

State of Colorado
Oil and Gas Conservation Commission



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

FOR OGCC USE ONLY

SITE INVESTIGATION AND REMEDIATION WORKPLAN

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

OGCC Employee:
 Spill Complaint
 Inspection NOAV
 Tracking No:

CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

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

OGCC Operator Number: <u>96850</u>	Contact Name and Telephone: <u>Karolina Blaney</u>
Name of Operator: <u>Williams Production RMT Company</u>	No: <u>970-683-2295</u>
Address: <u>1058 County Road 215</u>	Fax: <u>970-285-9573</u>
City: <u>Parachute</u> State: <u>CO</u> Zip: <u>81635</u>	

API Number: _____	County: <u>Garfield</u>
Facility Name: <u>Chevron TR 11-5-697</u>	Facility Number: <u>422268</u>
Well Name: <u>Chevron TR 11-5-697</u>	Well Number: <u>N/A</u>
Location: (QtrQtr, Sec, Twp, Rng, Meridian): <u>NWNW, Section 5, T6S, R97W, 6th PM</u> Latitude: <u>39.56007</u> Longitude: <u>-108.2493</u>	

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc): Produced Water

Site Conditions: Is location within a sensitive area (according to Rule 901e)? Y N If yes, attach evaluation.

Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): Rangeland, Non Crop Land

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Parachute-Irigul-Rhone 25-50% slope

Potential receptors (water wells within 1/4 mi, surface waters, etc.): Water well approximately 2149 ft to the east. Un-named tributary to Crystal Creek lies approximately 1,529 ft to the south.

Description of Impact (if previously provided, refer to that form or document):

Impacted Media (check):	Extent of Impact:	How Determined:
<input checked="" type="checkbox"/> Soils	<u>See Attached Notice of Completion Report</u>	<u>Visual observations, field screening, and analytical analysis</u>
<input type="checkbox"/> Vegetation	_____	_____
<input type="checkbox"/> Groundwater	_____	_____
<input type="checkbox"/> Surface Water	_____	_____

REMEDATION WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document):
See and refer to attached Notice of Completion Report, Remediation # 5065

Describe how source is to be removed:
See and refer to attached Notice of Completion Report, Remediation # 5065

Describe how remediation of existing impacts is to be accomplished, including removal and disposal at an injection well or licensed facility, land treatment on site, removal of impacted groundwater, insitu bioremediation, burning of oily vegetation, etc.:
See and refer to attached Notice of Completion Report, Remediation # 5065



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

Page 2 REMEDIATION WORKPLAN (Cont.)

OGCC Employee: _____

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.): See and refer to attached Notice of Completion Report, Remediation # 5065

Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeding program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing. Use additional sheet for description if required. See and refer to attached Notice of Completion Report, Remediation # 5065

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

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

See and refer to attached Notice of Completion Report, Remediation # 5065

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

See and refer to attached Notice of Completion Report, Remediation # 5065

IMPLEMENTATION SCHEDULE

Table with 3 columns: Date Site Investigation Began, Date Site Investigation Completed, Date Remediation Plan Submitted, Remediation Start Date, Anticipated Completion Date, Actual Completion Date. Values include May 2011, June 6, 2011, July 5, 2011, May 27, 2011, July 5, 2011.

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

Print Name: Karolina Blaney Signed: Karolina Blaney Title: Environmental Specialist Date: 8/15/2011

OGCC Approved: [Signature] Title: FOR Chris Canfield Date: 09/21/2011

COA: Arsenic concentrations in the pit are slightly above background max + 10%. During backfill, cover w/ 3' of clean material. EPS NW Region

Sensitive Area Determination Checklist

Williams Production RMT Company		
Person(s) Conducting Field Inspection	Ashlee Lane	9/28/10
	<i>Biologist</i>	
Site Information		
Location:	TR 11-5-697	Time: 1100
Type of Facility:	Existing Well Pad	
Environmental Conditions	Clear and calm; no recent precipitation	
Temperature (°F)	85°	

Has the proposed, new or existing location been designated as a sensitive area?

Yes No

SURFACE WATER

1. Are there any surface water features or SWSAs adjacent to or within ¼ mile of the proposed/new or existing facility?

Yes No

If yes, list type of surface water feature(s), i.e. rivers, creeks, streams, seeps, springs, wetlands: A small section of an unnamed intermittent/perennial drainage tributary to Crystal Creek. In addition, two springs were identified outside of the ¼ mile buffer zone and are addressed in the additional comments section of this sensitive area determination checklist.

If yes, describe location relative to facility: The unnamed intermittent/perennial drainage tributary to Crystal Creek is located approximately 1,200 south-southeast of the existing facility.

2. Could a potential release from the facility reach surface water features?

Yes No

If yes, describe the pathway a release from the facility would likely follow to determine if the potential to impact surface water is high or low.

3. Is the potential to impact surface water from a facility release high or low?

High Low

GROUNDWATER

1. Will the proposed/new or existing facility have any pits which will contain hydrocarbons and chlorides or other E&P wastes?
 Yes No
If yes, List the pit type(s): Drilling and production pit.

2. Is the site of the proposed facility underlain by an unconfined aquifer or recharge zone?
 Yes No

3. Is the hydraulic conductivity of the underlying soil or geologic material $\leq 1.0 \times 10^{-7}$ cm/sec?
 Yes No

4. Is the proposed facility located within 1/8 mile of a domestic water well or 1/4 mile of a public water supply well which would use the same aquifer?
 Yes No

5. Is the proposed facility located within a 100 year floodplain?
 Yes (*Sensitive Area*) No (*If no, proceed to question #6.*)

6. Is the depth to groundwater known?
 Yes (*If yes, follow instructions provided in 6(a) of this section.*)
 No (*If no, follow instructions provided in 6(b) of this section.*)
 - (a) If yes, could a potential release from the proposed facility reach groundwater?
 Yes No
If yes, explain:

 - (b) If no:
 - (i) Evaluate surrounding soils, topography, and vegetation which may suggest the presence of shallow groundwater.
 - (ii) Gather information from surrounding well data in order to determine a depth to groundwater, i.e. State Engineers Office.

7. Is the potential to impact ground water from the facility in the event of a release high or low?
 High Low

Additional Comments:

As stated in the surface water section of this sensitive area determination there is a small section of an unnamed intermittent/perennial drainage located approximately 1,200 feet to the south southeast of the facility. The unnamed stream in the immediate vicinity of the facility is identified as intermittent and does not appear to flow a majority of the time. The facility as it is currently constructed would limit flow direction from a potential release to the southern edge where it would run down the hillside towards the unnamed intermittent/perennial drainage. However, the potential for fluids to reach this portion of the unmanned intermittent/perennial drainage would be low due to the thick vegetative cover consisting of service berry, oak brush, and sage brush and the moderate to high infiltration rates of the underlying soils. There are currently Best Management Practices (BMP's) installed in the form of a perimeter berm and diversion ditch on the northern, southern and western edges of the facility. These BMP's should be monitored and maintained to ensure site containment in the event of a release.

The State Engineers Office and USGS records were reviewed and four permitted wells were indentified in Section 5. All of the permitted wells in Section 5 were constructed to monitor water quality and none were intended or used for domestic purposes. However, there are no completion records or water levels noted for any of the wells. The topographic setting and vegetative cover in the vicinity of the facility, service berry, oak brush, and sage brush does not suggest the presence of shallow groundwater. There are two springs indentified on the USGS topographic maps and confirmed during the site investigation. The first spring is located 1,990 feet to the north of the existing facility (SWSW Sec 35 T5S R97W). This spring is located on an unnamed intermittent drainage which is tributary to Crystal Creek. The second spring (Rock Spring) is located 1,480 feet to the south of the existing facility. This spring forms the perennial section of an unnamed drainage which is also tributary to Crystal Creek. The facility resides in the Uintah Formation, which like the Green River Formation, tends to be fractured both vertically and horizontally which allows for fluids to migrate in the subsurface over larger distances. Based on the topographical setting of the existing facility, it is not anticipated that an overland release would impact groundwater and thus potentially the springs due to the duration of time involved and the fact it would spread out over a large area. The greatest potential for impacts to groundwater would be from a release that occurred over a longer period of time such as a leaking pit and fractured bedrock. Based on the topographic setting of the existing facility and the locations of the springs relative to the facility, it is not anticipated that a potential release from the facility would impact Rock Spring to the south. Previous investigations conducted at Rock Spring have determined that the source water for Rock Spring originates from the drainage feature to the south of the spring. The greater potential for impacts from a potential release would be to the spring indentified north of the facility. There is a fairly well defined drainage feature directly north of the existing facility which potentially could provide some source water to the spring located north of the facility. However based on the USGS topographic map source water feeding the spring could also originate from the larger drainage features to the northeast of the facility as well. In order to lessen any potential impacts to the spring located north of the



facility, it would be highly recommended that the pit be lined in accordance to COGCC criteria and tested prior to any placement of materials into it.

Based on the information collected during the site investigation and desktop review, the potential to impact surface water has been deemed low. The greatest potential for impacts from the facility would be to groundwater due to the geologic conditions in the area and the relatively close proximity of the spring to the north of the facility. With this potential to impact groundwater, the facility should be designated as being in a sensitive area.

Inspector Signature(s):  Date: 10/02/2010

Mark E. Mumby, *Project Manager/RPG*
HRL Compliance Solutions, Inc.

 Date: 9/30/2010

Ashlee Lane, *Biologist*
HRL Compliance Solutions, Inc.

**WILLIAMS PRODUCTION RMT COMPANY
TRAIL RIDGE FIELD
CHEVRON TR 11-5-697
NOTICE OF COMPLETION REPORT FOR
REMEDATION # 5065**

August 2011

Prepared For:



1058 County Road 215
P.O. Box 370
Parachute, Colorado 81635

Prepared By:



744 Horizon Court, Suite 140
Grand Junction, CO 81506
Phone: 970-243-3271
Fax: 970-243-3280

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Form 27 Attachment

Introduction

The purpose of this Notice of Completion report – for the closure of the Williams TR 11-5-697 production pit (COGCC API Number 05-045-14093; hereinafter also referred to as TR 11-5-697) – is to provide detailed information and findings analysis for the previously submitted and approved (remediation number 5065) Colorado Oil and Gas Conservation Commission (COGCC) Site Investigation and Remediation Workplan, Form 27. This report will provide the documentation necessary to demonstrate a comprehensive and diligent investigation of the pit and adjacent environment which was obtained as described and in accordance with all appropriate county, state and federal rules and regulations.

The subject Form 27 was delivered via electronic email on May 27, 2011. Preliminary approval to proceed with closure of the subject pit was issued by the COGCC and obtained by Williams Production RMT Company (Williams) on June 17, 2011; at which time the aforementioned remediation number was issued. Closure activities began in June 6, 2011 and were concluded on July 5, 2011. Information in this report includes, but is not limited to: field screening results; laboratory analytical; subliner soil remediation; liner recycling; and bioremediation of the excavated impacted soils.

Evacuation of Pit Contents

Remaining pit contents were removed from the pit using hydro-vac trucks and placed in a lined bermed containment to have free liquids removed via filter press.

The filter press sludge was placed into the aforementioned lined bermed containment cell, profiled for disposal/characterization purposes, and transported to ECDC Environmental for disposal in July, 2011.

Background Sampling

Three samples were collected from the up-gradient undisturbed hillsides surrounding the pad. All background samples were analyzed for arsenic as well as additional analysis at one location which included inorganic parameters of COGCC Table 910-1(i.e. SAR, EC, pH). Refer to **Table 4 and Appendix 3** for background sampling results.

Pit Liner Investigation and Integrity Assessment

The pit liner system – containing two of layers of poly synthetic material/liner and one layer of felt. No rips or holes were present in the primary liner during a liner investigation conducted on June 8, 2011. The presences of water in the bottom of the pit made the liner investigation of the bottom section of the liner inaccessible.

Pit Liner Removal

Removal of the pit liners consisted of a crew cutting the liner 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 liner for extraction and place them in a lined earthen bermed containment cell for subsequent management. Sections of liner that contained residual or trace amounts of sludge were pulled, placed into the containment cell, and allowed to dry. Liners were stored in a lined bermed containment until being banded to pallets to be recycled. During the liner removal, the bottom section of the liner was accessible for inspection and revealed no signs of tears or holes.

Subliner Soil Investigation and Activities

Subliner soils, examined below the pit lining, were inspected visually and through the use of specialized field screening equipment (identified below) to identify areas which may exceed standards set forth in Table 910-1 of the COGCC 900-Series Rule for hydrocarbons within the soil. Soils below the second lining system on the pit floor and walls were stained black and contained a moderate hydrocarbon odor, indicating that there may have been impacts to the subliner soils.

Field screening of the pit footprint and walls was performed along the entire pit in a grid pattern of sections. The pit bottom was separated into two sections and a five point composite sample was collected from each of the half sections, with a depth of 0-6 inches below the surface and analyzed utilizing a PetroFlag hydrocarbon detector. In addition to the bottom, a five point composite sample was collected from each of the pit walls and field screened for hydrocarbons. Grab samples were collected from each section to provide laboratory confirmation of field screen results.

Figure 1 outlines the pit sampling nomenclature and field screening results using a PetroFlag Hydrocarbon Unit (PetroFlag[®]). Figure 2 is a GIS map of the pit outlining sample locations within the pit as well as background sample locations from the nearby uphill undisturbed soil.

Figure 1
PetroFlag Results and Pit Sampling ID Layout

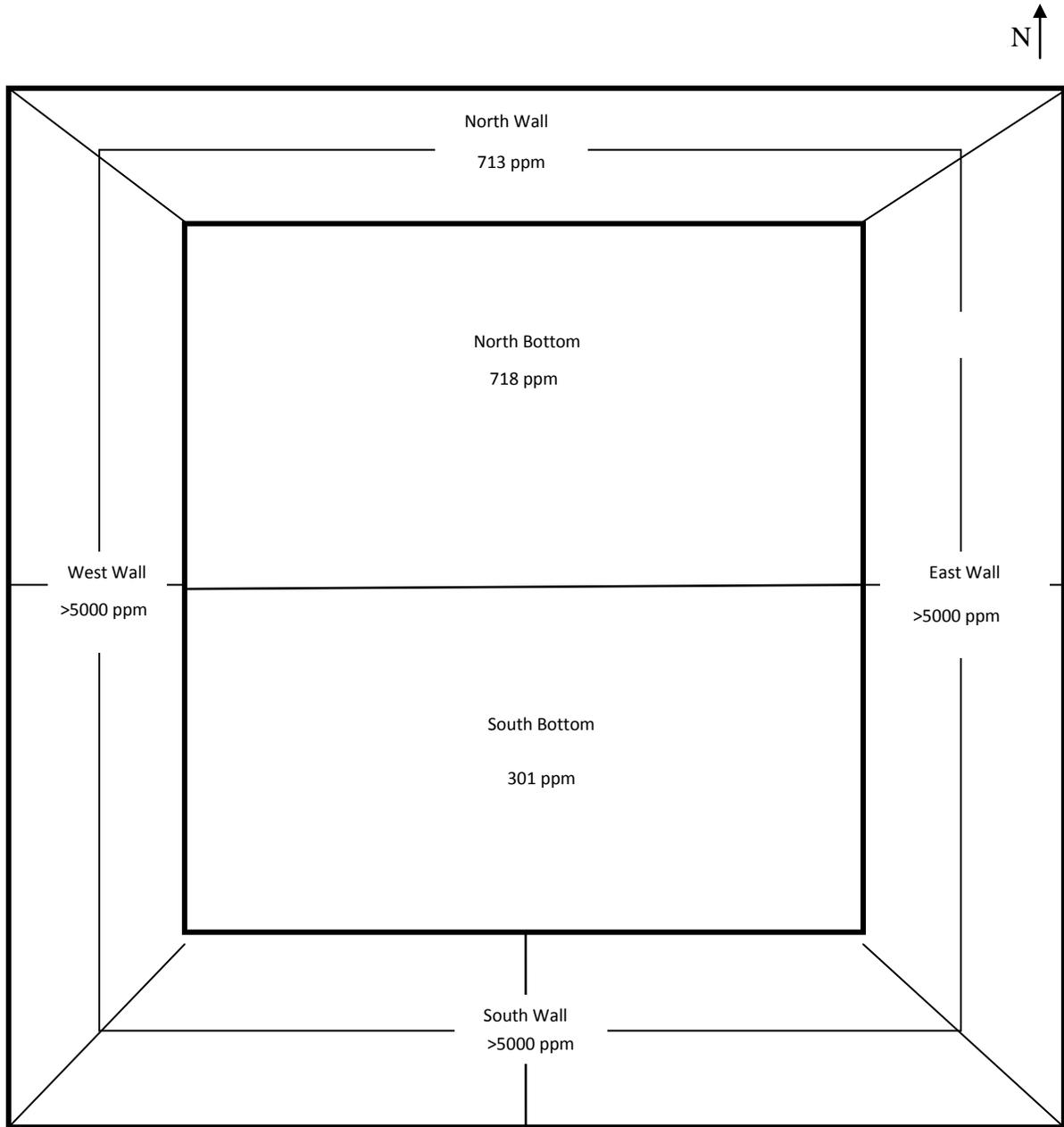


Table 1: PetroFlag Hydrocarbon Initial Field Screening Results

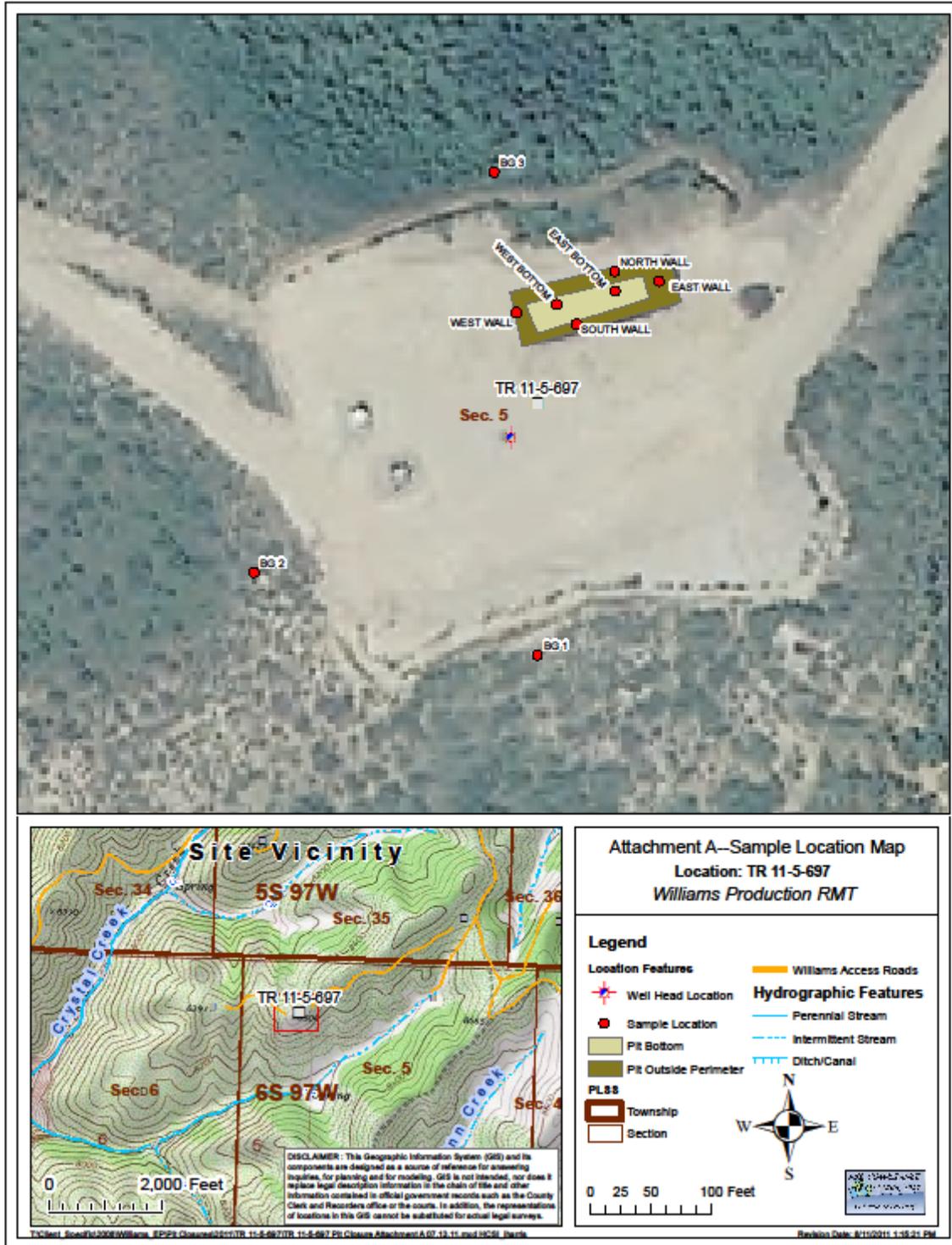
Sample ID	Results mg/kg
North Wall	713
East Wall	>5000
South Wall	>5000
West Wall	>5000
North Bottom	718
South Bottom	301

Note: All results are in mg/kg

Highlighted numbers indicate areas that warranted additional inspection and analysis

Figure 2

GIS Map of Sampling Locations



Field screening results are provided in Table 1 and indicate that remediation is required due to TPH concentrations being above COGCC Table 910-1 standards.

Remediation Activities

Soil exhibiting dark stains and a hydrocarbon odor were located on the pit bottom and adjacent walls indicating the potential presence of hydrocarbon concentrations exceeding 500 ppm and thus required remediation. The pit footprint was excavated to a depth approximately 3 feet in areas containing a potential hydrocarbon concentration above 500 ppm. Discoloration within soil 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.

- Confirmation samples, in accordance with Rule 905.b.(4), were collected from the sides 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 base of the pit, dividing the bottom of the pit into quarters, which included the low point of the base, to demonstrate compliance in accordance with Rule 905.b.(1).
- A Trimble Geo XT 2008 was used to satisfy requirements outlined in COGCC Rule 215 for collecting GPS locations of each confirmation sample location from the pit walls and pit footprint.
- Visual inspection of the pit bottoms, field screening techniques, and sampling procedures were followed in accordance with Williams Highlands Pit Closure Plan (COGCC document #01175818).

Confirmation samples indicated that the north pit bottom exceeded COGCC Table 910-1 for hydrocarbon concentrations exceeding 500 ppm in the DRO range. An additional two feet was excavated from the northern pit bottom and re-sampled for DRO. Confirmation samples collected at 5 feet indicated that the DRO concentrations were well below COGCC Table 910-1, no additional remediation was required.

Analytical data presented in Table 2 provides results for the confirmation sampling performed post excavation of the pit footprint (raw analytical results are available for review in Appendix 1 of this report) and Table 3 provides confirmation sampling analysis of additional excavation performed on the north pit bottom (raw analytical results are available for review in Appendix 2)

Sample Analysis

See attached Table 2 (additional detail provided in Appendix 1) for summary of pit bottom and wall raw analytical results, and Table 3 (additional detail provided in Appendix 2) which

provides raw analytical results for additional excavation on the north pit bottom analytical results, and Table 4 (additional detail provided in Appendix 3) for background analytical results.

Management of Stockpiled Material

The pit liner was segregated according to material and placed in a bermed containment. Plastic lining material was placed in the south end of the containment and felt liners were placed on the north end. High Plains Services compressed and collected the liners and bound them to pallets for transportation to be recycled.

Excavated soils from within the pit was placed in treatment cells, no thicker than 18” and treated on site with bioremediation product.

Backfill Material

The backfill material utilized was from the stockpiled soil present on the east side of the pad from the initial construction of the pit.

- The soil was placed in lifts and was not compacted beyond the point of making an impenetrable layer but sufficient to suppose subsequent operations and prevent subsidence.
- The pit was reclaimed in accordance with the COGCC 1000 Series Rule in addition to all SUA/COA’s per the land owner.

Exceptions to COGCC Table 910-1

The only exceedances with COGCC Table 910-1 are within the confines of constituents listed for inorganics and metals (i.e. arsenic). Refer to Appendix 4 for the Sundry Notice for consideration of background arsenic concentrations in the immediate area of the subject facility.

Analytical Data Management

See Appendix 1 for post excavated pit bottom and wall raw analytical data, Appendix 2 for additional excavation performed on the north pit bottom confirmation analytical data, and Appendix 3 for background analytical data.

Figures

Figure 3



Visual Representation of the Pit Facing East During Excavation

Summary Tables

Table 2: Post Excavation Pit Bottom Analytical Results

	North Bottom	South Bottom	East Wall	South Wall	West Wall	North Wall
Post Excavation of Pit Walls and Bottom						
TEPH (DRO)	550	30	490	7.7	77	430
TVPH (GRO)	15	ND	ND	ND	ND	38
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	ND
ACENAPHTHENE	ND	ND	ND	ND	ND	ND
ACENAPHTHYLENE	ND	ND	ND	ND	ND	ND
ANTHRACENE	.110	ND	ND	ND	ND	.096
BENZO(A)ANTHRACENE	ND	ND	ND	ND	ND	ND
BENZO(A)PYRENE	ND	ND	ND	ND	ND	ND
BENZO(B)FLUORANTHENE	ND	ND	ND	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	.130	ND	ND	ND	ND	.097
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	11	9.4	11	7.1	5.5	9.8
BARIUM	200	120	520	340	490	170
CADMIUM	ND	ND	0.88	ND	0.55	0.37
CHROMIUM	62	95	38	49	37	76
CHROMIUM (III)	62	95	38	49	38	76
CHROMIUM (IV)	ND	ND	ND	ND	ND	ND
COPPER	18	15	21	14	15	14
LEAD	17	13	21	15	14	15
NICKEL	40	40	34	26	24	36
SELENIUM	ND	ND	1.2	0.90	0.96	0.90
SILVER	ND	ND	ND	ND	ND	ND
ZINC	54	62	65	51	55	51
Sodium Absorbntion Ratio (unitless)	63.2	12.7	33.1	152.1	7.1	60.8
Electric Conductivity (mmho/cm)	3.33	0.50	1.64	6.60	0.68	4.36
pH (unitless)	9.13	9.05	8.57	8.49	8.89	9.17

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

Table 3: North Bottom – Additional Excavation

Post Excavation Pit Bottom @ 4 ft	North Bottom
TEPH (DRO)	170

Note: All results are in, mg/L = milligrams per liter, unless noted otherwise

Table 4: Background Analytical Data

	Arsenic	Sodium Absorption Ratio (unitless)	Electro Conductivity (mmhos/cm)	pH (unitless)
BKGD 1	7.5	0.5	0.35	6.93
BKGD 2	7.5			
BKGD 3	5.6			

All results are in, mg/kg = milligram per kilogram, unless noted otherwise

Appendix 1: Pit Bottom and Walls Confirmation Raw Analytical Data



28-Jun-2011

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

Re: **TR 11-5-697 Pad LOE 6/19/11**

Work Order: **1106560**

Dear Mark,

ALS Environmental received 9 samples on 21-Jun-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 46.

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

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

Environmental ALS

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions
Project: TR 11-5-697 Pad LOE 6/19/11
Work Order: 1106560

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>
1106560-01	West Wall	Soil		6/19/2011 12:40	6/21/2011 10:00	<input type="checkbox"/>
1106560-02	South Bottom	Soil		6/19/2011 12:55	6/21/2011 10:00	<input type="checkbox"/>
1106560-03	North Bottom	Soil		6/19/2011 12:45	6/21/2011 10:00	<input type="checkbox"/>
1106560-04	North Wall	Soil		6/19/2011 12:15	6/21/2011 10:00	<input type="checkbox"/>
1106560-05	South Wall	Soil		6/19/2011 12:30	6/21/2011 10:00	<input type="checkbox"/>
1106560-06	East Wall	Soil		6/19/2011 12:20	6/21/2011 10:00	<input type="checkbox"/>
1106560-07	BK 1	Soil		6/19/2011 13:15	6/21/2011 10:00	<input type="checkbox"/>
1106560-08	BK 2	Soil		6/19/2011 13:20	6/21/2011 10:00	<input type="checkbox"/>
1106560-09	BK 3	Soil		6/19/2011 13:25	6/21/2011 10:00	<input type="checkbox"/>

Client: HRL Compliance Solutions
Project: TR 11-5-697 Pad LOE 6/19/11
Work Order: 1106560

Case Narrative

Batch 33973 MS/MSD data for Metals is not related to this project's samples.

Batch 34084 sample West Wall MS/MSD recoveries for Hexavalent Chromium were below control limits due to matrix interference. The reporting limit may be biased low.

Client: HRL Compliance Solutions
Project: TR 11-5-697 Pad LOE 6/19/11
WorkOrder: 1106560

**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	Micrograms per Kilogram Dry Weight
mg/Kg-dry	Milligrams per Kilogram Dry Weight
s.u.	Standard Units

ALS Group USA, Corp

Date: 28-Jun-11

Client: HRL Compliance Solutions
Project: TR 11-5-697 Pad LOE 6/19/11
Sample ID: West Wall
Collection Date: 6/19/2011 12:40 PM

Work Order: 1106560
Lab ID: 1106560-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep Date: 6/22/2011	Analyst: RM
DRO (C10-C28)	77		4.7	mg/Kg-dry	1	6/23/2011 05:18 PM
<i>Surr: 4-Terphenyl-d14</i>	76.5		39-115	%REC	1	6/23/2011 05:18 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RM
GRO (C6-C10)	ND		5.7	mg/Kg-dry	100	6/23/2011 02:42 AM
<i>Surr: Toluene-d8</i>	105		50-150	%REC	100	6/23/2011 02:42 AM
MERCURY BY CVAA			SW7471		Prep Date: 6/22/2011	Analyst: LR
Mercury	0.020		0.019	mg/Kg-dry	1	6/23/2011 03:39 PM
METALS BY ICP-MS			SW6020A		Prep Date: 6/23/2011	Analyst: RH
Arsenic	5.5		0.84	mg/Kg-dry	2	6/24/2011 07:37 AM
Barium	490		8.4	mg/Kg-dry	20	6/24/2011 10:56 PM
Cadmium	0.55		0.33	mg/Kg-dry	2	6/24/2011 07:37 AM
Chromium	37		0.84	mg/Kg-dry	2	6/24/2011 07:37 AM
Copper	15		0.84	mg/Kg-dry	2	6/24/2011 07:37 AM
Lead	14		8.4	mg/Kg-dry	20	6/24/2011 10:56 PM
Nickel	24		0.84	mg/Kg-dry	2	6/24/2011 07:37 AM
Selenium	0.96		0.84	mg/Kg-dry	2	6/24/2011 07:37 AM
Silver	ND		0.84	mg/Kg-dry	2	6/24/2011 07:37 AM
Zinc	55		1.7	mg/Kg-dry	2	6/24/2011 07:37 AM
SUBCONTRACTED ANALYSES			SUBCONTRACT			Analyst: A&LGL
Subcontracted Analyses	Rcvd 6/27/11		attached		1	6/27/2011
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270		Prep Date: 6/22/2011	Analyst: CW
Acenaphthene	ND		34	µg/Kg-dry	1	6/23/2011 07:08 AM
Anthracene	ND		34	µg/Kg-dry	1	6/23/2011 07:08 AM
Benzo(a)anthracene	ND		34	µg/Kg-dry	1	6/23/2011 07:08 AM
Benzo(a)pyrene	ND		34	µg/Kg-dry	1	6/23/2011 07:08 AM
Benzo(b)fluoranthene	ND		34	µg/Kg-dry	1	6/23/2011 07:08 AM
Benzo(g,h,i)perylene	ND		34	µg/Kg-dry	1	6/23/2011 07:08 AM
Benzo(k)fluoranthene	ND		34	µg/Kg-dry	1	6/23/2011 07:08 AM
Chrysene	ND		34	µg/Kg-dry	1	6/23/2011 07:08 AM
Dibenzo(a,h)anthracene	ND		34	µg/Kg-dry	1	6/23/2011 07:08 AM
Fluoranthene	ND		34	µg/Kg-dry	1	6/23/2011 07:08 AM
Fluorene	ND		34	µg/Kg-dry	1	6/23/2011 07:08 AM
Indeno(1,2,3-cd)pyrene	ND		34	µg/Kg-dry	1	6/23/2011 07:08 AM
Naphthalene	ND		34	µg/Kg-dry	1	6/23/2011 07:08 AM
Pyrene	ND		34	µg/Kg-dry	1	6/23/2011 07:08 AM
<i>Surr: 2,4,6-Tribromophenol</i>	76.2		34-140	%REC	1	6/23/2011 07:08 AM

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

ALS Group USA, Corp

Date: 28-Jun-11

Client: HRL Compliance Solutions
Project: TR 11-5-697 Pad LOE 6/19/11
Sample ID: West Wall
Collection Date: 6/19/2011 12:40 PM

Work Order: 1106560
Lab ID: 1106560-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: 2-Fluorobiphenyl</i>	66.9		12-100	%REC	1	6/23/2011 07:08 AM
<i>Surr: 2-Fluorophenol</i>	80.1		33-117	%REC	1	6/23/2011 07:08 AM
<i>Surr: 4-Terphenyl-d14</i>	88.6		25-137	%REC	1	6/23/2011 07:08 AM
<i>Surr: Nitrobenzene-d5</i>	75.2		37-107	%REC	1	6/23/2011 07:08 AM
<i>Surr: Phenol-d6</i>	73.5		40-106	%REC	1	6/23/2011 07:08 AM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: BG
Benzene	ND		110	µg/Kg-dry	100	6/23/2011 05:52 AM
Ethylbenzene	ND		110	µg/Kg-dry	100	6/23/2011 05:52 AM
m,p-Xylene	ND		110	µg/Kg-dry	100	6/23/2011 05:52 AM
o-Xylene	ND		110	µg/Kg-dry	100	6/23/2011 05:52 AM
Toluene	ND		110	µg/Kg-dry	100	6/23/2011 05:52 AM
Xylenes, Total	ND		340	µg/Kg-dry	100	6/23/2011 05:52 AM
<i>Surr: 1,2-Dichloroethane-d4</i>	113		70-120	%REC	100	6/23/2011 05:52 AM
<i>Surr: 4-Bromofluorobenzene</i>	102		75-120	%REC	100	6/23/2011 05:52 AM
<i>Surr: Dibromofluoromethane</i>	97.2		85-115	%REC	100	6/23/2011 05:52 AM
<i>Surr: Toluene-d8</i>	104		85-115	%REC	100	6/23/2011 05:52 AM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: EE
Chromium, Trivalent	38			mg/L-dry	1	6/28/2011 04:45 PM
CHROMIUM, HEXAVALENT			SW7196A		Prep Date: 6/24/2011	Analyst: MB
Chromium, Hexavalent	ND		0.57	mg/Kg-dry	1	6/28/2011 02:00 PM
MOISTURE			A2540 G			Analyst: JS
Moisture	12		0.050	% of sample	1	6/22/2011 09:34 AM
PH			SW9045D			Analyst: JS
pH	8.89			s.u.	1	6/22/2011 08:30 AM

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

ALS Group USA, Corp

Date: 28-Jun-11

Client: HRL Compliance Solutions
Project: TR 11-5-697 Pad LOE 6/19/11
Sample ID: South Bottom
Collection Date: 6/19/2011 12:55 PM

Work Order: 1106560
Lab ID: 1106560-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep Date: 6/22/2011	Analyst: RM
DRO (C10-C28)	30		4.7	mg/Kg-dry	1	6/23/2011 05:43 PM
<i>Surr: 4-Terphenyl-d14</i>	<i>84.0</i>		<i>39-115</i>	<i>%REC</i>	1	6/23/2011 05:43 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RM
GRO (C6-C10)	ND		5.8	mg/Kg-dry	100	6/23/2011 03:08 AM
<i>Surr: Toluene-d8</i>	<i>104</i>		<i>50-150</i>	<i>%REC</i>	100	6/23/2011 03:08 AM
MERCURY BY CVAA			SW7471		Prep Date: 6/22/2011	Analyst: LR
Mercury	0.024		0.019	mg/Kg-dry	1	6/23/2011 03:45 PM
METALS BY ICP-MS			SW6020A		Prep Date: 6/23/2011	Analyst: RH
Arsenic	9.4		0.89	mg/Kg-dry	2	6/24/2011 07:43 AM
Barium	120		0.89	mg/Kg-dry	2	6/24/2011 07:43 AM
Cadmium	ND		0.35	mg/Kg-dry	2	6/24/2011 07:43 AM
Chromium	95		0.89	mg/Kg-dry	2	6/24/2011 07:43 AM
Copper	15		0.89	mg/Kg-dry	2	6/24/2011 07:43 AM
Lead	13		0.89	mg/Kg-dry	2	6/24/2011 11:02 PM
Nickel	40		0.89	mg/Kg-dry	2	6/24/2011 07:43 AM
Selenium	ND		0.89	mg/Kg-dry	2	6/24/2011 07:43 AM
Silver	ND		0.89	mg/Kg-dry	2	6/24/2011 07:43 AM
Zinc	62		1.8	mg/Kg-dry	2	6/24/2011 07:43 AM
SUBCONTRACTED ANALYSES			SUBCONTRACT			Analyst: A&LGL
Subcontracted Analyses	Rcvd 6/27/11		attached		1	6/27/2011
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270		Prep Date: 6/22/2011	Analyst: CW
Acenaphthene	ND		34	µg/Kg-dry	1	6/23/2011 07:44 AM
Anthracene	ND		34	µg/Kg-dry	1	6/23/2011 07:44 AM
Benzo(a)anthracene	ND		34	µg/Kg-dry	1	6/23/2011 07:44 AM
Benzo(a)pyrene	ND		34	µg/Kg-dry	1	6/23/2011 07:44 AM
Benzo(b)fluoranthene	ND		34	µg/Kg-dry	1	6/23/2011 07:44 AM
Benzo(g,h,i)perylene	ND		34	µg/Kg-dry	1	6/23/2011 07:44 AM
Benzo(k)fluoranthene	ND		34	µg/Kg-dry	1	6/23/2011 07:44 AM
Chrysene	ND		34	µg/Kg-dry	1	6/23/2011 07:44 AM
Dibenzo(a,h)anthracene	ND		34	µg/Kg-dry	1	6/23/2011 07:44 AM
Fluoranthene	ND		34	µg/Kg-dry	1	6/23/2011 07:44 AM
Fluorene	ND		34	µg/Kg-dry	1	6/23/2011 07:44 AM
Indeno(1,2,3-cd)pyrene	ND		34	µg/Kg-dry	1	6/23/2011 07:44 AM
Naphthalene	ND		34	µg/Kg-dry	1	6/23/2011 07:44 AM
Pyrene	ND		34	µg/Kg-dry	1	6/23/2011 07:44 AM
<i>Surr: 2,4,6-Tribromophenol</i>	<i>74.3</i>		<i>34-140</i>	<i>%REC</i>	1	6/23/2011 07:44 AM

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

ALS Group USA, Corp

Date: 28-Jun-11

Client: HRL Compliance Solutions
Project: TR 11-5-697 Pad LOE 6/19/11
Sample ID: South Bottom
Collection Date: 6/19/2011 12:55 PM

Work Order: 1106560
Lab ID: 1106560-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: 2-Fluorobiphenyl</i>	64.7		12-100	%REC	1	6/23/2011 07:44 AM
<i>Surr: 2-Fluorophenol</i>	77.5		33-117	%REC	1	6/23/2011 07:44 AM
<i>Surr: 4-Terphenyl-d14</i>	83.1		25-137	%REC	1	6/23/2011 07:44 AM
<i>Surr: Nitrobenzene-d5</i>	69.3		37-107	%REC	1	6/23/2011 07:44 AM
<i>Surr: Phenol-d6</i>	70.8		40-106	%REC	1	6/23/2011 07:44 AM
VOLATILE ORGANIC COMPOUNDS			SW8260		Analyst: BG	
Benzene	ND		120	µg/Kg-dry	100	6/23/2011 10:53 AM
Ethylbenzene	ND		120	µg/Kg-dry	100	6/23/2011 10:53 AM
m,p-Xylene	ND		120	µg/Kg-dry	100	6/23/2011 10:53 AM
o-Xylene	ND		120	µg/Kg-dry	100	6/23/2011 10:53 AM
Toluene	ND		120	µg/Kg-dry	100	6/23/2011 10:53 AM
Xylenes, Total	ND		350	µg/Kg-dry	100	6/23/2011 10:53 AM
<i>Surr: 1,2-Dichloroethane-d4</i>	105		70-120	%REC	100	6/23/2011 10:53 AM
<i>Surr: 4-Bromofluorobenzene</i>	97.3		75-120	%REC	100	6/23/2011 10:53 AM
<i>Surr: Dibromofluoromethane</i>	96.0		85-115	%REC	100	6/23/2011 10:53 AM
<i>Surr: Toluene-d8</i>	101		85-115	%REC	100	6/23/2011 10:53 AM
CHROMIUM, TRIVALENT			CALCULATION		Analyst: EE	
Chromium, Trivalent	95			mg/L-dry	1	6/28/2011 04:45 PM
CHROMIUM, HEXAVALENT			SW7196A		Prep Date: 6/24/2011 Analyst: MB	
Chromium, Hexavalent	ND		0.58	mg/Kg-dry	1	6/28/2011 02:00 PM
MOISTURE			A2540 G		Analyst: JS	
Moisture	14		0.050	% of sample	1	6/22/2011 09:34 AM
PH			SW9045D		Analyst: JS	
pH	9.05			s.u.	1	6/22/2011 08:30 AM

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

ALS Group USA, Corp

Date: 28-Jun-11

Client: HRL Compliance Solutions
Project: TR 11-5-697 Pad LOE 6/19/11
Sample ID: North Bottom
Collection Date: 6/19/2011 12:45 PM

Work Order: 1106560
Lab ID: 1106560-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep Date: 6/22/2011	Analyst: RM
DRO (C10-C28)	550		4.7	mg/Kg-dry	1	6/23/2011 05:43 PM
<i>Surr: 4-Terphenyl-d14</i>	92.4		39-115	%REC	1	6/23/2011 05:43 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RM
GRO (C6-C10)	15		5.7	mg/Kg-dry	100	6/23/2011 03:34 AM
<i>Surr: Toluene-d8</i>	105		50-150	%REC	100	6/23/2011 03:34 AM
MERCURY BY CVAA			SW7471		Prep Date: 6/23/2011	Analyst: LR
Mercury	0.023		0.018	mg/Kg-dry	1	6/24/2011 03:27 PM
METALS BY ICP-MS			SW6020A		Prep Date: 6/23/2011	Analyst: RH
Arsenic	11		0.87	mg/Kg-dry	2	6/24/2011 07:49 AM
Barium	200		0.87	mg/Kg-dry	2	6/24/2011 07:49 AM
Cadmium	ND		0.35	mg/Kg-dry	2	6/24/2011 07:49 AM
Chromium	62		0.87	mg/Kg-dry	2	6/24/2011 07:49 AM
Copper	18		0.87	mg/Kg-dry	2	6/24/2011 07:49 AM
Lead	17		0.87	mg/Kg-dry	2	6/24/2011 11:08 PM
Nickel	40		0.87	mg/Kg-dry	2	6/24/2011 07:49 AM
Selenium	ND		0.87	mg/Kg-dry	2	6/24/2011 07:49 AM
Silver	ND		0.87	mg/Kg-dry	2	6/24/2011 07:49 AM
Zinc	54		1.7	mg/Kg-dry	2	6/24/2011 07:49 AM
SUBCONTRACTED ANALYSES			SUBCONTRACT			Analyst: A&LGL
Subcontracted Analyses		Rcvd 6/27/11	attached		1	6/27/2011
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270		Prep Date: 6/22/2011	Analyst: CW
Acenaphthene	ND		34	µg/Kg-dry	1	6/23/2011 08:19 AM
Anthracene	110		34	µg/Kg-dry	1	6/23/2011 08:19 AM
Benzo(a)anthracene	ND		34	µg/Kg-dry	1	6/23/2011 08:19 AM
Benzo(a)pyrene	ND		34	µg/Kg-dry	1	6/23/2011 08:19 AM
Benzo(b)fluoranthene	ND		34	µg/Kg-dry	1	6/23/2011 08:19 AM
Benzo(g,h,i)perylene	ND		34	µg/Kg-dry	1	6/23/2011 08:19 AM
Benzo(k)fluoranthene	ND		34	µg/Kg-dry	1	6/23/2011 08:19 AM
Chrysene	ND		34	µg/Kg-dry	1	6/23/2011 08:19 AM
Dibenzo(a,h)anthracene	ND		34	µg/Kg-dry	1	6/23/2011 08:19 AM
Fluoranthene	ND		34	µg/Kg-dry	1	6/23/2011 08:19 AM
Fluorene	130		34	µg/Kg-dry	1	6/23/2011 08:19 AM
Indeno(1,2,3-cd)pyrene	ND		34	µg/Kg-dry	1	6/23/2011 08:19 AM
Naphthalene	ND		34	µg/Kg-dry	1	6/23/2011 08:19 AM
Pyrene	ND		34	µg/Kg-dry	1	6/23/2011 08:19 AM
<i>Surr: 2,4,6-Tribromophenol</i>	71.7		34-140	%REC	1	6/23/2011 08:19 AM

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

ALS Group USA, Corp

Date: 28-Jun-11

Client: HRL Compliance Solutions
Project: TR 11-5-697 Pad LOE 6/19/11
Sample ID: North Bottom
Collection Date: 6/19/2011 12:45 PM

Work Order: 1106560
Lab ID: 1106560-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: 2-Fluorobiphenyl</i>	77.9		12-100	%REC	1	6/23/2011 08:19 AM
<i>Surr: 2-Fluorophenol</i>	82.3		33-117	%REC	1	6/23/2011 08:19 AM
<i>Surr: 4-Terphenyl-d14</i>	96.9		25-137	%REC	1	6/23/2011 08:19 AM
<i>Surr: Nitrobenzene-d5</i>	56.2		37-107	%REC	1	6/23/2011 08:19 AM
<i>Surr: Phenol-d6</i>	75.6		40-106	%REC	1	6/23/2011 08:19 AM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: BG
Benzene	ND		110	µg/Kg-dry	100	6/23/2011 11:17 AM
Ethylbenzene	ND		110	µg/Kg-dry	100	6/23/2011 11:17 AM
m,p-Xylene	ND		110	µg/Kg-dry	100	6/23/2011 11:17 AM
o-Xylene	ND		110	µg/Kg-dry	100	6/23/2011 11:17 AM
Toluene	ND		110	µg/Kg-dry	100	6/23/2011 11:17 AM
Xylenes, Total	ND		340	µg/Kg-dry	100	6/23/2011 11:17 AM
<i>Surr: 1,2-Dichloroethane-d4</i>	106		70-120	%REC	100	6/23/2011 11:17 AM
<i>Surr: 4-Bromofluorobenzene</i>	99.4		75-120	%REC	100	6/23/2011 11:17 AM
<i>Surr: Dibromofluoromethane</i>	96.3		85-115	%REC	100	6/23/2011 11:17 AM
<i>Surr: Toluene-d8</i>	101		85-115	%REC	100	6/23/2011 11:17 AM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: EE
Chromium, Trivalent	62			mg/L-dry	1	6/28/2011 04:45 PM
CHROMIUM, HEXAVALENT			SW7196A		Prep Date: 6/24/2011	Analyst: MB
Chromium, Hexavalent	ND		0.57	mg/Kg-dry	1	6/28/2011 02:00 PM
MOISTURE			A2540 G			Analyst: JS
Moisture	13		0.050	% of sample	1	6/22/2011 09:34 AM
PH			SW9045D			Analyst: JS
pH	9.13			s.u.	1	6/22/2011 08:30 AM

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

ALS Group USA, Corp

Date: 28-Jun-11

Client: HRL Compliance Solutions
Project: TR 11-5-697 Pad LOE 6/19/11
Sample ID: North Wall
Collection Date: 6/19/2011 12:15 PM

Work Order: 1106560
Lab ID: 1106560-04
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep Date: 6/22/2011	Analyst: RM
DRO (C10-C28)	430		4.7	mg/Kg-dry	1	6/23/2011 06:08 PM
<i>Surr: 4-Terphenyl-d14</i>	110		39-115	%REC	1	6/23/2011 06:08 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RM
GRO (C6-C10)	38		5.7	mg/Kg-dry	100	6/23/2011 04:00 AM
<i>Surr: Toluene-d8</i>	106		50-150	%REC	100	6/23/2011 04:00 AM
MERCURY BY CVAA			SW7471		Prep Date: 6/23/2011	Analyst: LR
Mercury	0.022		0.021	mg/Kg-dry	1	6/24/2011 03:38 PM
METALS BY ICP-MS			SW6020A		Prep Date: 6/23/2011	Analyst: RH
Arsenic	9.8		0.82	mg/Kg-dry	2	6/24/2011 07:55 AM
Barium	170		0.82	mg/Kg-dry	2	6/24/2011 07:55 AM
Cadmium	0.37		0.33	mg/Kg-dry	2	6/24/2011 07:55 AM
Chromium	76		0.82	mg/Kg-dry	2	6/24/2011 07:55 AM
Copper	14		0.82	mg/Kg-dry	2	6/24/2011 07:55 AM
Lead	15		0.82	mg/Kg-dry	2	6/24/2011 11:14 PM
Nickel	36		0.82	mg/Kg-dry	2	6/24/2011 07:55 AM
Selenium	0.90		0.82	mg/Kg-dry	2	6/24/2011 07:55 AM
Silver	ND		0.82	mg/Kg-dry	2	6/24/2011 07:55 AM
Zinc	51		1.6	mg/Kg-dry	2	6/24/2011 07:55 AM
SUBCONTRACTED ANALYSES			SUBCONTRACT			Analyst: A&LGL
Subcontracted Analyses		Rcvd 6/27/11		attached	1	6/27/2011
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270		Prep Date: 6/22/2011	Analyst: CW
Acenaphthene	ND		34	µg/Kg-dry	1	6/23/2011 08:55 AM
Anthracene	96		34	µg/Kg-dry	1	6/23/2011 08:55 AM
Benzo(a)anthracene	ND		34	µg/Kg-dry	1	6/23/2011 08:55 AM
Benzo(a)pyrene	ND		34	µg/Kg-dry	1	6/23/2011 08:55 AM
Benzo(b)fluoranthene	ND		34	µg/Kg-dry	1	6/23/2011 08:55 AM
Benzo(g,h,i)perylene	ND		34	µg/Kg-dry	1	6/23/2011 08:55 AM
Benzo(k)fluoranthene	ND		34	µg/Kg-dry	1	6/23/2011 08:55 AM
Chrysene	ND		34	µg/Kg-dry	1	6/23/2011 08:55 AM
Dibenzo(a,h)anthracene	ND		34	µg/Kg-dry	1	6/23/2011 08:55 AM
Fluoranthene	ND		34	µg/Kg-dry	1	6/23/2011 08:55 AM
Fluorene	97		34	µg/Kg-dry	1	6/23/2011 08:55 AM
Indeno(1,2,3-cd)pyrene	ND		34	µg/Kg-dry	1	6/23/2011 08:55 AM
Naphthalene	ND		34	µg/Kg-dry	1	6/23/2011 08:55 AM
Pyrene	ND		34	µg/Kg-dry	1	6/23/2011 08:55 AM
<i>Surr: 2,4,6-Tribromophenol</i>	70.8		34-140	%REC	1	6/23/2011 08:55 AM

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

ALS Group USA, Corp

Date: 28-Jun-11

Client: HRL Compliance Solutions
Project: TR 11-5-697 Pad LOE 6/19/11
Sample ID: North Wall
Collection Date: 6/19/2011 12:15 PM

Work Order: 1106560
Lab ID: 1106560-04
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: 2-Fluorobiphenyl</i>	67.0		12-100	%REC	1	6/23/2011 08:55 AM
<i>Surr: 2-Fluorophenol</i>	72.2		33-117	%REC	1	6/23/2011 08:55 AM
<i>Surr: 4-Terphenyl-d14</i>	94.4		25-137	%REC	1	6/23/2011 08:55 AM
<i>Surr: Nitrobenzene-d5</i>	52.2		37-107	%REC	1	6/23/2011 08:55 AM
<i>Surr: Phenol-d6</i>	67.4		40-106	%REC	1	6/23/2011 08:55 AM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: BG
Benzene	ND		110	µg/Kg-dry	100	6/23/2011 11:43 AM
Ethylbenzene	ND		110	µg/Kg-dry	100	6/23/2011 11:43 AM
m,p-Xylene	ND		110	µg/Kg-dry	100	6/23/2011 11:43 AM
o-Xylene	ND		110	µg/Kg-dry	100	6/23/2011 11:43 AM
Toluene	ND		110	µg/Kg-dry	100	6/23/2011 11:43 AM
Xylenes, Total	ND		340	µg/Kg-dry	100	6/23/2011 11:43 AM
<i>Surr: 1,2-Dichloroethane-d4</i>	105		70-120	%REC	100	6/23/2011 11:43 AM
<i>Surr: 4-Bromofluorobenzene</i>	99.3		75-120	%REC	100	6/23/2011 11:43 AM
<i>Surr: Dibromofluoromethane</i>	95.8		85-115	%REC	100	6/23/2011 11:43 AM
<i>Surr: Toluene-d8</i>	99.9		85-115	%REC	100	6/23/2011 11:43 AM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: EE
Chromium, Trivalent	76			mg/L-dry	1	6/28/2011 04:45 PM
CHROMIUM, HEXAVALENT			SW7196A		Prep Date: 6/24/2011	Analyst: MB
Chromium, Hexavalent	ND		0.56	mg/Kg-dry	1	6/28/2011 02:00 PM
MOISTURE			A2540 G			Analyst: JS
Moisture	12		0.050	% of sample	1	6/22/2011 09:34 AM
PH			SW9045D			Analyst: JS
pH	9.17			s.u.	1	6/22/2011 08:30 AM

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

ALS Group USA, Corp

Date: 28-Jun-11

Client: HRL Compliance Solutions
Project: TR 11-5-697 Pad LOE 6/19/11
Sample ID: South Wall
Collection Date: 6/19/2011 12:30 PM

Work Order: 1106560
Lab ID: 1106560-05
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep Date: 6/22/2011	Analyst: RM
DRO (C10-C28)	7.7		5.1	mg/Kg-dry	1	6/23/2011 06:08 PM
<i>Surr: 4-Terphenyl-d14</i>	<i>82.3</i>		<i>39-115</i>	<i>%REC</i>	1	6/23/2011 06:08 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RM
GRO (C6-C10)	ND		6.2	mg/Kg-dry	100	6/23/2011 04:26 AM
<i>Surr: Toluene-d8</i>	<i>104</i>		<i>50-150</i>	<i>%REC</i>	100	6/23/2011 04:26 AM
MERCURY BY CVAA			SW7471		Prep Date: 6/23/2011	Analyst: LR
Mercury	ND		0.021	mg/Kg-dry	1	6/24/2011 03:40 PM
METALS BY ICP-MS			SW6020A		Prep Date: 6/23/2011	Analyst: RH
Arsenic	7.1		0.89	mg/Kg-dry	2	6/24/2011 08:00 AM
Barium	340		8.9	mg/Kg-dry	20	6/24/2011 11:20 PM
Cadmium	ND		0.35	mg/Kg-dry	2	6/24/2011 08:00 AM
Chromium	49		0.89	mg/Kg-dry	2	6/24/2011 08:00 AM
Copper	14		0.89	mg/Kg-dry	2	6/24/2011 08:00 AM
Lead	15		8.9	mg/Kg-dry	20	6/24/2011 11:20 PM
Nickel	26		0.89	mg/Kg-dry	2	6/24/2011 08:00 AM
Selenium	0.90		0.89	mg/Kg-dry	2	6/24/2011 08:00 AM
Silver	ND		0.89	mg/Kg-dry	2	6/24/2011 08:00 AM
Zinc	51		1.8	mg/Kg-dry	2	6/24/2011 08:00 AM
SUBCONTRACTED ANALYSES			SUBCONTRACT			Analyst: A&LGL
Subcontracted Analyses	Rcvd 6/27/11		attached		1	6/27/2011
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270		Prep Date: 6/22/2011	Analyst: CW
Acenaphthene	ND		36	µg/Kg-dry	1	6/23/2011 05:29 PM
Anthracene	ND		36	µg/Kg-dry	1	6/23/2011 05:29 PM
Benzo(a)anthracene	ND		36	µg/Kg-dry	1	6/23/2011 05:29 PM
Benzo(a)pyrene	ND		36	µg/Kg-dry	1	6/23/2011 05:29 PM
Benzo(b)fluoranthene	ND		36	µg/Kg-dry	1	6/23/2011 05:29 PM
Benzo(g,h,i)perylene	ND		36	µg/Kg-dry	1	6/23/2011 05:29 PM
Benzo(k)fluoranthene	ND		36	µg/Kg-dry	1	6/23/2011 05:29 PM
Chrysene	ND		36	µg/Kg-dry	1	6/23/2011 05:29 PM
Dibenzo(a,h)anthracene	ND		36	µg/Kg-dry	1	6/23/2011 05:29 PM
Fluoranthene	ND		36	µg/Kg-dry	1	6/23/2011 05:29 PM
Fluorene	ND		36	µg/Kg-dry	1	6/23/2011 05:29 PM
Indeno(1,2,3-cd)pyrene	ND		36	µg/Kg-dry	1	6/23/2011 05:29 PM
Naphthalene	ND		36	µg/Kg-dry	1	6/23/2011 05:29 PM
Pyrene	ND		36	µg/Kg-dry	1	6/23/2011 05:29 PM
<i>Surr: 2,4,6-Tribromophenol</i>	<i>64.1</i>		<i>34-140</i>	<i>%REC</i>	1	6/23/2011 05:29 PM

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

ALS Group USA, Corp

Date: 28-Jun-11

Client: HRL Compliance Solutions
Project: TR 11-5-697 Pad LOE 6/19/11
Sample ID: South Wall
Collection Date: 6/19/2011 12:30 PM

Work Order: 1106560
Lab ID: 1106560-05
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: 2-Fluorobiphenyl</i>	48.5		12-100	%REC	1	6/23/2011 05:29 PM
<i>Surr: 2-Fluorophenol</i>	69.1		33-117	%REC	1	6/23/2011 05:29 PM
<i>Surr: 4-Terphenyl-d14</i>	80.6		25-137	%REC	1	6/23/2011 05:29 PM
<i>Surr: Nitrobenzene-d5</i>	65.9		37-107	%REC	1	6/23/2011 05:29 PM
<i>Surr: Phenol-d6</i>	64.7		40-106	%REC	1	6/23/2011 05:29 PM
VOLATILE ORGANIC COMPOUNDS			SW8260		Analyst: BG	
Benzene	ND		120	µg/Kg-dry	100	6/23/2011 03:47 AM
Ethylbenzene	ND		120	µg/Kg-dry	100	6/23/2011 03:47 AM
m,p-Xylene	ND		120	µg/Kg-dry	100	6/23/2011 03:47 AM
o-Xylene	ND		120	µg/Kg-dry	100	6/23/2011 03:47 AM
Toluene	ND		120	µg/Kg-dry	100	6/23/2011 03:47 AM
Xylenes, Total	ND		370	µg/Kg-dry	100	6/23/2011 03:47 AM
<i>Surr: 1,2-Dichloroethane-d4</i>	113		70-120	%REC	100	6/23/2011 03:47 AM
<i>Surr: 4-Bromofluorobenzene</i>	101		75-120	%REC	100	6/23/2011 03:47 AM
<i>Surr: Dibromofluoromethane</i>	97.2		85-115	%REC	100	6/23/2011 03:47 AM
<i>Surr: Toluene-d8</i>	104		85-115	%REC	100	6/23/2011 03:47 AM
CHROMIUM, TRIVALENT			CALCULATION		Analyst: EE	
Chromium, Trivalent	49			mg/L-dry	1	6/28/2011 04:45 PM
CHROMIUM, HEXAVALENT			SW7196A		Prep Date: 6/24/2011 Analyst: MB	
Chromium, Hexavalent	ND		0.62	mg/Kg-dry	1	6/28/2011 02:00 PM
MOISTURE			A2540 G		Analyst: JS	
Moisture	19		0.050	% of sample	1	6/22/2011 09:34 AM
PH			SW9045D		Analyst: JS	
pH	8.49			s.u.	1	6/22/2011 08:30 AM

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

ALS Group USA, Corp

Date: 28-Jun-11

Client: HRL Compliance Solutions
Project: TR 11-5-697 Pad LOE 6/19/11
Sample ID: East Wall
Collection Date: 6/19/2011 12:20 PM

Work Order: 1106560
Lab ID: 1106560-06
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep Date: 6/22/2011	Analyst: RM
DRO (C10-C28)	490		5.0	mg/Kg-dry	1	6/23/2011 06:33 PM
<i>Surr: 4-Terphenyl-d14</i>	<i>106</i>		<i>39-115</i>	<i>%REC</i>	1	6/23/2011 06:33 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RM
GRO (C6-C10)	ND		6.1	mg/Kg-dry	100	6/23/2011 04:52 AM
<i>Surr: Toluene-d8</i>	<i>105</i>		<i>50-150</i>	<i>%REC</i>	100	6/23/2011 04:52 AM
MERCURY BY CVAA			SW7471		Prep Date: 6/23/2011	Analyst: LR
Mercury	0.036		0.020	mg/Kg-dry	1	6/24/2011 03:42 PM
METALS BY ICP-MS			SW6020A		Prep Date: 6/23/2011	Analyst: RH
Arsenic	11		0.79	mg/Kg-dry	2	6/24/2011 11:25 PM
Barium	520		7.9	mg/Kg-dry	20	6/25/2011 10:08 AM
Cadmium	0.88		0.32	mg/Kg-dry	2	6/24/2011 11:25 PM
Chromium	38		0.79	mg/Kg-dry	2	6/24/2011 11:25 PM
Copper	21		0.79	mg/Kg-dry	2	6/24/2011 11:25 PM
Lead	21		0.79	mg/Kg-dry	2	6/24/2011 11:25 PM
Nickel	34		0.79	mg/Kg-dry	2	6/24/2011 11:25 PM
Selenium	1.2		0.79	mg/Kg-dry	2	6/24/2011 11:25 PM
Silver	ND		0.79	mg/Kg-dry	2	6/24/2011 11:25 PM
Zinc	65		1.6	mg/Kg-dry	2	6/24/2011 11:25 PM
SUBCONTRACTED ANALYSES			SUBCONTRACT			Analyst: A&LGL
Subcontracted Analyses	Rcvd 6/27/11		attached		1	6/27/2011
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270		Prep Date: 6/22/2011	Analyst: CW
Acenaphthene	ND		36	µg/Kg-dry	1	6/23/2011 06:06 PM
Anthracene	ND		36	µg/Kg-dry	1	6/23/2011 06:06 PM
Benzo(a)anthracene	ND		36	µg/Kg-dry	1	6/23/2011 06:06 PM
Benzo(a)pyrene	ND		36	µg/Kg-dry	1	6/23/2011 06:06 PM
Benzo(b)fluoranthene	ND		36	µg/Kg-dry	1	6/23/2011 06:06 PM
Benzo(g,h,i)perylene	ND		36	µg/Kg-dry	1	6/23/2011 06:06 PM
Benzo(k)fluoranthene	ND		36	µg/Kg-dry	1	6/23/2011 06:06 PM
Chrysene	ND		36	µg/Kg-dry	1	6/23/2011 06:06 PM
Dibenzo(a,h)anthracene	ND		36	µg/Kg-dry	1	6/23/2011 06:06 PM
Fluoranthene	ND		36	µg/Kg-dry	1	6/23/2011 06:06 PM
Fluorene	ND		36	µg/Kg-dry	1	6/23/2011 06:06 PM
Indeno(1,2,3-cd)pyrene	ND		36	µg/Kg-dry	1	6/23/2011 06:06 PM
Naphthalene	ND		36	µg/Kg-dry	1	6/23/2011 06:06 PM
Pyrene	ND		36	µg/Kg-dry	1	6/23/2011 06:06 PM
<i>Surr: 2,4,6-Tribromophenol</i>	<i>77.3</i>		<i>34-140</i>	<i>%REC</i>	1	6/23/2011 06:06 PM

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

ALS Group USA, Corp

Date: 28-Jun-11

Client: HRL Compliance Solutions
Project: TR 11-5-697 Pad LOE 6/19/11
Sample ID: East Wall
Collection Date: 6/19/2011 12:20 PM

Work Order: 1106560
Lab ID: 1106560-06
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: 2-Fluorobiphenyl</i>	66.5		12-100	%REC	1	6/23/2011 06:06 PM
<i>Surr: 2-Fluorophenol</i>	75.5		33-117	%REC	1	6/23/2011 06:06 PM
<i>Surr: 4-Terphenyl-d14</i>	99.6		25-137	%REC	1	6/23/2011 06:06 PM
<i>Surr: Nitrobenzene-d5</i>	62.4		37-107	%REC	1	6/23/2011 06:06 PM
<i>Surr: Phenol-d6</i>	71.5		40-106	%REC	1	6/23/2011 06:06 PM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: AK
Benzene	ND		120	µg/Kg-dry	100	6/23/2011 08:30 PM
Ethylbenzene	ND		120	µg/Kg-dry	100	6/23/2011 08:30 PM
m,p-Xylene	ND		120	µg/Kg-dry	100	6/23/2011 08:30 PM
o-Xylene	ND		120	µg/Kg-dry	100	6/23/2011 08:30 PM
Toluene	ND		120	µg/Kg-dry	100	6/23/2011 08:30 PM
Xylenes, Total	ND		370	µg/Kg-dry	100	6/23/2011 08:30 PM
<i>Surr: 1,2-Dichloroethane-d4</i>	100		70-120	%REC	100	6/23/2011 08:30 PM
<i>Surr: 4-Bromofluorobenzene</i>	101		75-120	%REC	100	6/23/2011 08:30 PM
<i>Surr: Dibromofluoromethane</i>	92.3		85-115	%REC	100	6/23/2011 08:30 PM
<i>Surr: Toluene-d8</i>	100		85-115	%REC	100	6/23/2011 08:30 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: EE
Chromium, Trivalent	38			mg/L-dry	1	6/28/2011 04:45 PM
CHROMIUM, HEXAVALENT			SW7196A		Prep Date: 6/24/2011	Analyst: MB
Chromium, Hexavalent	ND		0.61	mg/Kg-dry	1	6/28/2011 02:00 PM
MOISTURE			A2540 G			Analyst: JS
Moisture	18		0.050	% of sample	1	6/22/2011 09:34 AM
PH			SW9045D			Analyst: JS
pH	8.57			s.u.	1	6/22/2011 08:30 AM

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

Report Number: F11174-0161

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

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QUALITY ANALYSES FOR INFORMED DECISIONS

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

RE: 1106560

DATE RECEIVED: 06/23/2011

DATE REPORTED: 06/27/2011

PAGE: 1

P.O. NUMBER: 20-122010287

ATTN: ANN PRESTON

REPORT OF ANALYSIS

LAB NO.	SAMPLE ID	ANALYSIS	RESULT	UNIT	METHOD
80388	01C	Sat'd Paste Extraction with DIW	1		USDA Handbook 60
		Conductivity (ECe)	0.68	mmho/cm	USDA Handbook 60
		Calcium (Sat'd Paste)	48	ppm	USDA Handbook 60
		Magnesium (Sat'd Paste)	15	ppm	USDA Handbook 60
		Sodium (Sat'd Paste)	219	ppm	USDA Handbook 60
		Sodium Adsorption Ratio	7.1	-	USDA Handbook 60
80389	02C	Sat'd Paste Extraction with DIW	1		USDA Handbook 60
		Conductivity (ECe)	0.50	mmho/cm	USDA Handbook 60
		Calcium (Sat'd Paste)	23	ppm	USDA Handbook 60
		Magnesium (Sat'd Paste)	7	ppm	USDA Handbook 60
		Sodium (Sat'd Paste)	272	ppm	USDA Handbook 60
		Sodium Adsorption Ratio	12.7	-	USDA Handbook 60
80390	03C	Sat'd Paste Extraction with DIW	1		USDA Handbook 60
		Conductivity (ECe)	3.33	mmho/cm	USDA Handbook 60
		Calcium (Sat'd Paste)	65	ppm	USDA Handbook 60
		Magnesium (Sat'd Paste)	22	ppm	USDA Handbook 60
		Sodium (Sat'd Paste)	2319	ppm	USDA Handbook 60
		Sodium Adsorption Ratio	63.2	-	USDA Handbook 60
80391	04C	Sat'd Paste Extraction with DIW	1		USDA Handbook 60
		Conductivity (ECe)	4.36	mmho/cm	USDA Handbook 60
		Calcium (Sat'd Paste)	108	ppm	USDA Handbook 60
		Magnesium (Sat'd Paste)	33	ppm	USDA Handbook 60
		Sodium (Sat'd Paste)	2822	ppm	USDA Handbook 60
		Sodium Adsorption Ratio	60.8	-	USDA Handbook 60

Report Number: F11174-0161

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: 1106560

DATE RECEIVED: 06/23/2011

DATE REPORTED: 06/27/2011

PAGE: 2

P.O. NUMBER: 20-122010287

ATTN: ANN PRESTON

REPORT OF ANALYSIS

LAB NO.	SAMPLE ID	ANALYSIS	RESULT	UNIT	METHOD
80392	05C	Sat'd Paste Extraction with DIW	1		USDA Handbook 60
		Conductivity (ECe)	6.60	mmho/cm	USDA Handbook 60
		Calcium (Sat'd Paste)	67	ppm	USDA Handbook 60
		Magnesium (Sat'd Paste)	16	ppm	USDA Handbook 60
		Sodium (Sat'd Paste)	5352	ppm	USDA Handbook 60
		Sodium Adsorption Ratio	152.1	-	USDA Handbook 60
80393	06C	Sat'd Paste Extraction with DIW	1		USDA Handbook 60
		Conductivity (ECe)	1.64	mmho/cm	USDA Handbook 60
		Calcium (Sat'd Paste)	54	ppm	USDA Handbook 60
		Magnesium (Sat'd Paste)	12	ppm	USDA Handbook 60
		Sodium (Sat'd Paste)	1034	ppm	USDA Handbook 60
		Sodium Adsorption Ratio	33.1	-	USDA Handbook 60
80394	07B	Sat'd Paste Extraction with DIW	1		USDA Handbook 60
		Conductivity (ECe)	0.35	mmho/cm	USDA Handbook 60
		Calcium (Sat'd Paste)	54	ppm	USDA Handbook 60
		Magnesium (Sat'd Paste)	9	ppm	USDA Handbook 60
		Sodium (Sat'd Paste)	16	ppm	USDA Handbook 60
		Sodium Adsorption Ratio	0.5	-	USDA Handbook 60

Client: HRL Compliance Solutions

QC BATCH REPORT

Work Order: 1106560

Project: TR 11-5-697 Pad LOE 6/19/11

Batch ID: **33935** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-33935-33935			Units: mg/Kg		Analysis Date: 6/23/2011 11:59 AM			
Client ID:		Run ID: GC8_110623A			SeqNo: 1658103		Prep Date: 6/22/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	4.2								
<i>Surr: 4-Terphenyl-d14</i>	1.402	0	1.667	0	84.1	39-115	0			

LCS		Sample ID: DLCSS1-33935-33935			Units: mg/Kg		Analysis Date: 6/23/2011 10:45 AM			
Client ID:		Run ID: GC8_110623A			SeqNo: 1658101		Prep Date: 6/22/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	162.7	4.2	166.7	0	97.6	60-130	0			
<i>Surr: 4-Terphenyl-d14</i>	1.267	0	1.667	0	76	39-115	0			

LCSD		Sample ID: DLCSDS1-33935-33935			Units: mg/Kg		Analysis Date: 6/23/2011 10:45 AM			
Client ID:		Run ID: GC8_110623A			SeqNo: 1658111		Prep Date: 6/22/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	161.3	4.2	166.7	0	96.8	60-130	162.7	0.868	30	
<i>Surr: 4-Terphenyl-d14</i>	1.256	0	1.667	0	75.4	39-115	1.267	0.845	30	

MS		Sample ID: 1106554-02B MS			Units: mg/Kg		Analysis Date: 6/23/2011 11:10 AM			
Client ID:		Run ID: GC8_110623A			SeqNo: 1658102		Prep Date: 6/22/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	303.7	8.1	326	3.384	92.1	60-130	0			
<i>Surr: 4-Terphenyl-d14</i>	2.276	0	3.26	0	69.8	39-115	0			

MSD		Sample ID: 1106554-02B MSD			Units: mg/Kg		Analysis Date: 6/23/2011 11:10 AM			
Client ID:		Run ID: GC8_110623A			SeqNo: 1658112		Prep Date: 6/22/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	333.9	8.0	319.2	3.384	104	60-130	303.7	9.49	30	
<i>Surr: 4-Terphenyl-d14</i>	2.548	0	3.192	0	79.8	39-115	2.276	11.3	30	

The following samples were analyzed in this batch:

1106560-01B	1106560-02B	1106560-03B
1106560-04B	1106560-05B	1106560-06B

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

Client: HRL Compliance Solutions
 Work Order: 1106560
 Project: TR 11-5-697 Pad LOE 6/19/11

QC BATCH REPORT

Batch ID: **R91426** Instrument ID **GC9** Method: **SW8015**

MBLK		Sample ID: MBLK-R91426-R91426				Units: µg/L		Analysis Date: 6/23/2011 12:58 PM		
Client ID:		Run ID: GC9_110622B				SeqNo: 1657618		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>	104.9	0	100	0	105	70-130	0			

LCS		Sample ID: LCS-R91426-R91426				Units: µg/L		Analysis Date: 6/22/2011 11:41 PM		
Client ID:		Run ID: GC9_110622B				SeqNo: 1657616		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)	24400	200	25000	0	97.6	70-130	0			
<i>Surr: Toluene-d8</i>	98.09	0	100	0	98.1	70-130	0			

LCSD		Sample ID: LCSD-R91426-R91426				Units: µg/L		Analysis Date: 6/23/2011 12:06 PM		
Client ID:		Run ID: GC9_110622B				SeqNo: 1657617		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)	23850	200	25000	0	95.4	70-130	24400	2.29	30	
<i>Surr: Toluene-d8</i>	94.73	0	100	0	94.7	70-130	98.09	3.49	30	

MS		Sample ID: 1106512-03A MS				Units: µg/Kg		Analysis Date: 6/23/2011 08:19 AM		
Client ID:		Run ID: GC9_110622B				SeqNo: 1657635		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)	1290000	2,500	1250000	0	103	70-130	0			
<i>Surr: Toluene-d8</i>	5120	0	5000	0	102	50-150	0			

MSD		Sample ID: 1106512-03A MSD				Units: µg/Kg		Analysis Date: 6/23/2011 08:46 AM		
Client ID:		Run ID: GC9_110622B				SeqNo: 1657636		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)	1269000	2,500	1250000	0	102	70-130	1290000	1.65	30	
<i>Surr: Toluene-d8</i>	4957	0	5000	0	99.1	50-150	5120	3.23	30	

The following samples were analyzed in this batch:

1106560-01A	1106560-02A	1106560-03A
1106560-04A	1106560-05A	1106560-06A

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

Client: HRL Compliance Solutions
 Work Order: 1106560
 Project: TR 11-5-697 Pad LOE 6/19/11

QC BATCH REPORT

Batch ID: **33951** Instrument ID **HG1** Method: **SW7471**

MBLK		Sample ID: MBLK-33951-33951				Units: mg/Kg		Analysis Date: 6/23/2011 02:32 PM		
Client ID:		Run ID: HG1_110623A				SeqNo: 1657873		Prep Date: 6/22/2011		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-33951-33951				Units: mg/Kg		Analysis Date: 6/23/2011 02:34 PM		
Client ID:		Run ID: HG1_110623A				SeqNo: 1657874		Prep Date: 6/22/2011		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1822	0.020	0.1665	0	109	80-120	0			

LCSD		Sample ID: LCSD-33951-33951				Units: mg/Kg		Analysis Date: 6/23/2011 02:37 PM		
Client ID:		Run ID: HG1_110623A				SeqNo: 1657875		Prep Date: 6/22/2011		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1771	0.020	0.1665	0	106	80-120	0.1822	2.83	20	

MS		Sample ID: 1106554-02BMS				Units: mg/Kg		Analysis Date: 6/23/2011 03:31 PM		
Client ID:		Run ID: HG1_110623A				SeqNo: 1657969		Prep Date: 6/22/2011		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1609	0.014	0.1182	0.03875	103	75-125	0			

MSD		Sample ID: 1106554-02BMSD				Units: mg/Kg		Analysis Date: 6/23/2011 03:33 PM		
Client ID:		Run ID: HG1_110623A				SeqNo: 1657971		Prep Date: 6/22/2011		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1552	0.015	0.1215	0.03875	95.8	75-125	0.1609	3.62	35	

The following samples were analyzed in this batch: 1106560-01B 1106560-02B

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

Client: HRL Compliance Solutions
Work Order: 1106560
Project: TR 11-5-697 Pad LOE 6/19/11

QC BATCH REPORT

Batch ID: **33977** Instrument ID **HG1** Method: **SW7471**

MBLK		Sample ID: MBLK-33977-33977			Units: mg/Kg			Analysis Date: 6/24/2011 03:21 PM		
Client ID:		Run ID: HG1_110624A			SeqNo: 1659528			Prep Date: 6/23/2011		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-33977-33977			Units: mg/Kg			Analysis Date: 6/24/2011 03:23 PM		
Client ID:		Run ID: HG1_110624A			SeqNo: 1659529			Prep Date: 6/23/2011		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1761	0.020	0.1665		0	106	80-120	0		

LCSD		Sample ID: LCSD-33977-33977			Units: mg/Kg			Analysis Date: 6/24/2011 03:25 PM		
Client ID:		Run ID: HG1_110624A			SeqNo: 1659530			Prep Date: 6/23/2011		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1686	0.020	0.1665		0	101	80-120	0.1761	4.35	20

The following samples were analyzed in this batch:

1106560-03B	1106560-04B	1106560-05B
1106560-06B		

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

Client: HRL Compliance Solutions
 Work Order: 1106560
 Project: TR 11-5-697 Pad LOE 6/19/11

QC BATCH REPORT

Batch ID: **33973** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK Sample ID: **MBLK-33973-33973** Units: **mg/Kg** Analysis Date: **6/24/2011 05:57 AM**

Client ID: Run ID: **ICPMS1_110623A** SeqNo: **1658316** Prep Date: **6/23/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.25								
Barium	ND	0.25								
Cadmium	0.00739	0.10								J
Chromium	0.01576	0.25								J
Copper	ND	0.25								
Lead	0.01924	0.25								J
Nickel	0.01258	0.25								J
Selenium	ND	0.25								
Silver	0.004904	0.25								J
Zinc	ND	0.50								

LCS Sample ID: **LCS-33973-33973** Units: **mg/Kg** Analysis Date: **6/24/2011 06:03 AM**

Client ID: Run ID: **ICPMS1_110623A** SeqNo: **1658317** Prep Date: **6/23/2011** DF: **2**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.686	0.50	5	0	93.7	80-120	0			
Barium	4.786	0.50	5	0	95.7	80-120	0			
Cadmium	4.86	0.20	5	0	97.2	80-120	0			
Chromium	5.105	0.50	5	0	102	80-120	0			
Copper	5.059	0.50	5	0	101	80-120	0			
Lead	4.929	0.50	5	0	98.6	80-120	0			
Nickel	5.123	0.50	5	0	102	80-120	0			
Selenium	4.804	0.50	5	0	96.1	80-120	0			
Silver	5.033	0.50	5	0	101	80-120	0			
Zinc	4.648	1.0	5	0	93	80-120	0			

LCSD Sample ID: **LCSD-33973-33973** Units: **mg/Kg** Analysis Date: **6/24/2011 06:09 AM**

Client ID: Run ID: **ICPMS1_110623A** SeqNo: **1658318** Prep Date: **6/23/2011** DF: **2**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.269	0.50	5	0	85.4	80-120	4.686	9.31	20	
Barium	4.208	0.50	5	0	84.2	80-120	4.786	12.9	20	
Cadmium	4.337	0.20	5	0	86.7	80-120	4.86	11.4	20	
Chromium	4.481	0.50	5	0	89.6	80-120	5.105	13	20	
Copper	4.449	0.50	5	0	89	80-120	5.059	12.8	20	
Lead	4.348	0.50	5	0	87	80-120	4.929	12.5	20	
Nickel	4.508	0.50	5	0	90.2	80-120	5.123	12.8	20	
Selenium	4.237	0.50	5	0	84.7	80-120	4.804	12.5	20	
Silver	4.479	0.50	5	0	89.6	80-120	5.033	11.6	20	
Zinc	4.202	1.0	5	0	84	80-120	4.648	10.1	20	

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

Client: HRL Compliance Solutions
 Work Order: 1106560
 Project: TR 11-5-697 Pad LOE 6/19/11

QC BATCH REPORT

Batch ID: 33973 Instrument ID ICPMS1 Method: SW6020A

MS		Sample ID: 1106553-03BMS			Units: mg/Kg			Analysis Date: 6/24/2011 06:38 AM		
Client ID:		Run ID: ICPMS1_110623A			SeqNo: 1658323			Prep Date: 6/23/2011		DF: 4
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	24.45	1.3	6.72	11.32	195	80-120	0			S
Barium	158	1.3	6.72	118.2	592	80-120	0			SO
Cadmium	7.731	0.54	6.72	0.9027	102	80-120	0			
Chromium	46.1	1.3	6.72	31.81	213	80-120	0			SO
Copper	51.32	1.3	6.72	39.49	176	80-120	0			SO
Lead	70.27	1.3	6.72	52.75	261	80-120	0			SO
Nickel	19.26	1.3	6.72	10.05	137	80-120	0			S
Selenium	7.54	1.3	6.72	1.167	94.8	80-120	0			
Silver	6.995	1.3	6.72	0.767	92.7	80-120	0			
Zinc	154.1	2.7	6.72	113	611	80-120	0			SO

MSD		Sample ID: 1106553-03BMSD			Units: mg/Kg			Analysis Date: 6/24/2011 07:08 AM		
Client ID:		Run ID: ICPMS1_110623A			SeqNo: 1658326			Prep Date: 6/23/2011		DF: 4
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	18.55	1.3	6.649	11.32	109	80-120	24.45	27.5	25	R
Barium	134.9	1.3	6.649	118.2	253	80-120	158	15.7	25	SO
Cadmium	7.356	0.53	6.649	0.9027	97.1	80-120	7.731	4.97	25	
Chromium	35.37	1.3	6.649	31.81	53.6	80-120	46.1	26.3	25	SRO
Copper	44.97	1.3	6.649	39.49	82.5	80-120	51.32	13.2	25	O
Nickel	17.5	1.3	6.649	10.05	112	80-120	19.26	9.58	25	
Selenium	7.75	1.3	6.649	1.167	99	80-120	7.54	2.74	25	
Silver	6.859	1.3	6.649	0.767	91.6	80-120	6.995	1.96	25	
Zinc	124	2.7	6.649	113	166	80-120	154.1	21.6	25	SO

MSD		Sample ID: 1106553-03BMSD			Units: mg/Kg			Analysis Date: 6/24/2011 03:57 PM		
Client ID:		Run ID: ICPMS1_110624A			SeqNo: 1659651			Prep Date: 6/23/2011		DF: 4
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead	56.3	1.3	6.649	52.75	53.5	80-120	70.27	22.1	25	SO

The following samples were analyzed in this batch:

1106560-01B	1106560-02B	1106560-03B
1106560-04B	1106560-05B	1106560-06B
1106560-07A	1106560-08A	1106560-09A

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

Client: HRL Compliance Solutions
 Work Order: 1106560
 Project: TR 11-5-697 Pad LOE 6/19/11

QC BATCH REPORT

Batch ID: **33934** Instrument ID **SVMS4** Method: **SW8270**

MBLK Sample ID: **SBLKS1-33934-33934** Units: **µg/Kg** Analysis Date: **6/22/2011 05:37 PM**

Client ID: Run ID: **SVMS4_110622A** SeqNo: **1657190** Prep Date: **6/22/2011** 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>	1242	0	1667	0	74.5	34-140	0			
<i>Surr: 2-Fluorobiphenyl</i>	1085	0	1667	0	65.1	12-100	0			
<i>Surr: 2-Fluorophenol</i>	1339	0	1667	0	80.4	33-117	0			
<i>Surr: 4-Terphenyl-d14</i>	1284	0	1667	0	77.1	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1225	0	1667	0	73.5	37-107	0			
<i>Surr: Phenol-d6</i>	1349	0	1667	0	80.9	40-106	0			

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

Client: HRL Compliance Solutions
 Work Order: 1106560
 Project: TR 11-5-697 Pad LOE 6/19/11

QC BATCH REPORT

Batch ID: 33934 Instrument ID SVMS4 Method: SW8270

LCS		Sample ID: SLCSS1-33934-33934			Units: µg/Kg		Analysis Date: 6/22/2011 06:10 PM			
Client ID:		Run ID: SVMS4_110622A			SeqNo: 1657191		Prep Date: 6/22/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1065	30	1333	0	79.9	45-110	0			
Anthracene	1152	30	1333	0	86.4	55-105	0			
Benzo(a)anthracene	1197	30	1333	0	89.8	50-110	0			
Benzo(a)pyrene	1277	30	1333	0	95.8	50-110	0			
Benzo(b)fluoranthene	1290	30	1333	0	96.8	45-115	0			
Benzo(g,h,i)perylene	1250	30	1333	0	93.8	40-125	0			
Benzo(k)fluoranthene	1189	30	1333	0	89.2	45-115	0			
Chrysene	1177	30	1333	0	88.3	55-110	0			
Dibenzo(a,h)anthracene	1240	30	1333	0	93	40-125	0			
Fluoranthene	1189	30	1333	0	89.2	55-115	0			
Fluorene	1058	30	1333	0	79.4	50-110	0			
Indeno(1,2,3-cd)pyrene	1250	30	1333	0	93.7	40-120	0			
Naphthalene	1038	30	1333	0	77.9	40-105	0			
Pyrene	1282	30	1333	0	96.1	45-125	0			
<i>Surr: 2,4,6-Tribromophenol</i>	1351	0	1667	0	81.1	34-140	0			
<i>Surr: 2-Fluorobiphenyl</i>	1145	0	1667	0	68.7	12-100	0			
<i>Surr: 2-Fluorophenol</i>	1226	0	1667	0	73.6	33-117	0			
<i>Surr: 4-Terphenyl-d14</i>	1465	0	1667	0	87.9	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1207	0	1667	0	72.4	37-107	0			
<i>Surr: Phenol-d6</i>	1159	0	1667	0	69.5	40-106	0			

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

Client: HRL Compliance Solutions
 Work Order: 1106560
 Project: TR 11-5-697 Pad LOE 6/19/11

QC BATCH REPORT

Batch ID: 33934 Instrument ID SVMS4 Method: SW8270

LCSD	Sample ID: SLCSDS1-33934-33934	Units: µg/Kg					Analysis Date: 6/22/2011 06:42 PM				
Client ID:	Run ID: SVMS4_110622A	SeqNo: 1657192			Prep Date: 6/22/2011		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	1100	30	1333	0	82.5	45-110	1065	3.23	25		
Anthracene	1180	30	1333	0	88.5	55-105	1152	2.46	25		
Benzo(a)anthracene	1162	30	1333	0	87.2	50-110	1197	2.97	25		
Benzo(a)pyrene	1263	30	1333	0	94.7	50-110	1277	1.08	25		
Benzo(b)fluoranthene	1317	30	1333	0	98.8	45-115	1290	2.1	25		
Benzo(g,h,i)perylene	1221	30	1333	0	91.6	40-125	1250	2.4	25		
Benzo(k)fluoranthene	1130	30	1333	0	84.8	45-115	1189	5.06	25		
Chrysene	1192	30	1333	0	89.4	55-110	1177	1.32	25		
Dibenzo(a,h)anthracene	1223	30	1333	0	91.7	40-125	1240	1.43	25		
Fluoranthene	1185	30	1333	0	88.9	55-115	1189	0.365	25		
Fluorene	1097	30	1333	0	82.3	50-110	1058	3.59	25		
Indeno(1,2,3-cd)pyrene	1228	30	1333	0	92.1	40-120	1250	1.75	25		
Naphthalene	1072	30	1333	0	80.4	40-105	1038	3.25	25		
Pyrene	1266	30	1333	0	95	45-125	1282	1.2	25		
Surr: 2,4,6-Tribromophenol	1372	0	1667	0	82.3	34-140	1351	1.54	40		
Surr: 2-Fluorobiphenyl	1186	0	1667	0	71.2	12-100	1145	3.52	40		
Surr: 2-Fluorophenol	1262	0	1667	0	75.7	33-117	1226	2.89	40		
Surr: 4-Terphenyl-d14	1442	0	1667	0	86.5	25-137	1465	1.61	40		
Surr: Nitrobenzene-d5	1246	0	1667	0	74.8	37-107	1207	3.15	40		
Surr: Phenol-d6	1194	0	1667	0	71.6	40-106	1159	2.95	40		

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

Client: HRL Compliance Solutions
Work Order: 1106560
Project: TR 11-5-697 Pad LOE 6/19/11

QC BATCH REPORT

Batch ID: **33934** Instrument ID **SVMS4** Method: **SW8270**

MS		Sample ID: 1106554-02B MS			Units: µg/Kg		Analysis Date: 6/23/2011 01:09 AM			
Client ID:		Run ID: SVMS4_110622A			SeqNo: 1657595		Prep Date: 6/22/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	2011	57	2539	0	79.2	45-110	0			
Anthracene	2137	57	2539	0	84.2	55-105	0			
Benzo(a)anthracene	2190	57	2539	11.79	85.8	50-110	0			
Benzo(a)pyrene	2335	57	2539	11.46	91.5	50-110	0			
Benzo(b)fluoranthene	2332	57	2539	18.01	91.1	45-115	0			
Benzo(g,h,i)perylene	2407	57	2539	12.44	94.3	40-125	0			
Benzo(k)fluoranthene	2199	57	2539	0	86.6	45-115	0			
Chrysene	2136	57	2539	13.1	83.6	55-110	0			
Dibenzo(a,h)anthracene	2273	57	2539	0	89.5	40-125	0			
Fluoranthene	2202	57	2539	19.32	85.9	55-115	0			
Fluorene	2001	57	2539	0	78.8	50-110	0			
Indeno(1,2,3-cd)pyrene	2324	57	2539	9.824	91.1	40-120	0			
Naphthalene	1932	57	2539	0	76.1	40-105	0			
Pyrene	2310	57	2539	16.37	90.3	45-125	0			
<i>Surr: 2,4,6-Tribromophenol</i>	2593	0	3174	0	81.7	34-140	0			
<i>Surr: 2-Fluorobiphenyl</i>	2118	0	3174	0	66.7	12-100	0			
<i>Surr: 2-Fluorophenol</i>	2356	0	3174	0	74.2	33-117	0			
<i>Surr: 4-Terphenyl-d14</i>	2566	0	3174	0	80.8	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	2287	0	3174	0	72.1	37-107	0			
<i>Surr: Phenol-d6</i>	2233	0	3174	0	70.3	40-106	0			

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

Client: HRL Compliance Solutions
 Work Order: 1106560
 Project: TR 11-5-697 Pad LOE 6/19/11

QC BATCH REPORT

Batch ID: 33934 Instrument ID SVMS4 Method: SW8270

MSD		Sample ID: 1106554-02B MSD			Units: µg/Kg			Analysis Date: 6/23/2011 01:42 AM		
Client ID:		Run ID: SVMS4_110622A			SeqNo: 1657596		Prep Date: 6/22/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	2009	58	2575	0	78	45-110	2011	0.0887	30	
Anthracene	2092	58	2575	0	81.3	55-105	2137	2.1	30	
Benzo(a)anthracene	2163	58	2575	11.79	83.5	50-110	2190	1.24	30	
Benzo(a)pyrene	2263	58	2575	11.46	87.4	50-110	2335	3.13	30	
Benzo(b)fluoranthene	2362	58	2575	18.01	91	45-115	2332	1.24	30	
Benzo(g,h,i)perylene	2266	58	2575	12.44	87.5	40-125	2407	6.03	30	
Benzo(k)fluoranthene	2027	58	2575	0	78.7	45-115	2199	8.12	30	
Chrysene	2065	58	2575	13.1	79.7	55-110	2136	3.37	30	
Dibenzo(a,h)anthracene	2177	58	2575	0	84.5	40-125	2273	4.34	30	
Fluoranthene	2156	58	2575	19.32	83	55-115	2202	2.11	30	
Fluorene	1980	58	2575	0	76.9	50-110	2001	1.03	30	
Indeno(1,2,3-cd)pyrene	2213	58	2575	9.824	85.6	40-120	2324	4.85	30	
Naphthalene	1962	58	2575	0	76.2	40-105	1932	1.5	30	
Pyrene	2279	58	2575	16.37	87.8	45-125	2310	1.38	30	
Surr: 2,4,6-Tribromophenol	2297	0	3219	0	71.4	34-140	2593	12.1	40	
Surr: 2-Fluorobiphenyl	1800	0	3219	0	55.9	12-100	2118	16.2	40	
Surr: 2-Fluorophenol	2309	0	3219	0	71.7	33-117	2356	2.02	40	
Surr: 4-Terphenyl-d14	2344	0	3219	0	72.8	25-137	2566	9.04	40	
Surr: Nitrobenzene-d5	2119	0	3219	0	65.8	37-107	2287	7.65	40	
Surr: Phenol-d6	2152	0	3219	0	66.8	40-106	2233	3.7	40	

The following samples were analyzed in this batch:

1106560-01B	1106560-02B	1106560-03B
1106560-04B	1106560-05B	1106560-06B

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

Client: HRL Compliance Solutions
 Work Order: 1106560
 Project: TR 11-5-697 Pad LOE 6/19/11

QC BATCH REPORT

Batch ID: **R91399** Instrument ID **VMS6** Method: **SW8260**

MBLK		Sample ID: VBLKW2-110622-R91399			Units: µg/L			Analysis Date: 6/23/2011 03:42 AM		
Client ID:		Run ID: VMS6_110622B			SeqNo: 1656866			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>101.5</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>96.67</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>96.7</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>99.8</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>99.8</i>	<i>85-120</i>	<i>0</i>			

LCS		Sample ID: VLCSW2-110622-R91399			Units: µg/L			Analysis Date: 6/23/2011 02:27 AM		
Client ID:		Run ID: VMS6_110622B			SeqNo: 1656864			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	21.03	1.0	20	0	105	80-120	0			
Ethylbenzene	20.58	1.0	20	0	103	75-125	0			
m,p-Xylene	41.87	2.0	40	0	105	75-130	0			
o-Xylene	20.4	1.0	20	0	102	80-120	0			
Toluene	20.48	1.0	20	0	102	75-120	0			
Xylenes, Total	62.27	2.0	60	0	104	75-130	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>100.2</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>97.77</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>97.8</i>	<i>75-120</i>	<i>0</i>			
<i>Surr: Dibromofluoromethane</i>	<i>99.46</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>99.5</i>	<i>85-115</i>	<i>0</i>			
<i>Surr: Toluene-d8</i>	<i>100.1</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>100</i>	<i>85-120</i>	<i>0</i>			

LCSD		Sample ID: VLCSW2-110622-R91399			Units: µg/L			Analysis Date: 6/23/2011 02:52 AM		
Client ID:		Run ID: VMS6_110622B			SeqNo: 1656865			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.76	1.0	20	0	104	80-120	21.03	1.29	30	
Ethylbenzene	20.27	1.0	20	0	101	75-125	20.58	1.52	30	
m,p-Xylene	40.96	2.0	40	0	102	75-130	41.87	2.2	30	
o-Xylene	20.09	1.0	20	0	100	80-120	20.4	1.53	30	
Toluene	20.12	1.0	20	0	101	75-120	20.48	1.77	30	
Xylenes, Total	61.05	2.0	60	0	102	75-130	62.27	1.98	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>98.67</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>98.7</i>	<i>70-120</i>	<i>100.2</i>	<i>1.53</i>	<i>30</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>96.98</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>97</i>	<i>75-120</i>	<i>97.77</i>	<i>0.811</i>	<i>30</i>	
<i>Surr: Dibromofluoromethane</i>	<i>99.83</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>99.8</i>	<i>85-115</i>	<i>99.46</i>	<i>0.371</i>	<i>30</i>	
<i>Surr: Toluene-d8</i>	<i>99.05</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>99</i>	<i>85-120</i>	<i>100.1</i>	<i>1.04</i>	<i>30</i>	

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

Client: HRL Compliance Solutions
 Work Order: 1106560
 Project: TR 11-5-697 Pad LOE 6/19/11

QC BATCH REPORT

Batch ID: **R91399** Instrument ID **VMS6** Method: **SW8260**

MS				Sample ID: 1106580-07A MS			Units: µg/L		Analysis Date: 6/23/2011 12:08 PM			
Client ID:				Run ID: VMS6_110622B			SeqNo: 1657722		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
Benzene	21.57	1.0	20	0	108	80-120	0					
Ethylbenzene	20.99	1.0	20	0	105	75-125	0					
m,p-Xylene	42.44	2.0	40	0	106	75-130	0					
o-Xylene	20.88	1.0	20	0	104	80-120	0					
Toluene	21	1.0	20	0	105	75-120	0					
Xylenes, Total	63.32	2.0	60	0	106	75-130	0					
<i>Surr: 1,2-Dichloroethane-d4</i>	103	0	100	0	103	70-120	0					
<i>Surr: 4-Bromofluorobenzene</i>	97.82	0	100	0	97.8	75-120	0					
<i>Surr: Dibromofluoromethane</i>	100.9	0	100	0	101	85-115	0					
<i>Surr: Toluene-d8</i>	99.88	0	100	0	99.9	85-120	0					

MSD				Sample ID: 1106580-07A MSD			Units: µg/L		Analysis Date: 6/23/2011 12:33 PM			
Client ID:				Run ID: VMS6_110622B			SeqNo: 1657727		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
Benzene	19.81	1.0	20	0	99	80-120	21.57	8.51	30			
Ethylbenzene	19.62	1.0	20	0	98.1	75-125	20.99	6.75	30			
m,p-Xylene	39.17	2.0	40	0	97.9	75-130	42.44	8.01	30			
o-Xylene	19.05	1.0	20	0	95.2	80-120	20.88	9.17	30			
Toluene	19.23	1.0	20	0	96.2	75-120	21	8.8	30			
Xylenes, Total	58.22	2.0	60	0	97	75-130	63.32	8.39	30			
<i>Surr: 1,2-Dichloroethane-d4</i>	102.8	0	100	0	103	70-120	103	0.165	30			
<i>Surr: 4-Bromofluorobenzene</i>	104.4	0	100	0	104	75-120	97.82	6.51	30			
<i>Surr: Dibromofluoromethane</i>	100.3	0	100	0	100	85-115	100.9	0.616	30			
<i>Surr: Toluene-d8</i>	100.8	0	100	0	101	85-120	99.88	0.887	30			

The following samples were analyzed in this batch:

1106560-02A	1106560-03A	1106560-04A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions
 Work Order: 1106560
 Project: TR 11-5-697 Pad LOE 6/19/11

QC BATCH REPORT

Batch ID: **R91401** Instrument ID **VMS7** Method: **SW8260**

MBLK		Sample ID: VBLKW2-110622-R91401			Units: µg/L		Analysis Date: 6/22/2011 09:32 PM			
Client ID:		Run ID: VMS7_110622B			SeqNo: 1656902		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>107</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>107</i>	<i>70-120</i>	<i>0</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>99.62</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>99.6</i>	<i>75-120</i>	<i>0</i>			
<i>Surr: Dibromofluoromethane</i>	<i>99.88</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>101.7</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>102</i>	<i>85-120</i>	<i>0</i>			

LCS		Sample ID: VLC SW1-110622-R91401			Units: µg/L		Analysis Date: 6/22/2011 08:17 PM			
Client ID:		Run ID: VMS7_110622B			SeqNo: 1656900		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.91	1.0	20	0	105	80-120	0			
Ethylbenzene	20.44	1.0	20	0	102	75-125	0			
m,p-Xylene	40.9	2.0	40	0	102	75-130	0			
o-Xylene	20.41	1.0	20	0	102	80-120	0			
Toluene	21.31	1.0	20	0	107	75-120	0			
Xylenes, Total	61.31	2.0	60	0	102	75-130	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>98.8</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>98.8</i>	<i>70-120</i>	<i>0</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>0</i>			
<i>Surr: Dibromofluoromethane</i>	<i>101.6</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>100.3</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>100</i>	<i>85-120</i>	<i>0</i>			

LCSD		Sample ID: VLCSDW1-110622-R91401			Units: µg/L		Analysis Date: 6/22/2011 08:42 PM			
Client ID:		Run ID: VMS7_110622B			SeqNo: 1656901		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.31	1.0	20	0	102	80-120	20.91	2.91	30	
Ethylbenzene	19.62	1.0	20	0	98.1	75-125	20.44	4.09	30	
m,p-Xylene	38.8	2.0	40	0	97	75-130	40.9	5.27	30	
o-Xylene	19.65	1.0	20	0	98.2	80-120	20.41	3.79	30	
Toluene	20.19	1.0	20	0	101	75-120	21.31	5.4	30	
Xylenes, Total	58.45	2.0	60	0	97.4	75-130	61.31	4.78	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>99.16</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>99.2</i>	<i>70-120</i>	<i>98.8</i>	<i>0.364</i>	<i>30</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>100.6</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>101</i>	<i>75-120</i>	<i>100.2</i>	<i>0.448</i>	<i>30</i>	
<i>Surr: Dibromofluoromethane</i>	<i>102.2</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>102</i>	<i>85-115</i>	<i>101.6</i>	<i>0.658</i>	<i>30</i>	
<i>Surr: Toluene-d8</i>	<i>100.4</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>100</i>	<i>85-120</i>	<i>100.3</i>	<i>0.0698</i>	<i>30</i>	

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

Client: HRL Compliance Solutions
Work Order: 1106560
Project: TR 11-5-697 Pad LOE 6/19/11

QC BATCH REPORT

Batch ID: **R91401** Instrument ID **VMS7** Method: **SW8260**

The following samples were analyzed in this batch:

1106560-01A	1106560-05A
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Client: HRL Compliance Solutions
 Work Order: 1106560
 Project: TR 11-5-697 Pad LOE 6/19/11

QC BATCH REPORT

Batch ID: **R91416** Instrument ID **VMS8** Method: **SW8260**

MBLK		Sample ID: VBLKW1-110623-R91416			Units: µg/L		Analysis Date: 6/23/2011 01:01 PM			
Client ID:		Run ID: VMS8_110623A			SeqNo: 1658379		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>	100.9	0	100	0	101	70-120	0			
<i>Surr: 4-Bromofluorobenzene</i>	97.21	0	100	0	97.2	75-120	0			
<i>Surr: Dibromofluoromethane</i>	101	0	100	0	101	85-115	0			
<i>Surr: Toluene-d8</i>	99.71	0	100	0	99.7	85-120	0			

LCS		Sample ID: VLCSW1-110623-R91416			Units: µg/L		Analysis Date: 6/23/2011 11:46 AM			
Client ID:		Run ID: VMS8_110623A			SeqNo: 1657265		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.59	1.0	20	0	103	80-120	0			
Ethylbenzene	20.94	1.0	20	0	105	75-125	0			
m,p-Xylene	42.6	2.0	40	0	106	75-130	0			
o-Xylene	20.76	1.0	20	0	104	80-120	0			
Toluene	20.68	1.0	20	0	103	75-120	0			
Xylenes, Total	63.36	2.0	60	0	106	75-130	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	97.15	0	100	0	97.2	70-120	0			
<i>Surr: 4-Bromofluorobenzene</i>	101	0	100	0	101	75-120	0			
<i>Surr: Dibromofluoromethane</i>	101.4	0	100	0	101	85-115	0			
<i>Surr: Toluene-d8</i>	99.86	0	100	0	99.9	85-120	0			

LCSD		Sample ID: VLCSW1-110623-R91416			Units: µg/L		Analysis Date: 6/23/2011 12:11 PM			
Client ID:		Run ID: VMS8_110623A			SeqNo: 1657312		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.13	1.0	20	0	95.6	80-120	20.59	7.35	30	
Ethylbenzene	19.08	1.0	20	0	95.4	75-125	20.94	9.3	30	
m,p-Xylene	39.06	2.0	40	0	97.6	75-130	42.6	8.67	30	
o-Xylene	19.09	1.0	20	0	95.4	80-120	20.76	8.38	30	
Toluene	19.05	1.0	20	0	95.2	75-120	20.68	8.21	30	
Xylenes, Total	58.15	2.0	60	0	96.9	75-130	63.36	8.58	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	97.55	0	100	0	97.6	70-120	97.15	0.411	30	
<i>Surr: 4-Bromofluorobenzene</i>	99.91	0	100	0	99.9	75-120	101	1.09	30	
<i>Surr: Dibromofluoromethane</i>	101.3	0	100	0	101	85-115	101.4	0.0296	30	
<i>Surr: Toluene-d8</i>	99.23	0	100	0	99.2	85-120	99.86	0.633	30	

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

Client: HRL Compliance Solutions
 Work Order: 1106560
 Project: TR 11-5-697 Pad LOE 6/19/11

QC BATCH REPORT

Batch ID: **R91416** Instrument ID **VMS8** Method: **SW8260**

MS		Sample ID: 1106554-02A MS			Units: µg/Kg			Analysis Date: 6/23/2011 09:20 PM		
Client ID:		Run ID: VMS8_110623A			SeqNo: 1658411		Prep Date:		DF: 105	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	2080	100	2100	0	99	75-125	0			
Ethylbenzene	2042	210	2100	0	97.2	75-125	0			
m,p-Xylene	4353	210	4200	0	104	80-125	0			
o-Xylene	2023	100	2100	0	96.4	75-125	0			
Toluene	2035	160	2100	0	96.9	70-125	0			
Xylenes, Total	6377	320	6300	0	101	75-125	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	10180	0	10500	0	96.9	70-120	0			
<i>Surr: 4-Bromofluorobenzene</i>	10580	0	10500	0	101	75-120	0			
<i>Surr: Dibromofluoromethane</i>	10360	0	10500	0	98.6	85-115	0			
<i>Surr: Toluene-d8</i>	10360	0	10500	0	98.7	85-115	0			

MSD		Sample ID: 1106554-02A MSD			Units: µg/Kg			Analysis Date: 6/23/2011 09:45 PM		
Client ID:		Run ID: VMS8_110623A			SeqNo: 1658412		Prep Date:		DF: 105	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	2100	100	2100	0	100	75-125	2080	0.955	30	
Ethylbenzene	2092	210	2100	0	99.6	75-125	2042	2.39	30	
m,p-Xylene	4306	210	4200	0	103	80-125	4353	1.09	30	
o-Xylene	2104	100	2100	0	100	75-125	2023	3.92	30	
Toluene	2088	160	2100	0	99.4	70-125	2035	2.6	30	
Xylenes, Total	6410	320	6300	0	102	75-125	6377	0.526	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	10130	0	10500	0	96.5	70-120	10180	0.424	30	
<i>Surr: 4-Bromofluorobenzene</i>	10640	0	10500	0	101	75-120	10580	0.525	30	
<i>Surr: Dibromofluoromethane</i>	10450	0	10500	0	99.5	85-115	10360	0.908	30	
<i>Surr: Toluene-d8</i>	10400	0	10500	0	99.1	85-115	10360	0.405	30	

The following samples were analyzed in this batch:

1106560-06A

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

Client: HRL Compliance Solutions
 Work Order: 1106560
 Project: TR 11-5-697 Pad LOE 6/19/11

QC BATCH REPORT

Batch ID: **34084** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK		Sample ID: MBLK-34084-34084				Units: mg/Kg		Analysis Date: 6/28/2011 02:00 PM		
Client ID:		Run ID: WETCHEM_110628D				SeqNo: 1663445		Prep Date: 6/24/2011		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	ND	0.48								

LCS		Sample ID: LCS-34084-34084				Units: mg/Kg		Analysis Date: 6/28/2011 02:00 PM		
Client ID:		Run ID: WETCHEM_110628D				SeqNo: 1663443		Prep Date: 6/24/2011		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	1.629	0.49	1.953		0	83.4	75-110	0		

LCSD		Sample ID: LCSD-34084-34084				Units: mg/Kg		Analysis Date: 6/28/2011 02:00 PM		
Client ID:		Run ID: WETCHEM_110628D				SeqNo: 1663444		Prep Date: 6/24/2011		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	1.642	0.49	1.969		0	83.4	75-110	1.629	0.784	20

MS		Sample ID: 1106560-01B MS				Units: mg/Kg		Analysis Date: 6/28/2011 02:00 PM		
Client ID: West Wall		Run ID: WETCHEM_110628D				SeqNo: 1663428		Prep Date: 6/24/2011		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	1.969		0	0	60-130	0		S

MSD		Sample ID: 1106560-01B MSD				Units: mg/Kg		Analysis Date: 6/28/2011 02:00 PM		
Client ID: West Wall		Run ID: WETCHEM_110628D				SeqNo: 1663429		Prep Date: 6/24/2011		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	1.961		0	0	60-130	0	0	30 S

The following samples were analyzed in this batch:

1106560-01B	1106560-02B	1106560-03B
1106560-04B	1106560-05B	1106560-06B

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

Client: HRL Compliance Solutions
Work Order: 1106560
Project: TR 11-5-697 Pad LOE 6/19/11

QC BATCH REPORT

Batch ID: **R91382** Instrument ID **WETCHEM** Method: **SW9045D**

DUP	Sample ID: 1106560-01BDUP		Units: s.u.		Analysis Date: 6/22/2011 08:30 AM					
Client ID: West Wall	Run ID: WETCHEM_110622F		SeqNo: 1656290		Prep Date: DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	8.89	0	0	0	0	0-0	8.89	0	20	

DUP	Sample ID: 1106585-01ADUP		Units: s.u.		Analysis Date: 6/22/2011 08:30 AM					
Client ID:	Run ID: WETCHEM_110622F		SeqNo: 1656298		Prep Date: DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	8.19	0	0	0	0	0-0	8.18	0.122	20	

The following samples were analyzed in this batch:

1106560-01B	1106560-02B	1106560-03B
1106560-04B	1106560-05B	1106560-06B
1106560-07A		

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

Client: HRL Compliance Solutions
 Work Order: 1106560
 Project: TR 11-5-697 Pad LOE 6/19/11

QC BATCH REPORT

Batch ID: **R91412** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS1-R91412			Units: % of sample			Analysis Date: 6/22/2011 09:34 AM		
Client ID:		Run ID: MOIST_110622B			SeqNo: 1657229		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-R91412			Units: % of sample			Analysis Date: 6/22/2011 09:34 AM		
Client ID:		Run ID: MOIST_110622B			SeqNo: 1657228		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: 1106560-06BDUP			Units: % of sample			Analysis Date: 6/22/2011 09:34 AM		
Client ID: East Wall		Run ID: MOIST_110622B			SeqNo: 1657212		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	18.26	0.050	0	0	0	0-0	18.3	0.219	20	

DUP		Sample ID: 1106567-01BDUP			Units: % of sample			Analysis Date: 6/22/2011 09:34 AM		
Client ID:		Run ID: MOIST_110622B			SeqNo: 1657214		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	17.3	0.050	0	0	0	0-0	16.42	5.22	20	

The following samples were analyzed in this batch:

1106560-01B	1106560-02B	1106560-03B
1106560-04B	1106560-05B	1106560-06B

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

Client: HRL Compliance Solutions
Work Order: 1106560
Project: TR 11-5-697 Pad LOE 6/19/11

QC BATCH REPORT

Batch ID: **R91415** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS1-R91415				Units: % of sample			Analysis Date: 6/22/2011 12:10 PM		
Client ID:		Run ID: MOIST_110622C				SeqNo: 1657260		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-R91415				Units: % of sample			Analysis Date: 6/22/2011 12:10 PM		
Client ID:		Run ID: MOIST_110622C				SeqNo: 1657259		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: 1106585-05ADUP				Units: % of sample			Analysis Date: 6/22/2011 12:10 PM		
Client ID:		Run ID: MOIST_110622C				SeqNo: 1657254		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Moisture	13.56	0.050	0	0	0	0-0	13.63	0.515	20		

DUP		Sample ID: 1106560-07ADUP				Units: % of sample			Analysis Date: 6/22/2011 12:10 PM		
Client ID: BK 1		Run ID: MOIST_110622C				SeqNo: 1657264		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Moisture	7.43	0.050	0	0	0	0-0	7.48	0.671	20		

The following samples were analyzed in this batch:

1106560-07A	1106560-08A	1106560-09A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.



Environmental

Subcontractor:

A & L Great Lakes Agricultural La
 3505 Conestoga Dr
 Ft. Wayne, IN 46808

TEL: (260) 483-4759
 FAX:
 Acct #: 91000

CHAIN-OF-CUSTODY RECORD

Date: 21-Jun-11
 COC ID: 2966
 Due Date: 27-Jun-11

Customer Information		Project Information		Parameter/Method Request for Analysis											
Purchase Order		Project Name	1106560	A	Subcontracted Analyses (SUBCONTRACT)										
Work Order		Project Number		B											
Company Name	ALS Group USA, Corp	Bill To Company	ALS Group USA, Corp	C											
Send Report To	Ann Preston	Inv Attn	Accounts Payable	D											
Address	3352 128th Avenue	Address	3352 128th Avenue	E											
				F											
City/State/Zip	Holland, Michigan 49424-9263	City/State/Zip	Holland, Michigan 49424-9263	G											
Phone	(616) 399-6070	Phone	(616) 399-6070	H											
Fax	(616) 399-6185	Fax	(616) 399-6185	I											
eMail Address	ann.preston@alsglobal.com	eMail CC		J											
Sample ID	Matrix	Collection Date 24hr	Bottle	A	B	C	D	E	F	G	H	I	J		
1106560-01C (West Wall)	Soil	19/Jun/2011 12:40	(1) MISC	X											
1106560-02C (South Bottom)	Soil	19/Jun/2011 12:55	(1) MISC	X											
1106560-03C (North Bottom)	Soil	19/Jun/2011 12:45	(1) MISC	X											
1106560-04C (North Wall)	Soil	19/Jun/2011 12:15	(1) MISC	X											
1106560-05C (South Wall)	Soil	19/Jun/2011 12:30	(1) MISC	X											
1106560-06C (East Wall)	Soil	19/Jun/2011 12:20	(1) MISC	X											
1106560-07B (BK 1)	Soil	19/Jun/2011 13:15	(1) MISC	X											

Comments:

Please analyze for SAR-EC. Email results to Ann Preston.

Relinquished by:		Date/Time	6/21/11	Received by:		Date/Time		Cooler IDs		Report/QC Level	
Relinquished by:		Date/Time		Received by:		Date/Time					

Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **21-Jun-11 10:00**

Work Order: **1106560**

Received by: **DS**

Checklist completed by Diane Shaw 21-Jun-11
eSignature Date

Reviewed by: Ann Preston 21-Jun-11
eSignature Date

Matrices: Soil
Carrier name: FedEx

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No
- Temperature(s)/Thermometer(s):
- Cooler(s)/Kit(s):
- Water - VOA vials have zero headspace? Yes No No VOA vials submitted
- Water - pH acceptable upon receipt? Yes No N/A
- pH adjusted? Yes No N/A
- pH adjusted by:

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

CUSTODY SEAL

DATE

SIGNATURE

12/20/11
Reed Wdd

QEC

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

FedEx

Express

FedEx Tracking Number

8746 3274 4232

0200

Form 10 No.

FedEx Retrieval Copy

1 From
Date 6/20/11
Sender's FedEx Account Number

Sender's Name Reed Wdd
Phone 770 243-3271

Company HRK Compliance

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

City Grand Junction State CO ZIP 81506

2 Your Internal Billing Reference

3 To
Recipient's Name Simple Recovery
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 shipping address.

City Holland State MI ZIP 49424

4a Express Package Service * To most locations. Packages up to 150 lbs.

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. 06 FedEx First Overnight Earliest next business morning delivery to select locations.*

03 FedEx 2Day Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected. 20 FedEx Express Saver Third business day.* Saturday Delivery NOT available.

4b Express Freight Service ** To most locations. Packages over 150 lbs.

70 FedEx 1Day Freight Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected. FedEx 1Day Freight Booking No.

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 * Declared value limit \$500. 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

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: Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No.

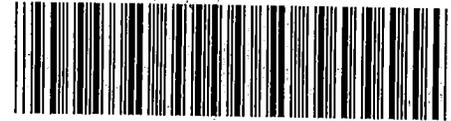
1 Sender Acct. No. in Section 1 of this form 2 Recipient 3 Third Party 4 Credit Card 5 Cash/Check

Total Packages Total Weight Credit Card Auth.

606

fedex.com 1.800.GoFedEx 1.800.463.3339

fedex.com 1.800.GoFedEx 1.800.463.3339



8746 3274 4232

Appendix 2: North Pit Bottom Additional Excavation Raw Analytical Data



18-Jul-2011

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

Re: **TR 11-5-697 Pad LOE 7/5/11**

Work Order: **1107193**

Dear Mark,

ALS Environmental received 1 sample 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 9.

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 ALS

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions
Project: TR 11-5-697 Pad LOE 7/5/11
Work Order: 1107193

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>
1107193-01	N. Bottom	Soil		7/5/2011 14:00	7/9/2011 11:00	<input type="checkbox"/>

Client: HRL Compliance Solutions
Project: TR 11-5-697 Pad LOE 7/5/11
WorkOrder: 1107193

**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
mg/Kg-dry	Milligrams per Kilogram Dry Weight

ALS Group USA, Corp

Date: 18-Jul-11

Client: HRL Compliance Solutions
Project: TR 11-5-697 Pad LOE 7/5/11
Sample ID: N. Bottom
Collection Date: 7/5/2011 02:00 PM

Work Order: 1107193
Lab ID: 1107193-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep Date: 7/14/2011	Analyst: RM
DRO (C10-C28)	170		4.3	mg/Kg-dry	1	7/14/2011 04:15 PM
<i>Surr: 4-Terphenyl-d14</i>	<i>100</i>		<i>39-115</i>	<i>%REC</i>	1	7/14/2011 04:15 PM
MOISTURE			A2540 G			Analyst: JS
Moisture	4.2		0.050	% of sample	1	7/11/2011 01:44 PM

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

Client: HRL Compliance Solutions

QC BATCH REPORT

Work Order: 1107193

Project: TR 11-5-697 Pad LOE 7/5/11

Batch ID: **34293** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-34293-34293			Units: mg/Kg		Analysis Date: 7/14/2011 08:57 AM			
Client ID:		Run ID: GC8_110714A			SeqNo: 1676835		Prep Date: 7/14/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	4.2								
<i>Surr: 4-Terphenyl-d14</i>	1.478	0	1.667	0	88.7	39-115	0			

LCS		Sample ID: DLCSS1-34293-34293			Units: mg/Kg		Analysis Date: 7/14/2011 12:12 PM			
Client ID:		Run ID: GC8_110714A			SeqNo: 1676843		Prep Date: 7/14/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	116.3	4.2	166.7	0	69.8	60-130	0			
<i>Surr: 4-Terphenyl-d14</i>	1.504	0	1.667	0	90.3	39-115	0			

LCSD		Sample ID: DLCSDS1-34293-34293			Units: mg/Kg		Analysis Date: 7/14/2011 12:36 PM			
Client ID:		Run ID: GC8_110714A			SeqNo: 1676831		Prep Date: 7/14/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	136.2	4.2	166.7	0	81.7	60-130	116.3	15.8	30	
<i>Surr: 4-Terphenyl-d14</i>	1.38	0	1.667	0	82.8	39-115	1.504	8.6	30	

MS		Sample ID: 1107189-01A MS			Units: mg/Kg		Analysis Date: 7/14/2011 12:36 PM			
Client ID:		Run ID: GC8_110714A			SeqNo: 1676844		Prep Date: 7/14/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	909.1	8.1	324.5	557.5	108	60-130	0			
<i>Surr: 4-Terphenyl-d14</i>	1.735	0	3.245	0	53.5	39-115	0			

MSD		Sample ID: 1107189-01A MSD			Units: mg/Kg		Analysis Date: 7/14/2011 01:00 PM			
Client ID:		Run ID: GC8_110714A			SeqNo: 1676832		Prep Date: 7/14/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	835.1	8.0	318.2	557.5	87.2	60-130	909.1	8.49	30	
<i>Surr: 4-Terphenyl-d14</i>	2.647	0	3.182	0	83.2	39-115	1.735	41.6	30	R

The following samples were analyzed in this batch: 1107193-01A

Client: HRL Compliance Solutions
Work Order: 1107193
Project: TR 11-5-697 Pad LOE 7/5/11

QC BATCH REPORT

Batch ID: **R92092** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS1-R92092			Units: % of sample			Analysis Date: 7/11/2011 01:44 PM		
Client ID:		Run ID: MOIST_110711A			SeqNo: 1674087		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-R92092			Units: % of sample			Analysis Date: 7/11/2011 01:44 PM		
Client ID:		Run ID: MOIST_110711A			SeqNo: 1674086		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: 1107174-01ADUP			Units: % of sample			Analysis Date: 7/11/2011 01:44 PM		
Client ID:		Run ID: MOIST_110711A			SeqNo: 1674078		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	50.49	0.050	0	0	0	0-0	51.46	1.9	20	

DUP		Sample ID: 1107189-01ADUP			Units: % of sample			Analysis Date: 7/11/2011 01:44 PM		
Client ID:		Run ID: MOIST_110711A			SeqNo: 1674083		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	10.28	0.050	0	0	0	0-0	10.54	2.5	20	

The following samples were analyzed in this batch: 1107193-01A

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



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

WORK ORDER #	1107193
PAGE	1 of 1

PROJECT NAME	TR 11-5-697 Pad LOE	SAMPLER	Reed Wold	DATE	7/5/2011	TURNAROUND	Standard	DISPOSAL	By Lab or Return to Client
PROJECT NO.		SITE ID	TR 11-5-697						
COMPANY NAME	HRL COMPLIANCE SOLUTIONS Inc.	EDDFORMAT							
SEND REPORT TO	Mark Mumby	PURCHASE ORDER							
ADDRESS	744 HORIZON CT SUITE 140	BILL TO COMPANY	Williams						
CITY/STATE/ZIP	GRAND JUNCTION CO 81506	INVOICE ATTN TO	Karolia Blaney						
PHONE	970-243-3271	ADDRESS	1058 co rd 215						
FAX	970-243-3280	CITY/STATE/ZIP	Parachute CO 81635						
EMAIL	Mmumby@hrlcomp.com	PHONE	970-683-2295						
		FAX	970-285-9573						
		EMAIL	Karolia.blaney@williams.com						
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC		
1	N. Bottom	SO	7/5/2011	2:00	1	8		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)
	<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
	Reed Wold	7/5/11	5 pm
	Keith Wierenga	7/9/11	1100
RELINQUISHED BY			
RECEIVED BY			
RELINQUISHED BY			
RECEIVED BY			
RELINQUISHED BY			
RECEIVED BY			

Sample Receipt Checklist

Client Name: **HRL**

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

Work Order: **1107193**

Received by: **KRW**

Checklist completed by Keith Warena 09-Jul-11
eSignature Date

Reviewed by: Ann Preston 13-Jul-11
eSignature Date

Matrices: Soil
Carrier name: FedEx

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s):

Cooler(s)/Kit(s):

Water - VOA vials have zero headspace? Yes No No VOA vials submitted

Water - pH acceptable upon receipt? Yes No N/A

pH adjusted? Yes No N/A

pH adjusted by:

Login Notes:



Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

From
 Date: 7/8/11 Sender's FedEx Account Number: _____
 Sender's Name: Reed D. L. B. Phone: 978 243-3271
 Company: HRB Compliance
 Address: 744 Horizon Ct Ste 146 Dept./Floor/Suite/Room: _____
 City: Grand Junction State: CO ZIP: 81606

Your Internal Billing Reference

To
 Recipient's Name: Sample Receiving Phone: 416 379-6270
 Company: ALS GROUP
 Address: 3252 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

01 **HOLD Weekday**
 FedEx location address REQUIRED. NOT available for FedEx First Overnight.
31 **HOLD Saturday**
 FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

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	
<input checked="" type="checkbox"/> 06	FedEx First Overnight Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.	<input type="checkbox"/> 49	NEW FedEx 2Day A.M. Second business morning. Saturday Delivery NOT available.
<input checked="" type="checkbox"/> 07	FedEx Priority Overnight Next business morning. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.	<input type="checkbox"/> 03	FedEx 2Day Second business afternoon. Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
<input type="checkbox"/> 05	FedEx Standard Overnight Next business afternoon. Saturday Delivery NOT available.	<input type="checkbox"/> 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. 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, 3, 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:

Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No.

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

Total Packages: 1 Total Weight: 31 lbs. Credit Card Auth. _____



8758 3475 6105

612

Appendix 3: Background Raw Analytical Data

ALS Group USA, Corp

Date: 28-Jun-11

Client: HRL Compliance Solutions
Project: TR 11-5-697 Pad LOE 6/19/11
Sample ID: BK 1
Collection Date: 6/19/2011 01:15 PM

Work Order: 1106560
Lab ID: 1106560-07
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep Date: 6/23/2011	Analyst: RH
Arsenic	7.5		0.75	mg/Kg-dry	2	6/24/2011 11:55 PM
SUBCONTRACTED ANALYSES			SUBCONTRACT			Analyst: A&LGL
Subcontracted Analyses	Rcvd 6/27/11		attached		1	6/27/2011
MOISTURE			A2540 G			Analyst: JS
Moisture	7.5		0.050	% of sample	1	6/22/2011 12:10 PM
PH			SW9045D			Analyst: JS
pH	6.93			s.u.	1	6/22/2011 08:30 AM

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

ALS Group USA, Corp

Date: 28-Jun-11

Client: HRL Compliance Solutions
Project: TR 11-5-697 Pad LOE 6/19/11
Sample ID: BK 2
Collection Date: 6/19/2011 01:20 PM

Work Order: 1106560
Lab ID: 1106560-08
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep Date: 6/23/2011	Analyst: RH
Arsenic	7.4		0.67	mg/Kg-dry	2	6/25/2011 12:01 AM
MOISTURE			A2540 G			Analyst: JS
Moisture	3.2		0.050	% of sample	1	6/22/2011 12:10 PM

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

ALS Group USA, Corp

Date: 28-Jun-11

Client: HRL Compliance Solutions
Project: TR 11-5-697 Pad LOE 6/19/11
Sample ID: BK 3
Collection Date: 6/19/2011 01:25 PM

Work Order: 1106560
Lab ID: 1106560-09
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep Date: 6/23/2011	Analyst: RH
Arsenic	6.7		0.68	mg/Kg-dry	2	6/25/2011 12:07 AM
MOISTURE			A2540 G			Analyst: JS
Moisture	3.2		0.050	% of sample	1	6/22/2011 12:10 PM

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

Appendix 4: Sundry Notice Form 4

1. OGCC Operator Number: <u>96850</u> 2. Name of Operator: <u>Williams Production RMT Company</u> 3. Address: <u>1058 County Road 215</u> City: <u>Parachute</u> State: <u>CO</u> Zip: <u>81635</u>	4. Contact Name <u>Karolina Blaney</u> Phone: <u>970-683-2295</u> Fax: <u>970-285-9573</u>	Complete the Attachment Checklist OP OGCC
5. API Number <u>05- N/A</u> OGCC Facility ID Number <u>422268</u>		Survey Plat
6. Well/Facility Name: <u>Chevron TR 11-5-697</u> 7. Well/Facility Number <u>TR 11-5-697</u>		Directional Survey
8. Location (QtrQtr, Sec, Twp, Rng, Meridian): <u>NWNW, Sec 5, T6S, R97W, 6th PM</u>		Surface Eqpmt Diagram
9. County: <u>Garfield</u> 10. Field Name: <u>Trail Ridge</u>		Technical Info Page <input checked="" type="checkbox"/>
11. Federal, Indian or State Lease Number: _____		Other

General Notice

<input type="checkbox"/> CHANGE OF LOCATION: Attach New Survey Plat (a change of surface qtr/qtr is substantive and requires a new permit)															
	FNL/FSL		FEL/FWL												
Change of Surface Footage from Exterior Section Lines:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
Change of Surface Footage to Exterior Section Lines:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
Change of Bottomhole Footage from Exterior Section Lines:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
Change of Bottomhole Footage to Exterior Section Lines:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
Bottomhole location Qtr/Qtr, 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 <input type="checkbox"/> Ground Elevation _____ Distance to nearest well same formation _____ Surface owner consultation date: _____			attach directional survey												
GPS DATA: Date of Measurement _____ PDOP Reading _____ Instrument Operator's Name _____															
<input type="checkbox"/> CHANGE SPACING UNIT Formation _____ Formation Code _____ Spacing order number _____ Unit Acreage _____ Unit configuration _____			<input type="checkbox"/> Remove from surface bond Signed surface use agreement attached												
<input type="checkbox"/> CHANGE OF OPERATOR (prior to drilling): Effective Date: _____ Plugging Bond: <input type="checkbox"/> Blanket <input type="checkbox"/> Individual		<input type="checkbox"/> CHANGE WELL NAME NUMBER From: _____ To: _____ Effective Date: _____													
<input type="checkbox"/> ABANDONED LOCATION: Was location ever built? <input type="checkbox"/> Yes <input type="checkbox"/> No Is site ready for inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No Date Ready for Inspection: _____		<input type="checkbox"/> NOTICE OF CONTINUED SHUT IN STATUS Date well shut in or temporarily abandoned: _____ Has Production Equipment been removed from site? <input type="checkbox"/> Yes <input type="checkbox"/> No MIT required if shut in longer than two years. Date of last MIT _____													
<input type="checkbox"/> SPUD DATE: _____		<input type="checkbox"/> REQUEST FOR CONFIDENTIAL STATUS (6 mos from date casing set)													
<input type="checkbox"/> SUBSEQUENT REPORT OF STAGE, SQUEEZE OR REMEDIAL CEMENT WORK *submit cbl and cement job summaries <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:15%;">Method used</th> <th style="width:25%;">Cementing tool setting/perf depth</th> <th style="width:20%;">Cement volume</th> <th style="width:15%;">Cement top</th> <th style="width:15%;">Cement bottom</th> <th style="width:10%;">Date</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				Method used	Cementing tool setting/perf depth	Cement volume	Cement top	Cement bottom	Date						
Method used	Cementing tool setting/perf depth	Cement volume	Cement top	Cement bottom	Date										
<input type="checkbox"/> RECLAMATION: Attach technical page describing final reclamation procedures per Rule 1004. Final reclamation will commence on approximately _____ <input type="checkbox"/> Final reclamation is completed and site is ready for inspection.															

Technical Engineering/Environmental Notice

<input type="checkbox"/> Notice of Intent Approximate Start Date: _____		<input type="checkbox"/> Report of Work Done Date Work Completed: _____	
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 type="checkbox"/> Status Update/Change of Remediation Plans	
<input type="checkbox"/> Casing/Cementing Program Change	<input checked="" type="checkbox"/> Other: <u>Background</u>	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: 8/15/2011 Email: Karolina.Blaney@williams.com
 Print Name: Karolina Blaney Title: Environmental Specialist

COGCC Approved: _____ Title: _____ Date: _____

CONDITIONS OF APPROVAL, IF ANY:

1. OGCC Operator Number: <u>96850</u> API Number: <u>N/A</u>
2. Name of Operator: <u>Williams Production RMT</u> OGCC Facility ID # <u>422268</u>
3. Well/Facility Name: <u>Chevron TR 11-5-697</u> Well/Facility Number: <u>TR 11-5-697</u>
4. Location (QtrQtr, Sec, Twp, Rng, Meridian): <u>NWNW, Sec 5, T6S, R97W, 6PM</u>

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**

This COGCC Form 4 is being submitted as a request to consider the background concentration levels for arsenic at the Chevron TR 11-5-697 well pad relative to production pit closure at the subject facility in accordance with footnote 1 to the COGCC Table 9101-1.

The request is based on the analytical results below (see attached analytical)

Six (6) grab samples were collected from locations within the pit footprint at depths of approximately 18' to 18.6' below pad grade to ascertain the arsenic concentrations of the facility.

- Pit Bottom - North End - 11mg/kg
- Pit Bottom - South End - 9.4 mg/kg
- East Wall - 11 mg/kg
- South Wall - 7.1 mg/kg
- West Wall - 5.5 mg/kg
- North Wall - 9.8 mg/kg

Three (3) grab samples were collected from nearby non-impacted, native soil from surface to 6" below to establish the background arsenic concentrations.

- BKGD 1 - 7.5 mg/kg
- BKGD 2 - 7.5 mg/kg
- BKGD 3 - 5.6 mg/kg

Williams is requesting this approval in order to proceed with closure and reclamation of the production pit on the Chevron TR 11-5-697 well pad.

ALS Group USA, Corp

Date: 28-Jun-11

Client: HRL Compliance Solutions
Project: TR 11-5-697 Pad LOE 6/19/11
Sample ID: BK 1
Collection Date: 6/19/2011 01:15 PM

Work Order: 1106560
Lab ID: 1106560-07
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep Date: 6/23/2011	Analyst: RH
Arsenic	7.5		0.75	mg/Kg-dry	2	6/24/2011 11:55 PM
SUBCONTRACTED ANALYSES			SUBCONTRACT			Analyst: A&LGL
Subcontracted Analyses	Rcvd 6/27/11		attached		1	6/27/2011
MOISTURE			A2540 G			Analyst: JS
Moisture	7.5		0.050	% of sample	1	6/22/2011 12:10 PM
PH			SW9045D			Analyst: JS
pH	6.93			s.u.	1	6/22/2011 08:30 AM

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

ALS Group USA, Corp

Date: 28-Jun-11

Client: HRL Compliance Solutions
Project: TR 11-5-697 Pad LOE 6/19/11
Sample ID: BK 2
Collection Date: 6/19/2011 01:20 PM

Work Order: 1106560
Lab ID: 1106560-08
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep Date: 6/23/2011	Analyst: RH
Arsenic	7.4		0.67	mg/Kg-dry	2	6/25/2011 12:01 AM
MOISTURE			A2540 G			Analyst: JS
Moisture	3.2		0.050	% of sample	1	6/22/2011 12:10 PM

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

ALS Group USA, Corp

Date: 28-Jun-11

Client: HRL Compliance Solutions
Project: TR 11-5-697 Pad LOE 6/19/11
Sample ID: BK 3
Collection Date: 6/19/2011 01:25 PM

Work Order: 1106560
Lab ID: 1106560-09
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep Date: 6/23/2011	Analyst: RH
Arsenic	6.7		0.68	mg/Kg-dry	2	6/25/2011 12:07 AM
MOISTURE			A2540 G			Analyst: JS
Moisture	3.2		0.050	% of sample	1	6/22/2011 12:10 PM

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



04	05	06	07

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.)

1. OGCC Operator Number: 96850	4. Contact Name: Karolina Blaney	Complete the Attachment Checklist OP OGCC
2. Name of Operator: Williams Production RMT Company	Phone: 970-683-2295	
3. Address: 1058 County Road 215 City: Parachute State: CO Zip: 81635	Fax: 970-285-9573	
5. API Number 05- N/A	OGCC Facility ID Number 422268	Survey Plat
6. Well/Facility Name: Chevron TR 11-5-697	7. Well/Facility Number TR 11-5-697	Directional Survey
8. Location (Qtr/Qtr, Sec, Twp, Rng, Meridian): NWNW, Sec 5, T6S, R97W, 6th PM		Surface Eqmpt Diagram
9. County: Garfield	10. Field Name: Trail Ridge	Technical Info Page <input checked="" type="checkbox"/>
11. Federal, Indian or State Lease Number:		Other

General Notice

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

Change of Surface Footage from Exterior Section Lines:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Change of Surface Footage to Exterior Section Lines:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Change of Bottomhole Footage from Exterior Section Lines:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Change of Bottomhole Footage to Exterior Section Lines:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> attach directional survey

Bottomhole location Qtr/Qtr, 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 (5 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

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: _____

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 type="checkbox"/> Status Update/Change of Remediation Plans
<input type="checkbox"/> Casing/Cementing Program Change	<input checked="" type="checkbox"/> Other: Background	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: 8/15/2011 Email: Karolina.Blaney@williams.com
 Print Name: Karolina Blaney Title: Environmental Specialist

COGCC Approved: Chris Camfield Title: FOR Date: 09/21/2011
 CONDITIONS OF APPROVAL, IF ANY: Chris Camfield
EPS NW Region

1. OGCC Operator Number: <u>96850</u> API Number: <u>N/A</u>
2. Name of Operator: <u>Williams Production RMT</u> OGCC Facility ID # <u>422268</u>
3. Well/Facility Name: <u>Chevron TR 11-5-697</u> Well/Facility Number: <u>TR 11-5-697</u>
4. Location (QtrQtr, Sec, Twp, Rng, Meridian): <u>NWNW, Sec 5, T6S, R97W, 6PM</u>

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.

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The request is based on the analytical results below (see attached analytical)

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- Pit Bottom - South End - 9.4 mg/kg
- East Wall - 11 mg/kg
- South Wall - 7.1 mg/kg
- West Wall - 5.5 mg/kg
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Three (3) grab samples were collected from nearby non-impacted, native soil from surface to 6" below to establish the background arsenic concentrations.

- BKGD 1 - 7.5 mg/kg
- BKGD 2 - 7.5 mg/kg
- BKGD 3 - 5.6 mg/kg

Williams is requesting this approval in order to proceed with closure and reclamation of the production pit on the Chevron TR 11-5-697 well pad.

ALS Group USA, Corp

Date: 28-Jun-11

Client: HRL Compliance Solutions
Project: TR 11-5-697 Pad LOE 6/19/11
Sample ID: BK 2
Collection Date: 6/19/2011 01:20 PM

Work Order: 1106560
Lab ID: 1106560-08
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep Date: 6/23/2011	Analyst: RH
Arsenic	7.4		0.67	mg/Kg-dry	2	6/25/2011 12:01 AM
MOISTURE			A2540 G			Analyst: JS
Moisture	3.2		0.050	% of sample	1	6/22/2011 12:10 PM

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

ALS Group USA, Corp

Date: 28-Jun-11

Client: HRL Compliance Solutions
 Project: TR 11-5-697 Pad LOE 6/19/11
 Sample ID: BK 1
 Collection Date: 6/19/2011 01:15 PM

Work Order: 1106560
 Lab ID: 1106560-07
 Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS						
Arsenic	7.5		SW6020A 0.75	mg/Kg-dry	Prep Date: 6/23/2011 2	Analyst: RH 6/24/2011 11:55 PM
SUBCONTRACTED ANALYSES						
Subcontracted Analyses	Rcvd 6/27/11		SUBCONTRACT	attached	1	Analyst: A&LGL 6/27/2011
MOISTURE						
Moisture	7.5		A2540 G 0.050	% of sample	1	Analyst: JS 6/22/2011 12:10 PM
PH						
pH	6.93		SW9045D	s.u.	1	Analyst: JS 6/22/2011 08:30 AM

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

ALS Group USA, Corp

Date: 28-Jun-11

Client: HRL Compliance Solutions
Project: TR 11-5-697 Pad LOE 6/19/11
Sample ID: BK 3
Collection Date: 6/19/2011 01:25 PM

Work Order: 1106560
Lab ID: 1106560-09
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep Date: 6/23/2011	Analyst: RH
Arsenic	6.7		0.68	mg/Kg-dry	2	6/25/2011 12:07 AM
MOISTURE			A2540 G			Analyst: JS
Moisture	3.2		0.050	% of sample	1	6/22/2011 12:10 PM

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



23-Aug-2011

Kris Rowe
HRL Compliance Solutions
744 Horizon Ct. Suite 140
Grand Junction, CO 81506

Re: **TR 11-5-697 Treatment Cell 8/12/11**

Work Order: **1108493**

Dear Kris,

ALS Environmental received 1 sample on 16-Aug-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 12.

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 ALS

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions
Project: TR 11-5-697 Treatment Cell 8/12/11
Work Order: 1108493

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>
1108493-01	Treatment Cell	Soil		8/12/2011 10:30	8/16/2011 10:00	<input type="checkbox"/>

Client: HRL Compliance Solutions
Project: TR 11-5-697 Treatment Cell 8/12/11
WorkOrder: 1108493

**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	Micrograms per Kilogram Dry Weight
mg/Kg-dry	Milligrams per Kilogram Dry Weight

ALS Group USA, Corp

Date: 23-Aug-11

Client: HRL Compliance Solutions
Project: TR 11-5-697 Treatment Cell 8/12/11
Sample ID: Treatment Cell
Collection Date: 8/12/2011 10:30 AM

Work Order: 1108493
Lab ID: 1108493-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep Date: 8/18/2011	Analyst: RM
DRO (C10-C28)	300		4.5	mg/Kg-dry	1	8/19/2011 04:36 PM
<i>Surr: 4-Terphenyl-d14</i>	<i>77.1</i>		<i>39-115</i>	<i>%REC</i>	1	8/19/2011 04:36 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015			Analyst: RM
GRO (C6-C10)	ND		5.4	mg/Kg-dry	100	8/19/2011 05:54 PM
<i>Surr: Toluene-d8</i>	<i>102</i>		<i>50-150</i>	<i>%REC</i>	100	8/19/2011 05:54 PM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: AK
Benzene	ND		110	µg/Kg-dry	100	8/19/2011 06:04 PM
Ethylbenzene	ND		110	µg/Kg-dry	100	8/19/2011 06:04 PM
m,p-Xylene	ND		110	µg/Kg-dry	100	8/19/2011 06:04 PM
o-Xylene	ND		110	µg/Kg-dry	100	8/19/2011 06:04 PM
Toluene	ND		110	µg/Kg-dry	100	8/19/2011 06:04 PM
Xylenes, Total	ND		330	µg/Kg-dry	100	8/19/2011 06:04 PM
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>103</i>		<i>70-120</i>	<i>%REC</i>	100	8/19/2011 06:04 PM
<i>Surr: 4-Bromofluorobenzene</i>	<i>101</i>		<i>75-120</i>	<i>%REC</i>	100	8/19/2011 06:04 PM
<i>Surr: Dibromofluoromethane</i>	<i>95.8</i>		<i>85-115</i>	<i>%REC</i>	100	8/19/2011 06:04 PM
<i>Surr: Toluene-d8</i>	<i>98.7</i>		<i>85-115</i>	<i>%REC</i>	100	8/19/2011 06:04 PM
MOISTURE			A2540 G			Analyst: CG
Moisture	8.2		0.050	% of sample	1	8/17/2011 12:23 PM

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

Client: HRL Compliance Solutions
Work Order: 1108493
Project: TR 11-5-697 Treatment Cell 8/12/11

QC BATCH REPORT

Batch ID: **34980** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-34980-34980			Units: mg/Kg		Analysis Date: 8/19/2011 03:03 PM			
Client ID:		Run ID: GC8_110819A			SeqNo: 1712847		Prep Date: 8/18/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	4.2								
<i>Surr: 4-Terphenyl-d14</i>	1.452	0	1.667	0	87.1	39-115	0			

LCS		Sample ID: DLCSS1-34980-34980			Units: mg/Kg		Analysis Date: 8/19/2011 01:54 PM			
Client ID:		Run ID: GC8_110819A			SeqNo: 1712845		Prep Date: 8/18/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	162.2	4.2	166.7	0	97.4	60-130	0			
<i>Surr: 4-Terphenyl-d14</i>	1.06	0	1.667	0	63.6	39-115	0			

LCSD		Sample ID: DLCSDS1-34980-34980			Units: mg/Kg		Analysis Date: 8/19/2011 02:17 PM			
Client ID:		Run ID: GC8_110819A			SeqNo: 1712827		Prep Date: 8/18/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	180.9	4.2	166.7	0	109	60-130	162.2	10.8	30	
<i>Surr: 4-Terphenyl-d14</i>	1.35	0	1.667	0	81	39-115	1.06	24.1	30	

MS		Sample ID: 1108553-01A MS			Units: mg/Kg		Analysis Date: 8/19/2011 02:17 PM			
Client ID:		Run ID: GC8_110819A			SeqNo: 1712846		Prep Date: 8/18/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	313.4	7.9	315.9	5.225	97.6	60-130	0			
<i>Surr: 4-Terphenyl-d14</i>	2.142	0	3.159	0	67.8	39-115	0			

MSD		Sample ID: 1108553-01A MSD			Units: mg/Kg		Analysis Date: 8/19/2011 02:40 PM			
Client ID:		Run ID: GC8_110819A			SeqNo: 1712828		Prep Date: 8/18/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	309.1	8.2	326.7	5.225	93	60-130	313.4	1.39	30	
<i>Surr: 4-Terphenyl-d14</i>	2.216	0	3.267	0	67.8	39-115	2.142	3.43	30	

The following samples were analyzed in this batch: 1108493-01B

Client: HRL Compliance Solutions
 Work Order: 1108493
 Project: TR 11-5-697 Treatment Cell 8/12/11

QC BATCH REPORT

Batch ID: **R93673** Instrument ID **GC9** Method: **SW8015**

MBLK		Sample ID: MBLK-R93673-R93673				Units: µg/L		Analysis Date: 8/19/2011 12:45 PM		
Client ID:		Run ID: GC9_110819A				SeqNo: 1712452		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>	96.28	0	100	0	96.3	70-130	0			

LCS		Sample ID: LCS-R93673-R93673				Units: µg/L		Analysis Date: 8/19/2011 11:28 AM		
Client ID:		Run ID: GC9_110819A				SeqNo: 1712450		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)	22830	200	25000	0	91.3	70-130	0			
<i>Surr: Toluene-d8</i>	89.44	0	100	0	89.4	70-130	0			

LCSD		Sample ID: LCSD-R93673-R93673				Units: µg/L		Analysis Date: 8/19/2011 11:54 AM		
Client ID:		Run ID: GC9_110819A				SeqNo: 1712451		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)	22310	200	25000	0	89.2	70-130	22830	2.32	30	
<i>Surr: Toluene-d8</i>	87.67	0	100	0	87.7	70-130	89.44	2	30	

MS		Sample ID: 1108598-05A MS				Units: µg/Kg		Analysis Date: 8/19/2011 09:55 PM		
Client ID:		Run ID: GC9_110819A				SeqNo: 1712473		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)	1282000	2,500	1250000	0	103	70-130	0			
<i>Surr: Toluene-d8</i>	4972	0	5000	0	99.4	50-150	0			

MSD		Sample ID: 1108598-05A MSD				Units: µg/Kg		Analysis Date: 8/19/2011 10:21 PM		
Client ID:		Run ID: GC9_110819A				SeqNo: 1712474		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)	1239000	2,500	1250000	0	99.1	70-130	1282000	3.43	30	
<i>Surr: Toluene-d8</i>	4952	0	5000	0	99	50-150	4972	0.403	30	

The following samples were analyzed in this batch: | 1108493-01A |

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

Client: HRL Compliance Solutions
 Work Order: 1108493
 Project: TR 11-5-697 Treatment Cell 8/12/11

QC BATCH REPORT

Batch ID: **R93597** Instrument ID **VMS8** Method: **SW8260**

MBLK		Sample ID: VBLKW1-110819-R93597			Units: µg/L		Analysis Date: 8/19/2011 12:53 PM			
Client ID:		Run ID: VMS8_110819A			SeqNo: 1712429		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>102.4</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>99.15</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>99.2</i>	<i>75-120</i>	<i>0</i>			
<i>Surr: Dibromofluoromethane</i>	<i>99.45</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>99.4</i>	<i>85-115</i>	<i>0</i>			
<i>Surr: Toluene-d8</i>	<i>100.2</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>100</i>	<i>85-120</i>	<i>0</i>			

LCS		Sample ID: VLCSW1-110819-R93597			Units: µg/L		Analysis Date: 8/19/2011 10:39 AM			
Client ID:		Run ID: VMS8_110819A			SeqNo: 1710172		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	21.38	1.0	20	0	107	80-120	0			
Ethylbenzene	21.34	1.0	20	0	107	75-125	0			
m,p-Xylene	43.05	2.0	40	0	108	75-130	0			
o-Xylene	20.95	1.0	20	0	105	80-120	0			
Toluene	21.66	1.0	20	0	108	75-120	0			
Xylenes, Total	64	2.0	60	0	107	75-130	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>101.5</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>99.72</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>99.7</i>	<i>75-120</i>	<i>0</i>			
<i>Surr: Dibromofluoromethane</i>	<i>103.5</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>104</i>	<i>85-115</i>	<i>0</i>			
<i>Surr: Toluene-d8</i>	<i>99.53</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>99.5</i>	<i>85-120</i>	<i>0</i>			

LCSD		Sample ID: VLCSW2-118019-R93597			Units: µg/L		Analysis Date: 8/19/2011 11:54 AM			
Client ID:		Run ID: VMS8_110819A			SeqNo: 1710381		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	21.31	1.0	20	0	107	80-120	21.38	0.328	30	
Ethylbenzene	21.23	1.0	20	0	106	75-125	21.34	0.517	30	
m,p-Xylene	42.59	2.0	40	0	106	75-130	43.05	1.07	30	
o-Xylene	20.76	1.0	20	0	104	80-120	20.95	0.911	30	
Toluene	21.62	1.0	20	0	108	75-120	21.66	0.185	30	
Xylenes, Total	63.35	2.0	60	0	106	75-130	64	1.02	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>102.3</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>102</i>	<i>70-120</i>	<i>101.5</i>	<i>0.756</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>99.72</i>	<i>0.49</i>	<i>30</i>	
<i>Surr: Dibromofluoromethane</i>	<i>102.4</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>102</i>	<i>85-115</i>	<i>103.5</i>	<i>1.06</i>	<i>30</i>	
<i>Surr: Toluene-d8</i>	<i>99.82</i>	<i>0</i>	<i>100</i>	<i>0</i>	<i>99.8</i>	<i>85-120</i>	<i>99.53</i>	<i>0.291</i>	<i>30</i>	

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

Client: HRL Compliance Solutions
 Work Order: 1108493
 Project: TR 11-5-697 Treatment Cell 8/12/11

QC BATCH REPORT

Batch ID: **R93597** Instrument ID **VMS8** Method: **SW8260**

MS				Sample ID: 1108599-02A MS			Units: µg/L		Analysis Date: 8/19/2011 09:14 PM		
Client ID:				Run ID: VMS8_110819A			SeqNo: 1712435		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	22.12	1.0	20	0	111	80-120	0				
Ethylbenzene	22.79	1.0	20	0	114	75-125	0				
m,p-Xylene	48.32	2.0	40	0	121	75-130	0				
o-Xylene	23.63	1.0	20	0	118	80-120	0				
Toluene	21.34	1.0	20	0.81	103	75-120	0				
Xylenes, Total	71.95	2.0	60	0	120	75-130	0				
Surr: 1,2-Dichloroethane-d4	100.8	0	100	0	101	70-120	0				
Surr: 4-Bromofluorobenzene	111.9	0	100	0	112	75-120	0				
Surr: Dibromofluoromethane	104	0	100	0	104	85-115	0				
Surr: Toluene-d8	93.57	0	100	0	93.6	85-120	0				

MSD				Sample ID: 1108599-02A MSD			Units: µg/L		Analysis Date: 8/19/2011 09:38 PM		
Client ID:				Run ID: VMS8_110819A			SeqNo: 1712436		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	21.49	1.0	20	0	107	80-120	22.12	2.89	30		
Ethylbenzene	21.39	1.0	20	0	107	75-125	22.79	6.34	30		
m,p-Xylene	44.02	2.0	40	0	110	75-130	48.32	9.31	30		
o-Xylene	21.43	1.0	20	0	107	80-120	23.63	9.76	30		
Toluene	21.2	1.0	20	0.81	102	75-120	21.34	0.658	30		
Xylenes, Total	65.45	2.0	60	0	109	75-130	71.95	9.46	30		
Surr: 1,2-Dichloroethane-d4	101.7	0	100	0	102	70-120	100.8	0.879	30		
Surr: 4-Bromofluorobenzene	105	0	100	0	105	75-120	111.9	6.4	30		
Surr: Dibromofluoromethane	104.5	0	100	0	104	85-115	104	0.451	30		
Surr: Toluene-d8	97.54	0	100	0	97.5	85-120	93.57	4.15	30		

The following samples were analyzed in this batch: 1108493-01A

Client: HRL Compliance Solutions
Work Order: 1108493
Project: TR 11-5-697 Treatment Cell 8/12/11

QC BATCH REPORT

Batch ID: **R93535** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS1-R93535			Units: % of sample			Analysis Date: 8/17/2011 12:23 PM		
Client ID:		Run ID: MOIST_110817A			SeqNo: 1709098		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-R93535			Units: % of sample			Analysis Date: 8/17/2011 12:23 PM		
Client ID:		Run ID: MOIST_110817A			SeqNo: 1709097		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: 1108487-01ADUP			Units: % of sample			Analysis Date: 8/17/2011 12:23 PM		
Client ID:		Run ID: MOIST_110817A			SeqNo: 1709044		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	10.26	0.050	0	0	0	0-0	10.68	4.01	20	

DUP		Sample ID: 1108502-06ADUP			Units: % of sample			Analysis Date: 8/17/2011 12:23 PM		
Client ID:		Run ID: MOIST_110817A			SeqNo: 1709085		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	4.06	0.050	0	0	0	0-0	3.36	18.9	20	

The following samples were analyzed in this batch: 1108493-01B

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

Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **16-Aug-11 10:00**

Work Order: **1108493**

Received by: **DS**

Checklist completed by Diane Shaw 16-Aug-11
eSignature Date

Reviewed by: Ann Preston 18-Aug-11
eSignature Date

Matrices: Soil
Carrier name: FedEx

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No
- Temperature(s)/Thermometer(s):
- Cooler(s)/Kit(s):
- Water - VOA vials have zero headspace? Yes No No VOA vials submitted
- Water - pH acceptable upon receipt? Yes No N/A
- pH adjusted? Yes No N/A
- pH adjusted by:

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

CUSTODY SEAL

DATE

SIGNATURE

FedEx Tracking Number

8758 3471 3823

Form ID No.

QEC

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

FedEx NEW Package Express US Airbill

FedEx Retrieval Copy

1 From Date 8/15/11 Sender's FedEx Account Number

Sender's Name DAN PINEGAR Phone 970 243-3271

Company HCSI

Address 794 HORIZON Ct. Ste. 140 Dept./Floor/Suite/Room

City GRAND JUNCTION State CO ZIP 81506

2 Your Internal Billing Reference

3 To Recipient's Name SAMPLE RECEIVING Phone 416 399-6070

Company ALS GROUP

Address 3352 128th Ave Dept./Floor/Suite/Room
We cannot deliver to P.O. boxes or P.O. ZIP codes.

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

City HOLLAND State MI ZIP 49427

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.

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

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

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

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

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. 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, 3, 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:

Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No.

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 47 lbs.

Credit Card Auth.

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

612

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02-Sep-2011

Kris Rowe
HRL Compliance Solutions
744 Horizon Ct. Suite 140
Grand Junction, CO 81506

Re: **TR 11-5-697 Treatment Cell 8/25/11**

Work Order: **1108869**

Dear Kris,

ALS Environmental received 1 sample on 27-Aug-2011 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 24.

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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RIGHT SOLUTIONS RIGHT PARTNER

Client: HRL Compliance Solutions
Project: TR 11-5-697 Treatment Cell 8/25/11
Work Order: 1108869

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>
1108869-01	TR 11-5-697 Treatment Cell	Soil		8/25/2011 16:00	8/27/2011 10:15	<input type="checkbox"/>

Client: HRL Compliance Solutions
Project: TR 11-5-697 Treatment Cell 8/25/11
Work Order: 1108869

Case Narrative

Batch 35196 MS/MSD data for Metals is not related to this project's samples.

Client: HRL Compliance Solutions
Project: TR 11-5-697 Treatment Cell 8/25/11
WorkOrder: 1108869

**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

ALS Group USA, Corp

Date: 02-Sep-11

Client: HRL Compliance Solutions
Project: TR 11-5-697 Treatment Cell 8/25/11
Sample ID: TR 11-5-697 Treatment Cell
Collection Date: 8/25/2011 04:00 PM

Work Order: 1108869
Lab ID: 1108869-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			SW7471		Prep Date: 8/27/2011	Analyst: LR
Mercury	0.023		0.019	mg/Kg-dry	1	8/29/2011 01:56 PM
METALS BY ICP-MS			SW6020A		Prep Date: 8/29/2011	Analyst: CES
Arsenic	6.8		0.73	mg/Kg-dry	2	8/31/2011 11:37 AM
Barium	480		7.3	mg/Kg-dry	20	8/31/2011 11:32 AM
Cadmium	1.2		0.29	mg/Kg-dry	2	8/31/2011 11:37 AM
Chromium	45		0.73	mg/Kg-dry	2	8/31/2011 06:13 AM
Copper	17		0.73	mg/Kg-dry	2	8/31/2011 06:13 AM
Lead	16		0.73	mg/Kg-dry	2	8/31/2011 06:13 AM
Nickel	27		0.73	mg/Kg-dry	2	8/31/2011 06:13 AM
Selenium	1.5		0.73	mg/Kg-dry	2	8/31/2011 06:13 AM
Silver	ND		0.73	mg/Kg-dry	2	8/31/2011 06:13 AM
Zinc	69		1.5	mg/Kg-dry	2	8/31/2011 11:37 AM
SUBCONTRACTED ANALYSES			SUBCONTRACT			Analyst: A&LGL
Subcontracted Analyses		Rcvd 9/2/11	as noted		1	9/2/2011
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270		Prep Date: 8/29/2011	Analyst: CW
Acenaphthene	ND		32	µg/Kg-dry	1	8/30/2011 02:36 PM
Anthracene	ND		32	µg/Kg-dry	1	8/30/2011 02:36 PM
Benzo(a)anthracene	ND		32	µg/Kg-dry	1	8/30/2011 02:36 PM
Benzo(a)pyrene	ND		32	µg/Kg-dry	1	8/30/2011 02:36 PM
Benzo(b)fluoranthene	ND		32	µg/Kg-dry	1	8/30/2011 02:36 PM
Benzo(g,h,i)perylene	ND		32	µg/Kg-dry	1	8/30/2011 02:36 PM
Benzo(k)fluoranthene	ND		32	µg/Kg-dry	1	8/30/2011 02:36 PM
Chrysene	ND		32	µg/Kg-dry	1	8/30/2011 02:36 PM
Dibenzo(a,h)anthracene	ND		32	µg/Kg-dry	1	8/30/2011 02:36 PM
Fluoranthene	ND		32	µg/Kg-dry	1	8/30/2011 02:36 PM
Fluorene	ND		32	µg/Kg-dry	1	8/30/2011 02:36 PM
Indeno(1,2,3-cd)pyrene	ND		32	µg/Kg-dry	1	8/30/2011 02:36 PM
Naphthalene	ND		32	µg/Kg-dry	1	8/30/2011 02:36 PM
Pyrene	ND		32	µg/Kg-dry	1	8/30/2011 02:36 PM
Surr: 2,4,6-Tribromophenol	80.9		34-140	%REC	1	8/30/2011 02:36 PM
Surr: 2-Fluorobiphenyl	70.6		12-100	%REC	1	8/30/2011 02:36 PM
Surr: 2-Fluorophenol	74.5		33-117	%REC	1	8/30/2011 02:36 PM
Surr: 4-Terphenyl-d14	112		25-137	%REC	1	8/30/2011 02:36 PM
Surr: Nitrobenzene-d5	75.4		37-107	%REC	1	8/30/2011 02:36 PM
Surr: Phenol-d6	75.3		40-106	%REC	1	8/30/2011 02:36 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JJG
Chromium, Trivalent	45			mg/kg-dry	1	9/2/2011 02:35 PM

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

ALS Group USA, Corp

Date: 02-Sep-11

Client: HRL Compliance Solutions**Project:** TR 11-5-697 Treatment Cell 8/25/11**Work Order:** 1108869**Sample ID:** TR 11-5-697 Treatment Cell**Lab ID:** 1108869-01**Collection Date:** 8/25/2011 04:00 PM**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
CHROMIUM, HEXAVALENT			SW7196A		Prep Date: 9/1/2011	Analyst: MB
Chromium, Hexavalent	ND		0.52	mg/Kg-dry	1	9/2/2011 01:00 PM
MOISTURE			A2540 G			Analyst: CG
Moisture	7.9		0.050	% of sample	1	8/29/2011 11:39 AM
PH			SW9045D			Analyst: JJG
pH	8.46			s.u.	1	8/30/2011 10:15 AM

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

Report Number: F11243-0164

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: 1108869

DATE RECEIVED: 08/31/2011

DATE REPORTED: 09/02/2011

PAGE: 1

P.O. NUMBER: 20-122010664

ATTN: ANN PRESTON

REPORT OF ANALYSIS

LAB NO.	SAMPLE ID	ANALYSIS	RESULT	UNIT	METHOD
81613	01B	Sat'd Paste Extraction with DIW	1		USDA Handbook 60
		Conductivity (ECe)	1.16	mmho/cm	USDA Handbook 60
		Calcium (Sat'd Paste)	35	ppm	USDA Handbook 60
		Magnesium (Sat'd Paste)	11	ppm	USDA Handbook 60
		Sodium (Sat'd Paste)	1031	ppm	USDA Handbook 60
		Sodium Adsorption Ratio	38.8	-	USDA Handbook 60

Client: HRL Compliance Solutions
Work Order: 1108869
Project: TR 11-5-697 Treatment Cell 8/25/11

QC BATCH REPORT

Batch ID: **35187** Instrument ID **HG1** Method: **SW7471**

MBLK	Sample ID: MBLK-35187-35187			Units: mg/Kg			Analysis Date: 8/29/2011 01:17 PM			
Client ID:	Run ID: HG1_110829A			SeqNo: 1719407			Prep Date: 8/27/2011		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-35187-35187			Units: mg/Kg			Analysis Date: 8/29/2011 01:19 PM			
Client ID:	Run ID: HG1_110829A			SeqNo: 1719408			Prep Date: 8/27/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1646	0.020	0.1665	0	98.8	80-120	0			

LCSD	Sample ID: LCSD-35187-35187			Units: mg/Kg			Analysis Date: 8/29/2011 01:21 PM			
Client ID:	Run ID: HG1_110829A			SeqNo: 1719409			Prep Date: 8/27/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1584	0.020	0.1665	0	95.1	80-120	0.1646	3.82	20	

MS	Sample ID: 1108821-01BMS			Units: mg/Kg			Analysis Date: 8/29/2011 01:30 PM			
Client ID:	Run ID: HG1_110829A			SeqNo: 1719413			Prep Date: 8/27/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1673	0.019	0.1604	0.01787	93.2	75-125	0			

MSD	Sample ID: 1108821-01BMSD			Units: mg/Kg			Analysis Date: 8/29/2011 01:32 PM			
Client ID:	Run ID: HG1_110829A			SeqNo: 1719414			Prep Date: 8/27/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1738	0.019	0.1609	0.01787	96.9	75-125	0.1673	3.86	35	

The following samples were analyzed in this batch: 1108869-01A

Client: HRL Compliance Solutions
 Work Order: 1108869
 Project: TR 11-5-697 Treatment Cell 8/25/11

QC BATCH REPORT

Batch ID: **35196** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK Sample ID: **MBLK-35196-35196** Units: **mg/Kg** Analysis Date: **8/31/2011 02:10 AM**

Client ID: Run ID: **ICPMS1_110830A** SeqNo: **1721720** Prep Date: **8/29/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.25								
Barium	ND	0.25								
Cadmium	0.001144	0.10								J
Chromium	0.002806	0.25								J
Copper	ND	0.25								
Lead	0.002402	0.25								J
Nickel	ND	0.25								
Selenium	ND	0.25								
Silver	ND	0.25								
Zinc	ND	0.50								

LCS Sample ID: **LCS-35196-35196** Units: **mg/Kg** Analysis Date: **8/31/2011 02:15 AM**

Client ID: Run ID: **ICPMS1_110830A** SeqNo: **1721721** Prep Date: **8/29/2011** DF: **2**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.663	0.50	5	0	93.3	80-120	0			
Barium	4.779	0.50	5	0	95.6	80-120	0			
Cadmium	4.603	0.20	5	0	92.1	80-120	0			
Chromium	4.697	0.50	5	0	93.9	80-120	0			
Copper	4.763	0.50	5	0	95.3	80-120	0			
Lead	4.714	0.50	5	0	94.3	80-120	0			
Nickel	4.729	0.50	5	0	94.6	80-120	0			
Selenium	4.607	0.50	5	0	92.1	80-120	0			
Silver	4.489	0.50	5	0	89.8	80-120	0			
Zinc	4.588	1.0	5	0	91.8	80-120	0			

LCSD Sample ID: **LCSD-35196-35196** Units: **mg/Kg** Analysis Date: **8/31/2011 02:20 AM**

Client ID: Run ID: **ICPMS1_110830A** SeqNo: **1721722** Prep Date: **8/29/2011** DF: **2**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.766	0.50	5	0	95.3	80-120	4.663	2.18	20	
Barium	4.746	0.50	5	0	94.9	80-120	4.779	0.693	20	
Cadmium	4.647	0.20	5	0	92.9	80-120	4.603	0.951	20	
Chromium	4.764	0.50	5	0	95.3	80-120	4.697	1.42	20	
Copper	4.848	0.50	5	0	97	80-120	4.763	1.77	20	
Lead	4.769	0.50	5	0	95.4	80-120	4.714	1.16	20	
Nickel	4.795	0.50	5	0	95.9	80-120	4.729	1.39	20	
Selenium	4.702	0.50	5	0	94	80-120	4.607	2.04	20	
Silver	4.543	0.50	5	0	90.9	80-120	4.489	1.2	20	
Zinc	4.681	1.0	5	0	93.6	80-120	4.588	2.01	20	

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

Client: HRL Compliance Solutions
 Work Order: 1108869
 Project: TR 11-5-697 Treatment Cell 8/25/11

QC BATCH REPORT

Batch ID: 35196 Instrument ID ICPMS1 Method: SW6020A

MS		Sample ID: 1108879-03BMS			Units: mg/Kg			Analysis Date: 8/31/2011 02:46 AM		
Client ID:		Run ID: ICPMS1_110830A			SeqNo: 1721727			Prep Date: 8/29/2011		DF: 4
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	10.74	1.5	7.342	3.799	94.6	80-120	0			
Barium	19.68	1.5	7.342	13.09	89.8	80-120	0			
Cadmium	6.831	0.59	7.342	0.1448	91.1	80-120	0			
Chromium	12	1.5	7.342	5.1	94	80-120	0			
Copper	14.94	1.5	7.342	7.488	101	80-120	0			
Lead	11.54	1.5	7.342	4.501	95.9	80-120	0			
Nickel	13.82	1.5	7.342	6.964	93.4	80-120	0			
Selenium	7.319	1.5	7.342	0.6311	91.1	80-120	0			
Silver	5.93	1.5	7.342	0.01805	80.5	80-120	0			
Zinc	36.27	2.9	7.342	27.47	120	80-120	0			

MSD		Sample ID: 1108879-03BMSD			Units: mg/Kg			Analysis Date: 8/31/2011 04:38 AM		
Client ID:		Run ID: ICPMS1_110830A			SeqNo: 1721741			Prep Date: 8/29/2011		DF: 4
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	10.93	1.5	7.342	3.799	97.1	80-120	10.74	1.68	25	
Barium	19.29	1.5	7.342	13.09	84.5	80-120	19.68	2.02	25	
Cadmium	7.001	0.59	7.342	0.1448	93.4	80-120	6.831	2.46	25	
Chromium	12.12	1.5	7.342	5.1	95.6	80-120	12	0.974	25	
Copper	15.19	1.5	7.342	7.488	105	80-120	14.94	1.68	25	
Lead	11.46	1.5	7.342	4.501	94.8	80-120	11.54	0.689	25	
Nickel	13.81	1.5	7.342	6.964	93.3	80-120	13.82	0.0425	25	
Selenium	7.48	1.5	7.342	0.6311	93.3	80-120	7.319	2.18	25	
Silver	6.123	1.5	7.342	0.01805	83.2	80-120	5.93	3.22	25	
Zinc	38.59	2.9	7.342	27.47	151	80-120	36.27	6.2	25	S

The following samples were analyzed in this batch: 1108869-01A

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

Client: HRL Compliance Solutions
Work Order: 1108869
Project: TR 11-5-697 Treatment Cell 8/25/11

QC BATCH REPORT

Batch ID: **35190** Instrument ID **SVMS6** Method: **SW8270**

MBLK	Sample ID: SBLKS1-35190-35190	Units: µg/Kg					Analysis Date: 8/30/2011 10:21 AM			
Client ID:	Run ID: SVMS6_110830A	SeqNo: 1720453			Prep Date: 8/29/2011		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>	1483	0	1667	0	89	34-140	0			
<i>Surr: 2-Fluorobiphenyl</i>	1289	0	1667	0	77.4	12-100	0			
<i>Surr: 2-Fluorophenol</i>	1410	0	1667	0	84.6	33-117	0			
<i>Surr: 4-Terphenyl-d14</i>	1471	0	1667	0	88.3	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	1400	0	1667	0	84	37-107	0			
<i>Surr: Phenol-d6</i>	1415	0	1667	0	84.9	40-106	0			

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

Client: HRL Compliance Solutions
Work Order: 1108869
Project: TR 11-5-697 Treatment Cell 8/25/11

QC BATCH REPORT

Batch ID: **35190** Instrument ID **SVMS6** Method: **SW8270**

LCS		Sample ID: SLCSS1-35190-35190			Units: µg/Kg		Analysis Date: 8/30/2011 10:48 AM			
Client ID:		Run ID: SVMS6_110830A			SeqNo: 1720540		Prep Date: 8/29/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1153	30	1333	0	86.5	45-110	0			
Anthracene	1258	30	1333	0	94.4	55-105	0			
Benzo(a)anthracene	1230	30	1333	0	92.3	50-110	0			
Benzo(a)pyrene	1298	30	1333	0	97.4	50-110	0			
Benzo(b)fluoranthene	1354	30	1333	0	102	45-115	0			
Benzo(g,h,i)perylene	1407	30	1333	0	106	40-125	0			
Benzo(k)fluoranthene	1342	30	1333	0	101	45-115	0			
Chrysene	1278	30	1333	0	95.9	55-110	0			
Dibenzo(a,h)anthracene	1350	30	1333	0	101	40-125	0			
Fluoranthene	1255	30	1333	0	94.1	55-115	0			
Fluorene	1175	30	1333	0	88.1	50-110	0			
Indeno(1,2,3-cd)pyrene	1371	30	1333	0	103	40-120	0			
Naphthalene	1141	30	1333	0	85.6	40-105	0			
Pyrene	1306	30	1333	0	97.9	45-125	0			
<i>Surr: 2,4,6-Tribromophenol</i>	<i>1608</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>96.5</i>	<i>34-140</i>	<i>0</i>			
<i>Surr: 2-Fluorobiphenyl</i>	<i>1302</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>78.1</i>	<i>12-100</i>	<i>0</i>			
<i>Surr: 2-Fluorophenol</i>	<i>1354</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>81.2</i>	<i>33-117</i>	<i>0</i>			
<i>Surr: 4-Terphenyl-d14</i>	<i>1564</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>93.8</i>	<i>25-137</i>	<i>0</i>			
<i>Surr: Nitrobenzene-d5</i>	<i>1383</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>83</i>	<i>37-107</i>	<i>0</i>			
<i>Surr: Phenol-d6</i>	<i>1332</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>79.9</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: 1108869
 Project: TR 11-5-697 Treatment Cell 8/25/11

QC BATCH REPORT

Batch ID: **35190** Instrument ID **SVMS6** Method: **SW8270**

LCSD	Sample ID: SLCSDS1-35190-35190	Units: µg/Kg					Analysis Date: 8/30/2011 11:14 AM				
Client ID:	Run ID: SVMS6_110830A	SeqNo: 1720541			Prep Date: 8/29/2011		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	1046	30	1333	0	78.4	45-110	1153	9.76	25		
Anthracene	1162	30	1333	0	87.2	55-105	1258	7.93	25		
Benzo(a)anthracene	1158	30	1333	0	86.9	50-110	1230	6.03	25		
Benzo(a)pyrene	1209	30	1333	0	90.7	50-110	1298	7.1	25		
Benzo(b)fluoranthene	1169	30	1333	0	87.7	45-115	1354	14.7	25		
Benzo(g,h,i)perylene	1330	30	1333	0	99.8	40-125	1407	5.63	25		
Benzo(k)fluoranthene	1110	30	1333	0	83.2	45-115	1342	19	25		
Chrysene	1192	30	1333	0	89.4	55-110	1278	6.99	25		
Dibenzo(a,h)anthracene	1270	30	1333	0	95.3	40-125	1350	6.11	25		
Fluoranthene	1163	30	1333	0	87.2	55-115	1255	7.58	25		
Fluorene	1067	30	1333	0	80	50-110	1175	9.63	25		
Indeno(1,2,3-cd)pyrene	1284	30	1333	0	96.3	40-120	1371	6.58	25		
Naphthalene	1032	30	1333	0	77.4	40-105	1141	10	25		
Pyrene	1224	30	1333	0	91.8	45-125	1306	6.48	25		
<i>Surr: 2,4,6-Tribromophenol</i>	<i>1502</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>90.1</i>	<i>34-140</i>	<i>1608</i>	<i>6.8</i>	<i>40</i>		
<i>Surr: 2-Fluorobiphenyl</i>	<i>1182</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>70.9</i>	<i>12-100</i>	<i>1302</i>	<i>9.72</i>	<i>40</i>		
<i>Surr: 2-Fluorophenol</i>	<i>1256</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>75.4</i>	<i>33-117</i>	<i>1354</i>	<i>7.48</i>	<i>40</i>		
<i>Surr: 4-Terphenyl-d14</i>	<i>1478</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>88.7</i>	<i>25-137</i>	<i>1564</i>	<i>5.68</i>	<i>40</i>		
<i>Surr: Nitrobenzene-d5</i>	<i>1275</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>76.5</i>	<i>37-107</i>	<i>1383</i>	<i>8.15</i>	<i>40</i>		
<i>Surr: Phenol-d6</i>	<i>1242</i>	<i>0</i>	<i>1667</i>	<i>0</i>	<i>74.5</i>	<i>40-106</i>	<i>1332</i>	<i>7.04</i>	<i>40</i>		

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

Client: HRL Compliance Solutions
 Work Order: 1108869
 Project: TR 11-5-697 Treatment Cell 8/25/11

QC BATCH REPORT

Batch ID: **35190** Instrument ID **SVMS6** Method: **SW8270**

MS		Sample ID: 1108858-03A MS			Units: µg/Kg		Analysis Date: 8/30/2011 12:19 PM			
Client ID:		Run ID: SVMS6_110830A			SeqNo: 1720753		Prep Date: 8/29/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	2226	60	2649	0	84.1	45-110	0			
Anthracene	2291	60	2649	0	86.5	55-105	0			
Benzo(a)anthracene	2287	60	2649	0	86.4	50-110	0			
Benzo(a)pyrene	2355	60	2649	0	88.9	50-110	0			
Benzo(b)fluoranthene	2665	60	2649	0	101	45-115	0			
Benzo(g,h,i)perylene	2611	60	2649	0	98.6	40-125	0			
Benzo(k)fluoranthene	2017	60	2649	0	76.2	45-115	0			
Chrysene	2343	60	2649	0	88.5	55-110	0			
Dibenzo(a,h)anthracene	2472	60	2649	0	93.3	40-125	0			
Fluoranthene	2310	60	2649	0	87.2	55-115	0			
Fluorene	2226	60	2649	0	84	50-110	0			
Indeno(1,2,3-cd)pyrene	2502	60	2649	0	94.5	40-120	0			
Naphthalene	2220	60	2649	0	83.8	40-105	0			
Pyrene	2427	60	2649	0	91.6	45-125	0			
<i>Surr: 2,4,6-Tribromophenol</i>	3071	0	3311	0	92.8	34-140	0			
<i>Surr: 2-Fluorobiphenyl</i>	2449	0	3311	0	74	12-100	0			
<i>Surr: 2-Fluorophenol</i>	2627	0	3311	0	79.3	33-117	0			
<i>Surr: 4-Terphenyl-d14</i>	2823	0	3311	0	85.3	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	2717	0	3311	0	82.1	37-107	0			
<i>Surr: Phenol-d6</i>	2610	0	3311	0	78.8	40-106	0			

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

Client: HRL Compliance Solutions
 Work Order: 1108869
 Project: TR 11-5-697 Treatment Cell 8/25/11

QC BATCH REPORT

Batch ID: 35190 Instrument ID SVMS6 Method: SW8270

MS Sample ID: 1108752-01C MS Units: µg/Kg Analysis Date: 9/1/2011 07:19 PM

Client ID: Run ID: SVMS4_110901A SeqNo: 1723896 Prep Date: 8/29/2011 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	2293	57	2511	0	91.3	45-110	0			
Anthracene	2475	57	2511	0	98.6	55-105	0			
Benzo(a)anthracene	2399	57	2511	17.13	94.8	50-110	0			
Benzo(a)pyrene	2262	57	2511	74.32	87.1	50-110	0			
Benzo(b)fluoranthene	2279	57	2511	46.53	88.9	45-115	0			
Benzo(g,h,i)perylene	2214	57	2511	51.7	86.1	40-125	0			
Benzo(k)fluoranthene	2440	57	2511	51.7	95.1	45-115	0			
Chrysene	2637	57	2511	0	105	55-110	0			
Dibenzo(a,h)anthracene	2237	57	2511	81.11	85.9	40-125	0			
Fluoranthene	2285	57	2511	53.64	88.8	55-115	0			
Fluorene	2364	57	2511	0	94.2	50-110	0			
Indeno(1,2,3-cd)pyrene	2236	57	2511	77.23	86	40-120	0			
Naphthalene	2117	57	2511	0	84.3	40-105	0			
Pyrene	2306	57	2511	47.5	90	45-125	0			
Surr: 2,4,6-Tribromophenol	3087	0	3139	0	98.4	34-140	0			
Surr: 2-Fluorobiphenyl	2698	0	3139	0	85.9	12-100	0			
Surr: 2-Fluorophenol	2500	0	3139	0	79.7	33-117	0			
Surr: 4-Terphenyl-d14	3109	0	3139	0	99	25-137	0			
Surr: Nitrobenzene-d5	2645	0	3139	0	84.3	37-107	0			
Surr: Phenol-d6	2742	0	3139	0	87.4	40-106	0			

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

Client: HRL Compliance Solutions
 Work Order: 1108869
 Project: TR 11-5-697 Treatment Cell 8/25/11

QC BATCH REPORT

Batch ID: 35190 Instrument ID SVMS6 Method: SW8270

MSD		Sample ID: 1108858-03A MSD			Units: µg/Kg			Analysis Date: 8/30/2011 12:46 PM		
Client ID:		Run ID: SVMS6_110830A			SeqNo: 1720754		Prep Date: 8/29/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	2144	59	2619	0	81.9	45-110	2226	3.76	30	
Anthracene	2278	59	2619	0	87	55-105	2291	0.594	30	
Benzo(a)anthracene	2248	59	2619	0	85.8	50-110	2287	1.72	30	
Benzo(a)pyrene	2376	59	2619	0	90.7	50-110	2355	0.891	30	
Benzo(b)fluoranthene	2649	59	2619	0	101	45-115	2665	0.617	30	
Benzo(g,h,i)perylene	2591	59	2619	0	98.9	40-125	2611	0.784	30	
Benzo(k)fluoranthene	2150	59	2619	0	82.1	45-115	2017	6.41	30	
Chrysene	2314	59	2619	0	88.4	55-110	2343	1.25	30	
Dibenzo(a,h)anthracene	2496	59	2619	0	95.3	40-125	2472	0.981	30	
Fluoranthene	2306	59	2619	0	88	55-115	2310	0.171	30	
Fluorene	2180	59	2619	0	83.2	50-110	2226	2.07	30	
Indeno(1,2,3-cd)pyrene	2513	59	2619	0	96	40-120	2502	0.463	30	
Naphthalene	2046	59	2619	0	78.1	40-105	2220	8.15	30	
Pyrene	2391	59	2619	0	91.3	45-125	2427	1.5	30	
Surr: 2,4,6-Tribromophenol	3045	0	3274	0	93	34-140	3071	0.854	40	
Surr: 2-Fluorobiphenyl	2213	0	3274	0	67.6	12-100	2449	10.1	40	
Surr: 2-Fluorophenol	2474	0	3274	0	75.6	33-117	2627	5.99	40	
Surr: 4-Terphenyl-d14	2625	0	3274	0	80.2	25-137	2823	7.28	40	
Surr: Nitrobenzene-d5	2487	0	3274	0	76	37-107	2717	8.83	40	
Surr: Phenol-d6	2425	0	3274	0	74.1	40-106	2610	7.34	40	

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

Client: HRL Compliance Solutions
 Work Order: 1108869
 Project: TR 11-5-697 Treatment Cell 8/25/11

QC BATCH REPORT

Batch ID: **35190** Instrument ID **SVMS6** Method: **SW8270**

MSD		Sample ID: 1108752-01C MSD			Units: µg/Kg			Analysis Date: 9/1/2011 07:51 PM		
Client ID:		Run ID: SVMS4_110901A			SeqNo: 1723897		Prep Date: 8/29/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	2355	60	2652	0	88.8	45-110	2293	2.7	30	
Anthracene	2551	60	2652	0	96.2	55-105	2475	3	30	
Benzo(a)anthracene	2477	60	2652	17.13	92.8	50-110	2399	3.22	30	
Benzo(a)pyrene	2331	60	2652	74.32	85.1	50-110	2262	3.03	30	
Benzo(b)fluoranthene	2426	60	2652	46.53	89.7	45-115	2279	6.24	30	
Benzo(g,h,i)perylene	2275	60	2652	51.7	83.9	40-125	2214	2.74	30	
Benzo(k)fluoranthene	2461	60	2652	51.7	90.9	45-115	2440	0.837	30	
Chrysene	2750	60	2652	0	104	55-110	2637	4.2	30	
Dibenzo(a,h)anthracene	2292	60	2652	81.11	83.4	40-125	2237	2.42	30	
Fluoranthene	2354	60	2652	53.64	86.8	55-115	2285	3	30	
Fluorene	2422	60	2652	0	91.4	50-110	2364	2.42	30	
Indeno(1,2,3-cd)pyrene	2307	60	2652	77.23	84.1	40-120	2236	3.14	30	
Naphthalene	2199	60	2652	0	82.9	40-105	2117	3.8	30	
Pyrene	2388	60	2652	47.5	88.3	45-125	2306	3.49	30	
<i>Surr: 2,4,6-Tribromophenol</i>	3190	0	3315	0	96.2	34-140	3087	3.26	40	
<i>Surr: 2-Fluorobiphenyl</i>	2776	0	3315	0	83.7	12-100	2698	2.85	40	
<i>Surr: 2-Fluorophenol</i>	2704	0	3315	0	81.6	33-117	2500	7.82	40	
<i>Surr: 4-Terphenyl-d14</i>	3149	0	3315	0	95	25-137	3109	1.3	40	
<i>Surr: Nitrobenzene-d5</i>	2756	0	3315	0	83.1	37-107	2645	4.11	40	
<i>Surr: Phenol-d6</i>	2845	0	3315	0	85.8	40-106	2742	3.69	40	

The following samples were analyzed in this batch: | 1108869-01A |

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

Client: HRL Compliance Solutions
 Work Order: 1108869
 Project: TR 11-5-697 Treatment Cell 8/25/11

QC BATCH REPORT

Batch ID: **35281** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK		Sample ID: MBLK-35281-35281				Units: mg/Kg		Analysis Date: 9/2/2011 01:00 PM			
Client ID:		Run ID: WETCHEM_110902C				SeqNo: 1724443		Prep Date: 9/1/2011		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-35281-35281				Units: mg/Kg		Analysis Date: 9/2/2011 01:00 PM			
Client ID:		Run ID: WETCHEM_110902C				SeqNo: 1724441		Prep Date: 9/1/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Chromium, Hexavalent	2.054	0.48	1.931	0	106	75-110	0				

LCSD		Sample ID: LCSD-35281-35281				Units: mg/Kg		Analysis Date: 9/2/2011 01:00 PM			
Client ID:		Run ID: WETCHEM_110902C				SeqNo: 1724442		Prep Date: 9/1/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Chromium, Hexavalent	2.078	0.49	1.953	0	106	75-110	2.054	1.17	20		

MS		Sample ID: 1108868-01A MS				Units: mg/Kg		Analysis Date: 9/2/2011 01:00 PM			
Client ID:		Run ID: WETCHEM_110902C				SeqNo: 1724424		Prep Date: 9/1/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Chromium, Hexavalent	1.616	0.48	1.938	0.2326	71.4	60-130	0				

MSD		Sample ID: 1108868-01A MSD				Units: mg/Kg		Analysis Date: 9/2/2011 01:00 PM			
Client ID:		Run ID: WETCHEM_110902C				SeqNo: 1724425		Prep Date: 9/1/2011		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Chromium, Hexavalent	1.806	0.50	1.984	0.2326	79.3	60-130	1.616	11.1	30		

The following samples were analyzed in this batch: 1108869-01A

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

Client: HRL Compliance Solutions
 Work Order: 1108869
 Project: TR 11-5-697 Treatment Cell 8/25/11

QC BATCH REPORT

Batch ID: **R94038** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS1-R94038			Units: % of sample			Analysis Date: 8/29/2011 11:39 AM		
Client ID:		Run ID: MOIST_110829A			SeqNo: 1720347		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-R94038			Units: % of sample			Analysis Date: 8/29/2011 11:39 AM		
Client ID:		Run ID: MOIST_110829A			SeqNo: 1720346		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: 1108867-03BDUP			Units: % of sample			Analysis Date: 8/29/2011 11:39 AM		
Client ID:		Run ID: MOIST_110829A			SeqNo: 1720332		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	6.87	0.050	0	0	0	0-0	6.69	2.65	20	

DUP		Sample ID: 1108879-03BDUP1			Units: % of sample			Analysis Date: 8/29/2011 11:39 AM		
Client ID:		Run ID: MOIST_110829A			SeqNo: 1720339		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	15.85	0.050	0	0	0	0-0	15.69	1.01	20	

DUP		Sample ID: 1108879-03BDUP2			Units: % of sample			Analysis Date: 8/29/2011 11:39 AM		
Client ID:		Run ID: MOIST_110829A			SeqNo: 1720340		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	15.53	0.050	0	0	0	0-0	15.69	1.02	20	

The following samples were analyzed in this batch: 1108869-01A

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

Client: HRL Compliance Solutions
Work Order: 1108869
Project: TR 11-5-697 Treatment Cell 8/25/11

QC BATCH REPORT

Batch ID: **R94050** Instrument ID **WETCHEM** Method: **A4500-H B**

DUP		Sample ID: 1108914-01A DUP				Units: s.u.		Analysis Date: 8/30/2011 10:15 AM		
Client ID:		Run ID: WETCHEM_110830F				SeqNo: 1720591		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	8.57	0	0	0	0	0-0	8.57	0	20	

DUP		Sample ID: 1108868-01A DUP				Units: s.u.		Analysis Date: 8/30/2011 10:15 AM		
Client ID:		Run ID: WETCHEM_110830F				SeqNo: 1720594		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	8.26	0	0	0	0	0-0	8.26	0	20	

DUP		Sample ID: 1108912-05B DUP				Units: s.u.		Analysis Date: 8/30/2011 10:15 AM		
Client ID:		Run ID: WETCHEM_110830F				SeqNo: 1720606		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	8.65	0	0	0	0	0-0	8.65	0	20	HH

The following samples were analyzed in this batch:

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



ALS Laboratory Group

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Chain-of-Custody

WORKORDER #

1108869

Form 2028

PROJECT NAME		TR 11-5-697 Treatment Cell		SAMPLER		Dan Pinegar		DATE		8/26/2011		PAGE		1 of 1	
PROJECT No.				SITE ID		TR 11-5-697 Well Pad		TURNAROUND		7 days		DISPOSAL		By Lab or Return to Client	
COMPANY NAME		HRL Compliance Solutions, Inc.		BILL TO COMPANY				Total Metals (Table 910.1)							
SEND REPORT TO		Kris Rowe		INVOICE ATTN TO				SAR, EC, Ph							
ADDRESS		744 Horizon Ct. Suite 140		ADDRESS				Semi Vols / PAH							
CITY / STATE / ZIP		Grand Junction, CO. 81506		CITY / STATE / ZIP											
PHONE		970-243-3271		PHONE											
FAX		970-243-3280		FAX											
E-MAIL		krowe@hrlcomp.com		E-MAIL											
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC								
	TR 11-5-697 Treatment Cell	soil	8/25/2011	4:00 PM	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)	
	<input checked="" type="checkbox"/>	LEVEL II (Standard QC)
	<input type="checkbox"/>	LEVEL III (Std QC + forms)
	<input type="checkbox"/>	LEVEL IV (Std QC + forms + raw data)
Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035		

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY		Dan Pinegar	8/26/2011	5:00 PM
RECEIVED BY		Kris Rowe	8/27/11	1015
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				



Environmental

Subcontractor:
A & L Great Lakes Agricultural La
3505 Conestoga Dr
Ft. Wayne, IN 46808

TEL: (260) 483-4759
FAX: (260) 483-5274
Acct #: 91000

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Date: 30-Aug-11
COC ID: 3073
Due Date 06-Sep-11

Customer Information		Project Information		Parameter/Method Request for Analysis										
Purchase Order		Project Name	1108869	A	Subcontracted Analyses (SUBCONTRACT)									
Work Order		Project Number		B										
Company Name	ALS Group USA, Corp	Bill To Company	ALS Group USA, Corp	C										
Send Report To	Ann Preston	Inv Attn	Accounts Payable	D										
Address	3352 128th Avenue	Address	3352 128th Avenue	E										
				F										
City/State/Zip	Holland, Michigan 49424-9263	City/State/Zip	Holland, Michigan 49424-9263	G										
Phone	(616) 399-6070	Phone	(616) 399-6070	H										
Fax	(616) 399-6185	Fax	(616) 399-6185	I										
eMail Address	ann.preston@alsglobal.com	eMail CC		J										
Sample ID	Matrix	Collection Date 24hr	Bottle	A	B	C	D	E	F	G	H	I	J	
1108869-01B (TR 11-5-697 Treatment Cell)	Soil	25/Aug/2011 16:00	(1) MISC	X										

Comments:

Please analyze for SAR-EC. Email results to Ann Preston.

Relinquished by:	Date/Time	Received by:	Date/Time	Cooler IDs	Report/QC Level
					Std

Sample Receipt Checklist

Client Name: **HRL**

Date/Time Received: **27-Aug-11 00:00**

Work Order: **1108869**

Received by: **WJC**

Checklist completed by Bill Carey 27-Aug-11
eSignature Date

Reviewed by: Ann Preston 30-Aug-11
eSignature Date

Matrices: Soil
Carrier name: FedEx

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No
- Temperature(s)/Thermometer(s):
- Cooler(s)/Kit(s):
- Water - VOA vials have zero headspace? Yes No No VOA vials submitted
- Water - pH acceptable upon receipt? Yes No N/A
- pH adjusted? Yes No N/A
- pH adjusted by:

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

fedex.com 1800.GoFedEx 1800.463.3339

1 From

Date 8-26-11 Sender's FedEx Account Number _____

Sender's Name DAN PINIGAR Phone 770 242 3271

Company HCS

Address 744 HORIZON CH ST 140 Dept./Floor/Suite/Room _____

City GRAND JUNCTION State CO ZIP 81506

2 Your Internal Billing Reference

3 To

Recipient's Name SAMPLE RECEIVING Phone 616 399-6070

Company ALS GROUP

Address 3352 120TH AVE Dept./Floor/Suite/Room _____

01 **HOLD Weekday**
FedEx location address REQUIRED. NOT available for FedEx First Overnight.

Address _____ We cannot deliver to F.O. boxes or P.O. ZIP codes.

31 **HOLD Saturday**
FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

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

City HOLLAND State MI ZIP 49424



8758 3471 3960

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

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. 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:

Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No.

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 _____ lbs. Credit Card Auth. _____

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

612

fedex.com 1800.GoFedEx 1800.463.3339

CUSTOMER SEAL

DATE 8/26/11

SIGNATURE

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