenaphthylene	552	6.7	666.7	0	82.8	45-105	0			
Anthracene	601.7	6.7	666.7	0	90.2	55-105	0			
Benzo(a)anthracene	589.3	6.7	666.7	0	88.4	50-110	0			
Benzo(a)pyrene	613.7	6.7	666.7	0	92	50-110	0			
Benzo(b)fluoranthene	615.3	6.7	666.7	0	92.3	45-115	0			
Benzo(g,h,i)perylene	499.7	6.7	666.7	0	74.9	40-125	0			
Benzo(k)fluoranthene	592	6.7	666.7	0	88.8	45-115	0			
Chrysene	585.7	6.7	666.7	0	87.8	55-110	0			
Dibenzo(a,h)anthracene	559	6.7	666.7	0	83.8	40-125	0			
Fluoranthene	591	6.7	666.7	0	88.6	55-115	0			
Fluorene	533.7	6.7	666.7	0	80	50-110	0			
Indeno(1,2,3-cd)pyrene	536	6.7	666.7	0	80.4	40-120	0			
Naphthalene	491.3	6.7	666.7	0	73.7	40-105	0			
Pyrene	669.7	6.7	666.7	0	100	45-125	0			
Surr: 2-Fluorobiphenyl	1218	0	1667	0	73.1	12-100	0			
Surr: 4-Terphenyl-d14	1492	0	1667	0	89.5	25-137	0			
Surr: Nitrobenzene-d5	1210	0	1667	0	72.6	37-107	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc

Work Order: 1509031

Project: TR 24-28

QC BATCH REPORT

Batch ID: **75963**

Instrument ID **SVMS5**

Method: **SW846 8270D**

The following samples were analyzed in this batch:

1509031-01B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc

QC BATCH REPORT

Work Order: 1509031

Project: TR 24-28

Batch ID: 75495

Instrument ID VMS9

Method: SW8260B

MBLK		Sample ID: MBLK-75495-75495				Units: µg/Kg		Analysis Date: 9/1/2015 04:42 PM		
Client ID:		Run ID: VMS9_150901A			SeqNo: 3441867		Prep Date: 9/1/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
Surr: 1,2-Dichloroethane-d4	987	0	1000	0	98.7	70-130	0			
Surr: 4-Bromofluorobenzene	950	0	1000	0	95	70-130	0			
Surr: Dibromofluoromethane	961	0	1000	0	96.1	70-130	0			
Surr: Toluene-d8	988	0	1000	0	98.8	70-130	0			

LCS		Sample ID: LCS-75495-75495				Units: µg/Kg		Analysis Date: 9/1/2015 02:59 PM		
Client ID:		Run ID: VMS9_150901A			SeqNo: 3441865		Prep Date: 9/1/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1024	30	1000	0	102	75-125	0			
Ethylbenzene	990.5	30	1000	0	99	75-125	0			
m,p-Xylene	1996	60	2000	0	99.8	80-125	0			
o-Xylene	962.5	30	1000	0	96.2	75-125	0			
Toluene	990	30	1000	0	99	70-125	0			
Xylenes, Total	2958	90	3000	0	98.6	75-125	0			
Surr: 1,2-Dichloroethane-d4	977	0	1000	0	97.7	70-130	0			
Surr: 4-Bromofluorobenzene	1046	0	1000	0	105	70-130	0			
Surr: Dibromofluoromethane	964	0	1000	0	96.4	70-130	0			
Surr: Toluene-d8	1006	0	1000	0	101	70-130	0			

MS		Sample ID: 1509031-01A MS				Units: µg/Kg		Analysis Date: 9/2/2015 06:32 PM		
Client ID: Confirmation		Run ID: VMS5_150902A			SeqNo: 3443819		Prep Date: 9/1/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1171	30	1000	0	117	75-125	0			
Ethylbenzene	1112	30	1000	17.5	109	75-125	0			
m,p-Xylene	2939	60	2000	566	119	80-125	0			
o-Xylene	1158	30	1000	70.5	109	75-125	0			
Toluene	1254	30	1000	122	113	70-125	0			
Xylenes, Total	4096	90	3000	640	115	75-125	0			
Surr: 1,2-Dichloroethane-d4	976.5	0	1000	0	97.6	70-130	0			
Surr: 4-Bromofluorobenzene	1042	0	1000	0	104	70-130	0			
Surr: Dibromofluoromethane	1004	0	1000	0	100	70-130	0			
Surr: Toluene-d8	939	0	1000	0	93.9	70-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 1509031
Project: TR 24-28

QC BATCH REPORT

Batch ID: **75495** Instrument ID **VMS9** Method: **SW8260B**

MSD		Sample ID: 1509031-01A MSD				Units: µg/Kg		Analysis Date: 9/2/2015 06:58 PM		
Client ID: Confirmation		Run ID: VMS5_150902A			SeqNo: 3443820		Prep Date: 9/1/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1151	30	1000	0	115	75-125	1171	1.72	30	
Ethylbenzene	1099	30	1000	17.5	108	75-125	1112	1.13	30	
m,p-Xylene	2924	60	2000	566	118	80-125	2939	0.529	30	
o-Xylene	1160	30	1000	70.5	109	75-125	1158	0.216	30	
Toluene	1228	30	1000	122	111	70-125	1254	2.1	30	
Xylenes, Total	4084	90	3000	640	115	75-125	4096	0.318	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	953	0	1000	0	95.3	70-130	976.5	2.44	30	
<i>Surr: 4-Bromofluorobenzene</i>	1041	0	1000	0	104	70-130	1042	0.048	30	
<i>Surr: Dibromofluoromethane</i>	1017	0	1000	0	102	70-130	1004	1.24	30	
<i>Surr: Toluene-d8</i>	940	0	1000	0	94	70-130	939	0.106	30	

The following samples were analyzed in this batch: 1509031-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc

Work Order: 1509031

Project: TR 24-28

QC BATCH REPORT

Batch ID: **75533**

Instrument ID **WETCHEM**

Method: **USDA H60 Metho**

DUP	Sample ID: 1509031-04B DUP		Units: mmhos/cm @25°		Analysis Date: 9/3/2015 01:00 PM					
Client ID: BKGD 3	Run ID: WETCHEM_150903B		SeqNo: 3444281		Prep Date: 9/3/2015		DF: 10			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	0.771	0.050	0	0	0		0.775	0.517	50	

The following samples were analyzed in this batch:

1509031-01C	1509031-04B
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 1509031
Project: TR 24-28

QC BATCH REPORT

Batch ID: **75557** Instrument ID **WETCHEM** Method: **SW9045D**

LCS		Sample ID: LCS-75557-75557				Units: s.u.		Analysis Date: 9/2/2015 06:09 PM			
Client ID:		Run ID: WETCHEM_150902X		SeqNo: 3443241		Prep Date: 9/2/2015		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
pH	4.01	0	4	0	100	90-110	0				

DUP		Sample ID: 1509013-01B DUP				Units: s.u.		Analysis Date: 9/2/2015 06:09 PM			
Client ID:		Run ID: WETCHEM_150902X		SeqNo: 3443244		Prep Date: 9/2/2015		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
pH	8.55	0	0	0	0	0-0	8.56	0.117	20		

The following samples were analyzed in this batch:

1509031-01B	1509031-04A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
 Work Order: 1509031
 Project: TR 24-28

QC BATCH REPORT

Batch ID: **75684** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK	Sample ID: MBLK-75684-75684		Units: mg/Kg		Analysis Date: 9/4/2015 01:00 PM					
Client ID:	Run ID: WETCHEM_150904I		SeqNo: 3446393		Prep Date: 9/3/2015 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent ND 1.0

LCS	Sample ID: LCS-75684-75684		Units: mg/Kg		Analysis Date: 9/4/2015 01:00 PM					
Client ID:	Run ID: WETCHEM_150904I		SeqNo: 3446392		Prep Date: 9/3/2015 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 4.94 1.0 5 0 98.8 80-120 0

MS	Sample ID: 1509052-01A MS		Units: mg/Kg		Analysis Date: 9/4/2015 01:00 PM					
Client ID:	Run ID: WETCHEM_150904I		SeqNo: 3446382		Prep Date: 9/3/2015 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.602 0.93 4.63 0.7925 17.5 75-125 0 S

MS	Sample ID: 1509052-01A MSI		Units: mg/Kg		Analysis Date: 9/4/2015 01:00 PM					
Client ID:	Run ID: WETCHEM_150904I		SeqNo: 3446384		Prep Date: 9/3/2015 DF: 100					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1839 95 1808 0.7925 102 75-125 0

MSD	Sample ID: 1509052-01A MSD		Units: mg/Kg		Analysis Date: 9/4/2015 01:00 PM					
Client ID:	Run ID: WETCHEM_150904I		SeqNo: 3446383		Prep Date: 9/3/2015 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.519 0.94 4.717 0.7925 15.4 75-125 1.602 5.32 20 S

The following samples were analyzed in this batch:

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 1509031
Project: TR 24-28

QC BATCH REPORT

Batch ID: **R171146** Instrument ID **MOIST** Method: **E160.3M**

MBLK	Sample ID: MB-R171146-R171146					Units: % of sample		Analysis Date: 9/4/2015 10:33 AM		
Client ID:	Run ID: MOIST_150904A			SeqNo: 3448236		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture ND 0.050

LCS	Sample ID: LCS-R171146-R171146					Units: % of sample		Analysis Date: 9/4/2015 10:33 AM		
Client ID:	Run ID: MOIST_150904A			SeqNo: 3448237		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 100 0.050 100 0 100 99.5-100.5 0

DUP	Sample ID: 1509055-01C DUP					Units: % of sample		Analysis Date: 9/4/2015 10:33 AM		
Client ID:	Run ID: MOIST_150904A			SeqNo: 3448217		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 50.07 0.050 0 0 0 50 0.14 20

DUP	Sample ID: 1509108-01A DUP					Units: % of sample		Analysis Date: 9/4/2015 10:33 AM		
Client ID:	Run ID: MOIST_150904A			SeqNo: 3448219		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 6.74 0.050 0 0 0 6.07 10.5 20

The following samples were analyzed in this batch: 1509031-02A 1509031-03A 1509031-04A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 1509031
Project: TR 24-28

QC BATCH REPORT

Batch ID: **R171147** Instrument ID **MOIST** Method: **E160.3M**

MBLK		Sample ID: WBLKS-R171147				Units: % of sample			Analysis Date: 9/4/2015 01:34 PM		
Client ID:		Run ID: MOIST_150904B				SeqNo: 3447598		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Moisture	0.03	0.050								J	

LCS		Sample ID: LCS-R171147				Units: % of sample			Analysis Date: 9/4/2015 01:34 PM		
Client ID:		Run ID: MOIST_150904B				SeqNo: 3447593		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Moisture	100	0.050	100	0	100	99.5-100.5	0				

DUP		Sample ID: 15081474-01A DUP				Units: % of sample			Analysis Date: 9/4/2015 01:34 PM		
Client ID:		Run ID: MOIST_150904B				SeqNo: 3447568		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Moisture	10.43	0.050	0	0	0		10.49	0.574	20		

DUP		Sample ID: 1509168-01B DUP				Units: % of sample			Analysis Date: 9/4/2015 01:34 PM		
Client ID:		Run ID: MOIST_150904B				SeqNo: 3447579		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Moisture	19.1	0.050	0	0	0		18.76	1.8	20		

The following samples were analyzed in this batch:

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



ALS Laboratory Group

3352 128th Ave. Holland, MI 49424
TF: (800) 443-1511 PH: (616) 399-6070 FX: (616) 399-6185

Chain-of-Custody

Form 202r1

WORKORDER # 1509031

PROJECT NAME		TR 24-28	SAMPLER		JF	DATE		8.31.15		PAGE		1 of 1			
PROJECT No.			SITE ID			TURNAROUND		5 day		DISPOSAL		By Lab by Return to Client			
COMPANY NAME		HRL Compliance Solutions, Inc.	EDD FORMAT			PURCHASE ORDER									
SEND REPORT TO		Mark Mumby	BILL TO COMPANY		HRL Compliance Solutions, Inc.	INVOICE ATTN TO		Missy DeRose, Staci Knob, Kim Cass							
ADDRESS		2385 F 1/2 Road	ADDRESS		2385 F 1/2 Road	CITY / STATE / ZIP		Grand Junction, CO 81505							
PHONE		970-243-3271	PHONE		970-243-3271	FAX		970-243-3280							
E-MAIL		mmumby@hrlcomp.com	E-MAIL		mderoose@hrlcomp.com, sknob@hrlcomp.com, kcass@hrlcomp.com										
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	DRO	GRO	BTEX	Metals (COGCC Table 910-1)	PAH	SAR	EC	PH
1	Confirmation	Soil	8.28.15	1345	3	8		x	x	x	x	x	x	x	x
2	BKGD 1 (see comments)	Soil	8.28.15	1347	1	8					x				
3	BKGD 2 (see comments)	Soil	8.28.15	1349	1	8					x				
4	BKGD 3 (see comments)	Soil	8.28.15	1351	2	8					x	x	x	x	
5		trip data		28-1		KJ		9/1/15							

*Time Zone (Circle): EST CST ~~MST~~ PST Matrix: O=oil S=soil NS=non-soil solid W=water L=liquid E=extract F=filter

For metals or anions, please detail analytes below.

Comments: 4.6°C Only run arsenic on BKGD 1, BKGD 2 and BKGD 3	QC PACKAGE (check below)	
	<input checked="" type="checkbox"/>	LEVEL II (Standard QC)
	<input type="checkbox"/>	LEVEL III (Std QC + forms)
	<input type="checkbox"/>	LEVEL IV (Std QC + forms + raw data)
Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035		

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY	<i>Casey Richardson</i>	Casey Richardson	8.31.15	1210
RECEIVED BY	<i>[Signature]</i>		8-31-15	1200
RELINQUISHED BY	<i>[Signature]</i>		8-31-15	1300
RECEIVED BY	<i>[Signature]</i>	KEITH W. ERNST	9/1/15	1000
RELINQUISHED BY				
RECEIVED BY				

Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **01-Sep-15 10:00**

Work Order: **1509031**

Received by: **KRW**

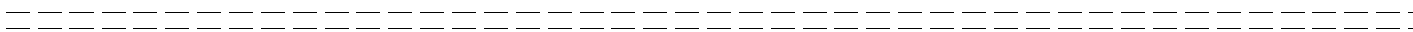
Checklist completed by Keith Wierenga 01-Sep-15
eSignature Date

Reviewed by: Lee Drndol 01-Sep-15
eSignature Date

Matrices: Soil
 Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>4.6/4.6 C</u>		<u>SR2</u>
Cooler(s)/Kit(s):	<u> </u>		
Date/Time sample(s) sent to storage:	<u>9/1/2015 1:19:47 PM</u>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:	<u> </u>		

Login Notes:



Client Contacted: _____ Date Contacted: _____ Person Contacted: _____
 Contacted By: _____ Regarding: _____

Comments:

CorrectiveAction: