

State of Colorado
Oil and Gas Conservation Commission

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



DOCUMENT
#2215766

SUNDRY NOTICE

Submit original plus one copy. This form is to be used for general, technical and environmental sundry information. For proposed or completed operations, describe in full on Technical Information Page (Page 2 of this form). Identify well or other facility by API Number or by OGCC Facility ID. Operator shall send an informational copy of all sundry notices for wells located in High Density Areas to the Local Government Designee (Rule 603b.)

RECEIVED
8/24/2011

1. OGCC Operator Number: 96850	4. Contact Name: Karolina Blaney	Complete the Attachment Checklist OGCC
2. Name of Operator: Williams Production RMT Company	Phone: 970-683-2295	
3. Address: 1058 County Road 215	Fax: 970-285-9573	
City: Parachute State: CO Zip: 81635		
5. API Number 05-045-10918	OGCC Facility ID Number 278696	Survey Plat
6. Well/Facility Name:	7. Well/Facility Number TR 31-5-697	Directional Survey
8. Location (Qtr/Clr, Sec, Twp, Rng, Meridian) NWNE Sec 5 T6S R97W		Surface Eqmt Diagram
9. County: Garfield	10. Field Name: Trail Ridge	Technical Info Page X
11. Federal, Indian or State Lease Number:		Other X

General Notice

☐ CHANGE OF LOCATION: Attach New Survey Plat (a change of surface qtr/qlr is substantive and requires a new permit)

Change of Surface Footage from Exterior Section Lines: ☐ FNL/FSL ☐ FEL/FWL

Change of Surface Footage to Exterior Section Lines: ☐

Change of Bottomhole Footage from Exterior Section Lines: ☐

Change of Bottomhole Footage to Exterior Section Lines: ☐ attach directional survey

Bottomhole location Qtr/Clr, Sec, Twp, Rng, Mer

Latitude Distance to nearest property line Distance to nearest bldg, public rd, utility or RR

Longitude Distance to nearest lease line Is location in a High Density Area (rule 603b)? Yes/No

Ground Elevation Distance to nearest well same formation Surface owner consultation date:

GPS DATA:
Date of Measurement PDOP Reading Instrument Operator's Name

☐ CHANGE SPACING UNIT Formation Formation Code Spacing order number Unit Acreage Unit configuration

☐ Remove from surface bond Signed surface use agreement attached

☐ CHANGE OF OPERATOR (prior to drilling): Effective Date: Plugging Bond: ☐ Blanket ☐ Individual

☐ CHANGE WELL NAME NUMBER From: To: Effective Date:

☐ ABANDONED LOCATION: Was location ever built? ☐ Yes ☐ No Is site ready for inspection? ☐ Yes ☐ No Date Ready for Inspection:

☐ NOTICE OF CONTINUED SHUT IN STATUS Date well shut in or temporarily abandoned: Has Production Equipment been removed from site? ☐ Yes ☐ No MIT required if shut in longer than two years. Date of last MIT

☐ SPUD DATE: ☐ REQUEST FOR CONFIDENTIAL STATUS (6 mos from date casing set)

☐ SUBSEQUENT REPORT OF STAGE, SQUEEZE OR REMEDIAL CEMENT WORK *submit cbl and cement job summaries

Method used	Cementing tool setting/perf depth	Cement volume	Cement top	Cement bottom	Date
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☐ RECLAMATION: Attach technical page describing final reclamation procedures per Rule 1004. Final reclamation will commence on approximately Final reclamation is completed and site is ready for inspection.

Technical Engineering/Environmental Notice

☐ Notice of Intent Approximate Start Date: ☒ Report of Work Done Date Work Completed: August 8, 2011

Details of work must be described in full on Technical Information Page (Page 2 must be submitted.)

<input type="checkbox"/> Intent to Recomplete (submit form 2)	<input type="checkbox"/> Request to Vent or Flare	<input type="checkbox"/> E&P Waste Disposal
<input type="checkbox"/> Change Drilling Plans	<input type="checkbox"/> Repair Well	<input type="checkbox"/> Beneficial Reuse of E&P Waste
<input type="checkbox"/> Gross Interval Changed?	<input type="checkbox"/> Rule 502 variance requested	<input checked="" type="checkbox"/> Status Update/Change of Remediation Plans
<input type="checkbox"/> Casing/Cementing Program Change	<input type="checkbox"/> Other:	for Spills and Releases

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

Signed: Karolina Blaney Date: 8/24/2011 Email: karolina.blaney@williams.com
Print Name: Karolina Blaney Title: Environmental Specialist

COGCC Approved: [Signature] Title: FOR Date: 09/07/2011

CONDITIONS OF APPROVAL, IF ANY:
Chris Canfield
EPS NW Region

• Install MWS
• Keep COGCC informed of remediation activities (Bottom/walls) on the pit and findings in GW downgradient of the pit.

[Signature]

TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

1. OGCC Operator Number:	96850	API Number:	N/A
2. Name of Operator:	Williams Production RMT Company OGCC Facility ID # 278696		
3. Well/Facility Name:		Well/Facility Number:	TR 31-5-697
4. Location (QtrQtr, Sec, Twp, Rng, Meridian):	NWNE Sec 5 T6S R97W 6th pm		

This form is to be completed whenever a Sundry Notice is submitted requiring detailed report of work to be performed or completed. This form shall be transmitted within 30 days of work completed as a "subsequent" report and must accompany Form 4, page 1.

5. **DESCRIBE PROPOSED OR COMPLETED OPERATIONS**
- Williams Production is submitting the following pit closure summary for the TR 31-5-697 production pit. The summary includes current project status and proposed additional site investigation in regards to groundwater impacts that were encountered during the closure activities at the TR 31-5-697. Refer to remediation # 5258. The summary is included as Attachment A

Form 4 Attachment

Introduction

The purpose of this Sundry Notice Form 4 report is to provide detailed information about the pit investigation and closure activities currently taking place on the Williams TR 31-5-697 (COGCC Facility ID# 278696; hereinafter also referred to as TR 31-5-697) that started on 6/8/2011. A Form 27 was originally submitted on 9/27/2010 (remediation #5258) and a subsequent Form 19 was submitted on 6/28/2011 (tracking # 2214716). This report will provide the documentation necessary to demonstrate that a comprehensive and diligent investigation and remediation of the pit and adjacent environment is being conducted in accordance with all appropriate county, state and federal rules and regulations. The report also requests approval of additional groundwater monitoring wells.

Pit Liner Investigation

The pit liner was physically investigated on June 6, 2011 to determine the integrity of the pit liner. During the investigation, no holes or rips were found on either the side walls or the pit bottom. The structural integrity of the pit floor was sturdy and firm, indicating that no presence of water was below the lining material. This liner was installed in the fall of 2010 as an upgrade to existing liners present. There was no evidence of contamination when this new liner was installed.

Pit Liner Removal

Removal of the pit liners consisted of a crew cutting the liners along the crest of the pit at an elevation adjacent to the surface of the well pad. A trackhoe bucket was utilized to grab sections of the liners for extraction and place them in a lined earthen bermed containment cell for subsequent management and disposal.

Subliner Soil Investigation and Remediation Activities

Subliner soils, examined below the pit lining, were inspected visually and through the use of specialized field screening equipment (identified below) to determine whether the soil met the standards set forth in Table 910-1 of the COGCC 900-Series Rule.

Field screening of the pit footprint and walls was performed along the entire wall and bottom of the pit in a grid pattern of sections. The pit bottom was separated into two sections (north and south) and a five point composite sample was collected from each of the sections, with a depth of 0-6 inches below the surface. In addition to the pit walls, a five point composite sample was collected from each of the pit walls and field screened for hydrocarbons. Based on field screening results, the pit bottom and the adjacent pit walls exceeded COGCC Table 910-1 for hydrocarbons within soil.

A trackhoe was utilized to excavate the impacted area to 3 feet until native soil was encountered on the pit walls and field screening of the soil indicated that hydrocarbon concentrations were well below COGCC Table 910-1 standards.

The pit bottom contained a hydrocarbon odor and field screening results indicated that additional excavation was required. An additional 2 feet was excavated from the bottom of the pit, where ground water was encountered and excavation stopped. Figure 1 outlines the pit grid sampling nomenclature.

Figure 1
Pit Sampling ID Layout

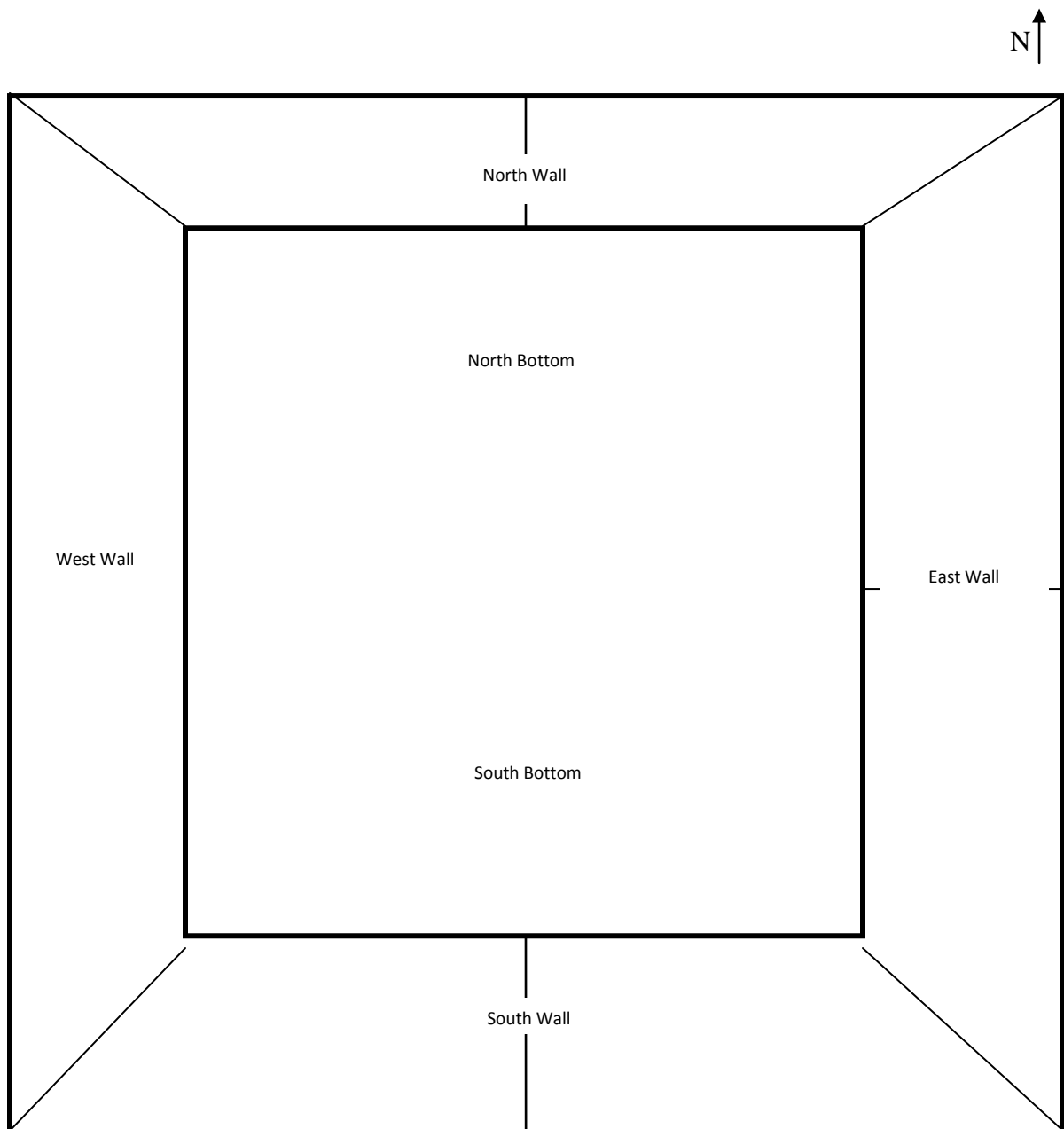


Table 1: PetroFlag Hydrocarbon Initial Field Screening Results

	0-6 Inches
North Wall	2300
East Wall	>5000
West Wall	1680
South Wall	1215
South Bottom	>5000
North Bottom	>5000

All results are in mg/kg

Figure 2: GIS Map of Sampling Locations



Discoloration of the soil within the pit was no longer present at the excavated depth and field screening results indicated that hydrocarbon concentrations were below 500 ppm. Confirmation samples were collected and analyzed for COGCC Table 910-1 standards.

- Confirmation samples, in accordance with Rule 905.b.(4), were collected from each of the pit side walls at a position that was centered vertically and horizontally. These samples were collected for confirmation of compliance with COGCC Rule 910 and Table 910-1; as well as verification of field screening analysis. Two (2) additional grab samples were collected from the bottom of the pit, to demonstrate compliance in accordance with Rule 905.b.(1).
- A Trimble Geo XT 2008 was used to collect GPS locations of each confirmation sample location from the pit walls and pit footprint.

Analytical data presented in Table 2 provides results for the confirmation soil sampling performed post excavation, at various depths of the pit footprint (raw analytical results are available for review in Appendix 1 of this report).

Background Sampling

Three soil samples were collected from the undisturbed hillsides surrounding the pad. All background samples were analyzed for arsenic. Additional analysis at one location included inorganic parameters of COGCC Table 910-1(i.e. SAR, EC, pH). Refer to Table 3 and Appendix 2 for background sampling results.

Ground Water Sampling

During the above mentioned pit closure activities on the Williams TR 31-5-697, ground water was encountered while excavating a small area of impacted soil in the very northeastern corner of the pit. It appears the water is flowing from the weathered bedrock along the northern edge of the pit and pad, and possibly in the alluvial sediments in the drainage feature where the pad is constructed. The ground water, when it flowed from the northeastern corner of the pit wall/bottom, did exhibit a sheen indicating that the water has been impacted by hydrocarbons.

Water samples were collected from the pit bottom at two locations. In addition, at the request of the COGCC, a water sample was also collected from the nearest potential receptor which is a seep located approximately 2,185 feet to the southwest of the TR 31-5-697 production pit. Three test holes were also dug at three locations upgradient of the pit in order to determine if groundwater was present. Of the three locations; test holes one and two did encounter groundwater and test hole three was dry. Water samples were collected from test holes one and two and all samples were sent to an accredited laboratory for analysis.

Analytical results for ground water collected from the pit bottom indicated results slightly above Table 910-1 standards for hydrocarbon. Chloride results were low indicating that the impacts

discovered may be from an older release. Analytical results from the seep located to the southwest were non-detect indicating that the impacts did not extend a great distance from the pit itself. Water samples collected from the two upgradient test holes indicated slight impacts in test hole one (1). Benzene and Ethylbenzene were non-detect. Low levels of Toluene and Xylenes were observed. However, this may be from some residual contaminated soil on the excavator bucket, which was cleaned prior to digging the holes. Test hole two (2) was non-detect suggesting that groundwater was not impacted upgradient of the pit. The analytical results for ground water are noted in Table 2 and the ground water sampling locations are depicted on Attachment B.

HCSI and Williams would like to install four groundwater monitoring wells as depicted on Attachment C. Two of the proposed wells would be drilled directly down gradient of the pit boundary on the southwestern side, to a depth of approximately 30 feet, where ground water was encountered during the preliminary investigation. One additional down gradient well will be drilled approximately 320 feet further downgradient of the pit. This well will also be completed in the first water bearing zone corresponding to ground water encountered in the pit. Finally, one upgradient well will be drilled to the northeast of the pit boundary to confirm there is not an upgradient source of contamination.

The wells will be drilled utilizing an air rotary rig. If geological conditions warrant greater detail of the underlying bedrock, certain intervals may be cored to further evaluate the sub-surface conditions. Further remedial actions will be determined once the wells are installed, developed and sampled. A map depicting the proposed well locations is included as Attachment C. Water samples collected from these wells will include the COGCC Table 910-1 analytical suite in addition to other parameters which may provide greater detail on the potential impacts to groundwater downgradient of the pit.

Figure 3: Ground Water Sampling Locations

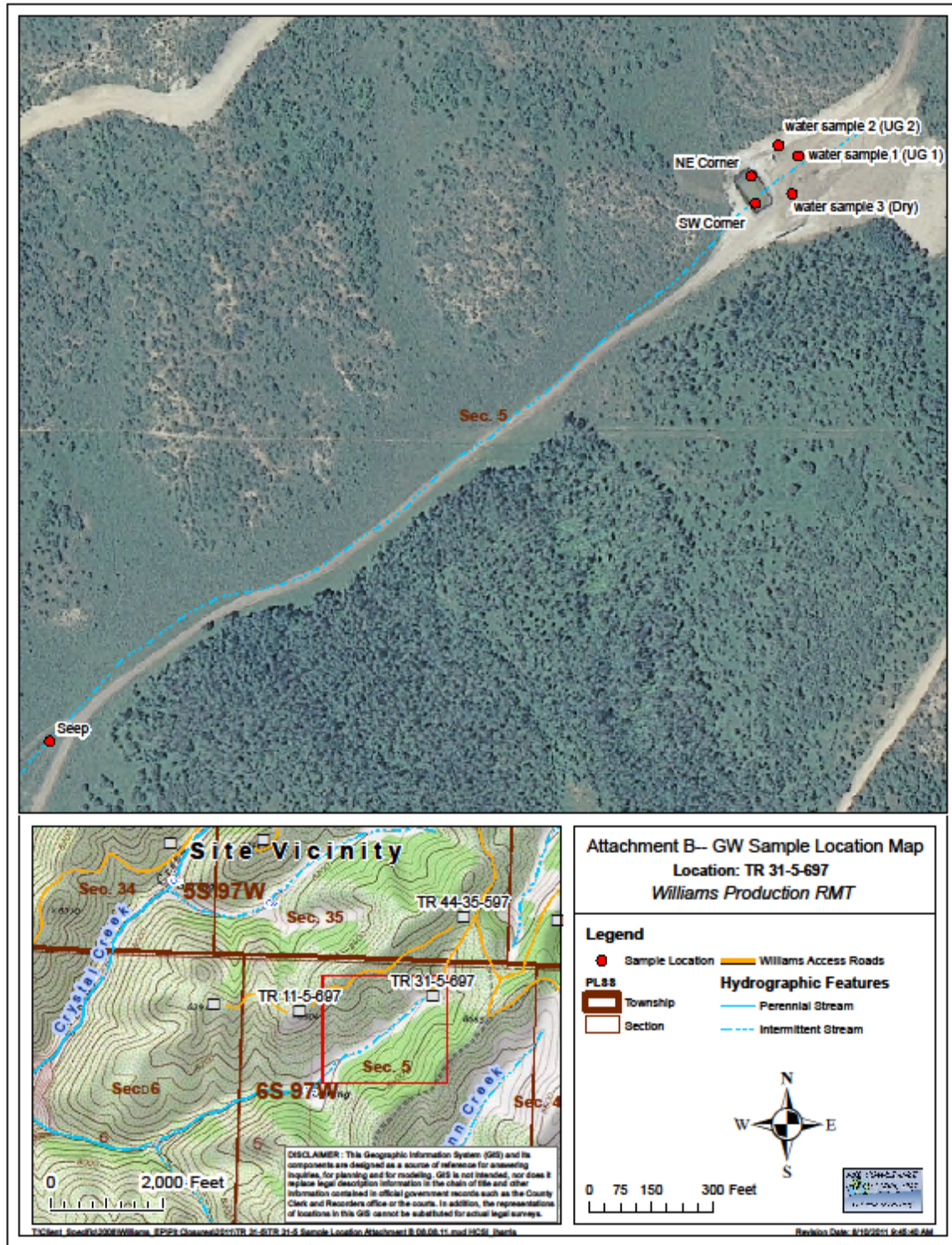
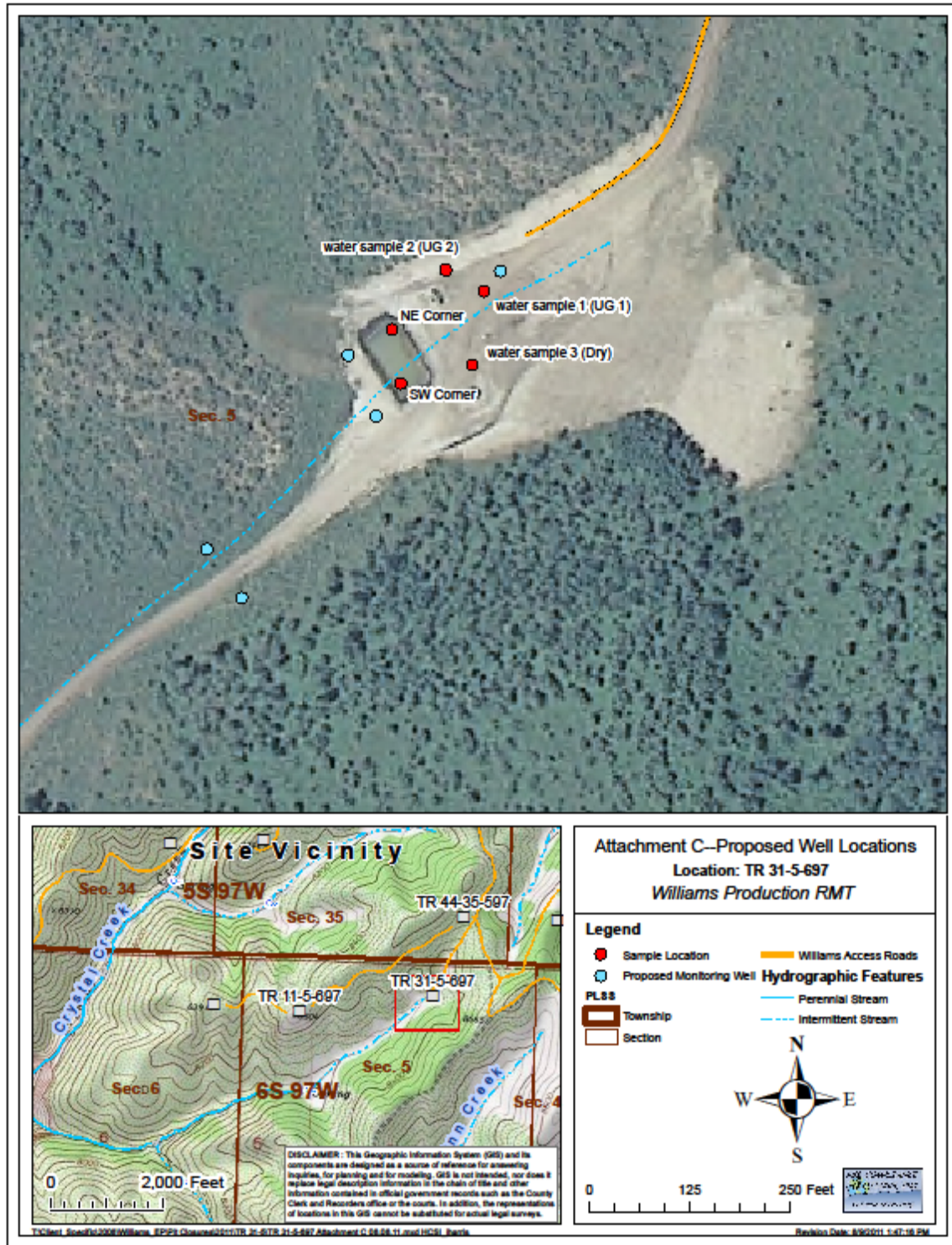


Figure 4: Proposed Monitor Well Locations



Figures

Figure 5



Visual Representation of the Pit Facing South During Excavation

Summary Tables

Table 1: Post Excavation of Eastern Pit Bottom & Bottom Analytical Results

Post Excavation of Pit Walls and Bottom	East Wall @ 3'	South Wall @ 3'	North Wall @ 3'	West Wall @ 3'	Pit Bottom – South @ 5'	Pit Bottom – North @ 5'
TEPH (DRO)	630	13	10	15	34	300
TVPH (GRO)	45	ND	ND	55	ND	86
BENZENE	ND	ND	ND	ND	ND	ND
TOLUENE	ND	ND	ND	ND	ND	ND
ETHYLBENZENE	ND	ND	ND	ND	ND	ND
XYLENE TOTAL	ND	ND	ND	ND	ND	380
ACENAPHTHENE	ND	ND	ND	ND	ND	ND
ACENAPHTHYLENE	ND	ND	ND	ND	ND	ND
ANTHRACENE	ND	ND	ND	ND	ND	ND
BENZO(A)ANTHRACENE	ND	ND	ND	ND	ND	ND
BENZO(A)PYRENE	ND	ND	ND	ND	ND	ND
BENZO(B)FLUORANTHENE	ND	ND	.066	ND	ND	ND
BENZO(G,H,I)PERYLENE	ND	ND	ND	ND	ND	ND
BENZO(K)FLUORANTHENE	ND	ND	ND	ND	ND	ND
CHRYSENE	ND	ND	ND	ND	ND	ND
DIBENZO(A,H)ANTHRACENE	ND	ND	ND	ND	ND	ND
FLUORANTHENE	ND	ND	ND	ND	ND	ND
FLUORENE	.190	ND	.037	ND	ND	.037
INDENO(1,2,3-CD)PYRENE	ND	ND	ND	ND	ND	ND
NAPHTHALENE	ND	ND	ND	ND	ND	ND
PYRENE	ND	ND	ND	ND	ND	ND
ARSENIC	4.0	5.5	15	3.9	5.1	6.2
BARIUM	280	470	560	290	380	370
CADMIUM	0.42	0.40	0.58	0.39	0.40	0.37
CHROMIUM	31	39	38	43	43	34
CHROMIUM (III)	31	39	38	43	42	33
CHROMIUM (IV)	ND	ND	ND	ND	ND	ND
COPPER	14	19	26	15	14	15
LEAD	14	17	26	14	16	16
NICKEL	23	26	28	21	22	23
SELENIUM	0.93	ND	1.3	0.95	0.98	1.6
SILVER	ND	ND	ND	ND	ND	ND
ZINC	68	74	99	65	69	58
Sodium Absorbntion Ratio (unitless)	212.5	278.2	8.0	344.4	196.5	52.8
Electric Conductivity (mmho/cm)	10.45	25.52	0.55	36.20	24.08	1.44
pH (unitless)	7.60	8.10	8.08	7.53	7.24	8.32

Note: all results are in, mg/kg = milligram per kilogram, unless noted
Exceedances are highlighted in yellow.

Table 2: Ground Water Analytical Results

		COGCC Allowable Concentrations in →→	5 µg/L	560 to 1000 µg/L	700 µg/L	Total Xylenes 1,400 - 10,000 µg/L	GRO No Standard for Water Reported in mg/L
Sample Location	Media	Sampling Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	GRO
NE Corner	Groundwater	6/30/2011	55	140	63	2,800	8.9
		7/7/2011	1.5	2.2	1.9	190	0.37
		7/22/2011	14	ND	120	3,900	13
SW Corner	Groundwater	6/16/2011	63	490	610	9,200	40
		7/22/2011	ND	ND	ND	1,000	3.7
Seep	Groundwater	7/8/2011	ND	ND	Nd	ND	ND
Water Smpl 1 UG	Groundwater	7/7/2011	ND	2	ND	11	ND
Water Smpl 2 (UG)	Groundwater	7/7/2011	ND	ND	ND	ND	ND
		6/16/2011	ND	ND	ND	ND	ND

Note:

ND Non-Detect

NS Not Sampled

NT Not Taken

Appendix 1: Pit Bottom and Wall Confirmation Raw Analytical Data

WORKORDER
#

1107651

PAGE

of /


DISPOSAL.



☒ By Lab ☐ or ☐ Return to Client

[illegible]

*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: <div style="text-align: center;">  3.6°C </div>	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)							
	<input type="checkbox"/>								
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		Mark E. Mumby	7/25/11	17:30
RECEIVED BY		Diane F. Shaw	7/20/11	1000
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

Client: HRL Compliance Solutions
Work Order: 1107651
Project: Williams TR 31-5-697 Pit Closure 7/22/11

QC BATCH REPORT

Batch ID: **R92728** Instrument ID **IC4** Method: **E300.0**

MBLK	Sample ID: CCB/MBLK-R92728				Units: mg/L		Analysis Date: 7/27/2011 09:54 AM			
Client ID:	Run ID: IC4_110727A				SeqNo: 1688935		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	ND	1.0								

LCS	Sample ID: CCV/LCS-R92728				Units: mg/L		Analysis Date: 7/27/2011 10:31 AM			
Client ID:	Run ID: IC4_110727A				SeqNo: 1688939		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	10.21	1.0	10	0	102	90-110	0			

LCSD	Sample ID: CCV/LCSD-R92728				Units: mg/L		Analysis Date: 7/27/2011 10:51 AM			
Client ID:	Run ID: IC4_110727A				SeqNo: 1688946		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	10.24	1.0	10	0	102	90-110	10.21	0.338	20	

MS	Sample ID: 1107690-12B MS				Units: mg/L		Analysis Date: 7/27/2011 12:56 PM			
Client ID:	Run ID: IC4_110727A				SeqNo: 1688970		Prep Date:		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	80.93	10	50	28.62	105	75-125	0			

MSD	Sample ID: 1107690-12B MSD				Units: mg/L		Analysis Date: 7/27/2011 01:15 PM			
Client ID:	Run ID: IC4_110727A				SeqNo: 1688971		Prep Date:		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	80.18	10	50	28.62	103	75-125	80.93	0.931	20	

The following samples were analyzed in this batch:

1107651-01B	1107651-02B
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1107651
Project: Williams TR 31-5-697 Pit Closure 7/22/11

QC BATCH REPORT

Batch ID: **R92689A** Instrument ID **VMS5** Method: **SW8260**

MS				Sample ID: 1107511-16A MS			Units: µg/Kg		Analysis Date: 7/27/2011 09:02 PM	
Client ID:				Run ID: VMS5_110727A			SeqNo: 1688808		Prep Date:	
									DF: 100	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	2272	100	2000	0	114	75-125	0			
Ethylbenzene	2229	200	2000	0	111	75-125	0			
o-Xylene	2202	100	2000	0	110	75-125	0			
Toluene	2204	150	2000	0	110	70-125	0			
Surr: 1,2-Dichloroethane-d4	10150	0	10000	0	101	70-120	0			
Surr: 4-Bromofluorobenzene	9792	0	10000	0	97.9	75-120	0			
Surr: Dibromofluoromethane	9986	0	10000	0	99.9	85-115	0			
Surr: Toluene-d8	10140	0	10000	0	101	85-115	0			

MSD				Sample ID: 1107511-16A MSD			Units: µg/Kg		Analysis Date: 7/27/2011 09:26 PM	
Client ID:				Run ID: VMS5_110727A			SeqNo: 1688815		Prep Date:	
									DF: 100	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	2256	100	2000	0	113	75-125	2272	0.707	30	
Ethylbenzene	2213	200	2000	0	111	75-125	2229	0.72	30	
o-Xylene	2186	100	2000	0	109	75-125	2202	0.729	30	
Toluene	2192	150	2000	0	110	70-125	2204	0.546	30	
Surr: 1,2-Dichloroethane-d4	10090	0	10000	0	101	70-120	10150	0.553	30	
Surr: 4-Bromofluorobenzene	9662	0	10000	0	96.6	75-120	9792	1.34	30	
Surr: Dibromofluoromethane	9967	0	10000	0	99.7	85-115	9986	0.19	30	
Surr: Toluene-d8	10040	0	10000	0	100	85-115	10140	0.922	30	

The following samples were analyzed in this batch:

1107651-01A	1107651-02A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1107651
Project: Williams TR 31-5-697 Pit Closure 7/22/11

QC BATCH REPORT

Batch ID: **R92689A** Instrument ID **VMS5** Method: **SW8260**

MBLK	Sample ID: VBLKW1-110727-R92689A				Units: µg/L		Analysis Date: 7/27/2011 01:19 PM			
Client ID:	Run ID: VMS5_110727A				SeqNo: 1688447		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Ethylbenzene	ND	1.0								
o-Xylene	ND	1.0								
Toluene	ND	1.0								
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>101.9</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>102</i>	<i>70-120</i>	<i>0</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>95.45</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>95.4</i>	<i>75-120</i>	<i>0</i>			
<i>Surr: Dibromofluoromethane</i>	<i>99.18</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>99.2</i>	<i>85-115</i>	<i>0</i>			
<i>Surr: Toluene-d8</i>	<i>105.2</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>105</i>	<i>85-120</i>	<i>0</i>			

LCS	Sample ID: VLCSW1-110727-R92689A				Units: µg/L		Analysis Date: 7/27/2011 12:06 PM			
Client ID:	Run ID: VMS5_110727A				SeqNo: 1688031		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.2	1.0	20	0	101	80-120	0			
Ethylbenzene	20.3	1.0	20	0	102	75-125	0			
o-Xylene	19.57	1.0	20	0	97.8	80-120	0			
Toluene	20.45	1.0	20	0	102	75-120	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>98.74</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>98.7</i>	<i>70-120</i>	<i>0</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>94.08</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>94.1</i>	<i>75-120</i>	<i>0</i>			
<i>Surr: Dibromofluoromethane</i>	<i>99.31</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>99.3</i>	<i>85-115</i>	<i>0</i>			
<i>Surr: Toluene-d8</i>	<i>105.1</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>105</i>	<i>85-120</i>	<i>0</i>			

LCSD	Sample ID: VLCSDW1-110727-R92689A				Units: µg/L		Analysis Date: 7/27/2011 12:30 PM			
Client ID:	Run ID: VMS5_110727A				SeqNo: 1688032		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	21.41	1.0	20	0	107	80-120	20.2	5.82	30	
Ethylbenzene	20.64	1.0	20	0	103	75-125	20.3	1.66	30	
o-Xylene	20.64	1.0	20	0	103	80-120	19.57	5.32	30	
Toluene	20.35	1.0	20	0	102	75-120	20.45	0.49	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>101.3</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>101</i>	<i>70-120</i>	<i>98.74</i>	<i>2.54</i>	<i>30</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>99.1</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>99.1</i>	<i>75-120</i>	<i>94.08</i>	<i>5.2</i>	<i>30</i>	
<i>Surr: Dibromofluoromethane</i>	<i>100.7</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>101</i>	<i>85-115</i>	<i>99.31</i>	<i>1.38</i>	<i>30</i>	
<i>Surr: Toluene-d8</i>	<i>101.6</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>102</i>	<i>85-120</i>	<i>105.1</i>	<i>3.47</i>	<i>30</i>	

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

Client: HRL Compliance Solutions
Work Order: 1107651
Project: Williams TR 31-5-697 Pit Closure 7/22/11

QC BATCH REPORT

Batch ID: **R92669A** Instrument ID **VMS6** Method: **SW8260**

MS				Sample ID: 1107601-01A MS			Units: µg/L		Analysis Date: 7/27/2011 07:43 AM		
Client ID:		Run ID: VMS6_110726B			SeqNo: 1688238		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Ethylbenzene	19.81	1.0	20	0	99	75-125	0				
m,p-Xylene	39.29	2.0	40	0	98.2	75-130	0				
o-Xylene	19.8	1.0	20	0	99	80-120	0				
Xylenes, Total	59.09	2.0	60	0	98.5	75-130	0				
Surr: 1,2-Dichloroethane-d4	101.1	0	100	0	101	70-120	0				
Surr: 4-Bromofluorobenzene	99.99	0	100	0	100	75-120	0				
Surr: Dibromofluoromethane	101.6	0	100	0	102	85-115	0				
Surr: Toluene-d8	98.92	0	100	0	98.9	85-120	0				

MSD	Sample ID: 1107601-01A MSD					Units: µg/L	Analysis Date: 7/27/2011 08:08 AM			
Client ID:	Run ID: VMS6_110726B					SeqNo:1688240	Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylbenzene	19.95	1.0	20	0	99.8	75-125	19.81	0.704	30	
m,p-Xylene	39.24	2.0	40	0	98.1	75-130	39.29	0.127	30	
o-Xylene	19.93	1.0	20	0	99.6	80-120	19.8	0.654	30	
Xylenes, Total	59.17	2.0	60	0	98.6	75-130	59.09	0.135	30	
Surr: 1,2-Dichloroethane-d4	101.2	0	100	0	101	70-120	101.1	0.0593	30	
Surr: 4-Bromofluorobenzene	99.42	0	100	0	99.4	75-120	99.99	0.572	30	
Surr: Dibromofluoromethane	101.8	0	100	0	102	85-115	101.6	0.187	30	
Surr: Toluene-d8	99.4	0	100	0	99.4	85-120	98.92	0.484	30	

The following samples were analyzed in this batch:

1107651-01A	1107651-02A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1107651
Project: Williams TR 31-5-697 Pit Closure 7/22/11

QC BATCH REPORT

Batch ID: **R92669A** Instrument ID **VMS6** Method: **SW8260**

MBLK	Sample ID: VBLKW2-110726-R92669A				Units: µg/L		Analysis Date: 7/26/2011 11:18 PM			
Client ID:	Run ID: VMS6_110726B				SeqNo: 1687565		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylbenzene	ND	1.0								
m,p-Xylene	ND	2.0								
o-Xylene	ND	1.0								
Xylenes, Total	ND	2.0								
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>100.1</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>100</i>	<i>70-120</i>	<i>0</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>96.06</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>96.1</i>	<i>75-120</i>	<i>0</i>			
<i>Surr: Dibromofluoromethane</i>	<i>99.29</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>99.3</i>	<i>85-115</i>	<i>0</i>			
<i>Surr: Toluene-d8</i>	<i>99.52</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>99.5</i>	<i>85-120</i>	<i>0</i>			

LCS	Sample ID: VLCSW2-110726-R92669A				Units: µg/L		Analysis Date: 7/26/2011 10:03 PM			
Client ID:	Run ID: VMS6_110726B				SeqNo: 1687563		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylbenzene	20.39	1.0	20	0	102	75-125	0			
m,p-Xylene	40.3	2.0	40	0	101	75-130	0			
o-Xylene	20.34	1.0	20	0	102	80-120	0			
Xylenes, Total	60.64	2.0	60	0	101	75-130	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>101.4</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>101</i>	<i>70-120</i>	<i>0</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>98.39</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>98.4</i>	<i>75-120</i>	<i>0</i>			
<i>Surr: Dibromofluoromethane</i>	<i>101.8</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>102</i>	<i>85-115</i>	<i>0</i>			
<i>Surr: Toluene-d8</i>	<i>100</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>100</i>	<i>85-120</i>	<i>0</i>			

LCSD	Sample ID: VLCSW2-110726-R92669A				Units: µg/L		Analysis Date: 7/26/2011 10:28 PM			
Client ID:	Run ID: VMS6_110726B				SeqNo: 1687564		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylbenzene	18.83	1.0	20	0	94.2	75-125	20.39	7.96	30	
m,p-Xylene	37.32	2.0	40	0	93.3	75-130	40.3	7.68	30	
o-Xylene	18.97	1.0	20	0	94.8	80-120	20.34	6.97	30	
Xylenes, Total	56.29	2.0	60	0	93.8	75-130	60.64	7.44	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>101.1</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>101</i>	<i>70-120</i>	<i>101.4</i>	<i>0.336</i>	<i>30</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>98.68</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>98.7</i>	<i>75-120</i>	<i>98.39</i>	<i>0.294</i>	<i>30</i>	
<i>Surr: Dibromofluoromethane</i>	<i>101.7</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>102</i>	<i>85-115</i>	<i>101.8</i>	<i>0.0884</i>	<i>30</i>	
<i>Surr: Toluene-d8</i>	<i>99.79</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>99.8</i>	<i>85-120</i>	<i>100</i>	<i>0.25</i>	<i>30</i>	

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

ALS Group USA, Corp

Date: 29-Jul-11

Client: HRL Compliance Solutions

Work Order: 1107651

Project: Williams TR 31-5-697 Pit Closure 7/22/11

QC BATCH REPORT

Batch ID: **R92758**

Instrument ID: **GC9**

Method: **SW8015**

MBLK	Sample ID: MBLK-R92758-R92758				Units: µg/L		Analysis Date: 7/27/2011 07:08 PM			
Client ID:	Run ID: GC9_110727B				SeqNo: 1689721		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	ND	200								
<i>Surr: Toluene-d8</i>	<i>108.6</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>109</i>	<i>70-130</i>	<i>0</i>			

LCS	Sample ID: LCS-R92758-R92758				Units: µg/L		Analysis Date: 7/27/2011 05:50 PM			
Client ID:	Run ID: GC9_110727B				SeqNo: 1689719		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	23730	200	25000	0	94.9	70-130	0			
<i>Surr: Toluene-d8</i>	<i>94.32</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>94.3</i>	<i>70-130</i>	<i>0</i>			

LCSD	Sample ID: LCSD-R95758-R92758				Units: µg/L		Analysis Date: 7/27/2011 06:16 PM			
Client ID:	Run ID: GC9_110727B				SeqNo: 1689720		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	23610	200	25000	0	94.4	70-130	23730	0.512	30	
<i>Surr: Toluene-d8</i>	<i>97.11</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>97.1</i>	<i>70-130</i>	<i>94.32</i>	<i>2.91</i>	<i>30</i>	

MS	Sample ID: 1107600-04A MS				Units: µg/Kg		Analysis Date: 7/28/2011 04:10 AM			
Client ID:	Run ID: GC9_110727B				SeqNo: 1689742		Prep Date:		DF: 100	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	2494000	5,000	2500000	0	99.8	70-130	0			
<i>Surr: Toluene-d8</i>	<i>9423</i>	<i>0</i>	<i>10000</i>	<i>0</i>	<i>94.2</i>	<i>50-150</i>	<i>0</i>			

MSD	Sample ID: 1107600-04A MSD				Units: µg/Kg		Analysis Date: 7/28/2011 04:36 AM			
Client ID:	Run ID: GC9_110727B				SeqNo: 1689743		Prep Date:		DF: 100	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	2387000	5,000	2500000	0	95.5	70-130	2494000	4.39	30	
<i>Surr: Toluene-d8</i>	<i>9709</i>	<i>0</i>	<i>10000</i>	<i>0</i>	<i>97.1</i>	<i>50-150</i>	<i>9423</i>	<i>2.99</i>	<i>30</i>	

The following samples were analyzed in this batch:

1107651-01A 1107651-02A

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

ALS Group USA, Corp

Date: 29-Jul-11

Client: HRL Compliance Solutions
Project: Williams TR 31-5-697 Pit Closure 7/22/11
Sample ID: NE Corner
Collection Date: 7/22/2011 10:10 AM

Work Order: 1107651
Lab ID: 1107651-02
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RM
GRO (C6-C10)	13		0.20	mg/L	1	7/28/2011 03:45 AM
Surr: Toluene-d8	109		70-130	%REC	1	7/28/2011 03:45 AM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: AK
Benzene	14		1.0	µg/L	1	7/27/2011 08:13 PM
Ethylbenzene	120		20	µg/L	20	7/27/2011 06:53 AM
m,p-Xylene	3,900		40	µg/L	20	7/27/2011 06:53 AM
o-Xylene	2.7		1.0	µg/L	1	7/27/2011 08:13 PM
Toluene	ND		1.0	µg/L	1	7/27/2011 08:13 PM
Xylenes, Total	3,900		40	µg/L	20	7/27/2011 06:53 AM
Surr: 1,2-Dichloroethane-d4	105		70-120	%REC	1	7/27/2011 08:13 PM
Surr: 1,2-Dichloroethane-d4	101		70-120	%REC	20	7/27/2011 06:53 AM
Surr: 4-Bromofluorobenzene	96.9		75-120	%REC	20	7/27/2011 06:53 AM
Surr: 4-Bromofluorobenzene	123	S	75-120	%REC	1	7/27/2011 08:13 PM
Surr: Dibromofluoromethane	97.6		85-115	%REC	20	7/27/2011 06:53 AM
Surr: Dibromofluoromethane	101		85-115	%REC	1	7/27/2011 08:13 PM
Surr: Toluene-d8	98.8		85-120	%REC	1	7/27/2011 08:13 PM
Surr: Toluene-d8	101		85-120	%REC	20	7/27/2011 06:53 AM
ANIONS BY ION CHROMATOGRAPHY			E300.0			Analyst: ED
Chloride	44		5.0	mg/L	5	7/27/2011 02:44 PM

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

ALS Group USA, Corp

Date: 29-Jul-11

Client: HRL Compliance Solutions
Project: Williams TR 31-5-697 Pit Closure 7/22/11
Sample ID: SW Corner
Collection Date: 7/22/2011 10:05 AM

Work Order: 1107651
Lab ID: 1107651-01
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RM
GRO (C6-C10)	3.7		0.20	mg/L	1	7/28/2011 03:19 AM
Surr: Toluene-d8	109		70-130	%REC	1	7/28/2011 03:19 AM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: AK
Benzene	ND		1.0	µg/L	1	7/27/2011 07:49 PM
Ethylbenzene	ND		1.0	µg/L	1	7/27/2011 07:49 PM
m,p-Xylene	830		200	µg/L	100	7/27/2011 07:18 AM
o-Xylene	200		100	µg/L	100	7/27/2011 07:18 AM
Toluene	ND		1.0	µg/L	1	7/27/2011 07:49 PM
Xylenes, Total	1,000		200	µg/L	100	7/27/2011 07:18 AM
Surr: 1,2-Dichloroethane-d4	100		70-120	%REC	100	7/27/2011 07:18 AM
Surr: 1,2-Dichloroethane-d4	103		70-120	%REC	1	7/27/2011 07:49 PM
Surr: 4-Bromofluorobenzene	122	S	75-120	%REC	1	7/27/2011 07:49 PM
Surr: 4-Bromofluorobenzene	95.9		75-120	%REC	100	7/27/2011 07:18 AM
Surr: Dibromofluoromethane	97.8		85-115	%REC	1	7/27/2011 07:49 PM
Surr: Dibromofluoromethane	98.3		85-115	%REC	100	7/27/2011 07:18 AM
Surr: Toluene-d8	99.0		85-120	%REC	100	7/27/2011 07:18 AM
Surr: Toluene-d8	99.1		85-120	%REC	1	7/27/2011 07:49 PM
ANIONS BY ION CHROMATOGRAPHY			E300.0			Analyst: ED
Chloride	45		5.0	mg/L	5	7/27/2011 02:25 PM

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

Client: HRL Compliance Solutions
Project: Williams TR 31-5-697 Pit Closure 7/22/11
WorkOrder: 1107651

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 detected below quantitation 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

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
TDL	Target Detection Limit

<u>Units Reported</u>	<u>Description</u>
µg/L	Micrograms per Liter
mg/L	Milligrams per Liter

Client: HRL Compliance Solutions
Project: Williams TR 31-5-697 Pit Closure 7/22/11
Work Order: 1107651

Case Narrative

Batch R92669A samples 1107651-01A and 1107651-02A Volatile surrogate recoveries for 4-Bromofluorobenzene were slightly above control limits due to matrix interference.

Client: HRL Compliance Solutions
Project: Williams TR 31-5-697 Pit Closure 7/22/11
Work Order: 1107651

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>
1107651-01	SW Corner	Water		7/22/2011 10:05	7/26/2011 10:00	<input type="checkbox"/>
1107651-02	NE Corner	Water		7/22/2011 10:10	7/26/2011 10:00	<input type="checkbox"/>



29-Jul-2011

Mark Mumby
HRL Compliance Solutions
744 Horizon Ct. Suite 140
Grand Junction, CO 81506

Re: **Williams TR 31-5-697 Pit Closure 7/22/11**

Work Order: **1107651**

Dear Mark,

ALS Environmental received 2 samples on 26-Jul-2011 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.

QC sample results for this data met 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 14.

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

Sincerely,

A handwritten signature in cursive script that reads "Ann Preston".

Electronically approved by: Ann Preston

Ann Preston
Project Manager



Certificate No: IL100452

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

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Environmental The ALS logo, a stylized blue triangle with a yellow flame inside.

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RIGHT SOLUTIONS RIGHT PARTNER

FedEx US Airbill
Express

FedEx
Tracking
Number

8746 3401 5917

0200 Form
ID No.

FedEx Retrieval Copy

1 From
Date 6/30/11 Sender's FedEx
Account Number
Sender's Name Reed W. D. Phone 770 243-6070
Company HRL Compliance
Address 744 Holizon Ct Suite 140
City Grand Junction State CO ZIP 81506

2 Your Internal Billing Reference

3 To
Recipient's Name Susan R. Brown Phone 1 402 299-6070
Company
Address
We cannot deliver to
Address
Use this line for the HLDN location address or for continuation of your shipping address.
City H. H. State HI ZIP 97724

4a Express Package Service

01 ☒ FedEx Priority Overnight
Next business morning. * Friday
shipments will be delivered on Monday
unless SATURDAY Delivery is selected.
03 ☐ FedEx 2Day
Second business day. * Thursday
shipments will be delivered on Monday
unless SATURDAY Delivery is selected.
05 ☐ FedEx Standard Overnight
Next business afternoon. *
Saturday Delivery NOT available.
06 ☐ FedEx First Overnight
Earliest next business morning
delivery to select locations *
20 ☐ FedEx Express Saver
Third business day. *
Saturday Delivery NOT available.

4b Express Freight Service

70 ☐ FedEx 1Day Freight
Next business day. * Friday shipments will
be delivered on Monday unless SATURDAY
Delivery is selected.
80 ☐ FedEx 2Day Freight
Second business day. * Thursday shipments will be delivered
on Monday unless SATURDAY Delivery is selected.
83 ☐ FedEx 3Day Freight
Third business day. * Saturday Delivery NOT available.

5 Packaging

06 ☐ FedEx Envelope* 02 ☐ FedEx Pak*
Includes FedEx Small Pak and
FedEx Large Pak.
03 ☐ FedEx Box 04 ☐ FedEx Tube 01 ☐ Other

6 Special Handling and Delivery Signature Options

03 ☐ SATURDAY DELIVERY

CUSTODY SEAL

DATE 6/30/11

SIGNATURE Reed W. D.

QEC

Quality Environmental Containers
800-255-3950 • 304-255-3900

7 Payment Bill To:

1 ☐ Sender
2 ☒ Recipient 3 ☐ Third Party 4 ☐ Credit Card 5 ☐ Cash/Check

Total Packages

Total Weight

Credit Card Auth.

Your liability is limited to \$100 unless you declare a higher value. See the current FedEx Service Guide for details.

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8746 3401 5917

606

Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **01-Jul-11 10:40**

Work Order: **1107012**

Received by: **KRW**

Checklist completed by Keith Wurenga
eSignature

01-Jul-11
Date

Reviewed by: Bill Carey
eSignature

01-Jul-11
Date

Matrices: **Water**

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 checked="" 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"/>	
Temperature(s)/Thermometer(s):	<u>1.2 C</u>		
Cooler(s)/Kit(s):			
Water - VOA vials have zero headspace?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted by:			
Login Notes:			

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:



ALS Laboratory Group

225 Commerce Drive, Fort Collins, Colorado 80524
TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

Form 202r8

WORKORDER
#

1107012

PROJECT NAME		TR 31-5-697 Pad LOE		SAMPLER		Reed Wold		DATE		6/30/2011		PAGE		1 of 1	
PROJECT No.				SITE ID		TR 31-5-697		TURNAROUND		2 day		DISPOSAL		By Lab <u>or</u> Return to Client	
COMPANY NAME		HRL COMPLIANCE SOLUTIONS Inc.		BILL TO COMPANY		Williams		BTEX/ GRO Chloride							
SEND REPORT TO		Mark Mumby		INVOICE ATTN TO		Karolia Blaney									
ADDRESS		744 HORIZON CT SUITE 140		ADDRESS		1058 co rd 215									
CITY / STATE / ZIP		GRAND JUNCTION CO 81506		CITY / STATE / ZIP		Parachute CO 81635									
PHONE		970-243-3271		PHONE		970-683-2295									
FAX		970-243-3280		FAX		970-285-9573									
E-MAIL		Mmumby@hrlcomp.com		E-MAIL		Karolia.blaney@williams.com									
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC								
1	SW corner	W	6/30/2011	10:18	6	1, 8		X	X						
2	NE 3 Corner	W	6/30/2011	9:50	5	1		X							
3	NE 2 Corner	W	6/30/2011	9:40	5	1		X							
4	NE 1 Corner	W	6/30/2011	9:30	5	1		X							

*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:	1.2°C	QC PACKAGE (check below)	
		X	LEVEL II (Standard QC)
			LEVEL III (Std QC + forms)
			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>Reed Wold</i>	Reed Wold	6/30/11	5:30
RECEIVED BY	<i>Karolia Blaney</i>	Karolia Blaney	7/1/11	1040
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

Client: HRL Compliance Solutions
Work Order: 1107012
Project: TR 31-5-697 Pad LOE 6/30/11

QC BATCH REPORT

Batch ID: **R91940A** Instrument ID **IC3** Method: **E300.0**

MBLK	Sample ID: CCB/MBLK-R91940A				Units: mg/L		Analysis Date: 7/6/2011 10:01 AM			
Client ID:	Run ID: IC3_110706A				SeqNo: 1670400		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	ND	1.0								

LCS	Sample ID: CCV/LCS-R91940A				Units: mg/L		Analysis Date: 7/6/2011 10:21 AM			
Client ID:	Run ID: IC3_110706A				SeqNo: 1670401		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	10.15	1.0	10	0	101	90-110	0			

LCSD	Sample ID: CCV/LCSD-R91940A				Units: mg/L		Analysis Date: 7/6/2011 10:40 AM			
Client ID:	Run ID: IC3_110706A				SeqNo: 1670403		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.913	1.0	10	0	99.1	90-110	10.15	2.36	20	

MS	Sample ID: 1107012-01B MS				Units: mg/L		Analysis Date: 7/6/2011 11:34 AM			
Client ID: SW Corner	Run ID: IC3_110706A				SeqNo: 1670405		Prep Date:		DF: 20	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	291.3	20	200	89.38	101	75-125	0			

MSD	Sample ID: 1107012-01B MSD				Units: mg/L		Analysis Date: 7/6/2011 11:53 AM			
Client ID: SW Corner	Run ID: IC3_110706A				SeqNo: 1670406		Prep Date:		DF: 20	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	284.9	20	200	89.38	97.7	75-125	291.3	2.22	20	

The following samples were analyzed in this batch:

1107012-01B

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

Client: HRL Compliance Solutions
Work Order: 1107012
Project: TR 31-5-697 Pad LOE 6/30/11

QC BATCH REPORT

Batch ID: **R91922A** Instrument ID **VMS5** Method: **SW8260**

MS				Sample ID: 1106771-14D MS		Units: µg/L		Analysis Date: 7/6/2011 08:27 PM		
Client ID:		Run ID: VMS5_110706A			SeqNo: 1671095		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.6	1.0	20	0.42	101	80-120		0		
Ethylbenzene	19.72	1.0	20	0	98.6	75-125		0		
m,p-Xylene	37.97	2.0	40	0	94.9	75-130		0		
o-Xylene	18.77	1.0	20	0	93.8	80-120		0		
Toluene	20.03	1.0	20	0	100	75-120		0		
Xylenes, Total	56.74	2.0	60	0	94.6	75-130		0		
Surr: 1,2-Dichloroethane-d4	94.98	0	100	0	95	70-120		0		
Surr: 4-Bromofluorobenzene	97.57	0	100	0	97.6	75-120		0		
Surr: Dibromofluoromethane	100.2	0	100	0	100	85-115		0		
Surr: Toluene-d8	100.1	0	100	0	100	85-120		0		

MSD				Sample ID: 1106771-14D MSD			Units: µg/L		Analysis Date: 7/6/2011 08:51 PM		
Client ID:		Run ID: VMS5_110706A			SeqNo: 1671096		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	20.16	1.0	20	0.42	98.7	80-120	20.6	2.16	30		
Ethylbenzene	19.2	1.0	20	0	96	75-125	19.72	2.67	30		
m,p-Xylene	36.96	2.0	40	0	92.4	75-130	37.97	2.7	30		
o-Xylene	18.3	1.0	20	0	91.5	80-120	18.77	2.54	30		
Toluene	19.4	1.0	20	0	97	75-120	20.03	3.2	30		
Xylenes, Total	55.26	2.0	60	0	92.1	75-130	56.74	2.64	30		
Surr: 1,2-Dichloroethane-d4	94.3	0	100	0	94.3	70-120	94.98	0.719	30		
Surr: 4-Bromofluorobenzene	96.92	0	100	0	96.9	75-120	97.57	0.668	30		
Surr: Dibromofluoromethane	101	0	100	0	101	85-115	100.2	0.786	30		
Surr: Toluene-d8	99.07	0	100	0	99.1	85-120	100.1	1.04	30		

The following samples were analyzed in this batch:

1107012-01A

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

Client: HRL Compliance Solutions
 Work Order: 1107012
 Project: TR 31-5-697 Pad LOE 6/30/11

QC BATCH REPORT

Batch ID: **R91922A** Instrument ID **VMS5** Method: **SW8260**

MBLK	Sample ID: VBLKW1-110706-R91922A				Units: µg/L		Analysis Date: 7/6/2011 12:23 PM			
Client ID:	Run ID: VMS5_110706A				SeqNo: 1670679		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Ethylbenzene	ND	1.0								
m,p-Xylene	ND	2.0								
o-Xylene	ND	1.0								
Toluene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 1,2-Dichloroethane-d4	96.98	0	100	0	97	70-120	0			
Surr: 4-Bromofluorobenzene	95.37	0	100	0	95.4	75-120	0			
Surr: Dibromofluoromethane	96.44	0	100	0	96.4	85-115	0			
Surr: Toluene-d8	99.99	0	100	0	100	85-120	0			

LCS	Sample ID: VLCSW1-110706-R91922A				Units: µg/L		Analysis Date: 7/6/2011 11:10 AM			
Client ID:	Run ID: VMS5_110706A				SeqNo: 1670143		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.91	1.0	20	0	99.6	80-120	0			
Ethylbenzene	19.29	1.0	20	0	96.4	75-125	0			
m,p-Xylene	37.57	2.0	40	0	93.9	75-130	0			
o-Xylene	18.68	1.0	20	0	93.4	80-120	0			
Toluene	19.57	1.0	20	0	97.8	75-120	0			
Xylenes, Total	56.25	2.0	60	0	93.8	75-130	0			
Surr: 1,2-Dichloroethane-d4	95.98	0	100	0	96	70-120	0			
Surr: 4-Bromofluorobenzene	100.4	0	100	0	100	75-120	0			
Surr: Dibromofluoromethane	99.45	0	100	0	99.4	85-115	0			
Surr: Toluene-d8	97.99	0	100	0	98	85-120	0			

LCSD	Sample ID: VLCSW1-110706-R91922A				Units: µg/L		Analysis Date: 7/6/2011 11:34 AM			
Client ID:	Run ID: VMS5_110706A				SeqNo: 1670185		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.6	1.0	20	0	103	80-120	19.91	3.41	30	
Ethylbenzene	19.73	1.0	20	0	98.6	75-125	19.29	2.26	30	
m,p-Xylene	38.54	2.0	40	0	96.4	75-130	37.57	2.55	30	
o-Xylene	19.16	1.0	20	0	95.8	80-120	18.68	2.54	30	
Toluene	20.05	1.0	20	0	100	75-120	19.57	2.42	30	
Xylenes, Total	57.7	2.0	60	0	96.2	75-130	56.25	2.54	30	
Surr: 1,2-Dichloroethane-d4	95.69	0	100	0	95.7	70-120	95.98	0.303	30	
Surr: 4-Bromofluorobenzene	99.41	0	100	0	99.4	75-120	100.4	0.981	30	
Surr: Dibromofluoromethane	98.56	0	100	0	98.6	85-115	99.45	0.899	30	
Surr: Toluene-d8	97.97	0	100	0	98	85-120	97.99	0.0204	30	

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

Client: HRL Compliance Solutions
Work Order: 1107012
Project: TR 31-5-697 Pad LOE 6/30/11

QC BATCH REPORT

Batch ID: **R91899** Instrument ID **VMS6** Method: **SW8260**

The following samples were analyzed in this batch:

1107012-01A	1107012-02A	1107012-03A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
 Work Order: 1107012
 Project: TR 31-5-697 Pad LOE 6/30/11

QC BATCH REPORT

Batch ID: **R91899** Instrument ID **VMS6** Method: **SW8260**

MBLK	Sample ID: VBLKW2-110705-R91899				Units: µg/L		Analysis Date: 7/5/2011 06:39 PM			
Client ID:	Run ID: VMS6_110705A				SeqNo: 1669600		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Ethylbenzene	ND	1.0								
m,p-Xylene	ND	2.0								
o-Xylene	ND	1.0								
Toluene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 1,2-Dichloroethane-d4	101.9	0	100	0	102	70-120	0			
Surr: 4-Bromofluorobenzene	98.16	0	100	0	98.2	75-120	0			
Surr: Dibromofluoromethane	100.8	0	100	0	101	85-115	0			
Surr: Toluene-d8	100.4	0	100	0	100	85-120	0			

LCS	Sample ID: VLCSW1-110705-R91899				Units: µg/L		Analysis Date: 7/5/2011 05:23 PM			
Client ID:	Run ID: VMS6_110705A				SeqNo: 1669598		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.94	1.0	20	0	105	80-120	0			
Ethylbenzene	20.75	1.0	20	0	104	75-125	0			
m,p-Xylene	43.49	2.0	40	0	109	75-130	0			
o-Xylene	21.95	1.0	20	0	110	80-120	0			
Toluene	20.66	1.0	20	0	103	75-120	0			
Xylenes, Total	65.44	2.0	60	0	109	75-130	0			
Surr: 1,2-Dichloroethane-d4	101.3	0	100	0	101	70-120	0			
Surr: 4-Bromofluorobenzene	98.88	0	100	0	98.9	75-120	0			
Surr: Dibromofluoromethane	101.8	0	100	0	102	85-115	0			
Surr: Toluene-d8	99.96	0	100	0	100	85-120	0			

LCSD	Sample ID: VLCSW1-110705-R91899				Units: µg/L		Analysis Date: 7/5/2011 05:48 PM			
Client ID:	Run ID: VMS6_110705A				SeqNo: 1669599		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	21.42	1.0	20	0	107	80-120	20.94	2.27	30	
Ethylbenzene	21.36	1.0	20	0	107	75-125	20.75	2.9	30	
m,p-Xylene	44.86	2.0	40	0	112	75-130	43.49	3.1	30	
o-Xylene	22.61	1.0	20	0	113	80-120	21.95	2.96	30	
Toluene	21.3	1.0	20	0	106	75-120	20.66	3.05	30	
Xylenes, Total	67.47	2.0	60	0	112	75-130	65.44	3.05	30	
Surr: 1,2-Dichloroethane-d4	100.2	0	100	0	100	70-120	101.3	1.03	30	
Surr: 4-Bromofluorobenzene	99.47	0	100	0	99.5	75-120	98.88	0.595	30	
Surr: Dibromofluoromethane	101.6	0	100	0	102	85-115	101.8	0.226	30	
Surr: Toluene-d8	100.1	0	100	0	100	85-120	99.96	0.17	30	

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

Client: HRL Compliance Solutions
 Work Order: 1107012
 Project: TR 31-5-697 Pad LOE 6/30/11

QC BATCH REPORT

Batch ID: **R91846** Instrument ID **VMS9** Method: **SW8260**

MBLK	Sample ID: VBLKW1-110705-R91846				Units: µg/L		Analysis Date: 7/5/2011 12:38 PM			
Client ID:	Run ID: VMS9_110705A				SeqNo: 1669704		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
m,p-Xylene	ND	2.0								
o-Xylene	ND	1.0								
Toluene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 1,2-Dichloroethane-d4	102.6	0	100	0	103	70-120	0			
Surr: 4-Bromofluorobenzene	99.92	0	100	0	99.9	75-120	0			
Surr: Dibromofluoromethane	98.98	0	100	0	99	85-115	0			
Surr: Toluene-d8	100.5	0	100	0	100	85-120	0			

LCS	Sample ID: VLCSW1-110705-R91846				Units: µg/L		Analysis Date: 7/5/2011 11:27 AM			
Client ID:	Run ID: VMS9_110705A				SeqNo: 1668329		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
m,p-Xylene	38.26	2.0	40	0	95.6	75-130	0			
o-Xylene	18.9	1.0	20	0	94.5	80-120	0			
Toluene	18.91	1.0	20	0	94.6	75-120	0			
Xylenes, Total	57.16	2.0	60	0	95.3	75-130	0			
Surr: 1,2-Dichloroethane-d4	102.2	0	100	0	102	70-120	0			
Surr: 4-Bromofluorobenzene	103	0	100	0	103	75-120	0			
Surr: Dibromofluoromethane	104.4	0	100	0	104	85-115	0			
Surr: Toluene-d8	100.5	0	100	0	100	85-120	0			

LCSD	Sample ID: VLCSW1-110705-R91846				Units: µg/L		Analysis Date: 7/5/2011 11:51 AM			
Client ID:	Run ID: VMS9_110705A				SeqNo: 1668333		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
m,p-Xylene	39.64	2.0	40	0	99.1	75-130	38.26	3.54	30	
o-Xylene	19.66	1.0	20	0	98.3	80-120	18.9	3.94	30	
Toluene	19.74	1.0	20	0	98.7	75-120	18.91	4.29	30	
Xylenes, Total	59.3	2.0	60	0	98.8	75-130	57.16	3.68	30	
Surr: 1,2-Dichloroethane-d4	103	0	100	0	103	70-120	102.2	0.779	30	
Surr: 4-Bromofluorobenzene	101.8	0	100	0	102	75-120	103	1.08	30	
Surr: Dibromofluoromethane	104.2	0	100	0	104	85-115	104.4	0.173	30	
Surr: Toluene-d8	100.3	0	100	0	100	85-120	100.5	0.189	30	

The following samples were analyzed in this batch:

1107012-04A

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

Client: HRL Compliance Solutions
 Work Order: 1107012
 Project: TR 31-5-697 Pad LOE 6/30/11

QC BATCH REPORT

Batch ID: **R91820A** Instrument ID **VMS5** Method: **SW8260**

MBLK	Sample ID: VBLKW2-110701-R91820A				Units: µg/L		Analysis Date: 7/1/2011 06:58 PM			
Client ID:	Run ID: VMS5_110701A				SeqNo: 1668163		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Ethylbenzene	ND	1.0								
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>98.01</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>98</i>	<i>70-120</i>	<i>0</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>95.45</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>95.4</i>	<i>75-120</i>	<i>0</i>			
<i>Surr: Dibromofluoromethane</i>	<i>99.17</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>99.2</i>	<i>85-115</i>	<i>0</i>			
<i>Surr: Toluene-d8</i>	<i>99.68</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>99.7</i>	<i>85-120</i>	<i>0</i>			

LCS	Sample ID: VLCSW1-110701-R91820A				Units: µg/L		Analysis Date: 7/1/2011 05:45 PM			
Client ID:	Run ID: VMS5_110701A				SeqNo: 1668161		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.92	1.0	20	0	105	80-120	0			
Ethylbenzene	20.5	1.0	20	0	102	75-125	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>99.22</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>99.2</i>	<i>70-120</i>	<i>0</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>99.87</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>99.9</i>	<i>75-120</i>	<i>0</i>			
<i>Surr: Dibromofluoromethane</i>	<i>99.93</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>99.9</i>	<i>85-115</i>	<i>0</i>			
<i>Surr: Toluene-d8</i>	<i>99.47</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>99.5</i>	<i>85-120</i>	<i>0</i>			

LCSD	Sample ID: VLCSDW1-110701-R91820A				Units: µg/L		Analysis Date: 7/1/2011 06:09 PM			
Client ID:	Run ID: VMS5_110701A				SeqNo: 1668162		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.12	1.0	20	0	95.6	80-120	20.92	8.99	30	
Ethylbenzene	18.37	1.0	20	0	91.8	75-125	20.5	11	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>99.47</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>99.5</i>	<i>70-120</i>	<i>99.22</i>	<i>0.252</i>	<i>30</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>100.2</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>100</i>	<i>75-120</i>	<i>99.87</i>	<i>0.32</i>	<i>30</i>	
<i>Surr: Dibromofluoromethane</i>	<i>99.9</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>99.9</i>	<i>85-115</i>	<i>99.93</i>	<i>0.03</i>	<i>30</i>	
<i>Surr: Toluene-d8</i>	<i>98.54</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>98.5</i>	<i>85-120</i>	<i>99.47</i>	<i>0.939</i>	<i>30</i>	

The following samples were analyzed in this batch: 1107012-04A

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

ALS Group USA, Corp

Date: 07-Jul-11

Client: HRL Compliance Solutions

Work Order: 1107012

Project: TR 31-5-697 Pad LOE 6/30/11

QC BATCH REPORT

Batch ID: **R91966** Instrument ID **GC9** Method: **SW8015**

MBLK	Sample ID: MBLK-R91966-R91966				Units: µg/L		Analysis Date: 7/6/2011 04:48 PM			
Client ID:	Run ID: GC9_110706A				SeqNo: 1671014		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	ND	200								
<i>Surr: Toluene-d8</i>	<i>105</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>105</i>	<i>70-130</i>	<i>0</i>			

LCS	Sample ID: LCS-R91966-R91966				Units: µg/L		Analysis Date: 7/6/2011 03:28 PM			
Client ID:	Run ID: GC9_110706A				SeqNo: 1671012		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	26130	200	25000	0	105	70-130	0			
<i>Surr: Toluene-d8</i>	<i>103.2</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>103</i>	<i>70-130</i>	<i>0</i>			

LCSD	Sample ID: LCSD-R91966-R91966				Units: µg/L		Analysis Date: 7/6/2011 03:55 PM			
Client ID:	Run ID: GC9_110706A				SeqNo: 1671013		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	25430	200	25000	0	102	70-130	26130	2.7	30	
<i>Surr: Toluene-d8</i>	<i>103.5</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>104</i>	<i>70-130</i>	<i>103.2</i>	<i>0.29</i>	<i>30</i>	

MS	Sample ID: 1107012-01A MS				Units: µg/L		Analysis Date: 7/7/2011 02:10 AM			
Client ID: SW Corner	Run ID: GC9_110706A				SeqNo: 1671019		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	60060	200	25000	39780	81.1	70-130	0			
<i>Surr: Toluene-d8</i>	<i>94.77</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>94.8</i>	<i>70-130</i>	<i>0</i>			

MSD	Sample ID: 1107012-01A MSD				Units: µg/L		Analysis Date: 7/7/2011 02:36 AM			
Client ID: SW Corner	Run ID: GC9_110706A				SeqNo: 1671020		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	56660	200	25000	39780	67.5	70-130	60060	5.82	30	S
<i>Surr: Toluene-d8</i>	<i>91.38</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>91.4</i>	<i>70-130</i>	<i>94.77</i>	<i>3.64</i>	<i>30</i>	

The following samples were analyzed in this batch:

1107012-01A	1107012-02A	1107012-03A
1107012-04A		

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

ALS Group USA, Corp

Date: 07-Jul-11

Client: HRL Compliance Solutions
Project: TR 31-5-697 Pad LOE 6/30/11
Sample ID: NE 1 Corner
Collection Date: 6/30/2011 09:30 AM

Work Order: 1107012
Lab ID: 1107012-04
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RM
GRO (C6-C10)	8.9		0.20	mg/L	1	7/6/2011 06:36 PM
Surr: Toluene-d8	90.4		70-130	%REC	1	7/6/2011 06:36 PM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: AK
Benzene	55		1.0	µg/L	1	7/2/2011 01:47 AM
Ethylbenzene	63		1.0	µg/L	1	7/2/2011 01:47 AM
m,p-Xylene	2,400		40	µg/L	20	7/5/2011 03:01 PM
o-Xylene	360		20	µg/L	20	7/5/2011 03:01 PM
Toluene	140		20	µg/L	20	7/5/2011 03:01 PM
Xylenes, Total	2,800		40	µg/L	20	7/5/2011 03:01 PM
Surr: 1,2-Dichloroethane-d4	104		70-120	%REC	20	7/5/2011 03:01 PM
Surr: 1,2-Dichloroethane-d4	101		70-120	%REC	1	7/2/2011 01:47 AM
Surr: 4-Bromofluorobenzene	108		75-120	%REC	1	7/2/2011 01:47 AM
Surr: 4-Bromofluorobenzene	101		75-120	%REC	20	7/5/2011 03:01 PM
Surr: Dibromofluoromethane	100		85-115	%REC	1	7/2/2011 01:47 AM
Surr: Dibromofluoromethane	100		85-115	%REC	20	7/5/2011 03:01 PM
Surr: Toluene-d8	101		85-120	%REC	20	7/5/2011 03:01 PM
Surr: Toluene-d8	101		85-120	%REC	1	7/2/2011 01:47 AM

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

ALS Group USA, Corp

Date: 07-Jul-11

Client: HRL Compliance Solutions
Project: TR 31-5-697 Pad LOE 6/30/11
Sample ID: NE 2 Corner
Collection Date: 6/30/2011 09:40 AM

Work Order: 1107012
Lab ID: 1107012-03
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GASOLINE RANGE ORGANICS BY GC-FID			SW8015		Analyst: RM	
GRO (C6-C10)	3.5		0.20	mg/L	1	7/6/2011 06:09 PM
Surr: Toluene-d8	92.5		70-130	%REC	1	7/6/2011 06:09 PM
VOLATILE ORGANIC COMPOUNDS			SW8260		Analyst: BG	
Benzene	23		20	µg/L	20	7/6/2011 03:04 AM
Ethylbenzene	38		20	µg/L	20	7/6/2011 03:04 AM
m,p-Xylene	950		40	µg/L	20	7/6/2011 03:04 AM
o-Xylene	170		20	µg/L	20	7/6/2011 03:04 AM
Toluene	52		20	µg/L	20	7/6/2011 03:04 AM
Xylenes, Total	1,100		40	µg/L	20	7/6/2011 03:04 AM
Surr: 1,2-Dichloroethane-d4	102		70-120	%REC	20	7/6/2011 03:04 AM
Surr: 4-Bromofluorobenzene	98.6		75-120	%REC	20	7/6/2011 03:04 AM
Surr: Dibromofluoromethane	98.6		85-115	%REC	20	7/6/2011 03:04 AM
Surr: Toluene-d8	101		85-120	%REC	20	7/6/2011 03:04 AM

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

ALS Group USA, Corp

Date: 07-Jul-11

Client: HRL Compliance Solutions
Project: TR 31-5-697 Pad LOE 6/30/11
Sample ID: NE 3 Corner
Collection Date: 6/30/2011 09:50 AM

Work Order: 1107012
Lab ID: 1107012-02
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RM
GRO (C6-C10)	4.7		0.20	mg/L	1	7/6/2011 05:42 PM
Surr: Toluene-d8	92.2		70-130	%REC	1	7/6/2011 05:42 PM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: BG
Benzene	23		20	µg/L	20	7/6/2011 02:39 AM
Ethylbenzene	72		20	µg/L	20	7/6/2011 02:39 AM
m,p-Xylene	1,200		40	µg/L	20	7/6/2011 02:39 AM
o-Xylene	220		20	µg/L	20	7/6/2011 02:39 AM
Toluene	68		20	µg/L	20	7/6/2011 02:39 AM
Xylenes, Total	1,400		40	µg/L	20	7/6/2011 02:39 AM
Surr: 1,2-Dichloroethane-d4	102		70-120	%REC	20	7/6/2011 02:39 AM
Surr: 4-Bromofluorobenzene	98.6		75-120	%REC	20	7/6/2011 02:39 AM
Surr: Dibromofluoromethane	96.4		85-115	%REC	20	7/6/2011 02:39 AM
Surr: Toluene-d8	101		85-120	%REC	20	7/6/2011 02:39 AM

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

ALS Group USA, Corp

Date: 07-Jul-11

Client: HRL Compliance Solutions
Project: TR 31-5-697 Pad LOE 6/30/11
Sample ID: SW Corner
Collection Date: 6/30/2011 10:18 AM

Work Order: 1107012
Lab ID: 1107012-01
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RM
GRO (C6-C10)	40		0.20	mg/L	1	7/6/2011 05:15 PM
Surr: Toluene-d8	92.1		70-130	%REC	1	7/6/2011 05:15 PM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: AK
Benzene	63		60	µg/L	100	7/6/2011 01:11 PM
Ethylbenzene	610		100	µg/L	100	7/6/2011 01:11 PM
m,p-Xylene	9,000		200	µg/L	100	7/6/2011 01:11 PM
o-Xylene	270		100	µg/L	100	7/6/2011 01:11 PM
Toluene	490		100	µg/L	100	7/6/2011 01:11 PM
Xylenes, Total	9,200		200	µg/L	100	7/6/2011 01:11 PM
Surr: 1,2-Dichloroethane-d4	97.7		70-120	%REC	100	7/6/2011 01:11 PM
Surr: 4-Bromofluorobenzene	97.6		75-120	%REC	100	7/6/2011 01:11 PM
Surr: Dibromofluoromethane	96.6		85-115	%REC	100	7/6/2011 01:11 PM
Surr: Toluene-d8	99.9		85-120	%REC	100	7/6/2011 01:11 PM
ANIONS BY ION CHROMATOGRAPHY			E300.0			Analyst: ED
Chloride	89		20	mg/L	20	7/6/2011 11:10 AM

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

Client: HRL Compliance Solutions
Project: TR 31-5-697 Pad LOE 6/30/11
WorkOrder: 1107012

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 detected below quantitation 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

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
SQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
TDL	Target Detection Limit

<u>Units Reported</u>	<u>Description</u>
µg/L	Micrograms per Liter
mg/L	Milligrams per Liter

ALS Group USA, Corp

Date: 07-Jul-11

Client: HRL Compliance Solutions
Project: TR 31-5-697 Pad LOE 6/30/11
Work Order: 1107012

Case Narrative

Batch R91966 sample SW Corner, 1107012-01A, MSD recovery for GRO was below control limits. Both the MS recovery and RPD met quality control criteria.

Client: HRL Compliance Solutions
Project: TR 31-5-697 Pad LOE 6/30/11
Work Order: 1107012

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>
1107012-01	SW Corner	Water		6/30/2011 10:18	7/1/2011 10:40	<input type="checkbox"/>
1107012-02	NE 3 Corner	Water		6/30/2011 09:50	7/1/2011 10:40	<input type="checkbox"/>
1107012-03	NE 2 Corner	Water		6/30/2011 09:40	7/1/2011 10:40	<input type="checkbox"/>
1107012-04	NE 1 Corner	Water		6/30/2011 09:30	7/1/2011 10:40	<input type="checkbox"/>



07-Jul-2011

Mark Mumby
HRL Compliance Solutions
744 Horizon Ct. Suite 140
Grand Junction, CO 81506

Re: **TR 31-5-697 Pad LOE 6/30/11**

Work Order: **1107012**

Dear Mark,

ALS Environmental received 4 samples on 01-Jul-2011 10:40 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.

QC sample results for this data met 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 19.

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

Sincerely,

A handwritten signature in cursive script that reads "Ann Preston".

Electronically approved by: Ann Preston

Ann Preston
Project Manager



Certificate No: IL100452

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 The ALS logo, a stylized blue triangle with a yellow flame inside.

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

From
Date 7/8/11 Sender's FedEx
Account Number

Sender's
Name Reed D J Phone 970 243-3271

Company NRB Compliance

Address 744 Horizon Ct Ste 140 Dept./Floor/Suite/Room

City Grand Junction State CO ZIP 81506

Your Internal Billing Reference

To
Recipient's
Name Sample Receiving Phone 616 375 6670

Company ALS GROUP

Address 3352 127th Ave Dept./Floor/Suite/Room
We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address
Use this line for the HOLD location address or for continuation of your shipping address.

City Holland State MI ZIP 49424



8758 3475 6105

4 Express Package Service * To most locations.
NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs.
For packages over 150 lbs, use the new
FedEx Express Freight US Airbill.

Next Business Day

2 or 3 Business Days

☒ **06 FedEx First Overnight**
Earliest next business morning delivery to select
locations. Friday shipments will be delivered on
Monday unless SATURDAY Delivery is selected.

☒ **01 FedEx Priority Overnight**
Next business morning.* Friday shipments will be
delivered on Monday unless SATURDAY Delivery
is selected.

☐ **05 FedEx Standard Overnight**
Next business afternoon.*
Saturday Delivery NOT available.

☐ **49 NEW FedEx 2Day A.M.**
Second business morning.*
Saturday Delivery NOT available.

☐ **03 FedEx 2Day**
Second business afternoon.* Thursday shipments
will be delivered on Monday unless SATURDAY
Delivery is selected.

☐ **20 FedEx Express Saver**
Third business day.*
Saturday Delivery NOT available.

5 Packaging * Declared value limit \$500

☐ **06 FedEx Envelope*** ☐ **02 FedEx Pak*** ☐ **03 FedEx Box** ☐ **04 FedEx Tube** ☒ **01 Other***

6 Special Handling and Delivery Signature Options

☒ **SATURDAY DELIVERY**

☒ **No Signature Required**
Package may be left without
obtaining a signature for delivery.

☐ **10 Direct Signature**
Someone at recipient's address
may sign for delivery. *Fee applies.*

☐ **34 Indirect Signature**
If no one is available at recipient's
address, someone at a neighboring
address may sign for delivery. For
residential deliveries only. *Fee applies.*

Does this shipment contain dangerous goods?

One box must be checked.

☒ **No 04 Yes**
As per attached
Shipper's Declaration.

☐ **Yes**
Shipper's Declaration
not required.

☐ **06 Dry Ice**
Dry ice, 9, UN 1845 _____ x _____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging
or placed in a FedEx Express Drop Box.

☐ **Cargo Aircraft Only**

7 Payment Bill to:

Sender ☐ Recipient ☒ Third Party ☐ Credit Card ☐ Cash/Check ☐

Total Packages

Total Weight

lbs.

Credit Card Auth.

*Our liability is limited to \$100 unless you declare a higher value. See the current FedEx Service Guide for details.

Sample Receipt Checklist

Client Name: HRL

Date/Time Received: 09-Jul-11 11:00

Work Order: 1107194

Received by: KRW

Checklist completed by Keith Wurenga
eSignature

09-Jul-11
Date

Reviewed by: Ann Preston
eSignature

13-Jul-11
Date

Matrices: Water

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 checked="" 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"/>	
Temperature(s)/Thermometer(s):	<u>1.8 C</u>		
Cooler(s)/Kit(s):			
Water - VOA vials have zero headspace?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted by:			
Login Notes:			

=====

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

Chain-of-Custody

Form 202r8

WORKORDER

1107194

PAGE

1 of 1

DISPOSAL

By Lab or Return to Client

[illegible]

*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: <div style="text-align: center;"> </div>	QC PACKAGE (check below)	
	X	LEVEL II (Standard QC)
		LEVEL III (Std QC + forms)
		LEVEL IV (Std QC + forms + raw data)
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-NaHSO ₄ 7-Other 8-4 degrees C 9-5035		

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY	<i>Reed Wold</i>	Reed Wold	7/8/11	5pm
RECEIVED BY	<i>Keith Wierenga</i>	KEITH WIERENGA	7/8/11	1100
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

Client: HRL Compliance Solutions
Work Order: 1107194
Project: TR 31-5-697 Pad LOE July 7-8,2011

QC BATCH REPORT

Batch ID: **R92137** Instrument ID **IC3** Method: **E300.0**

MBLK	Sample ID: CCB/MBLK-R92137				Units: mg/L		Analysis Date: 7/12/2011 09:50 AM			
Client ID:	Run ID: IC3_110712A				SeqNo: 1674914		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	0.0843	1.0								J

LCS	Sample ID: CCV/LCS-R92137				Units: mg/L		Analysis Date: 7/12/2011 10:10 AM			
Client ID:	Run ID: IC3_110712A				SeqNo: 1674916		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.608	1.0	10	0	96.1	90-110	0			

LCSD	Sample ID: CCV/LCSD-R92137				Units: mg/L		Analysis Date: 7/12/2011 10:30 AM			
Client ID:	Run ID: IC3_110712A				SeqNo: 1674918		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.631	1.0	10	0	96.3	90-110	9.608	0.239	20	

MS	Sample ID: 1107164-01B MS				Units: mg/L		Analysis Date: 7/12/2011 12:12 PM			
Client ID:	Run ID: IC3_110712A				SeqNo: 1674928		Prep Date:		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	109.5	10	50	60.39	98.3	75-125	0			

MSD	Sample ID: 1107164-01B MSD				Units: mg/L		Analysis Date: 7/12/2011 12:32 PM			
Client ID:	Run ID: IC3_110712A				SeqNo: 1674929		Prep Date:		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	107.4	10	50	60.39	94	75-125	109.5	1.96	20	

The following samples were analyzed in this batch:

1107194-01B	1107194-02B	1107194-03B
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
 Work Order: 1107194
 Project: TR 31-5-697 Pad LOE July 7-8,2011

QC BATCH REPORT

Batch ID: **R92053** Instrument ID **VMS6** Method: **SW8260**

MS				Sample ID: 1107187-01B MS			Units: µg/Kg		Analysis Date: 7/11/2011 07:10 PM		
Client ID:		Run ID: VMS6_110711A			SeqNo: 1673889		Prep Date:		DF: 100		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	2228	100	2000	0	111	75-125	0				
Ethylbenzene	2097	200	2000	0	105	75-125	0				
m,p-Xylene	6318	200	4000	0	158	80-125	0			S	
o-Xylene	2555	100	2000	0	128	75-125	0			S	
Toluene	2145	150	2000	0	107	70-125	0				
Xylenes, Total	8873	300	6000	0	148	75-125	0			S	
Surr: 1,2-Dichloroethane-d4	11120	0	10000	0	111	70-120	0				
Surr: 4-Bromofluorobenzene	10780	0	10000	0	108	75-120	0				
Surr: Dibromofluoromethane	10230	0	10000	0	102	85-115	0				
Surr: Toluene-d8	9709	0	10000	0	97.1	85-115	0				

MSD	Sample ID: 1107187-01B MSD				Units: µg/Kg		Analysis Date: 7/11/2011 07:35 PM			
Client ID:	Run ID: VMS6_110711A				SeqNo: 1673890		Prep Date:		DF: 100	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	2156	100	2000	0	108	75-125	2228	3.28	30	
Ethylbenzene	2053	200	2000	0	103	75-125	2097	2.12	30	
m,p-Xylene	6110	200	4000	0	153	80-125	6318	3.35	30	S
o-Xylene	2495	100	2000	0	125	75-125	2555	2.38	30	
Toluene	2105	150	2000	0	105	70-125	2145	1.88	30	
Xylenes, Total	8605	300	6000	0	143	75-125	8873	3.07	30	S
Surr: 1,2-Dichloroethane-d4	11010	0	10000	0	110	70-120	11120	0.994	30	
Surr: 4-Bromofluorobenzene	10930	0	10000	0	109	75-120	10780	1.34	30	
Surr: Dibromofluoromethane	10080	0	10000	0	101	85-115	10230	1.47	30	
Surr: Toluene-d8	9746	0	10000	0	97.5	85-115	9709	0.38	30	

The following samples were analyzed in this batch:

1107194-01A	1107194-02A	1107194-03A
1107194-04A		

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

Client: HRL Compliance Solutions
Work Order: 1107194
Project: TR 31-5-697 Pad LOE July 7-8,2011

QC BATCH REPORT

Batch ID: **R92053** Instrument ID **VMS6** Method: **SW8260**

MBLK	Sample ID: VBLKW1-110711-R92053				Units: µg/L		Analysis Date: 7/11/2011 09:56 AM			
Client ID:	Run ID: VMS6_110711A				SeqNo: 1673478		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Ethylbenzene	ND	1.0								
m,p-Xylene	ND	2.0								
o-Xylene	ND	1.0								
Toluene	ND	1.0								
Xylenes, Total	ND	2.0								
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>104.4</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>104</i>	<i>70-120</i>	<i>0</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>99.41</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>99.4</i>	<i>75-120</i>	<i>0</i>			
<i>Surr: Dibromofluoromethane</i>	<i>102.6</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>103</i>	<i>85-115</i>	<i>0</i>			
<i>Surr: Toluene-d8</i>	<i>98.41</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>98.4</i>	<i>85-120</i>	<i>0</i>			

LCS	Sample ID: VLCSW1-110711-R92053				Units: µg/L		Analysis Date: 7/11/2011 08:39 AM			
Client ID:	Run ID: VMS6_110711A				SeqNo: 1673022		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	21.4	1.0	20	0	107	80-120	0			
Ethylbenzene	19.94	1.0	20	0	99.7	75-125	0			
m,p-Xylene	41.89	2.0	40	0	105	75-130	0			
o-Xylene	21.14	1.0	20	0	106	80-120	0			
Toluene	20.07	1.0	20	0	100	75-120	0			
Xylenes, Total	63.03	2.0	60	0	105	75-130	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>103.8</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>104</i>	<i>70-120</i>	<i>0</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>101.4</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>101</i>	<i>75-120</i>	<i>0</i>			
<i>Surr: Dibromofluoromethane</i>	<i>103.2</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>103</i>	<i>85-115</i>	<i>0</i>			
<i>Surr: Toluene-d8</i>	<i>97.42</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>97.4</i>	<i>85-120</i>	<i>0</i>			

LCSD	Sample ID: VLCSW1-110711-R92053				Units: µg/L		Analysis Date: 7/11/2011 09:06 AM			
Client ID:	Run ID: VMS6_110711A				SeqNo: 1673260		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	22.23	1.0	20	0	111	80-120	21.4	3.8	30	
Ethylbenzene	20.81	1.0	20	0	104	75-125	19.94	4.27	30	
m,p-Xylene	43.51	2.0	40	0	109	75-130	41.89	3.79	30	
o-Xylene	21.96	1.0	20	0	110	80-120	21.14	3.81	30	
Toluene	20.92	1.0	20	0	105	75-120	20.07	4.15	30	
Xylenes, Total	65.47	2.0	60	0	109	75-130	63.03	3.8	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>103.4</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>103</i>	<i>70-120</i>	<i>103.8</i>	<i>0.425</i>	<i>30</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>102.3</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>102</i>	<i>75-120</i>	<i>101.4</i>	<i>0.874</i>	<i>30</i>	
<i>Surr: Dibromofluoromethane</i>	<i>102.9</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>103</i>	<i>85-115</i>	<i>103.2</i>	<i>0.243</i>	<i>30</i>	
<i>Surr: Toluene-d8</i>	<i>97.74</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>97.7</i>	<i>85-120</i>	<i>97.42</i>	<i>0.328</i>	<i>30</i>	

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

ALS Group USA, Corp

Date: 14-Jul-11

Client: HRL Compliance Solutions

QC BATCH REPORT

Work Order: 1107194

Project: TR 31-5-697 Pad LOE July 7-8,2011

Batch ID: **R92213** Instrument ID **GC9** Method: **SW8015**

MBLK	Sample ID: MBLK-R92213-R92213				Units: µg/L		Analysis Date: 7/14/2011 12:26 PM			
Client ID:	Run ID: GC9_110713B				SeqNo: 1676465		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	ND	200								
<i>Surr: Toluene-d8</i>	<i>106.7</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>107</i>	<i>70-130</i>	<i>0</i>			

LCS	Sample ID: LCS-R92213-R92213				Units: µg/L		Analysis Date: 7/13/2011 11:09 PM			
Client ID:	Run ID: GC9_110713B				SeqNo: 1676458		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	24220	200	25000	0	96.9	70-130	0			
<i>Surr: Toluene-d8</i>	<i>98.03</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>98</i>	<i>70-130</i>	<i>0</i>			

LCSD	Sample ID: LCSD-R92213-R92213				Units: µg/L		Analysis Date: 7/13/2011 11:35 PM			
Client ID:	Run ID: GC9_110713B				SeqNo: 1676459		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	23270	200	25000	0	93.1	70-130	24220	4	30	
<i>Surr: Toluene-d8</i>	<i>97.99</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>98</i>	<i>70-130</i>	<i>98.03</i>	<i>0.0408</i>	<i>30</i>	

MS	Sample ID: 1107258-14B MS				Units: µg/Kg		Analysis Date: 7/14/2011 09:41 AM			
Client ID:	Run ID: GC9_110713B				SeqNo: 1676480		Prep Date:		DF: 100	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	2586000	5,000	2500000	0	103	70-130	0			
<i>Surr: Toluene-d8</i>	<i>11620</i>	<i>0</i>	<i>10000</i>	<i>0</i>	<i>116</i>	<i>50-150</i>	<i>0</i>			

The following samples were analyzed in this batch:

1107194-01A	1107194-02A	1107194-03A
1107194-04A		

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

ALS Group USA, Corp

Date: 14-Jul-11

Client: HRL Compliance Solutions
Project: TR 31-5-697 Pad LOE July 7-8,2011
Sample ID: North East Pit Corner
Collection Date: 7/7/2011 10:10 AM

Work Order: 1107194
Lab ID: 1107194-04
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RM
GRO (C6-C10)	0.37		0.20	mg/L	1	7/14/2011 05:08 AM
Surr: Toluene-d8	104		70-130	%REC	1	7/14/2011 05:08 AM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: BG
Benzene	1.5		1.0	µg/L	1	7/11/2011 05:54 PM
Ethylbenzene	1.9		1.0	µg/L	1	7/11/2011 05:54 PM
m,p-Xylene	160		2.0	µg/L	1	7/11/2011 05:54 PM
o-Xylene	25		1.0	µg/L	1	7/11/2011 05:54 PM
Toluene	2.2		1.0	µg/L	1	7/11/2011 05:54 PM
Xylenes, Total	190		2.0	µg/L	1	7/11/2011 05:54 PM
Surr: 1,2-Dichloroethane-d4	113		70-120	%REC	1	7/11/2011 05:54 PM
Surr: 4-Bromofluorobenzene	105		75-120	%REC	1	7/11/2011 05:54 PM
Surr: Dibromofluoromethane	101		85-115	%REC	1	7/11/2011 05:54 PM
Surr: Toluene-d8	99.9		85-120	%REC	1	7/11/2011 05:54 PM

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

ALS Group USA, Corp

Date: 14-Jul-11

Client: HRL Compliance Solutions
Project: TR 31-5-697 Pad LOE July 7-8,2011
Sample ID: Test Hole UG 2
Collection Date: 7/7/2011 12:15 PM

Work Order: 1107194
Lab ID: 1107194-03
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RM
GRO (C6-C10)	ND		0.20	mg/L	1	7/14/2011 04:42 AM
Surr: Toluene-d8	102		70-130	%REC	1	7/14/2011 04:42 AM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: BG
Benzene	ND		1.0	µg/L	1	7/11/2011 06:44 PM
Ethylbenzene	ND		1.0	µg/L	1	7/11/2011 06:44 PM
m,p-Xylene	ND		2.0	µg/L	1	7/11/2011 06:44 PM
o-Xylene	ND		1.0	µg/L	1	7/11/2011 06:44 PM
Toluene	ND		1.0	µg/L	1	7/11/2011 06:44 PM
Xylenes, Total	ND		2.0	µg/L	1	7/11/2011 06:44 PM
Surr: 1,2-Dichloroethane-d4	113		70-120	%REC	1	7/11/2011 06:44 PM
Surr: 4-Bromofluorobenzene	103		75-120	%REC	1	7/11/2011 06:44 PM
Surr: Dibromofluoromethane	101		85-115	%REC	1	7/11/2011 06:44 PM
Surr: Toluene-d8	97.8		85-120	%REC	1	7/11/2011 06:44 PM
ANIONS BY ION CHROMATOGRAPHY			E300.0			Analyst: ED
Chloride	36		5.0	mg/L	5	7/12/2011 01:31 PM

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

ALS Group USA, Corp

Date: 14-Jul-11

Client: HRL Compliance Solutions
Project: TR 31-5-697 Pad LOE July 7-8,2011
Sample ID: Test Hole UG 1
Collection Date: 7/7/2011 11:45 AM

Work Order: 1107194
Lab ID: 1107194-02
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RM
GRO (C6-C10)	ND		0.20	mg/L	1	7/14/2011 04:17 AM
Surr: Toluene-d8	104		70-130	%REC	1	7/14/2011 04:17 AM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: BG
Benzene	ND		1.0	µg/L	1	7/11/2011 06:19 PM
Ethylbenzene	ND		1.0	µg/L	1	7/11/2011 06:19 PM
m,p-Xylene	9.5		2.0	µg/L	1	7/11/2011 06:19 PM
o-Xylene	1.6		1.0	µg/L	1	7/11/2011 06:19 PM
Toluene	2.0		1.0	µg/L	1	7/11/2011 06:19 PM
Xylenes, Total	11		2.0	µg/L	1	7/11/2011 06:19 PM
Surr: 1,2-Dichloroethane-d4	111		70-120	%REC	1	7/11/2011 06:19 PM
Surr: 4-Bromofluorobenzene	103		75-120	%REC	1	7/11/2011 06:19 PM
Surr: Dibromofluoromethane	101		85-115	%REC	1	7/11/2011 06:19 PM
Surr: Toluene-d8	98.0		85-120	%REC	1	7/11/2011 06:19 PM
ANIONS BY ION CHROMATOGRAPHY			E300.0			Analyst: ED
Chloride	42		5.0	mg/L	5	7/12/2011 01:11 PM

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

ALS Group USA, Corp

Date: 14-Jul-11

Client: HRL Compliance Solutions
Project: TR 31-5-697 Pad LOE July 7-8,2011
Sample ID: Seep
Collection Date: 7/8/2011 08:20 AM

Work Order: 1107194
Lab ID: 1107194-01
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RM
GRO (C6-C10)	ND		0.20	mg/L	1	7/14/2011 03:51 AM
Surr: Toluene-d8	104		70-130	%REC	1	7/14/2011 03:51 AM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: BG
Benzene	ND		1.0	µg/L	1	7/11/2011 05:29 PM
Ethylbenzene	ND		1.0	µg/L	1	7/11/2011 05:29 PM
m,p-Xylene	ND		2.0	µg/L	1	7/11/2011 05:29 PM
o-Xylene	ND		1.0	µg/L	1	7/11/2011 05:29 PM
Toluene	ND		1.0	µg/L	1	7/11/2011 05:29 PM
Xylenes, Total	ND		2.0	µg/L	1	7/11/2011 05:29 PM
Surr: 1,2-Dichloroethane-d4	113		70-120	%REC	1	7/11/2011 05:29 PM
Surr: 4-Bromofluorobenzene	104		75-120	%REC	1	7/11/2011 05:29 PM
Surr: Dibromofluoromethane	100		85-115	%REC	1	7/11/2011 05:29 PM
Surr: Toluene-d8	98.7		85-120	%REC	1	7/11/2011 05:29 PM
ANIONS BY ION CHROMATOGRAPHY			E300.0			Analyst: ED
Chloride	46		5.0	mg/L	5	7/12/2011 12:52 PM

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

Client: HRL Compliance Solutions
Project: TR 31-5-697 Pad LOE July 7-8,2011
WorkOrder: 1107194

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 detected below quantitation 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

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
SQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
TDL	Target Detection Limit

<u>Units Reported</u>	<u>Description</u>
µg/L	Micrograms per Liter
mg/L	Milligrams per Liter

ALS Group USA, Corp

Date: 14-Jul-11

Client: HRL Compliance Solutions
Project: TR 31-5-697 Pad LOE July 7-8,2011
Work Order: 1107194

Case Narrative

Batch R92053 MS/MSD data for Volatiles is not related to this project's samples.

Client: HRL Compliance Solutions
Project: TR 31-5-697 Pad LOE July 7-8,2011
Work Order: 1107194

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>
1107194-01	Seep	Water		7/8/2011 08:20	7/9/2011 11:00	<input type="checkbox"/>
1107194-02	Test Hole UG 1	Water		7/7/2011 11:45	7/9/2011 11:00	<input type="checkbox"/>
1107194-03	Test Hole UG 2	Water		7/7/2011 12:15	7/9/2011 11:00	<input type="checkbox"/>
1107194-04	North East Pit Corner	Water		7/7/2011 10:10	7/9/2011 11:00	<input type="checkbox"/>



14-Jul-2011

Mark Mumby
HRL Compliance Solutions
744 Horizon Ct. Suite 140
Grand Junction, CO 81506

Re: **TR 31-5-697 Pad LOE July 7-8,2011**

Work Order: **1107194**

Dear Mark,

ALS Environmental received 4 samples on 09-Jul-2011 11:00 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.

QC sample results for this data met 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 15.

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

Sincerely,

A handwritten signature in black ink that reads "Ann Preston".

Electronically approved by: Ann Preston

Ann Preston
Project Manager



Certificate No: IL100452

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

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Environmental The ALS logo, a small blue triangle with a yellow flame.

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Appendix 2: Ground Water Raw Analytical

Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **29-Jul-11 10:00**

Work Order: **1107787**

Received by: **DS**

Checklist completed by Diane Shaw 29-Jul-11
eSignature Date

Reviewed by: Ann Preston 29-Jul-11
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 checked="" 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"/>	
Temperature(s)/Thermometer(s):	<u>3.8 c</u>		
Cooler(s)/Kit(s):			
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:	-		
Login Notes:			

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

BBY SEAL

ATURE

QEC

Quality Environmental Containers
800-255-3950 • 304-255-3900

edEX NEW Package
Express US Airbill

FedEx
Tracking
Number

8758 3475 8932

0200 Form
JQ No.

FedEx Retrieval Copy

lbs.
1 new
unit.

FRI - 20 / 11

fedex.com 1.800.GoFedEx 1.800.463.3339

From
Date 7/29/11 Sender's FedEx
Account Number
Sender's Name Reed Wald Phone 970 243-3271

Company HRL compliance
Address 744 Horizon Ct Suite 190
City Grand Junction State CO ZIP 81506
Dept./Floor/Suite/Room

2 Your Internal Billing Reference
3 To
Recipient's Name Sample Recipient Phone 616 399 6070
Company ALS Group

Address 3352 128th Ave
We cannot deliver to P.O. boxes or P.O. ZIP codes.
Dept./Floor/Suite/Room
Address
Use this line for the HOLD location address or for continuation of your address.
City Holland State MI ZIP 49424



8758 3932

4 Express Package Service

* To most locations.
NOTE: Service order has changed. Please select carefully.

Next Business Day

- 06 ☐ FedEx First Overnight
Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- 01 ☒ FedEx Priority Overnight
Next business morning. * Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- 05 ☐ FedEx Standard Overnight
Next business afternoon. Saturday Delivery NOT available.

2 or 3 Business Days

- 49 ☐ NEW FedEx 2Day A.M.
Second business morning. Saturday Delivery NOT available.
- 03 ☐ FedEx 2Day
Second business afternoon. * Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- 20 ☐ FedEx Express Saver
Third business day. Saturday Delivery NOT available.

5 Packaging

* Declared value limit \$500.

- 06 ☐ FedEx Envelope* 02 ☐ FedEx Pak* 03 ☐ FedEx Box 04 ☐ FedEx Tube 01 ☐ Other

6 Special Handling and Delivery Signature Options

03 SATURDAY DELIVERY

☒ No Signature Required
Package may be left without obtaining a signature for delivery.

10 ☐ Direct Signature
Someone at recipient's address may sign for delivery. Fee applies.

34 ☐ Indirect Signature
If no one is available at recipient's address, someone at a neighboring address may sign for delivery. Fee applies. Residential deliveries only.

Does this shipment contain dangerous goods?

One box must be checked.
☒ No 04 ☐ Yes
As per attached Shipper's Declaration. ☐ Yes
Shipper's Declaration not required.

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

06 ☐ Dry Ice
Dry Ice 3 UN 1815

☐ Cargo Aircraft Only

7 Payment Bill to:

- 1 ☐ Sender
Acct. No. in Section 1 will be billed.
- 2 ☒ Recipient
- 3 ☐ Third Party
- 4 ☐ Credit Card
- 5 ☐ Cash/Check

Total Packages

Total Weight

1 68 lbs.

Credit Card Auth.

Your liability is limited to \$100 unless you declare a higher value. See the current FedEx Service Guide for details.

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ALS Laboratory Group

225 Commerce Drive, Fort Collins, Colorado 80524
TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

Form 202r8

WORKORDER
#

1107787

PROJECT NAME		TR 31-5 Pad LOE		SAMPLER		Reed Wold		DATE		7/26/2011		PAGE		1 of 1	
PROJECT No.				SITE ID		TR 31-5		TURNAROUND		5 day		DISPOSAL		By Lab or Return to Client	
COMPANY NAME		HRL COMPLIANCE SOLUTIONS Inc.		BILL TO COMPANY		Williams		BTEX/ GRO DRO/ PAH/ Metals (table 910-1) SAR/ EC/ PH							
SEND REPORT TO		Mark Mumby		INVOICE ATTN TO		Karolia Blaney									
ADDRESS		744 HORIZON CT SUITE 140		ADDRESS		1058 co rd 215									
CITY / STATE / ZIP		GRAND JUNCTION CO 81506		CITY / STATE / ZIP		Parachute CO 81635									
PHONE		970-243-3271		PHONE		970-683-2295									
FAX		970-243-3280		FAX		970-285-9573									
E-MAIL		Mmumby@hrlcomp.com		E-MAIL		Karolia.blaney@williams.com									
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC								
01	S. Wall	SO	7/26/2011	9:30	3	8		X	X	X					
02	S. Bottom	SO	7/26/2011	8:50	3	8		X	X	X					
03	W. Wall	SO	7/26/2011	9:20	3	8		X	X	X					
04	E. Wall	SO	7/26/2011	9:00	3	8		X	X	X					
05	N. Bottom	SO	7/26/2011	8:40	3	8		X	X	X					
06	N. Wall	SO	7/26/2011	9:10	3	8		X	X	X					

*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:	QC PACKAGE (check below)	
	X	LEVEL II (Standard QC)
		LEVEL III (Std QC + forms)
		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>Reed Wold</i>	Reed Wold	7/28/11	4pm
RECEIVED BY	<i>Diane F. Shaw</i>	Diane F. Shaw	7/29/11	1000
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

Client: HRL Compliance Solutions
Work Order: 1107787
Project: Williams TR 31-5 Pad LOE 7/26/11

QC BATCH REPORT

Batch ID: **R92848** Instrument ID **MOIST** Method: **A2540 G**

MBLK	Sample ID: WBLKS1-R92848				Units: % of sample			Analysis Date: 7/29/2011 03:27 PM		
Client ID:	Run ID: MOIST_110729C				SeqNo: 1691897		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-R92848				Units: % of sample			Analysis Date: 7/29/2011 03:27 PM		
Client ID:	Run ID: MOIST_110729C				SeqNo: 1691896		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: 1107787-02BDUP				Units: % of sample			Analysis Date: 7/29/2011 03:27 PM		
Client ID: S. Bottom	Run ID: MOIST_110729C				SeqNo: 1691881		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	19.62	0.050	0	0	0	0-0	19.9	1.42	20	

DUP	Sample ID: 1107793-04ADUP				Units: % of sample			Analysis Date: 7/29/2011 03:27 PM		
Client ID:	Run ID: MOIST_110729C				SeqNo: 1691892		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	1.04	0.050	0	0	0	0-0	0.97	6.97	20	

DUP	Sample ID: 1107795-01ADUP				Units: % of sample			Analysis Date: 7/29/2011 03:27 PM		
Client ID:	Run ID: MOIST_110729C				SeqNo: 1691894		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	95.51	0.050	0	0	0	0-0	95.49	0.0209	20	

The following samples were analyzed in this batch:

1107787-02B	1107787-03B	1107787-04B
1107787-05B	1107787-06B	

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

Client: HRL Compliance Solutions
Work Order: 1107787
Project: Williams TR 31-5 Pad LOE 7/26/11

QC BATCH REPORT

Batch ID: **R92844** Instrument ID **MOIST** Method: **A2540 G**

MBLK	Sample ID: WBLKS1-R92844				Units: % of sample			Analysis Date: 7/29/2011 02:00 PM		
Client ID:	Run ID: MOIST_110729B				SeqNo: 1691851		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-R92844				Units: % of sample			Analysis Date: 7/29/2011 02:00 PM		
Client ID:	Run ID: MOIST_110729B				SeqNo: 1691850		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: 1107774-03ADUP1				Units: % of sample			Analysis Date: 7/29/2011 02:00 PM		
Client ID:	Run ID: MOIST_110729B				SeqNo: 1691826		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	39.01	0.050	0	0	0	0-0	39.85	2.13	20	

DUP	Sample ID: 1107774-03ADUP2				Units: % of sample			Analysis Date: 7/29/2011 02:00 PM		
Client ID:	Run ID: MOIST_110729B				SeqNo: 1691827		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	41.12	0.050	0	0	0	0-0	39.85	3.14	20	

DUP	Sample ID: 1107787-01BDUP				Units: % of sample			Analysis Date: 7/29/2011 02:00 PM		
Client ID: S. Wall	Run ID: MOIST_110729B				SeqNo: 1691848		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	24.05	0.050	0	0	0	0-0	23.96	0.375	20	

The following samples were analyzed in this batch:

1107787-01B

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

Client: HRL Compliance Solutions
Work Order: 1107787
Project: Williams TR 31-5 Pad LOE 7/26/11

QC BATCH REPORT

Batch ID: **R92807** Instrument ID **WETCHEM** Method: **SW9045D**

DUP	Sample ID: 1107778-01A DUP				Units: s.u.		Analysis Date: 7/29/2011 08:50 AM			
Client ID:	Run ID: WETCHEM_110729D				SeqNo: 1690922		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	8.72	0	0	0	0	0-0	8.72	0	20	

DUP	Sample ID: 1107792-02B DUP				Units: s.u.		Analysis Date: 7/29/2011 02:00 PM			
Client ID:	Run ID: WETCHEM_110729D				SeqNo: 1690937		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	8.88	0	0	0	0	0-0	8.88	0	20	

The following samples were analyzed in this batch:

1107787-01B	1107787-02B	1107787-03B
1107787-04B	1107787-05B	1107787-06B

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

Client: HRL Compliance Solutions
Work Order: 1107787
Project: Williams TR 31-5 Pad LOE 7/26/11

QC BATCH REPORT

Batch ID: **34674** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK	Sample ID: MBLK-34674-34674				Units: mg/Kg			Analysis Date: 8/2/2011 03:30 PM		
Client ID:	Run ID: WETCHEM_110802F				SeqNo: 1693947			Prep Date: 8/1/2011		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	ND	0.49								

LCS	Sample ID: LCS-34674-34674				Units: mg/Kg			Analysis Date: 8/2/2011 03:30 PM		
Client ID:	Run ID: WETCHEM_110802F				SeqNo: 1693945			Prep Date: 8/1/2011		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	1.992	0.49	1.969	0	101	75-110	0			

LCSD	Sample ID: LCSD-34674-34674				Units: mg/Kg			Analysis Date: 8/2/2011 03:30 PM		
Client ID:	Run ID: WETCHEM_110802F				SeqNo: 1693946			Prep Date: 8/1/2011		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	1.954	0.48	1.931	0	101	75-110	1.992	1.95	20	

MS	Sample ID: 1107786-03B MS				Units: mg/Kg			Analysis Date: 8/2/2011 03:30 PM		
Client ID:	Run ID: WETCHEM_110802F				SeqNo: 1693936			Prep Date: 8/1/2011		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	1.603	0.50	1.984	0	80.8	60-130	0			

MSD	Sample ID: 1107786-03B MSD				Units: mg/Kg			Analysis Date: 8/2/2011 03:30 PM		
Client ID:	Run ID: WETCHEM_110802F				SeqNo: 1693937			Prep Date: 8/1/2011		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	1.441	0.49	1.969	0	73.2	60-130	1.603	10.7	30	

The following samples were analyzed in this batch:

1107787-01B	1107787-02B	1107787-03B
1107787-04B	1107787-05B	1107787-06B

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

Client: HRL Compliance Solutions
Work Order: 1107787
Project: Williams TR 31-5 Pad LOE 7/26/11

QC BATCH REPORT

Batch ID: **R93049A** Instrument ID **VMS7** Method: **SW8260**

The following samples were analyzed in this batch:

1107787-01A	1107787-02A	1107787-03A
1107787-04A	1107787-05A	1107787-06A

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

Client: HRL Compliance Solutions
Work Order: 1107787
Project: Williams TR 31-5 Pad LOE 7/26/11

QC BATCH REPORT

Batch ID: **R93049A** Instrument ID **VMS7** Method: **SW8260**

MBLK	Sample ID: VBLKW2-110804-R93049A				Units: µg/L		Analysis Date: 8/5/2011 01:50 AM			
Client ID:	Run ID: VMS7_110804B				SeqNo: 1696086		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Ethylbenzene	ND	1.0								
m,p-Xylene	ND	2.0								
o-Xylene	ND	1.0								
Toluene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 1,2-Dichloroethane-d4	97.45	0	100	0	97.4	70-120	0			
Surr: 4-Bromofluorobenzene	97.55	0	100	0	97.6	75-120	0			
Surr: Dibromofluoromethane	97.98	0	100	0	98	85-115	0			
Surr: Toluene-d8	98.47	0	100	0	98.5	85-120	0			

LCS	Sample ID: VLCSW2-110804-R93049A				Units: µg/L		Analysis Date: 8/5/2011 12:33 PM			
Client ID:	Run ID: VMS7_110804B				SeqNo: 1696087		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.12	1.0	20	0	101	80-120	0			
Ethylbenzene	20.17	1.0	20	0	101	75-125	0			
m,p-Xylene	39.88	2.0	40	0	99.7	75-130	0			
o-Xylene	19.8	1.0	20	0	99	80-120	0			
Toluene	20	1.0	20	0	100	75-120	0			
Xylenes, Total	59.68	2.0	60	0	99.5	75-130	0			
Surr: 1,2-Dichloroethane-d4	94.91	0	100	0	94.9	70-120	0			
Surr: 4-Bromofluorobenzene	99.33	0	100	0	99.3	75-120	0			
Surr: Dibromofluoromethane	99.85	0	100	0	99.8	85-115	0			
Surr: Toluene-d8	99.3	0	100	0	99.3	85-120	0			

LCSD	Sample ID: VLCSDW2-110804-R93049A				Units: µg/L		Analysis Date: 8/5/2011 12:59 PM			
Client ID:	Run ID: VMS7_110804B				SeqNo: 1696088		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.44	1.0	20	0	97.2	80-120	20.12	3.44	30	
Ethylbenzene	19.25	1.0	20	0	96.2	75-125	20.17	4.67	30	
m,p-Xylene	38.34	2.0	40	0	95.8	75-130	39.88	3.94	30	
o-Xylene	19.2	1.0	20	0	96	80-120	19.8	3.08	30	
Toluene	19.43	1.0	20	0	97.2	75-120	20	2.89	30	
Xylenes, Total	57.54	2.0	60	0	95.9	75-130	59.68	3.65	30	
Surr: 1,2-Dichloroethane-d4	96.19	0	100	0	96.2	70-120	94.91	1.34	30	
Surr: 4-Bromofluorobenzene	100.3	0	100	0	100	75-120	99.33	0.982	30	
Surr: Dibromofluoromethane	100.2	0	100	0	100	85-115	99.85	0.36	30	
Surr: Toluene-d8	99.2	0	100	0	99.2	85-120	99.3	0.101	30	

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

Client: HRL Compliance Solutions
Work Order: 1107787
Project: Williams TR 31-5 Pad LOE 7/26/11

QC BATCH REPORT

Batch ID: **34638** Instrument ID **SVMS6** Method: **SW8270**

MSD				Sample ID: 1107813-03A MSD		Units: µg/Kg		Analysis Date: 8/2/2011 05:25 PM		
Client ID:		Run ID: SVMS6_110802A			SeqNo: 1694574		Prep Date: 8/1/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1993	57	2522	0	79	45-110	2020	1.36	30	
Anthracene	2168	57	2522	0	86	55-105	2155	0.596	30	
Benzo(a)anthracene	2107	57	2522	0	83.5	50-110	2092	0.693	30	
Benzo(a)pyrene	2251	57	2522	0	89.3	50-110	2247	0.194	30	
Benzo(b)fluoranthene	2227	57	2522	0	88.3	45-115	2252	1.1	30	
Benzo(g,h,i)perylene	2295	57	2522	0	91	40-125	2276	0.83	30	
Benzo(k)fluoranthene	2404	57	2522	0	95.3	45-115	2304	4.24	30	
Chrysene	2155	57	2522	0	85.5	55-110	2100	2.61	30	
Dibenzo(a,h)anthracene	2336	57	2522	0	92.6	40-125	2288	2.05	30	
Fluoranthene	2218	57	2522	0	88	55-115	2202	0.732	30	
Fluorene	2022	57	2522	0	80.2	50-110	2019	0.178	30	
Indeno(1,2,3-cd)pyrene	2267	57	2522	0	89.9	40-120	2240	1.23	30	
Naphthalene	1907	57	2522	0	75.6	40-105	1967	3.11	30	
Pyrene	2177	57	2522	0	86.3	45-125	2185	0.359	30	
Surr: 2,4,6-Tribromophenol	2495	0	3153	0	79.1	34-140	2457	1.55	40	
Surr: 2-Fluorobiphenyl	1579	0	3153	0	50.1	12-100	1762	11	40	
Surr: 2-Fluorophenol	2064	0	3153	0	65.5	33-117	2186	5.77	40	
Surr: 4-Terphenyl-d14	1948	0	3153	0	61.8	25-137	2024	3.82	40	
Surr: Nitrobenzene-d5	1977	0	3153	0	62.7	37-107	2102	6.15	40	
Surr: Phenol-d6	2022	0	3153	0	64.1	40-106	2119	4.71	40	

The following samples were analyzed in this batch:

1107787-01B	1107787-02B	1107787-03B
1107787-04B	1107787-05B	1107787-06B

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

Client: HRL Compliance Solutions
Work Order: 1107787
Project: Williams TR 31-5 Pad LOE 7/26/11

QC BATCH REPORT

Batch ID: **34638** Instrument ID **SVMS6** Method: **SW8270**

MSD				Sample ID: 1107774-03A MSD			Units: µg/Kg		Analysis Date: 8/2/2011 04:31 PM	
Client ID:				Run ID: SVMS6_110802A			SeqNo: 1694572		Prep Date: 8/1/2011	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	2009	59	2623	0	76.6	45-110	1912	4.92	30	
Anthracene	2190	59	2623	0	83.5	55-105	2088	4.74	30	
Benzo(a)anthracene	2198	59	2623	0	83.8	50-110	2030	7.97	30	
Benzo(a)pyrene	2338	59	2623	0	89.1	50-110	2174	7.27	30	
Benzo(b)fluoranthene	2240	59	2623	0	85.4	45-115	2159	3.71	30	
Benzo(g,h,i)perylene	2400	59	2623	0	91.5	40-125	2231	7.29	30	
Benzo(k)fluoranthene	2580	59	2623	0	98.4	45-115	2286	12.1	30	
Chrysene	2230	59	2623	0	85	55-110	2094	6.3	30	
Dibenzo(a,h)anthracene	2383	59	2623	0	90.8	40-125	2254	5.56	30	
Fluoranthene	2312	59	2623	0	88.2	55-115	2147	7.41	30	
Fluorene	2033	59	2623	0	77.5	50-110	1947	4.34	30	
Indeno(1,2,3-cd)pyrene	2346	59	2623	0	89.4	40-120	2197	6.56	30	
Naphthalene	1969	59	2623	0	75.1	40-105	1838	6.86	30	
Pyrene	2295	59	2623	0	87.5	45-125	2161	6.05	30	
<i>Surr: 2,4,6-Tribromophenol</i>	<i>2482</i>	<i>0</i>	<i>3279</i>	<i>0</i>	<i>75.7</i>	<i>34-140</i>	<i>2453</i>	<i>1.16</i>	<i>40</i>	
<i>Surr: 2-Fluorobiphenyl</i>	<i>1751</i>	<i>0</i>	<i>3279</i>	<i>0</i>	<i>53.4</i>	<i>12-100</i>	<i>1566</i>	<i>11.2</i>	<i>40</i>	
<i>Surr: 2-Fluorophenol</i>	<i>2120</i>	<i>0</i>	<i>3279</i>	<i>0</i>	<i>64.7</i>	<i>33-117</i>	<i>2059</i>	<i>2.93</i>	<i>40</i>	
<i>Surr: 4-Terphenyl-d14</i>	<i>2118</i>	<i>0</i>	<i>3279</i>	<i>0</i>	<i>64.6</i>	<i>25-137</i>	<i>1924</i>	<i>9.59</i>	<i>40</i>	
<i>Surr: Nitrobenzene-d5</i>	<i>2066</i>	<i>0</i>	<i>3279</i>	<i>0</i>	<i>63</i>	<i>37-107</i>	<i>1947</i>	<i>5.94</i>	<i>40</i>	
<i>Surr: Phenol-d6</i>	<i>2080</i>	<i>0</i>	<i>3279</i>	<i>0</i>	<i>63.4</i>	<i>40-106</i>	<i>1994</i>	<i>4.2</i>	<i>40</i>	

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

Client: HRL Compliance Solutions
Work Order: 1107787
Project: Williams TR 31-5 Pad LOE 7/26/11

QC BATCH REPORT

Batch ID: **34638** Instrument ID **SVMS6** Method: **SW8270**

MSD				Sample ID: 1107675-09A MSD			Units: µg/Kg		Analysis Date: 8/2/2011 01:48 PM	
Client ID:				Run ID: SVMS6_110802A			SeqNo: 1693643		Prep Date: 8/1/2011	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	2095	57	2519	0	83.2	45-110	1991	5.09	30	
Anthracene	2189	57	2519	0	86.9	55-105	2138	2.36	30	
Benzo(a)anthracene	2133	57	2519	19.36	83.9	50-110	2075	2.77	30	
Benzo(a)pyrene	2286	57	2519	22.96	89.8	50-110	2236	2.21	30	
Benzo(b)fluoranthene	2331	57	2519	22.31	91.6	45-115	2186	6.41	30	
Benzo(g,h,i)perylene	2523	57	2519	20.01	99.4	40-125	2439	3.4	30	
Benzo(k)fluoranthene	2271	57	2519	0	90.2	45-115	2374	4.44	30	
Chrysene	2173	57	2519	19.68	85.5	55-110	2106	3.13	30	
Dibenzo(a,h)anthracene	2441	57	2519	0	96.9	40-125	2378	2.6	30	
Fluoranthene	2284	57	2519	22.31	89.8	55-115	2198	3.84	30	
Fluorene	2089	57	2519	0	82.9	50-110	2031	2.84	30	
Indeno(1,2,3-cd)pyrene	2394	57	2519	0	95	40-120	2330	2.71	30	
Naphthalene	2024	57	2519	0	80.4	40-105	1881	7.36	30	
Pyrene	2300	57	2519	23.95	90.4	45-125	2210	3.98	30	
Surr: 2,4,6-Tribromophenol	2427	0	3149	0	77.1	34-140	2427	0.00097	40	
Surr: 2-Fluorobiphenyl	1681	0	3149	0	53.4	12-100	1715	1.99	40	
Surr: 2-Fluorophenol	1988	0	3149	0	63.1	33-117	1934	2.78	40	
Surr: 4-Terphenyl-d14	1928	0	3149	0	61.2	25-137	2080	7.59	40	
Surr: Nitrobenzene-d5	2165	0	3149	0	68.7	37-107	2044	5.74	40	
Surr: Phenol-d6	2045	0	3149	0	64.9	40-106	1952	4.68	40	

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

Client: HRL Compliance Solutions
Work Order: 1107787
Project: Williams TR 31-5 Pad LOE 7/26/11

QC BATCH REPORT

Batch ID: **34638** Instrument ID **SVMS6** Method: **SW8270**

MS				Sample ID: 1107813-03A MS		Units: µg/Kg		Analysis Date: 8/2/2011 04:58 PM		
Client ID:		Run ID: SVMS6_110802A			SeqNo: 1694573		Prep Date: 8/1/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	2020	57	2514	0	80.4	45-110	0			
Anthracene	2155	57	2514	0	85.7	55-105	0			
Benzo(a)anthracene	2092	57	2514	0	83.2	50-110	0			
Benzo(a)pyrene	2247	57	2514	0	89.4	50-110	0			
Benzo(b)fluoranthene	2252	57	2514	0	89.6	45-115	0			
Benzo(g,h,i)perylene	2276	57	2514	0	90.5	40-125	0			
Benzo(k)fluoranthene	2304	57	2514	0	91.7	45-115	0			
Chrysene	2100	57	2514	0	83.5	55-110	0			
Dibenzo(a,h)anthracene	2288	57	2514	0	91	40-125	0			
Fluoranthene	2202	57	2514	0	87.6	55-115	0			
Fluorene	2019	57	2514	0	80.3	50-110	0			
Indeno(1,2,3-cd)pyrene	2240	57	2514	0	89.1	40-120	0			
Naphthalene	1967	57	2514	0	78.3	40-105	0			
Pyrene	2185	57	2514	0	86.9	45-125	0			
Surr: 2,4,6-Tribromophenol	2457	0	3142	0	78.2	34-140	0			
Surr: 2-Fluorobiphenyl	1762	0	3142	0	56.1	12-100	0			
Surr: 2-Fluorophenol	2186	0	3142	0	69.6	33-117	0			
Surr: 4-Terphenyl-d14	2024	0	3142	0	64.4	25-137	0			
Surr: Nitrobenzene-d5	2102	0	3142	0	66.9	37-107	0			
Surr: Phenol-d6	2119	0	3142	0	67.4	40-106	0			

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

Client: HRL Compliance Solutions
Work Order: 1107787
Project: Williams TR 31-5 Pad LOE 7/26/11

QC BATCH REPORT

Batch ID: **34638** Instrument ID **SVMS6** Method: **SW8270**

MS				Sample ID: 1107774-03A MS			Units: µg/Kg		Analysis Date: 8/2/2011 04:04 PM	
Client ID:				Run ID: SVMS6_110802A			SeqNo: 1694571		Prep Date: 8/1/2011	
							DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1912	57	2553	0	74.9	45-110	0			
Anthracene	2088	57	2553	0	81.8	55-105	0			
Benzo(a)anthracene	2030	57	2553	0	79.5	50-110	0			
Benzo(a)pyrene	2174	57	2553	0	85.2	50-110	0			
Benzo(b)fluoranthene	2159	57	2553	0	84.6	45-115	0			
Benzo(g,h,i)perylene	2231	57	2553	0	87.4	40-125	0			
Benzo(k)fluoranthene	2286	57	2553	0	89.5	45-115	0			
Chrysene	2094	57	2553	0	82	55-110	0			
Dibenzo(a,h)anthracene	2254	57	2553	0	88.3	40-125	0			
Fluoranthene	2147	57	2553	0	84.1	55-115	0			
Fluorene	1947	57	2553	0	76.3	50-110	0			
Indeno(1,2,3-cd)pyrene	2197	57	2553	0	86.1	40-120	0			
Naphthalene	1838	57	2553	0	72	40-105	0			
Pyrene	2161	57	2553	0	84.6	45-125	0			
<i>Surr: 2,4,6-Tribromophenol</i>	2453	0	3191	0	76.9	34-140	0			
<i>Surr: 2-Fluorobiphenyl</i>	1566	0	3191	0	49.1	12-100	0			
<i>Surr: 2-Fluorophenol</i>	2059	0	3191	0	64.5	33-117	0			
<i>Surr: 4-Terphenyl-d14</i>	1924	0	3191	0	60.3	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1947	0	3191	0	61	37-107	0			
<i>Surr: Phenol-d6</i>	1994	0	3191	0	62.5	40-106	0			

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

Client: HRL Compliance Solutions
Work Order: 1107787
Project: Williams TR 31-5 Pad LOE 7/26/11

QC BATCH REPORT

Batch ID: **34638** Instrument ID **SVMS6** Method: **SW8270**

MS				Sample ID: 1107675-09A MS		Units: µg/Kg		Analysis Date: 8/2/2011 01:21 PM			
Client ID:			Run ID: SVMS6_110802A			SeqNo: 1693642		Prep Date: 8/1/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	1991	57	2531	0	78.7	45-110	0				
Anthracene	2138	57	2531	0	84.5	55-105	0				
Benzo(a)anthracene	2075	57	2531	19.36	81.2	50-110	0				
Benzo(a)pyrene	2236	57	2531	22.96	87.4	50-110	0				
Benzo(b)fluoranthene	2186	57	2531	22.31	85.5	45-115	0				
Benzo(g,h,i)perylene	2439	57	2531	20.01	95.6	40-125	0				
Benzo(k)fluoranthene	2374	57	2531	0	93.8	45-115	0				
Chrysene	2106	57	2531	19.68	82.4	55-110	0				
Dibenzo(a,h)anthracene	2378	57	2531	0	94	40-125	0				
Fluoranthene	2198	57	2531	22.31	85.9	55-115	0				
Fluorene	2031	57	2531	0	80.2	50-110	0				
Indeno(1,2,3-cd)pyrene	2330	57	2531	0	92.1	40-120	0				
Naphthalene	1881	57	2531	0	74.3	40-105	0				
Pyrene	2210	57	2531	23.95	86.4	45-125	0				
Surr: 2,4,6-Tribromophenol	2427	0	3164	0	76.7	34-140	0				
Surr: 2-Fluorobiphenyl	1715	0	3164	0	54.2	12-100	0				
Surr: 2-Fluorophenol	1934	0	3164	0	61.1	33-117	0				
Surr: 4-Terphenyl-d14	2080	0	3164	0	65.7	25-137	0				
Surr: Nitrobenzene-d5	2044	0	3164	0	64.6	37-107	0				
Surr: Phenol-d6	1952	0	3164	0	61.7	40-106	0				

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

Client: HRL Compliance Solutions
Work Order: 1107787
Project: Williams TR 31-5 Pad LOE 7/26/11

QC BATCH REPORT

Batch ID: **34638** Instrument ID **SVMS6** Method: **SW8270**

LCSD		Sample ID: SLCSDS1-34638-34638				Units: µg/Kg		Analysis Date: 8/2/2011 10:24 AM		
Client ID:		Run ID: SVMS6_110802A				SeqNo: 1693436		Prep Date: 8/1/2011		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1036	30	1333	0	77.7	45-110	1115	7.32	25	
Anthracene	1154	30	1333	0	86.6	55-105	1177	1.97	25	
Benzo(a)anthracene	1139	30	1333	0	85.5	50-110	1170	2.63	25	
Benzo(a)pyrene	1213	30	1333	0	91	50-110	1234	1.69	25	
Benzo(b)fluoranthene	1157	30	1333	0	86.8	45-115	1257	8.29	25	
Benzo(g,h,i)perylene	1347	30	1333	0	101	40-125	1328	1.45	25	
Benzo(k)fluoranthene	1385	30	1333	0	104	45-115	1249	10.3	25	
Chrysene	1185	30	1333	0	88.9	55-110	1183	0.169	25	
Dibenzo(a,h)anthracene	1294	30	1333	0	97.1	40-125	1300	0.463	25	
Fluoranthene	1200	30	1333	0	90	55-115	1200	0.0278	25	
Fluorene	1055	30	1333	0	79.1	50-110	1111	5.2	25	
Indeno(1,2,3-cd)pyrene	1278	30	1333	0	95.9	40-120	1283	0.364	25	
Naphthalene	972	30	1333	0	72.9	40-105	1109	13.2	25	
Pyrene	1227	30	1333	0	92	45-125	1236	0.758	25	
<i>Surr: 2,4,6-Tribromophenol</i>	1296	0	1667	0	77.8	34-140	1347	3.86	40	
<i>Surr: 2-Fluorobiphenyl</i>	965	0	1667	0	57.9	12-100	1070	10.3	40	
<i>Surr: 2-Fluorophenol</i>	1033	0	1667	0	62	33-117	1172	12.5	40	
<i>Surr: 4-Terphenyl-d14</i>	1260	0	1667	0	75.6	25-137	1273	1.03	40	
<i>Surr: Nitrobenzene-d5</i>	1019	0	1667	0	61.1	37-107	1165	13.4	40	
<i>Surr: Phenol-d6</i>	1014	0	1667	0	60.9	40-106	1139	11.6	40	

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

Client: HRL Compliance Solutions
Work Order: 1107787
Project: Williams TR 31-5 Pad LOE 7/26/11

QC BATCH REPORT

Batch ID: **34638** Instrument ID **SVMS6** Method: **SW8270**

LCS Sample ID: **SLCSS1-34638-34638** Units: **µg/Kg** Analysis Date: **8/2/2011 09:57 AM**

Client ID: Run ID: **SVMS6_110802A** SeqNo: **1693435** Prep Date: **8/1/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1115	30	1333	0	83.6	45-110	0			
Anthracene	1177	30	1333	0	88.3	55-105	0			
Benzo(a)anthracene	1170	30	1333	0	87.7	50-110	0			
Benzo(a)pyrene	1234	30	1333	0	92.6	50-110	0			
Benzo(b)fluoranthene	1257	30	1333	0	94.3	45-115	0			
Benzo(g,h,i)perylene	1328	30	1333	0	99.6	40-125	0			
Benzo(k)fluoranthene	1249	30	1333	0	93.7	45-115	0			
Chrysene	1183	30	1333	0	88.7	55-110	0			
Dibenzo(a,h)anthracene	1300	30	1333	0	97.5	40-125	0			
Fluoranthene	1200	30	1333	0	90	55-115	0			
Fluorene	1111	30	1333	0	83.3	50-110	0			
Indeno(1,2,3-cd)pyrene	1283	30	1333	0	96.2	40-120	0			
Naphthalene	1109	30	1333	0	83.2	40-105	0			
Pyrene	1236	30	1333	0	92.7	45-125	0			
<i>Surr: 2,4,6-Tribromophenol</i>	<i>1347</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>80.8</i>	<i>34-140</i>	<i>0</i>			
<i>Surr: 2-Fluorobiphenyl</i>	<i>1070</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>64.2</i>	<i>12-100</i>	<i>0</i>			
<i>Surr: 2-Fluorophenol</i>	<i>1172</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>70.3</i>	<i>33-117</i>	<i>0</i>			
<i>Surr: 4-Terphenyl-d14</i>	<i>1273</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>76.4</i>	<i>25-137</i>	<i>0</i>			
<i>Surr: Nitrobenzene-d5</i>	<i>1165</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>69.9</i>	<i>37-107</i>	<i>0</i>			
<i>Surr: Phenol-d6</i>	<i>1139</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>68.3</i>	<i>40-106</i>	<i>0</i>			

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

Client: HRL Compliance Solutions
Work Order: 1107787
Project: Williams TR 31-5 Pad LOE 7/26/11

QC BATCH REPORT

Batch ID: **34638** Instrument ID **SVMS6** Method: **SW8270**

MBLK Sample ID: **SBLKS1-34638-34638** Units: **µg/Kg** Analysis Date: **8/2/2011 10:51 AM**

Client ID: Run ID: **SVMS6_110802A** SeqNo: **1693437** Prep Date: **8/1/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	ND	30								
Anthracene	ND	30								
Benzo(a)anthracene	ND	30								
Benzo(a)pyrene	ND	30								
Benzo(b)fluoranthene	ND	30								
Benzo(g,h,i)perylene	ND	30								
Benzo(k)fluoranthene	ND	30								
Chrysene	ND	30								
Dibenzo(a,h)anthracene	ND	30								
Fluoranthene	ND	30								
Fluorene	ND	30								
Indeno(1,2,3-cd)pyrene	ND	30								
Naphthalene	ND	30								
Pyrene	ND	30								
<i>Surr: 2,4,6-Tribromophenol</i>	<i>1049</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>62.9</i>	<i>34-140</i>	<i>0</i>			
<i>Surr: 2-Fluorobiphenyl</i>	<i>793.7</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>47.6</i>	<i>12-100</i>	<i>0</i>			
<i>Surr: 2-Fluorophenol</i>	<i>843</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>50.6</i>	<i>33-117</i>	<i>0</i>			
<i>Surr: 4-Terphenyl-d14</i>	<i>1167</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>70</i>	<i>25-137</i>	<i>0</i>			
<i>Surr: Nitrobenzene-d5</i>	<i>746.7</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>44.8</i>	<i>37-107</i>	<i>0</i>			
<i>Surr: Phenol-d6</i>	<i>823.3</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>49.4</i>	<i>40-106</i>	<i>0</i>			

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

Client: HRL Compliance Solutions
Work Order: 1107787
Project: Williams TR 31-5 Pad LOE 7/26/11

QC BATCH REPORT

Batch ID: **34644** Instrument ID **ICPMS1** Method: **SW6020A**

MSD		Sample ID: 1108002-04BMSD				Units: mg/Kg		Analysis Date: 8/2/2011 02:43 AM		
Client ID:		Run ID: ICPMS1_110801A				SeqNo: 1693169		Prep Date: 8/1/2011		DF: 4
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	17.03	1.4	6.964	9.075	114	80-120	15.8	7.48	25	
Barium	94.12	1.4	6.964	88.35	82.9	80-120	91.66	2.65	25	O
Cadmium	8.128	0.56	6.964	1.043	102	80-120	7.636	6.25	25	
Chromium	30.92	1.4	6.964	24.12	97.7	80-120	29.8	3.69	25	
Copper	15.51	1.4	6.964	8.543	100	80-120	14.83	4.44	25	
Lead	28.8	1.4	6.964	22.61	89	80-120	28.07	2.57	25	
Nickel	13.74	1.4	6.964	6.991	96.8	80-120	13.17	4.21	25	
Selenium	8.259	1.4	6.964	1.114	103	80-120	7.606	8.23	25	
Silver	6.724	1.4	6.964	0.1625	94.2	80-120	6.31	6.35	25	
Zinc	84.07	2.8	6.964	79.02	72.5	80-120	83.83	0.279	25	SO

The following samples were analyzed in this batch:

1107787-03B	1107787-04B	1107787-05B
1107787-06B		

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

Client: HRL Compliance Solutions
Work Order: 1107787
Project: Williams TR 31-5 Pad LOE 7/26/11

QC BATCH REPORT

Batch ID: **34644** Instrument ID **ICPMS1** Method: **SW6020A**

MS		Sample ID: 1107813-03AMS				Units: mg/Kg		Analysis Date: 8/1/2011 10:59 PM		
Client ID:		Run ID: ICPMS1_110801A				SeqNo: 1693143		Prep Date: 8/1/2011		DF: 4
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	7.796	1.4	6.887	0.7404	102	80-120	0			
Barium	71.52	1.4	6.887	59.43	176	80-120	0			SO
Cadmium	7.017	0.55	6.887	0.2356	98.5	80-120	0			
Chromium	13.75	1.4	6.887	6.748	102	80-120	0			
Copper	9.625	1.4	6.887	2.609	102	80-120	0			
Lead	9.868	1.4	6.887	2.959	100	80-120	0			
Nickel	9.887	1.4	6.887	3.07	99	80-120	0			
Selenium	7.736	1.4	6.887	1.15	95.6	80-120	0			
Silver	6.427	1.4	6.887	0.01879	93	80-120	0			
Zinc	18.23	2.8	6.887	12.41	84.5	80-120	0			

MS		Sample ID: 1108002-04BMS				Units: mg/Kg		Analysis Date: 8/2/2011 12:35 AM		
Client ID:		Run ID: ICPMS1_110801A				SeqNo: 1693155		Prep Date: 8/1/2011		DF: 4
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	15.8	1.3	6.748	9.075	99.6	80-120	0			
Barium	91.66	1.3	6.748	88.35	49	80-120	0			SO
Cadmium	7.636	0.54	6.748	1.043	97.7	80-120	0			
Chromium	29.8	1.3	6.748	24.12	84.2	80-120	0			
Copper	14.83	1.3	6.748	8.543	93.2	80-120	0			
Lead	28.07	1.3	6.748	22.61	81	80-120	0			
Nickel	13.17	1.3	6.748	6.991	91.5	80-120	0			
Selenium	7.606	1.3	6.748	1.114	96.2	80-120	0			
Silver	6.31	1.3	6.748	0.1625	91.1	80-120	0			
Zinc	83.83	2.7	6.748	79.02	71.4	80-120	0			SO

MSD		Sample ID: 1107813-03AMSD				Units: mg/Kg		Analysis Date: 8/1/2011 11:05 PM		
Client ID:		Run ID: ICPMS1_110801A				SeqNo: 1693144		Prep Date: 8/1/2011		DF: 4
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	8.312	1.6	7.8	0.7404	97.1	80-120	7.796	6.41	25	
Barium	75.38	1.6	7.8	59.43	205	80-120	71.52	5.26	25	SO
Cadmium	8.081	0.62	7.8	0.2356	101	80-120	7.017	14.1	25	
Chromium	14.18	1.6	7.8	6.748	95.3	80-120	13.75	3.07	25	
Copper	11.3	1.6	7.8	2.609	111	80-120	9.625	16	25	
Lead	10.9	1.6	7.8	2.959	102	80-120	9.868	9.96	25	
Nickel	10.94	1.6	7.8	3.07	101	80-120	9.887	10.1	25	
Selenium	8.534	1.6	7.8	1.15	94.7	80-120	7.736	9.81	25	
Silver	7.413	1.6	7.8	0.01879	94.8	80-120	6.427	14.3	25	
Zinc	16.7	3.1	7.8	12.41	54.9	80-120	18.23	8.78	25	S

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

Client: HRL Compliance Solutions
Work Order: 1107787
Project: Williams TR 31-5 Pad LOE 7/26/11

QC BATCH REPORT

Batch ID: **34644** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK	Sample ID: MBLK-34644-34644		Units: mg/Kg		Analysis Date: 8/1/2011 10:17 PM					
Client ID:	Run ID: ICPMS1_110801A		SeqNo: 1693136		Prep Date: 8/1/2011		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.04243	0.25								J
Barium	ND	0.25								
Cadmium	0.001578	0.10								J
Chromium	0.00624	0.25								J
Copper	ND	0.25								
Lead	0.00215	0.25								J
Nickel	ND	0.25								
Selenium	ND	0.25								
Silver	ND	0.25								
Zinc	0.04109	0.50								J

LCS	Sample ID: LCS-34644-34644		Units: mg/Kg		Analysis Date: 8/1/2011 10:23 PM					
Client ID:	Run ID: ICPMS1_110801A		SeqNo: 1693137		Prep Date: 8/1/2011		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.618	0.25	5	0	92.4	80-120	0			
Barium	4.924	0.25	5	0	98.5	80-120	0			
Cadmium	4.728	0.10	5	0	94.6	80-120	0			
Chromium	4.956	0.25	5	0	99.1	80-120	0			
Copper	4.947	0.25	5	0	98.9	80-120	0			
Lead	4.961	0.25	5	0	99.2	80-120	0			
Nickel	4.946	0.25	5	0	98.9	80-120	0			
Selenium	4.316	0.25	5	0	86.3	80-120	0			
Silver	4.668	0.25	5	0	93.4	80-120	0			
Zinc	4.815	0.50	5	0	96.3	80-120	0			

LCSD	Sample ID: LCSD-34644-34644		Units: mg/Kg		Analysis Date: 8/1/2011 10:29 PM					
Client ID:	Run ID: ICPMS1_110801A		SeqNo: 1693138		Prep Date: 8/1/2011		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.516	0.25	5	0	90.3	80-120	4.618	2.24	20	
Barium	4.95	0.25	5	0	99	80-120	4.924	0.527	20	
Cadmium	4.684	0.10	5	0	93.7	80-120	4.728	0.956	20	
Chromium	5.015	0.25	5	0	100	80-120	4.956	1.17	20	
Copper	4.982	0.25	5	0	99.6	80-120	4.947	0.695	20	
Lead	5.045	0.25	5	0	101	80-120	4.961	1.68	20	
Nickel	4.948	0.25	5	0	99	80-120	4.946	0.0404	20	
Selenium	4.275	0.25	5	0	85.5	80-120	4.316	0.966	20	
Silver	4.732	0.25	5	0	94.6	80-120	4.668	1.37	20	
Zinc	4.52	0.50	5	0	90.4	80-120	4.815	6.32	20	

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

Client: HRL Compliance Solutions
Work Order: 1107787
Project: Williams TR 31-5 Pad LOE 7/26/11

QC BATCH REPORT

Batch ID: **34630** Instrument ID **ICPMS1** Method: **SW6020A**

The following samples were analyzed in this batch:

1107787-01B	1107787-02B
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
Work Order: 1107787
Project: Williams TR 31-5 Pad LOE 7/26/11

QC BATCH REPORT

Batch ID: **34630** Instrument ID **ICPMS1** Method: **SW6020A**

LCSD		Sample ID: LCSD-34630-34630				Units: mg/Kg		Analysis Date: 8/1/2011 04:33 PM		
Client ID:		Run ID: ICPMS1_110801A				SeqNo: 1693093		Prep Date: 8/1/2011		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.626	0.25	5	0	92.5	80-120	4.546	1.73	20	
Barium	4.894	0.25	5	0	97.9	80-120	4.95	1.13	20	
Cadmium	4.724	0.10	5	0	94.5	80-120	4.734	0.233	20	
Chromium	4.978	0.25	5	0	99.6	80-120	5.005	0.551	20	
Copper	4.959	0.25	5	0	99.2	80-120	4.926	0.658	20	
Lead	4.764	0.25	5	0	95.3	80-120	4.766	0.0315	20	
Nickel	5.025	0.25	5	0	100	80-120	4.934	1.84	20	
Selenium	4.424	0.25	5	0	88.5	80-120	4.304	2.75	20	
Silver	4.639	0.25	5	0	92.8	80-120	4.695	1.2	20	
Zinc	4.672	0.50	5	0	93.4	80-120	4.605	1.43	20	

MS		Sample ID: 1107774-03AMS				Units: mg/Kg		Analysis Date: 8/1/2011 06:10 PM		
Client ID:		Run ID: ICPMS1_110801A				SeqNo: 1693105		Prep Date: 8/1/2011		DF: 4
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.925	1.4	7.205	4.405	76.6	80-120	0			S
Barium	43.31	1.4	7.205	37.49	80.8	80-120	0			O
Cadmium	7.323	0.58	7.205	0.3187	97.2	80-120	0			
Chromium	15.3	1.4	7.205	8.972	87.8	80-120	0			
Copper	8.219	1.4	7.205	1.694	90.6	80-120	0			
Lead	9.576	1.4	7.205	3.174	88.9	80-120	0			
Nickel	12.95	1.4	7.205	6.909	83.8	80-120	0			
Selenium	6.85	1.4	7.205	0.8182	83.7	80-120	0			
Silver	6.677	1.4	7.205	0.01512	92.5	80-120	0			
Zinc	30.32	2.9	7.205	23	102	80-120	0			

MSD		Sample ID: 1107774-03AMSD				Units: mg/Kg		Analysis Date: 8/1/2011 06:16 PM		
Client ID:		Run ID: ICPMS1_110801A				SeqNo: 1693106		Prep Date: 8/1/2011		DF: 4
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	11.69	1.5	7.553	4.405	96.5	80-120	9.925	16.3	25	
Barium	44.68	1.5	7.553	37.49	95.2	80-120	43.31	3.11	25	O
Cadmium	7.68	0.60	7.553	0.3187	97.5	80-120	7.323	4.76	25	
Chromium	16.51	1.5	7.553	8.972	99.8	80-120	15.3	7.61	25	
Copper	9.045	1.5	7.553	1.694	97.3	80-120	8.219	9.57	25	
Lead	10.41	1.5	7.553	3.174	95.9	80-120	9.576	8.38	25	
Nickel	14.04	1.5	7.553	6.909	94.4	80-120	12.95	8.09	25	
Selenium	7.628	1.5	7.553	0.8182	90.2	80-120	6.85	10.8	25	
Silver	6.985	1.5	7.553	0.01512	92.3	80-120	6.677	4.5	25	
Zinc	31.87	3.0	7.553	23	117	80-120	30.32	5	25	

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

Client: HRL Compliance Solutions
Work Order: 1107787
Project: Williams TR 31-5 Pad LOE 7/26/11

QC BATCH REPORT

Batch ID: **34630** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK	Sample ID: MBLK-34630-34630		Units: mg/Kg		Analysis Date: 8/1/2011 02:20 PM					
Client ID:	Run ID: ICPMS1_110801A		SeqNo: 1692525		Prep Date: 8/1/2011		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.02936	0.25								J
Barium	ND	0.25								
Cadmium	ND	0.10								
Chromium	0.00583	0.25								J
Lead	ND	0.25								
Selenium	ND	0.25								
Silver	ND	0.25								
Zinc	ND	0.50								

MBLK	Sample ID: MBLK-34630-34630		Units: mg/Kg		Analysis Date: 8/1/2011 04:45 PM					
Client ID:	Run ID: ICPMS1_110801A		SeqNo: 1693094		Prep Date: 8/1/2011		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper	ND	0.25								
Nickel	ND	0.25								

LCS	Sample ID: LCS-34630-34630		Units: mg/Kg		Analysis Date: 8/1/2011 04:27 PM					
Client ID:	Run ID: ICPMS1_110801A		SeqNo: 1693092		Prep Date: 8/1/2011		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.546	0.25	5	0	90.9	80-120	0			
Barium	4.95	0.25	5	0	99	80-120	0			
Cadmium	4.734	0.10	5	0	94.7	80-120	0			
Chromium	5.005	0.25	5	0	100	80-120	0			
Copper	4.926	0.25	5	0	98.5	80-120	0			
Lead	4.766	0.25	5	0	95.3	80-120	0			
Nickel	4.934	0.25	5	0	98.7	80-120	0			
Selenium	4.304	0.25	5	0	86.1	80-120	0			
Silver	4.695	0.25	5	0	93.9	80-120	0			
Zinc	4.605	0.50	5	0	92.1	80-120	0			

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

Client: HRL Compliance Solutions
Work Order: 1107787
Project: Williams TR 31-5 Pad LOE 7/26/11

QC BATCH REPORT

Batch ID: **34651** Instrument ID **HG1** Method: **SW7471**

MBLK	Sample ID: MBLK-34651-34651				Units: mg/Kg		Analysis Date: 8/2/2011 12:17 PM			
Client ID:	Run ID: HG1_110802A				SeqNo: 1693516		Prep Date: 8/2/2011		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-34651-34651				Units: mg/Kg		Analysis Date: 8/2/2011 12:19 PM			
Client ID:	Run ID: HG1_110802A				SeqNo: 1693517		Prep Date: 8/2/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1635	0.020	0.1665	0	98.2	80-120	0			

LCSD	Sample ID: LCSD-34651-34651				Units: mg/Kg		Analysis Date: 8/2/2011 12:22 PM			
Client ID:	Run ID: HG1_110802A				SeqNo: 1693518		Prep Date: 8/2/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1695	0.020	0.1665	0	102	80-120	0.1635	3.6	20	

MS	Sample ID: 1108002-01BMS				Units: mg/Kg		Analysis Date: 8/2/2011 12:54 PM			
Client ID:	Run ID: HG1_110802A				SeqNo: 1693533		Prep Date: 8/2/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.175	0.017	0.1442	0.02894	101	75-125	0			

MSD	Sample ID: 1108002-01BMDS				Units: mg/Kg		Analysis Date: 8/2/2011 12:56 PM			
Client ID:	Run ID: HG1_110802A				SeqNo: 1693534		Prep Date: 8/2/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.172	0.017	0.1421	0.02894	101	75-125	0.175	1.76	35	

The following samples were analyzed in this batch:

1107787-01B	1107787-02B	1107787-03B
1107787-04B	1107787-05B	1107787-06B

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

Client: HRL Compliance Solutions
Work Order: 1107787
Project: Williams TR 31-5 Pad LOE 7/26/11

QC BATCH REPORT

Batch ID: **R92898** Instrument ID **GC9** Method: **SW8015**

MSD		Sample ID: 1108002-04A MSD			Units: µg/Kg			Analysis Date: 8/1/2011 11:42 PM		
Client ID:		Run ID: GC9_110801B			SeqNo: 1693078		Prep Date:		DF: 50	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	1253000	2,500	1250000	0	100	70-130	1370000	8.95	30	
<i>Surr: Toluene-d8</i>	<i>5218</i>	<i>0</i>	<i>5000</i>	<i>0</i>	<i>104</i>	<i>50-150</i>	<i>5323</i>	<i>2</i>	<i>30</i>	

The following samples were analyzed in this batch:

1107787-01A	1107787-02A	1107787-03A
1107787-04A	1107787-05A	1107787-06A

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

Client: HRL Compliance Solutions
Work Order: 1107787
Project: Williams TR 31-5 Pad LOE 7/26/11

QC BATCH REPORT

Batch ID: **R92898** Instrument ID **GC9** Method: **SW8015**

MBLK	Sample ID: MBLK-R92898-R92898				Units: µg/L		Analysis Date: 8/1/2011 01:16 PM			
Client ID:	Run ID: GC9_110801B				SeqNo: 1693052		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	ND	200								
<i>Surr: Toluene-d8</i>	<i>110.4</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>110</i>	<i>70-130</i>	<i>0</i>			

LCS	Sample ID: LCS-R92898-R92898				Units: µg/L		Analysis Date: 8/1/2011 11:56 AM			
Client ID:	Run ID: GC9_110801B				SeqNo: 1693050		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	27020	200	25000	0	108	70-130	0			
<i>Surr: Toluene-d8</i>	<i>111</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>111</i>	<i>70-130</i>	<i>0</i>			

LCSD	Sample ID: LCSD-R92898-R92898				Units: µg/L		Analysis Date: 8/1/2011 12:23 PM			
Client ID:	Run ID: GC9_110801B				SeqNo: 1693051		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	25990	200	25000	0	104	70-130	27020	3.89	30	
<i>Surr: Toluene-d8</i>	<i>107.1</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>107</i>	<i>70-130</i>	<i>111</i>	<i>3.58</i>	<i>30</i>	

MS	Sample ID: 1107813-03B MS				Units: µg/Kg		Analysis Date: 8/1/2011 10:23 PM			
Client ID:	Run ID: GC9_110801B				SeqNo: 1693075		Prep Date:		DF: 50	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	1360000	2,500	1250000	0	109	70-130	0			
<i>Surr: Toluene-d8</i>	<i>5546</i>	<i>0</i>	<i>5000</i>	<i>0</i>	<i>111</i>	<i>50-150</i>	<i>0</i>			

MS	Sample ID: 1108002-04A MS				Units: µg/Kg		Analysis Date: 8/1/2011 10:49 PM			
Client ID:	Run ID: GC9_110801B				SeqNo: 1693076		Prep Date:		DF: 50	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	1370000	2,500	1250000	0	110	70-130	0			
<i>Surr: Toluene-d8</i>	<i>5323</i>	<i>0</i>	<i>5000</i>	<i>0</i>	<i>106</i>	<i>50-150</i>	<i>0</i>			

MSD	Sample ID: 1107813-03B MSD				Units: µg/Kg		Analysis Date: 8/1/2011 11:15 PM			
Client ID:	Run ID: GC9_110801B				SeqNo: 1693077		Prep Date:		DF: 50	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	1228000	2,500	1250000	0	98.3	70-130	1360000	10.2	30	
<i>Surr: Toluene-d8</i>	<i>5250</i>	<i>0</i>	<i>5000</i>	<i>0</i>	<i>105</i>	<i>50-150</i>	<i>5546</i>	<i>5.48</i>	<i>30</i>	

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

Client: HRL Compliance Solutions
Work Order: 1107787
Project: Williams TR 31-5 Pad LOE 7/26/11

QC BATCH REPORT

Batch ID: **34639** Instrument ID **GC8** Method: **SW8015M**

MSD Sample ID: **1107813-03A MSD** Units: **mg/Kg** Analysis Date: **8/2/2011 10:22 PM**

Client ID: Run ID: **GC8_110802A** SeqNo: **1694423** Prep Date: **8/1/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	253.9	8.0	321	0	79.1	60-130	261	2.78	30	
<i>Surr: 4-Terphenyl-d14</i>	<i>2.261</i>	<i>0</i>	<i>3.21</i>	<i>0</i>	<i>70.4</i>	<i>39-115</i>	<i>2.389</i>	<i>5.5</i>	<i>30</i>	

The following samples were analyzed in this batch:

1107787-01B	1107787-02B	1107787-03B
1107787-04B	1107787-05B	1107787-06B

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

ALS Group USA, Corp

Date: 05-Aug-11

Client: HRL Compliance Solutions

QC BATCH REPORT

Work Order: 1107787

Project: Williams TR 31-5 Pad LOE 7/26/11

Batch ID: **34639** Instrument ID **GC8** Method: **SW8015M**

MBLK	Sample ID: DBLKS1-34639-34639				Units: mg/Kg		Analysis Date: 8/2/2011 05:37 PM			
Client ID:	Run ID: GC8_110802A				SeqNo: 1694411		Prep Date: 8/1/2011		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								
Surr: 4-Terphenyl-d14	1.752	0	2	0	87.6	39-115	0			

LCS	Sample ID: DLCSS1-34639-34639				Units: mg/Kg		Analysis Date: 8/2/2011 09:35 PM			
Client ID:	Run ID: GC8_110802A				SeqNo: 1694392		Prep Date: 8/1/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	134.6	5.0	200	0	67.3	60-130	0			
Surr: 4-Terphenyl-d14	1.32	0	2	0	66	39-115	0			

LCSD	Sample ID: DLCSDS1-34639-34639				Units: mg/Kg		Analysis Date: 8/2/2011 09:35 PM			
Client ID:	Run ID: GC8_110802A				SeqNo: 1694421		Prep Date: 8/1/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	190.4	5.0	200	0	95.2	60-130	134.6	34.4	30	R
Surr: 4-Terphenyl-d14	1.616	0	2	0	80.8	39-115	1.32	20.1	30	

MS	Sample ID: 1107774-03A MS				Units: mg/Kg		Analysis Date: 8/2/2011 09:59 PM			
Client ID:	Run ID: GC8_110802A				SeqNo: 1694393		Prep Date: 8/1/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	245.9	8.2	328	0	75	60-130	0			
Surr: 4-Terphenyl-d14	2.159	0	3.28	0	65.8	39-115	0			

MS	Sample ID: 1107813-03A MS				Units: mg/Kg		Analysis Date: 8/2/2011 10:22 PM			
Client ID:	Run ID: GC8_110802A				SeqNo: 1694394		Prep Date: 8/1/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	261	7.9	316.5	0	82.5	60-130	0			
Surr: 4-Terphenyl-d14	2.389	0	3.165	0	75.5	39-115	0			

MSD	Sample ID: 1107774-03A MSD				Units: mg/Kg		Analysis Date: 8/2/2011 09:59 PM			
Client ID:	Run ID: GC8_110802A				SeqNo: 1694422		Prep Date: 8/1/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	260.3	8.0	320.3	0	81.3	60-130	245.9	5.72	30	
Surr: 4-Terphenyl-d14	2.143	0	3.203	0	66.9	39-115	2.159	0.732	30	

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

Report Number: F11213-0307

Account Number: 91000

A & L GREAT LAKES LABORATORIES, INC.

3505 Conestoga Drive • Fort Wayne, Indiana 46808-4413 • Phone 260-483-4759 • Fax 260-483-5274

www.algreatlakes.com • lab@algreatlakes.com



QUALITY ANALYSES FOR INFORMED DECISIONS

TO: ALS LABORATORY GROUP
3352 128TH AVE
HOLLAND, MI 49424-9263

RE: 1107787

DATE RECEIVED: 08/01/2011

DATE REPORTED: 08/03/2011

PAGE: 2

P.O. NUMBER: 20-122010486

ATTN: ANN PRESTON

REPORT OF ANALYSIS

LAB NO.	SAMPLE ID	ANALYSIS	RESULT	UNIT	METHOD
44654	05C	Sat'd Paste Extraction with DIW	1		USDA Handbook 60
		Conductivity (ECe)	1.44	mmho/cm	USDA Handbook 60
		Calcium (Sat'd Paste)	26	ppm	USDA Handbook 60
		Magnesium (Sat'd Paste)	8	ppm	USDA Handbook 60
		Sodium (Sat'd Paste)	1203	ppm	USDA Handbook 60
		Sodium Adsorption Ratio	52.8	-	USDA Handbook 60
44655	06C	Sat'd Paste Extraction with DIW	1		USDA Handbook 60
		Conductivity (ECe)	0.55	mmho/cm	USDA Handbook 60
		Calcium (Sat'd Paste)	37	ppm	USDA Handbook 60
		Magnesium (Sat'd Paste)	16	ppm	USDA Handbook 60
		Sodium (Sat'd Paste)	233	ppm	USDA Handbook 60
		Sodium Adsorption Ratio	8.0	-	USDA Handbook 60

Report Number: F11213-0307

Account Number: 91000

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QUALITY ANALYSES FOR INFORMED DECISIONS

TO: ALS LABORATORY GROUP
3352 128TH AVE
HOLLAND, MI 49424-9263

RE: 1107787

DATE RECEIVED: 08/01/2011

DATE REPORTED: 08/03/2011

PAGE: 1

P.O. NUMBER: 20-122010486

ATTN: ANN PRESTON

REPORT OF ANALYSIS

LAB NO.	SAMPLE ID	ANALYSIS	RESULT	UNIT	METHOD
44650	01C	Sat'd Paste Extraction with DIW	1		USDA Handbook 60
		Conductivity (ECe)	25.52	mmho/cm	USDA Handbook 60
		Calcium (Sat'd Paste)	431	ppm	USDA Handbook 60
		Magnesium (Sat'd Paste)	41	ppm	USDA Handbook 60
		Sodium (Sat'd Paste)	22611	ppm	USDA Handbook 60
		Sodium Adsorption Ratio	278.2	-	USDA Handbook 60
44651	02C	Sat'd Paste Extraction with DIW	1		USDA Handbook 60
		Conductivity (ECe)	24.08	mmho/cm	USDA Handbook 60
		Calcium (Sat'd Paste)	609	ppm	USDA Handbook 60
		Magnesium (Sat'd Paste)	70	ppm	USDA Handbook 60
		Sodium (Sat'd Paste)	19248	ppm	USDA Handbook 60
		Sodium Adsorption Ratio	196.5	-	USDA Handbook 60
44652	03C	Sat'd Paste Extraction with DIW	1		USDA Handbook 60
		Conductivity (ECe)	36.20	mmho/cm	USDA Handbook 60
		Calcium (Sat'd Paste)	526	ppm	USDA Handbook 60
		Magnesium (Sat'd Paste)	59	ppm	USDA Handbook 60
		Sodium (Sat'd Paste)	31297	ppm	USDA Handbook 60
		Sodium Adsorption Ratio	344.4	-	USDA Handbook 60
44653	04C	Sat'd Paste Extraction with DIW	1		USDA Handbook 60
		Conductivity (ECe)	10.45	mmho/cm	USDA Handbook 60
		Calcium (Sat'd Paste)	159	ppm	USDA Handbook 60
		Magnesium (Sat'd Paste)	17	ppm	USDA Handbook 60
		Sodium (Sat'd Paste)	10577	ppm	USDA Handbook 60
		Sodium Adsorption Ratio	212.5	-	USDA Handbook 60

ALS Group USA, Corp

Date: 05-Aug-11

Client: HRL Compliance Solutions
Project: Williams TR 31-5 Pad LOE 7/26/11
Sample ID: N. Wall
Collection Date: 7/26/2011 09:10 AM

Work Order: 1107787
Lab ID: 1107787-06
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: 2-Fluorobiphenyl</i>	63.4		12-100	%REC	1	8/2/2011 11:31 PM
<i>Surr: 2-Fluorophenol</i>	67.5		33-117	%REC	1	8/2/2011 11:31 PM
<i>Surr: 4-Terphenyl-d14</i>	78.3		25-137	%REC	1	8/2/2011 11:31 PM
<i>Surr: Nitrobenzene-d5</i>	66.1		37-107	%REC	1	8/2/2011 11:31 PM
<i>Surr: Phenol-d6</i>	68.6		40-106	%REC	1	8/2/2011 11:31 PM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: MK
Benzene	ND		120	µg/Kg-dry	100	8/5/2011 07:22 AM
Ethylbenzene	ND		120	µg/Kg-dry	100	8/5/2011 07:22 AM
m,p-Xylene	ND		120	µg/Kg-dry	100	8/5/2011 07:22 AM
o-Xylene	ND		120	µg/Kg-dry	100	8/5/2011 07:22 AM
Toluene	ND		120	µg/Kg-dry	100	8/5/2011 07:22 AM
Xylenes, Total	ND		360	µg/Kg-dry	100	8/5/2011 07:22 AM
<i>Surr: 1,2-Dichloroethane-d4</i>	94.8		70-120	%REC	100	8/5/2011 07:22 AM
<i>Surr: 4-Bromofluorobenzene</i>	99.6		75-120	%REC	100	8/5/2011 07:22 AM
<i>Surr: Dibromofluoromethane</i>	94.8		85-115	%REC	100	8/5/2011 07:22 AM
<i>Surr: Toluene-d8</i>	99.2		85-115	%REC	100	8/5/2011 07:22 AM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JJG
Chromium, Trivalent	38			mg/L-dry	1	8/3/2011 10:09 AM
CHROMIUM, HEXAVALENT			SW7196A		Prep Date: 8/1/2011	Analyst: MB
Chromium, Hexavalent	ND		0.60	mg/Kg-dry	1	8/2/2011 03:30 PM
MOISTURE			A2540 G			Analyst: JS
Moisture	18		0.050	% of sample	1	7/29/2011 03:27 PM
PH			SW9045D			Analyst: JJG
pH	8.08			s.u.	1	7/29/2011 02:00 PM

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

ALS Group USA, Corp

Date: 05-Aug-11

Client: HRL Compliance Solutions
Project: Williams TR 31-5 Pad LOE 7/26/11
Sample ID: N. Wall
Collection Date: 7/26/2011 09:10 AM

Work Order: 1107787
Lab ID: 1107787-06
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	10		SW8015M		Prep Date: 8/1/2011	Analyst: RM
			4.9	mg/Kg-dry	1	8/2/2011 08:01 PM
Surr: 4-Terphenyl-d14	94.0		39-115	%REC	1	8/2/2011 08:01 PM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	ND		SW8015			Analyst: RM
			6.1	mg/Kg-dry	100	8/1/2011 05:51 PM
Surr: Toluene-d8	106		50-150	%REC	100	8/1/2011 05:51 PM
MERCURY BY CVAA						
Mercury	ND		SW7471		Prep Date: 8/2/2011	Analyst: LR
			0.021	mg/Kg-dry	1	8/2/2011 12:45 PM
METALS BY ICP-MS						
Arsenic	15		SW6020A		Prep Date: 8/1/2011	Analyst: CES
			0.86	mg/Kg-dry	2	8/2/2011 03:24 AM
Barium	560		8.6	mg/Kg-dry	20	8/2/2011 11:33 AM
Cadmium	0.58		0.35	mg/Kg-dry	2	8/2/2011 03:24 AM
Chromium	38		0.86	mg/Kg-dry	2	8/2/2011 03:24 AM
Copper	26		0.86	mg/Kg-dry	2	8/2/2011 03:24 AM
Lead	26		0.86	mg/Kg-dry	2	8/2/2011 03:24 AM
Nickel	28		0.86	mg/Kg-dry	2	8/2/2011 03:24 AM
Selenium	1.3		0.86	mg/Kg-dry	2	8/2/2011 03:24 AM
Silver	ND		0.86	mg/Kg-dry	2	8/2/2011 03:24 AM
Zinc	99		1.7	mg/Kg-dry	2	8/2/2011 03:24 AM
SUBCONTRACTED ANALYSES						
Subcontracted Analyses	See Report		SUBCONTRACT			Analyst: A&LGL
			as noted		1	8/3/2011
SEMI-VOLATILE ORGANIC COMPOUNDS						
Acenaphthene	ND		SW8270		Prep Date: 8/1/2011	Analyst: HL
			36	µg/Kg-dry	1	8/2/2011 11:31 PM
Anthracene	ND		36	µg/Kg-dry	1	8/2/2011 11:31 PM
Benzo(a)anthracene	ND		36	µg/Kg-dry	1	8/2/2011 11:31 PM
Benzo(a)pyrene	ND		36	µg/Kg-dry	1	8/2/2011 11:31 PM
Benzo(b)fluoranthene	66		36	µg/Kg-dry	1	8/2/2011 11:31 PM
Benzo(g,h,i)perylene	ND		36	µg/Kg-dry	1	8/2/2011 11:31 PM
Benzo(k)fluoranthene	ND		36	µg/Kg-dry	1	8/2/2011 11:31 PM
Chrysene	ND		36	µg/Kg-dry	1	8/2/2011 11:31 PM
Dibenzo(a,h)anthracene	ND		36	µg/Kg-dry	1	8/2/2011 11:31 PM
Fluoranthene	ND		36	µg/Kg-dry	1	8/2/2011 11:31 PM
Fluorene	ND		36	µg/Kg-dry	1	8/2/2011 11:31 PM
Indeno(1,2,3-cd)pyrene	ND		36	µg/Kg-dry	1	8/2/2011 11:31 PM
Naphthalene	ND		36	µg/Kg-dry	1	8/2/2011 11:31 PM
Pyrene	ND		36	µg/Kg-dry	1	8/2/2011 11:31 PM
Surr: 2,4,6-Tribromophenol	73.1		34-140	%REC	1	8/2/2011 11:31 PM

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

ALS Group USA, Corp

Date: 05-Aug-11

Client: HRL Compliance Solutions
Project: Williams TR 31-5 Pad LOE 7/26/11
Sample ID: N. Bottom
Collection Date: 7/26/2011 08:40 AM

Work Order: 1107787
Lab ID: 1107787-05
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: 2-Fluorobiphenyl</i>	67.0		12-100	%REC	1	8/2/2011 11:00 PM
<i>Surr: 2-Fluorophenol</i>	65.1		33-117	%REC	1	8/2/2011 11:00 PM
<i>Surr: 4-Terphenyl-d14</i>	79.3		25-137	%REC	1	8/2/2011 11:00 PM
<i>Surr: Nitrobenzene-d5</i>	81.4		37-107	%REC	1	8/2/2011 11:00 PM
<i>Surr: Phenol-d6</i>	68.7		40-106	%REC	1	8/2/2011 11:00 PM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: MK
Benzene	ND		120	µg/Kg-dry	100	8/5/2011 06:55 AM
Ethylbenzene	ND		120	µg/Kg-dry	100	8/5/2011 06:55 AM
m,p-Xylene	330		120	µg/Kg-dry	100	8/5/2011 06:55 AM
o-Xylene	ND		120	µg/Kg-dry	100	8/5/2011 06:55 AM
Toluene	ND		120	µg/Kg-dry	100	8/5/2011 06:55 AM
Xylenes, Total	380		360	µg/Kg-dry	100	8/5/2011 06:55 AM
<i>Surr: 1,2-Dichloroethane-d4</i>	94.8		70-120	%REC	100	8/5/2011 06:55 AM
<i>Surr: 4-Bromofluorobenzene</i>	100		75-120	%REC	100	8/5/2011 06:55 AM
<i>Surr: Dibromofluoromethane</i>	94.2		85-115	%REC	100	8/5/2011 06:55 AM
<i>Surr: Toluene-d8</i>	99.1		85-115	%REC	100	8/5/2011 06:55 AM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JJG
Chromium, Trivalent	33			mg/L-dry	1	8/3/2011 10:09 AM
CHROMIUM, HEXAVALENT			SW7196A		Prep Date: 8/1/2011	Analyst: MB
Chromium, Hexavalent	ND		0.59	mg/Kg-dry	1	8/2/2011 03:30 PM
MOISTURE			A2540 G			Analyst: JS
Moisture	16		0.050	% of sample	1	7/29/2011 03:27 PM
PH			SW9045D			Analyst: JJG
pH	8.32			s.u.	1	7/29/2011 02:00 PM

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

ALS Group USA, Corp

Date: 05-Aug-11

Client: HRL Compliance Solutions
Project: Williams TR 31-5 Pad LOE 7/26/11
Sample ID: N. Bottom
Collection Date: 7/26/2011 08:40 AM

Work Order: 1107787
Lab ID: 1107787-05
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep Date: 8/1/2011	Analyst: RM
DRO (C10-C28)	300		4.8	mg/Kg-dry	1	8/2/2011 08:01 PM
Surr: 4-Terphenyl-d14	100		39-115	%REC	1	8/2/2011 08:01 PM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015			Analyst: RM
GRO (C6-C10)	86		6.0	mg/Kg-dry	100	8/1/2011 05:23 PM
Surr: Toluene-d8	111		50-150	%REC	100	8/1/2011 05:23 PM
MERCURY BY CVAA						
			SW7471		Prep Date: 8/2/2011	Analyst: LR
Mercury	ND		0.019	mg/Kg-dry	1	8/2/2011 12:43 PM
METALS BY ICP-MS						
			SW6020A		Prep Date: 8/1/2011	Analyst: CES
Arsenic	6.2		0.78	mg/Kg-dry	2	8/2/2011 03:18 AM
Barium	370		7.8	mg/Kg-dry	20	8/2/2011 11:27 AM
Cadmium	0.37		0.31	mg/Kg-dry	2	8/2/2011 03:18 AM
Chromium	34		0.78	mg/Kg-dry	2	8/2/2011 03:18 AM
Copper	15		0.78	mg/Kg-dry	2	8/2/2011 03:18 AM
Lead	16		0.78	mg/Kg-dry	2	8/2/2011 03:18 AM
Nickel	23		0.78	mg/Kg-dry	2	8/2/2011 03:18 AM
Selenium	1.6		0.78	mg/Kg-dry	2	8/2/2011 03:18 AM
Silver	ND		0.78	mg/Kg-dry	2	8/2/2011 03:18 AM
Zinc	58		1.6	mg/Kg-dry	2	8/2/2011 03:18 AM
SUBCONTRACTED ANALYSES						
Subcontracted Analyses	See Report		SUBCONTRACT			Analyst: A&LGL
			as noted		1	8/3/2011
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW8270		Prep Date: 8/1/2011	Analyst: HL
Acenaphthene	ND		35	µg/Kg-dry	1	8/2/2011 11:00 PM
Anthracene	ND		35	µg/Kg-dry	1	8/2/2011 11:00 PM
Benzo(a)anthracene	ND		35	µg/Kg-dry	1	8/2/2011 11:00 PM
Benzo(a)pyrene	ND		35	µg/Kg-dry	1	8/2/2011 11:00 PM
Benzo(b)fluoranthene	ND		35	µg/Kg-dry	1	8/2/2011 11:00 PM
Benzo(g,h,i)perylene	ND		35	µg/Kg-dry	1	8/2/2011 11:00 PM
Benzo(k)fluoranthene	ND		35	µg/Kg-dry	1	8/2/2011 11:00 PM
Chrysene	ND		35	µg/Kg-dry	1	8/2/2011 11:00 PM
Dibenzo(a,h)anthracene	ND		35	µg/Kg-dry	1	8/2/2011 11:00 PM
Fluoranthene	ND		35	µg/Kg-dry	1	8/2/2011 11:00 PM
Fluorene	37		35	µg/Kg-dry	1	8/2/2011 11:00 PM
Indeno(1,2,3-cd)pyrene	ND		35	µg/Kg-dry	1	8/2/2011 11:00 PM
Naphthalene	ND		35	µg/Kg-dry	1	8/2/2011 11:00 PM
Pyrene	ND		35	µg/Kg-dry	1	8/2/2011 11:00 PM
Surr: 2,4,6-Tribromophenol	78.2		34-140	%REC	1	8/2/2011 11:00 PM

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

ALS Group USA, Corp

Date: 05-Aug-11

Client: HRL Compliance Solutions
Project: Williams TR 31-5 Pad LOE 7/26/11
Sample ID: E. Wall
Collection Date: 7/26/2011 09:00 AM

Work Order: 1107787
Lab ID: 1107787-04
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: 2-Fluorobiphenyl</i>	74.7		12-100	%REC	1	8/2/2011 10:28 PM
<i>Surr: 2-Fluorophenol</i>	58.5		33-117	%REC	1	8/2/2011 10:28 PM
<i>Surr: 4-Terphenyl-d14</i>	73.6		25-137	%REC	1	8/2/2011 10:28 PM
<i>Surr: Nitrobenzene-d5</i>	94.9		37-107	%REC	1	8/2/2011 10:28 PM
<i>Surr: Phenol-d6</i>	59.6		40-106	%REC	1	8/2/2011 10:28 PM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: MK
Benzene	ND		120	µg/Kg-dry	100	8/5/2011 06:29 AM
Ethylbenzene	ND		120	µg/Kg-dry	100	8/5/2011 06:29 AM
m,p-Xylene	ND		120	µg/Kg-dry	100	8/5/2011 06:29 AM
o-Xylene	ND		120	µg/Kg-dry	100	8/5/2011 06:29 AM
Toluene	ND		120	µg/Kg-dry	100	8/5/2011 06:29 AM
Xylenes, Total	ND		360	µg/Kg-dry	100	8/5/2011 06:29 AM
<i>Surr: 1,2-Dichloroethane-d4</i>	95.4		70-120	%REC	100	8/5/2011 06:29 AM
<i>Surr: 4-Bromofluorobenzene</i>	101		75-120	%REC	100	8/5/2011 06:29 AM
<i>Surr: Dibromofluoromethane</i>	94.0		85-115	%REC	100	8/5/2011 06:29 AM
<i>Surr: Toluene-d8</i>	98.2		85-115	%REC	100	8/5/2011 06:29 AM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JJG
Chromium, Trivalent	31			mg/L-dry	1	8/3/2011 10:09 AM
CHROMIUM, HEXAVALENT			SW7196A		Prep Date: 8/1/2011	Analyst: MB
Chromium, Hexavalent	ND		0.60	mg/Kg-dry	1	8/2/2011 03:30 PM
MOISTURE			A2540 G			Analyst: JS
Moisture	17		0.050	% of sample	1	7/29/2011 03:27 PM
PH			SW9045D			Analyst: JJG
pH	7.60			s.u.	1	7/29/2011 02:00 PM

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

ALS Group USA, Corp

Date: 05-Aug-11

Client: HRL Compliance Solutions
Project: Williams TR 31-5 Pad LOE 7/26/11
Sample ID: E. Wall
Collection Date: 7/26/2011 09:00 AM

Work Order: 1107787
Lab ID: 1107787-04
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	630		SW8015M		Prep Date: 8/1/2011	Analyst: RM
			5.0	mg/Kg-dry	1	8/2/2011 07:38 PM
Surr: 4-Terphenyl-d14	95.5		39-115	%REC	1	8/2/2011 07:38 PM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	45		SW8015			Analyst: RM
			6.0	mg/Kg-dry	100	8/1/2011 04:56 PM
Surr: Toluene-d8	104		50-150	%REC	100	8/1/2011 04:56 PM
MERCURY BY CVAA						
Mercury	ND		SW7471		Prep Date: 8/2/2011	Analyst: LR
			0.022	mg/Kg-dry	1	8/2/2011 12:37 PM
METALS BY ICP-MS						
			SW6020A		Prep Date: 8/1/2011	Analyst: CES
Arsenic	4.0		0.88	mg/Kg-dry	2	8/2/2011 03:13 AM
Barium	280		0.88	mg/Kg-dry	2	8/2/2011 03:13 AM
Cadmium	0.42		0.35	mg/Kg-dry	2	8/2/2011 03:13 AM
Chromium	31		0.88	mg/Kg-dry	2	8/2/2011 03:13 AM
Copper	14		0.88	mg/Kg-dry	2	8/2/2011 03:13 AM
Lead	14		0.88	mg/Kg-dry	2	8/2/2011 03:13 AM
Nickel	23		0.88	mg/Kg-dry	2	8/2/2011 03:13 AM
Selenium	0.93		0.88	mg/Kg-dry	2	8/2/2011 03:13 AM
Silver	ND		0.88	mg/Kg-dry	2	8/2/2011 03:13 AM
Zinc	68		1.8	mg/Kg-dry	2	8/2/2011 03:13 AM
SUBCONTRACTED ANALYSES						
Subcontracted Analyses	See Report		SUBCONTRACT			Analyst: A&LGL
			as noted		1	8/3/2011
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW8270		Prep Date: 8/1/2011	Analyst: HL
Acenaphthene	ND		36	µg/Kg-dry	1	8/2/2011 10:28 PM
Anthracene	ND		36	µg/Kg-dry	1	8/2/2011 10:28 PM
Benzo(a)anthracene	ND		36	µg/Kg-dry	1	8/2/2011 10:28 PM
Benzo(a)pyrene	ND		36	µg/Kg-dry	1	8/2/2011 10:28 PM
Benzo(b)fluoranthene	ND		36	µg/Kg-dry	1	8/2/2011 10:28 PM
Benzo(g,h,i)perylene	ND		36	µg/Kg-dry	1	8/2/2011 10:28 PM
Benzo(k)fluoranthene	ND		36	µg/Kg-dry	1	8/2/2011 10:28 PM
Chrysene	ND		36	µg/Kg-dry	1	8/2/2011 10:28 PM
Dibenzo(a,h)anthracene	ND		36	µg/Kg-dry	1	8/2/2011 10:28 PM
Fluoranthene	ND		36	µg/Kg-dry	1	8/2/2011 10:28 PM
Fluorene	190		36	µg/Kg-dry	1	8/2/2011 10:28 PM
Indeno(1,2,3-cd)pyrene	ND		36	µg/Kg-dry	1	8/2/2011 10:28 PM
Naphthalene	ND		36	µg/Kg-dry	1	8/2/2011 10:28 PM
Pyrene	ND		36	µg/Kg-dry	1	8/2/2011 10:28 PM
Surr: 2,4,6-Tribromophenol	76.3		34-140	%REC	1	8/2/2011 10:28 PM

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

ALS Group USA, Corp

Date: 05-Aug-11

Client: HRL Compliance Solutions
Project: Williams TR 31-5 Pad LOE 7/26/11
Sample ID: W. Wall
Collection Date: 7/26/2011 09:20 AM

Work Order: 1107787
Lab ID: 1107787-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: 2-Fluorobiphenyl</i>	47.7		12-100	%REC	1	8/2/2011 09:57 PM
<i>Surr: 2-Fluorophenol</i>	74.7		33-117	%REC	1	8/2/2011 09:57 PM
<i>Surr: 4-Terphenyl-d14</i>	78.5		25-137	%REC	1	8/2/2011 09:57 PM
<i>Surr: Nitrobenzene-d5</i>	68.2		37-107	%REC	1	8/2/2011 09:57 PM
<i>Surr: Phenol-d6</i>	74.8		40-106	%REC	1	8/2/2011 09:57 PM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: MK
Benzene	ND		130	µg/Kg-dry	100	8/5/2011 06:04 AM
Ethylbenzene	ND		130	µg/Kg-dry	100	8/5/2011 06:04 AM
m,p-Xylene	ND		130	µg/Kg-dry	100	8/5/2011 06:04 AM
o-Xylene	ND		130	µg/Kg-dry	100	8/5/2011 06:04 AM
Toluene	ND		130	µg/Kg-dry	100	8/5/2011 06:04 AM
Xylenes, Total	ND		400	µg/Kg-dry	100	8/5/2011 06:04 AM
<i>Surr: 1,2-Dichloroethane-d4</i>	97.2		70-120	%REC	100	8/5/2011 06:04 AM
<i>Surr: 4-Bromofluorobenzene</i>	103		75-120	%REC	100	8/5/2011 06:04 AM
<i>Surr: Dibromofluoromethane</i>	96.2		85-115	%REC	100	8/5/2011 06:04 AM
<i>Surr: Toluene-d8</i>	100		85-115	%REC	100	8/5/2011 06:04 AM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JJG
Chromium, Trivalent	43			mg/L-dry	1	8/3/2011 10:09 AM
CHROMIUM, HEXAVALENT			SW7196A		Prep Date: 8/1/2011	Analyst: MB
Chromium, Hexavalent	ND		0.64	mg/Kg-dry	1	8/2/2011 03:30 PM
MOISTURE			A2540 G			Analyst: JS
Moisture	25		0.050	% of sample	1	7/29/2011 03:27 PM
PH			SW9045D			Analyst: JJG
pH	7.53			s.u.	1	7/29/2011 02:00 PM

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

ALS Group USA, Corp

Date: 05-Aug-11

Client: HRL Compliance Solutions
Project: Williams TR 31-5 Pad LOE 7/26/11
Sample ID: W. Wall
Collection Date: 7/26/2011 09:20 AM

Work Order: 1107787
Lab ID: 1107787-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	15		SW8015M		Prep Date: 8/1/2011	Analyst: RM
			5.4	mg/Kg-dry	1	8/2/2011 07:38 PM
<i>Surr: 4-Terphenyl-d14</i>	<i>80.5</i>		<i>39-115</i>	<i>%REC</i>	<i>1</i>	8/2/2011 07:38 PM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	55		SW8015			Analyst: RM
			6.6	mg/Kg-dry	100	8/1/2011 04:28 PM
<i>Surr: Toluene-d8</i>	<i>112</i>		<i>50-150</i>	<i>%REC</i>	<i>100</i>	8/1/2011 04:28 PM
MERCURY BY CVAA						
Mercury	ND		SW7471		Prep Date: 8/2/2011	Analyst: LR
			0.024	mg/Kg-dry	1	8/2/2011 12:34 PM
METALS BY ICP-MS						
Arsenic	3.9		SW6020A		Prep Date: 8/1/2011	Analyst: CES
			0.87	mg/Kg-dry	2	8/2/2011 03:07 AM
Barium	290		0.87	mg/Kg-dry	2	8/2/2011 03:07 AM
Cadmium	0.39		0.35	mg/Kg-dry	2	8/2/2011 03:07 AM
Chromium	43		0.87	mg/Kg-dry	2	8/2/2011 03:07 AM
Copper	15		0.87	mg/Kg-dry	2	8/2/2011 03:07 AM
Lead	14		0.87	mg/Kg-dry	2	8/2/2011 03:07 AM
Nickel	21		0.87	mg/Kg-dry	2	8/2/2011 03:07 AM
Selenium	0.95		0.87	mg/Kg-dry	2	8/2/2011 03:07 AM
Silver	ND		0.87	mg/Kg-dry	2	8/2/2011 03:07 AM
Zinc	65		1.7	mg/Kg-dry	2	8/2/2011 03:07 AM
SUBCONTRACTED ANALYSES						
Subcontracted Analyses	See Report		SUBCONTRACT			Analyst: A&LGL
			as noted		1	8/3/2011
SEMI-VOLATILE ORGANIC COMPOUNDS						
Acenaphthene	ND		SW8270		Prep Date: 8/1/2011	Analyst: HL
			39	µg/Kg-dry	1	8/2/2011 09:57 PM
Anthracene	ND		39	µg/Kg-dry	1	8/2/2011 09:57 PM
Benzo(a)anthracene	ND		39	µg/Kg-dry	1	8/2/2011 09:57 PM
Benzo(a)pyrene	ND		39	µg/Kg-dry	1	8/2/2011 09:57 PM
Benzo(b)fluoranthene	ND		39	µg/Kg-dry	1	8/2/2011 09:57 PM
Benzo(g,h,i)perylene	ND		39	µg/Kg-dry	1	8/2/2011 09:57 PM
Benzo(k)fluoranthene	ND		39	µg/Kg-dry	1	8/2/2011 09:57 PM
Chrysene	ND		39	µg/Kg-dry	1	8/2/2011 09:57 PM
Dibenzo(a,h)anthracene	ND		39	µg/Kg-dry	1	8/2/2011 09:57 PM
Fluoranthene	ND		39	µg/Kg-dry	1	8/2/2011 09:57 PM
Fluorene	ND		39	µg/Kg-dry	1	8/2/2011 09:57 PM
Indeno(1,2,3-cd)pyrene	ND		39	µg/Kg-dry	1	8/2/2011 09:57 PM
Naphthalene	ND		39	µg/Kg-dry	1	8/2/2011 09:57 PM
Pyrene	ND		39	µg/Kg-dry	1	8/2/2011 09:57 PM
<i>Surr: 2,4,6-Tribromophenol</i>	<i>72.8</i>		<i>34-140</i>	<i>%REC</i>	<i>1</i>	8/2/2011 09:57 PM

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

ALS Group USA, Corp

Date: 05-Aug-11

Client: HRL Compliance Solutions
Project: Williams TR 31-5 Pad LOE 7/26/11
Sample ID: S. Bottom
Collection Date: 7/26/2011 08:50 AM

Work Order: 1107787
Lab ID: 1107787-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: 2-Fluorobiphenyl</i>	45.9		12-100	%REC	1	8/2/2011 09:25 PM
<i>Surr: 2-Fluorophenol</i>	76.4		33-117	%REC	1	8/2/2011 09:25 PM
<i>Surr: 4-Terphenyl-d14</i>	74.3		25-137	%REC	1	8/2/2011 09:25 PM
<i>Surr: Nitrobenzene-d5</i>	71.0		37-107	%REC	1	8/2/2011 09:25 PM
<i>Surr: Phenol-d6</i>	71.4		40-106	%REC	1	8/2/2011 09:25 PM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: MK
Benzene	ND		120	µg/Kg-dry	100	8/5/2011 05:39 AM
Ethylbenzene	ND		120	µg/Kg-dry	100	8/5/2011 05:39 AM
m,p-Xylene	ND		120	µg/Kg-dry	100	8/5/2011 05:39 AM
o-Xylene	ND		120	µg/Kg-dry	100	8/5/2011 05:39 AM
Toluene	ND		120	µg/Kg-dry	100	8/5/2011 05:39 AM
Xylenes, Total	ND		370	µg/Kg-dry	100	8/5/2011 05:39 AM
<i>Surr: 1,2-Dichloroethane-d4</i>	97.0		70-120	%REC	100	8/5/2011 05:39 AM
<i>Surr: 4-Bromofluorobenzene</i>	98.8		75-120	%REC	100	8/5/2011 05:39 AM
<i>Surr: Dibromofluoromethane</i>	95.6		85-115	%REC	100	8/5/2011 05:39 AM
<i>Surr: Toluene-d8</i>	98.5		85-115	%REC	100	8/5/2011 05:39 AM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JJG
Chromium, Trivalent	42			mg/L-dry	1	8/3/2011 10:09 AM
CHROMIUM, HEXAVALENT			SW7196A		Prep Date: 8/1/2011	Analyst: MB
Chromium, Hexavalent	ND		0.62	mg/Kg-dry	1	8/2/2011 03:30 PM
MOISTURE			A2540 G			Analyst: JS
Moisture	20		0.050	% of sample	1	7/29/2011 03:27 PM
PH			SW9045D			Analyst: JJG
pH	7.24			s.u.	1	7/29/2011 02:00 PM

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

ALS Group USA, Corp

Date: 05-Aug-11

Client: HRL Compliance Solutions
Project: Williams TR 31-5 Pad LOE 7/26/11
Sample ID: S. Bottom
Collection Date: 7/26/2011 08:50 AM

Work Order: 1107787
Lab ID: 1107787-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	34		SW8015M		Prep Date: 8/1/2011	Analyst: RM
			5.1	mg/Kg-dry	1	8/2/2011 07:14 PM
<i>Surr: 4-Terphenyl-d14</i>	<i>92.6</i>		<i>39-115</i>	<i>%REC</i>	<i>1</i>	8/2/2011 07:14 PM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	ND		SW8015			Analyst: RM
			6.2	mg/Kg-dry	100	8/1/2011 03:59 PM
<i>Surr: Toluene-d8</i>	<i>107</i>		<i>50-150</i>	<i>%REC</i>	<i>100</i>	8/1/2011 03:59 PM
MERCURY BY CVAA						
Mercury	ND		SW7471		Prep Date: 8/2/2011	Analyst: LR
			0.021	mg/Kg-dry	1	8/2/2011 12:32 PM
METALS BY ICP-MS						
Arsenic	5.1		SW6020A		Prep Date: 8/1/2011	Analyst: RH
			2.2	mg/Kg-dry	5	8/3/2011 12:09 PM
Barium	380		8.8	mg/Kg-dry	20	8/2/2011 11:03 AM
Cadmium	0.40		0.35	mg/Kg-dry	2	8/2/2011 11:09 AM
Chromium	43		0.88	mg/Kg-dry	2	8/2/2011 11:09 AM
Copper	14		0.88	mg/Kg-dry	2	8/2/2011 11:09 AM
Lead	16		0.88	mg/Kg-dry	2	8/2/2011 11:09 AM
Nickel	22		0.88	mg/Kg-dry	2	8/2/2011 11:09 AM
Selenium	0.98		0.88	mg/Kg-dry	2	8/2/2011 11:09 AM
Silver	ND		0.88	mg/Kg-dry	2	8/2/2011 11:09 AM
Zinc	69		4.4	mg/Kg-dry	5	8/3/2011 12:09 PM
SUBCONTRACTED ANALYSES						
Subcontracted Analyses	See Report		SUBCONTRACT			Analyst: A&LGL
			as noted		1	8/3/2011
SEMI-VOLATILE ORGANIC COMPOUNDS						
Acenaphthene	ND		SW8270		Prep Date: 8/1/2011	Analyst: HL
			37	µg/Kg-dry	1	8/2/2011 09:25 PM
Anthracene	ND		37	µg/Kg-dry	1	8/2/2011 09:25 PM
Benzo(a)anthracene	ND		37	µg/Kg-dry	1	8/2/2011 09:25 PM
Benzo(a)pyrene	ND		37	µg/Kg-dry	1	8/2/2011 09:25 PM
Benzo(b)fluoranthene	ND		37	µg/Kg-dry	1	8/2/2011 09:25 PM
Benzo(g,h,i)perylene	ND		37	µg/Kg-dry	1	8/2/2011 09:25 PM
Benzo(k)fluoranthene	ND		37	µg/Kg-dry	1	8/2/2011 09:25 PM
Chrysene	ND		37	µg/Kg-dry	1	8/2/2011 09:25 PM
Dibenzo(a,h)anthracene	ND		37	µg/Kg-dry	1	8/2/2011 09:25 PM
Fluoranthene	ND		37	µg/Kg-dry	1	8/2/2011 09:25 PM
Fluorene	ND		37	µg/Kg-dry	1	8/2/2011 09:25 PM
Indeno(1,2,3-cd)pyrene	ND		37	µg/Kg-dry	1	8/2/2011 09:25 PM
Naphthalene	ND		37	µg/Kg-dry	1	8/2/2011 09:25 PM
Pyrene	ND		37	µg/Kg-dry	1	8/2/2011 09:25 PM
<i>Surr: 2,4,6-Tribromophenol</i>	<i>69.8</i>		<i>34-140</i>	<i>%REC</i>	<i>1</i>	8/2/2011 09:25 PM

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

ALS Group USA, Corp

Date: 05-Aug-11

Client: HRL Compliance Solutions
Project: Williams TR 31-5 Pad LOE 7/26/11
Sample ID: S. Wall
Collection Date: 7/26/2011 09:30 AM

Work Order: 1107787
Lab ID: 1107787-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: 2-Fluorobiphenyl</i>	46.7		12-100	%REC	1	8/2/2011 08:53 PM
<i>Surr: 2-Fluorophenol</i>	72.5		33-117	%REC	1	8/2/2011 08:53 PM
<i>Surr: 4-Terphenyl-d14</i>	79.1		25-137	%REC	1	8/2/2011 08:53 PM
<i>Surr: Nitrobenzene-d5</i>	66.4		37-107	%REC	1	8/2/2011 08:53 PM
<i>Surr: Phenol-d6</i>	75.0		40-106	%REC	1	8/2/2011 08:53 PM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: MK
Benzene	ND		130	µg/Kg-dry	100	8/5/2011 05:14 AM
Ethylbenzene	ND		130	µg/Kg-dry	100	8/5/2011 05:14 AM
m,p-Xylene	ND		130	µg/Kg-dry	100	8/5/2011 05:14 AM
o-Xylene	ND		130	µg/Kg-dry	100	8/5/2011 05:14 AM
Toluene	ND		130	µg/Kg-dry	100	8/5/2011 05:14 AM
Xylenes, Total	ND		390	µg/Kg-dry	100	8/5/2011 05:14 AM
<i>Surr: 1,2-Dichloroethane-d4</i>	97.2		70-120	%REC	100	8/5/2011 05:14 AM
<i>Surr: 4-Bromofluorobenzene</i>	97.2		75-120	%REC	100	8/5/2011 05:14 AM
<i>Surr: Dibromofluoromethane</i>	95.0		85-115	%REC	100	8/5/2011 05:14 AM
<i>Surr: Toluene-d8</i>	99.1		85-115	%REC	100	8/5/2011 05:14 AM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JJG
Chromium, Trivalent	39			mg/L-dry	1	8/3/2011 10:09 AM
CHROMIUM, HEXAVALENT			SW7196A		Prep Date: 8/1/2011	Analyst: MB
Chromium, Hexavalent	ND		0.65	mg/Kg-dry	1	8/2/2011 03:30 PM
MOISTURE			A2540 G			Analyst: JS
Moisture	24		0.050	% of sample	1	7/29/2011 02:00 PM
PH			SW9045D			Analyst: JJG
pH	8.10			s.u.	1	7/29/2011 02:00 PM

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

ALS Group USA, Corp

Date: 05-Aug-11

Client: HRL Compliance Solutions
Project: Williams TR 31-5 Pad LOE 7/26/11
Sample ID: S. Wall
Collection Date: 7/26/2011 09:30 AM

Work Order: 1107787
Lab ID: 1107787-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	13		SW8015M		Prep Date: 8/1/2011	Analyst: RM
			5.4	mg/Kg-dry	1	8/2/2011 07:14 PM
<i>Surr: 4-Terphenyl-d14</i>	<i>87.6</i>		<i>39-115</i>	<i>%REC</i>	<i>1</i>	8/2/2011 07:14 PM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	ND		SW8015			Analyst: RM
			6.6	mg/Kg-dry	100	8/1/2011 03:31 PM
<i>Surr: Toluene-d8</i>	<i>105</i>		<i>50-150</i>	<i>%REC</i>	<i>100</i>	8/1/2011 03:31 PM
MERCURY BY CVAA						
Mercury	ND		SW7471		Prep Date: 8/2/2011	Analyst: LR
			0.021	mg/Kg-dry	1	8/2/2011 12:30 PM
METALS BY ICP-MS						
Arsenic	5.5		SW6020A		Prep Date: 8/1/2011	Analyst: RH
			2.4	mg/Kg-dry	5	8/3/2011 12:04 PM
Barium	470		9.4	mg/Kg-dry	20	8/2/2011 10:51 AM
Cadmium	0.40		0.38	mg/Kg-dry	2	8/2/2011 10:57 AM
Chromium	39		0.94	mg/Kg-dry	2	8/2/2011 10:57 AM
Copper	19		0.94	mg/Kg-dry	2	8/2/2011 10:57 AM
Lead	17		0.94	mg/Kg-dry	2	8/2/2011 10:57 AM
Nickel	26		0.94	mg/Kg-dry	2	8/2/2011 10:57 AM
Selenium	ND		0.94	mg/Kg-dry	2	8/2/2011 10:57 AM
Silver	ND		0.94	mg/Kg-dry	2	8/2/2011 10:57 AM
Zinc	74		4.7	mg/Kg-dry	5	8/3/2011 12:04 PM
SUBCONTRACTED ANALYSES						
Subcontracted Analyses	See Report		SUBCONTRACT			Analyst: A&LGL
			as noted		1	8/3/2011
SEMI-VOLATILE ORGANIC COMPOUNDS						
Acenaphthene	ND		SW8270		Prep Date: 8/1/2011	Analyst: HL
			39	µg/Kg-dry	1	8/2/2011 08:53 PM
Anthracene	ND		39	µg/Kg-dry	1	8/2/2011 08:53 PM
Benzo(a)anthracene	ND		39	µg/Kg-dry	1	8/2/2011 08:53 PM
Benzo(a)pyrene	ND		39	µg/Kg-dry	1	8/2/2011 08:53 PM
Benzo(b)fluoranthene	ND		39	µg/Kg-dry	1	8/2/2011 08:53 PM
Benzo(g,h,i)perylene	ND		39	µg/Kg-dry	1	8/2/2011 08:53 PM
Benzo(k)fluoranthene	ND		39	µg/Kg-dry	1	8/2/2011 08:53 PM
Chrysene	ND		39	µg/Kg-dry	1	8/2/2011 08:53 PM
Dibenzo(a,h)anthracene	ND		39	µg/Kg-dry	1	8/2/2011 08:53 PM
Fluoranthene	ND		39	µg/Kg-dry	1	8/2/2011 08:53 PM
Fluorene	ND		39	µg/Kg-dry	1	8/2/2011 08:53 PM
Indeno(1,2,3-cd)pyrene	ND		39	µg/Kg-dry	1	8/2/2011 08:53 PM
Naphthalene	ND		39	µg/Kg-dry	1	8/2/2011 08:53 PM
Pyrene	ND		39	µg/Kg-dry	1	8/2/2011 08:53 PM
<i>Surr: 2,4,6-Tribromophenol</i>	<i>69.3</i>		<i>34-140</i>	<i>%REC</i>	<i>1</i>	8/2/2011 08:53 PM

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

Client: HRL Compliance Solutions
Project: Williams TR 31-5 Pad LOE 7/26/11
WorkOrder: 1107787

**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 detected below quantitation 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

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
TDL	Target Detection Limit

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
µg/Kg-dry as noted	Micrograms per Kilogram Dry Weight
mg/Kg-dry	Milligrams per Kilogram Dry Weight
s.u.	Standard Units

Client: HRL Compliance Solutions
Project: Williams TR 31-5 Pad LOE 7/26/11
Work Order: 1107787

Case Narrative**QC Summary****Diesel Range Organics (C10-C28)**

Batch 34639, Method 8015M, Sample DLCSDS1-34639: The RPD between the LCS and LCSD was outside of control limits. Both the LCS and LCSD recoveries were within control limits exhibiting good instrument accuracy. MS/MSD recoveries were all within control limits.

Metals by ICP-MS

Batch 34630, Method 6020A, Sample 1107774-03A MS: The MS and MSD recoveries are out of control for barium; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required.

Batch 34644, Method 6020A, Sample 1107813-03A MS: The MS and MSD recoveries are out of control for barium; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required.

Batch 34644, Method 6020A, Sample 11078002-04B MS: The MS and MSD recoveries are out of control for barium and zinc; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required.

Client: HRL Compliance Solutions
Project: Williams TR 31-5 Pad LOE 7/26/11
Work Order: 1107787

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>
1107787-01	S. Wall	Soil		7/26/2011 09:30	7/29/2011 10:00	<input type="checkbox"/>
1107787-02	S. Bottom	Soil		7/26/2011 08:50	7/29/2011 10:00	<input type="checkbox"/>
1107787-03	W. Wall	Soil		7/26/2011 09:20	7/29/2011 10:00	<input type="checkbox"/>
1107787-04	E. Wall	Soil		7/26/2011 09:00	7/29/2011 10:00	<input type="checkbox"/>
1107787-05	N. Bottom	Soil		7/26/2011 08:40	7/29/2011 10:00	<input type="checkbox"/>
1107787-06	N. Wall	Soil		7/26/2011 09:10	7/29/2011 10:00	<input type="checkbox"/>



05-Aug-2011

Mark Mumby
HRL Compliance Solutions
744 Horizon Ct. Suite 140
Grand Junction, CO 81506

Re: **Williams TR 31-5 Pad LOE 7/26/11**

Work Order: **1107787**

Dear Mark,

ALS Environmental received 6 samples on 29-Jul-2011 10:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the results received by ALS Environmental and for only the analyses requested. The report from the subcontract laboratory is included in its entirety

QC sample results for this data met 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 47.

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

Sincerely,

A handwritten signature in cursive script that reads "Ann Preston".

Electronically approved by: Joseph Ribar

Ann Preston
Project Manager



Certificate No: IL100452

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Environmental A small icon of the ALS Environmental logo, featuring a stylized flame inside a triangle.

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Sample Receipt Checklist

Client Name: HRL

Date/Time Received: 26-Jul-11 10:00

Work Order: 1107651

Received by: DS

Checklist completed by Diane Shaw 26-Jul-11
eSignature Date

Reviewed by: Ann Preston 28-Jul-11
eSignature Date

Matrices: Water

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 checked="" 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"/>	
Temperature(s)/Thermometer(s):	<u>3.6 c</u>		
Cooler(s)/Kit(s):			
Water - VOA vials have zero headspace?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input 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:			
Login Notes:			

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction: