DOCUMENT #2232771

FORM 4
Rev 12/05

State of Colorado
Oil and Gas Conservation Commission

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

DE | ET | OE | ES

RECEIVED 4/15/2013

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: 10110
2. Name of Operator: Great Western Oil & Gas, LLC
3. Address: 2005 Howard Smith Avenue East
City: Windsor State: CO Zip:80550
4. Contact Name: Mike Hettinger
Phone: 970-686-8831
Fax: N/A

Complete the Attachment Checklist — OP OGCC

5. API Number 05- 123-24312 OGCC Facility ID Number 333033
6. Well/Facility Name: Great Western 27-13 7. Well/Facility Number 27-13
8. Location (QtrQtr, Sec, Twp, Rng, Meridian): SWSW, Sec 27,T6N,R67W,6th PM
9. County: Weld 10. Field Name: Wattenburg
11. Federal, Indian or State Lease Number: N/A

Attachment Checklist	OP	OGCC
Survey Plat		
Directional Survey		
Surface Eqpmt Diagram		
Technical Info Page		
Other		

General Notice

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

Bottomhole location Qtr/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 (6 mos from date casing set)

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

Method used	Cementing tool setting/perf depth	Cement volume	Cement top	Cement bottom	Date

☐ 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: 4/11/2013

☐ Report of Work Done
Date Work Completed:

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

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

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

Signed: Skip Vest Digitally signed by Skip Vest DN: cn=Skip Vest, o=HRL Compliance Solutions, ou, email=svest@hrlcomp.com, c=US Date: 2013.04.15 09:41:36 -06'00' Date: 04/11/2013 Email: svest@hrlcomp.com

Print Name: Skip Vest Title: Senior Environmental Program Manager

COGCC Approved: Robert H. Chesson Digitally signed by Robert H Chesson DN: cn=Robert H Chesson, o=COGCC, ou, email=robert.chesson@state.co.us, c=US Date: 2013.04.22 14:00:30 -06'00' Title: EPS Date: 4/22/2013

CONDITIONS OF APPROVAL, IF ANY:

Click here to reset form

FORM 4 Rev 12/05

TECHNICAL INFORMATION PAGE

FOR OGCC USE ONLY

1. OGCC Operator Number: 10110 API Number: 05-123-24312
2. Name of Operator: Great Western Oil & Gas, LLC OGCC Facility ID # 333033
3. Well/Facility Name: Great Western 27-13 Well/Facility Number: 27-13
4. Location (QtrQtr, Sec, Twp, Rng, Meridian): SWSW,Sec27,T6N,R67W,6th PM

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

5. **DESCRIBE PROPOSED OR COMPLETED OPERATIONS**

Great Westen Oil and Gas, LLC (Great Western) is submitting the following Form 4 to request a change in the remediation work plan (Form 27) which was submitted to the COGCC on November 16, 2012. The spill tracking number for the release is 2230625 and the remediation project number on the approved From 27 is 7411. Great Western is submitting this change request based on the following observations during recent groundwater sampling events.

The Form 27 which was submitted had a workplan attached outlining remediation options for the impacted groundwater fist discovered during the initial site investigation. As part of that plan, six monitoring wells were installed on the downgradient side of the tank battery and one monitoring well was installed with in the bermed area of the tank battery.

Groundwater samples collected from the wells to date indicate contaminant levels as non-detect or well below COGCC Table 910-1 standards. Based on these results, Great Western would like to request a change to conduct quarterly groundwater sampling and monitoring for a period of One (1) year. If four (4) quarters of groundwater results indicate the site is clean an additional Form 4 will be submitted at the end of that period requesting formal closure. The first round of sampling would be conducted in the second quater of 2013.

Work Completed Great Western 27-13 (COGCC# 333033, Remediation #7411)

Soil Excavation and Sampling Event (12/10/2012- 12/13/2012)

Soil under the produced water tanks containment area was excavated and hauled to a Waste Management facility for disposal. Depth of excavation was approximately 4.5 feet, and groundwater was encountered at this depth. It should be noted that a visible sheen was present on the groundwater in the excavation area. The entire original footprint of the earthen containment area was excavated, and field screenings with a Petroflag kit on the side walls of the excavated area was conducted. Lateral excavation ceased once field screenings indicated the lack of hydrocarbons. Composite grab samples from the excavation side walls were sent to an accredited analytical laboratory for analysis. The analytical report indicated that the grab samples taken from the side walls of the excavation area were in compliance with COGCC Table 910-1 standards. Three (3) background samples were taken on 12/20/2012 from approximately six (6) inches beneath the grounds surface with regards to arsenic.

Groundwater Bioremediation System Installation (12/12/2012-12/13/2012)

The excavated area was leveled with a layer of pea gravel, and a series of heavy schedule slotted PVC piping was installed within the center of the pea gravel layer. The buried manifold of pipes was connected to an above ground piping system to deliver water, nutrients, and bioremediation products to the groundwater below the pea gravel layer in the excavated area. The excavated area was backfilled with clean soil, and the earthen containment area was rebuilt and the tanks were returned to their original location. Bioremediation treatments were originally scheduled to begin in March 2013, once temperatures warmed up and the threat of pumps and the above ground piping freezing could be better managed.

Monitoring Well Installation (1/09/2013- 1/10/2013)

HRL Compliance Solutions, Inc. installed 6 permanent monitoring wells at Great Western Oil & Gas 27-13. Well depths ranged from 12 to 14 ft., and cemented and covered with a lid flush with the ground. Monitoring well locations are indicated on the attached site map.

Monitoring Well Sampling Event (1/25/2013)

The recently installed monitoring wells were developed and groundwater samples were collected and submitted to an analytical laboratory for analysis. The analytical results were in compliance with COGCC Table 910-1 standards.

Temporary Monitoring Well Installation (2/27/2013)

HRL Compliance Solutions, Inc. installed one temporary monitoring well (piezometer) to a depth of 5 feet within the produced water tanks containment to facilitate groundwater sampling under the tanks and containment area where the original spill occurred.

Temporary Monitoring Well Sampling Event (2/27/2013)

Groundwater samples from the newly installed piezometer were collected and sent to an analytical laboratory for analysis. The analytical report indicated that the groundwater samples were in compliance with COGCC Table 910-1 standards.

Conclusion

Based on the analytical results of the above referenced sampling events that indicate groundwater sample analysis to be in compliance with COGCC Table 910-1 standards, HCSI requests the authorization to commence quarterly groundwater sampling for a period of one year as stated in the Remedial Action Work Plan for Well Site 27-13, Section 2.2.2 Groundwater Remediation Closure. No bioremediation products were utilized at this site, as groundwater analytical results from the temporary monitoring well located within the spill site were in compliance with COGCC Table 910-1 standards prior to the beginning of treatment.

Analytical Review

Sample results indicate that the soil within excavation area on Great Western's 27-13 well pad have exceedances of COGCC Table 910-1 allowable concentrations for arsenic (3.3, 4.2, 4.6, 3.5 ppm). The arsenic background concentrations ranged from 3.1 ppm to 2.8 ppm for this area. Based on these results and footnote 1 to COGCC Table 910-1, HCSI requests that the COGCC consider the higher range of background arsenic value(s) as the allowable concentration for this constituent.

Groundwater Analytical Results

						Ground Water									
		Allowable Concentration -->				<1.25x BKG	<1.25x BKG	<1.25x BKG	5 ug/L	560-1000 ug/L	700 ug/L	1,400 to 10,000 ug/L	BDL	BDL	BDL
Location Number ID	COC ID	Date:	Lab	Sampler:	Sample Matrix	Chloride	Sulfate	Dissolved Solids	Benzene	Toluene	Ethylbenzene	Total Xylene	TPH (GC/FID) Low Fraction	TPH (GC/FID) Low Fraction	TPH (GC/FID) Low Fraction
Monitor Well 1	1301807-01	1/25/2013	ALS	DP	Water	34	420	990	BDL	BDL	**BDL**	BDL	BDL	BDL	BDL
Monitor Well 2	1301807-02	1/25/2013	ALS	DP	Water	39	530	1200	BDL	BDL	**BDL**	BDL	BDL	BDL	BDL
Monitor Well 3	1301807-03	1/25/2013	ALS	DP	Water	38	520	1100	BDL	BDL	**BDL**	BDL	BDL	BDL	BDL
Monitor Well 4	1301807-04	1/25/2013	ALS	DP	Water	42	520	1100	BDL	BDL	**BDL**	BDL	BDL	BDL	BDL
Monitor Well 5	1301807-05	1/25/2013	ALS	DP	Water	55	580	1200	BDL	BDL	**BDL**	BDL	BDL	BDL	BDL
Monitor Well 6	1301807-06	1/25/2013	ALS	DP	Water	39	540	1200	BDL	BDL	**BDL**	BDL	BDL	BDL	BDL
Sample Port	1301807-07	1/25/2013	ALS	DP	Water	33	480	1000	2.2	BDL	**BDL**	BDL	BDL	BDL	BDL
MW-7	1303024-01	2/27/2013	ALS	DP	Water	35	480	1000	BDL	BDL	BDL	BDL	BDL	BDL	BDL

Soil Analytical Results

						Analytes (BDL = Below Detection Limit; NA = Not Applicable; NS = Not Sampled)																							
						Organics in Soil (mg/Kg)																							
		Allowable Concentration -->				500	NA	NA	0.17	85	100	175	1000	1000	0.22	0.22	2.2	0.022	22	0.022	1000	1000	0.22	23	1000	see below	<12	(6-9)
Location Number ID	COC ID	Date:	Lab	Sampler:	Sample Matrix	TPH	TPH-GRO (C6-C10) Low Fraction	TPH-DRO (C10-C28) High Fraction	Benzene	Toluene	EthylBenzene	Xylenes - total	Acenaphthene	Anthracene	Benzo(A)anthracene	Benzo(B)fluoranthene	Benzo(K)fluoranthene	Benzo(A)pyrene	Chrysene	Dibenzo(A,H)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Napthalene	Pyrene	EC (<4 mmhos/cm or 2x background)	SAR (calculation)	pH
Pad 8 East Wall	1212457-01	12/12/2012	ALS	SV	Soil	49	BDL	49	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.025	7.2	8.29
Pad 8 North Wall	1212457-02	12/12/2012	ALS	SV	**Soil**	140	BDL	140	BDL	BDL	BDL	BDL	BDL	BDL	BDL	24	BDL	BDL	52	BDL	24	28	BDL	43	31	0.01	10	7.91
Pad 8 West Wall	1212457-03	12/12/2012	ALS	SV	Soil	21	BDL	21	BDL	BDL	BDL	BDL	BDL	BDL	BDL	53	30	37	46	BDL	68	BDL	BDL	BDL	60	0.01	3.8	8.02
Pad 8 South Wall	1212457-04	12/12/2012	ALS	SV	Soil	19	BDL	19	BDL	BDL	BDL	BDL	BDL	BDL	BDL	22	BDL	BDL	24	BDL	33	BDL	BDL	BDL	33	0.01	4.2	8.15

						Analytes (BDL = Below Detection Limit; NA = Not Applicable; NS = Not Sampled)														
						Metals in Soil (mg/kg [ppm])														
		Allowable Concentration -->				0.39	15000	15000	2 (mg/L)	70	120000	23	3100	400	23	1600	390	390	23000
Location Number ID	COC ID	Date:	Lab	Sampler:	Sample Matrix	Arsenic	Barium - LDNR True Total Barium	Barium - EPA Total Barium	Boron - Hot Water Soluble	Cadmium	Chromium (III)	Chromium (VI)	Copper	Lead	Mercury	Nickel	Selenium	Silver	Zinc
Pad 8 East Wall	1212457-01	12/12/2012	ALS	SV	Soil	3.3	140	140	BDL	BDL	13	BDL	9.6	9.2	0.021	9.3	1.2	BDL	36
Pad 8 North Wall	1212457-02	12/12/2012	ALS	SV	**Soil**	4.2	280	280	BDL	BDL	12	BDL	17	10	0.026	11	1.4	BDL	39
Pad 8 West Wall	1212457-03	12/12/2012	ALS	SV	Soil	4.6	110	110	BDL	BDL	14	BDL	12	12	0.028	12	1.3	BDL	49
Pad 8 South Wall	1212457-04	12/12/2012	ALS	SV	Soil	3.5	120	120	BDL	BDL	16	BDL	11	11	0.021	12	1.3	BDL	46

Soil Background

						Analyte
						Metals i
		Allowable Concentration -->				0.39
Location Number ID	COC ID	Date:	Lab	Sampler:	Sample Matrix	Arsenic
NNW Background	1212831-01	12/20/2012	ALS	SV	Soil	3.1
NNE Background	1212831-02	12/20/2012	ALS	SV	**Soil**	3.1
S Background	1212831-03	12/20/2012	ALS	SV	Soil	2.8

Groundwater Analytical Results

						Ground Water									
		Allowable Concentration -->				<1.25x BKG	<1.25x BKG	<1.25x BKG	5 ug/L	560-1000 ug/L	700 ug/L	1,400 to 10,000 ug/L	BDL	BDL	BDL
Location Number ID	COC ID	Date:	Lab	Sampler:	Sample Matrix	Chloride	Sulfate	Dissolved Solids	Benzene	Toluene	Ethylbenzene	Total Xylene	TPH (GC/FID) Low Fraction	TPH (GC/FID) Low Fraction	TPH (GC/FID) Low Fraction
Monitor Well 1	1301807-01	1/25/2013	ALS	DP	Water	34	420	990	BDL	BDL	**BDL**	BDL	BDL	BDL	BDL
Monitor Well 2	1301807-02	1/25/2013	ALS	DP	Water	39	530	1200	BDL	BDL	**BDL**	BDL	BDL	BDL	BDL
Monitor Well 3	1301807-03	1/25/2013	ALS	DP	Water	38	520	1100	BDL	BDL	**BDL**	BDL	BDL	BDL	BDL
Monitor Well 4	1301807-04	1/25/2013	ALS	DP	Water	42	520	1100	BDL	BDL	**BDL**	BDL	BDL	BDL	BDL
Monitor Well 5	1301807-05	1/25/2013	ALS	DP	Water	55	580	1200	BDL	BDL	**BDL**	BDL	BDL	BDL	BDL
Monitor Well 6	1301807-06	1/25/2013	ALS	DP	Water	39	540	1200	BDL	BDL	**BDL**	BDL	BDL	BDL	BDL
Sample Port	1301807-07	1/25/2013	ALS	DP	Water	33	480	1000	2.2	BDL	**BDL**	BDL	BDL	BDL	BDL
MW-7	1303024-01	2/27/2013	ALS	DP	Water	35	480	1000	BDL	BDL	BDL	BDL	BDL	BDL	BDL

Soil Analytical Results

						Analytes (BDL = Below Detection Limit; NA = Not Applicable; NS = Not Sampled)																							
						Organics in Soil (mg/Kg)																							
		Allowable Concentration -->				500	NA	NA	0.17	85	100	175	1000	1000	0.22	0.22	2.2	0.022	22	0.022	1000	1000	0.22	23	1000	see below	<12	(6-9)
Location Number ID	COC ID	Date:	Lab	Sampler:	Sample Matrix	TPH	TPH-GRO (C6-C10) Low Fraction	TPH-DRO (C10-C28) High Fraction	Benzene	Toluene	EthylBenzene	Xylenes - total	Acenaphthene	Anthracene	Benzo(A)anthracene	Benzo(B)fluoranthene	Benzo(K)fluoranthene	Benzo(A)pyrene	Chrysene	Dibenzo(A,H)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Napthalene	Pyrene	EC (<4 mmhos/cm or 2x background)	SAR (calculation)	pH
Pad 8 East Wall	1212457-01	12/12/2012	ALS	SV	Soil	49	BDL	49	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.025	7.2	8.29
Pad 8 North Wall	1212457-02	12/12/2012	ALS	SV	**Soil**	140	BDL	140	BDL	BDL	BDL	BDL	BDL	BDL	BDL	24	BDL	BDL	52	BDL	24	28	BDL	43	31	0.01	10	7.91
Pad 8 West Wall	1212457-03	12/12/2012	ALS	SV	Soil	21	BDL	21	BDL	BDL	BDL	BDL	BDL	BDL	BDL	53	30	37	46	BDL	68	BDL	BDL	BDL	60	0.01	3.8	8.02
Pad 8 South Wall	1212457-04	12/12/2012	ALS	SV	Soil	19	BDL	19	BDL	BDL	BDL	BDL	BDL	BDL	BDL	22	BDL	BDL	24	BDL	33	BDL	BDL	BDL	33	0.01	4.2	8.15

						Analytes (BDL = Below Detection Limit; NA = Not Applicable; NS = Not Sampled)														
						Metals in Soil (mg/kg [ppm])														
		Allowable Concentration -->				0.39	15000	15000	2 (mg/L)	70	120000	23	3100	400	23	1600	390	390	23000
Location Number ID	COC ID	Date:	Lab	Sampler:	Sample Matrix	Arsenic	Barium - LDNR True Total Barium	Barium - EPA Total Barium	Boron - Hot Water Soluble	Cadmium	Chromium (III)	Chromium (VI)	Copper	Lead	Mercury	Nickel	Selenium	Silver	Zinc
Pad 8 East Wall	1212457-01	12/12/2012	ALS	SV	Soil	3.3	140	140	BDL	BDL	13	BDL	9.6	9.2	0.021	9.3	1.2	BDL	36
Pad 8 North Wall	1212457-02	12/12/2012	ALS	SV	**Soil**	4.2	280	280	BDL	BDL	12	BDL	17	10	0.026	11	1.4	BDL	39
Pad 8 West Wall	1212457-03	12/12/2012	ALS	SV	Soil	4.6	110	110	BDL	BDL	14	BDL	12	12	0.028	12	1.3	BDL	49
Pad 8 South Wall	1212457-04	12/12/2012	ALS	SV	Soil	3.5	120	120	BDL	BDL	16	BDL	11	11	0.021	12	1.3	BDL	46

Soil Background

						Analyte
						Metals i
		Allowable Concentration -->				0.39
Location Number ID	COC ID	Date:	Lab	Sampler:	Sample Matrix	Arsenic
NNW Background	1212831-01	12/20/2012	ALS	SV	Soil	3.1
NNE Background	1212831-02	12/20/2012	ALS	SV	**Soil**	3.1
S Background	1212831-03	12/20/2012	ALS	SV	Soil	2.8

Name	Latitude (DD)	Longitude (DD)	Elevation (Feet)
BRP-LID-1	40.453880916	-104.887384605	4751.465
BRP-LID-2	40.453808568	-104.887409002	4751.079
BRP-LID-3	40.453754395	-104.887466543	4750.902
BRP-LID-4	40.453774783	-104.887593221	4751.328
MW-1-GR	40.453984448	-104.887544676	4751.639
MW-1-TC	40.453980842	-104.887546470	4751.666
MW-2-GR	40.453621859	-104.887249782	4749.704
MW-2-TC	40.453617270	-104.887253107	4749.556
MW-3-GR	40.453478208	-104.887353891	4749.064
MW-3-TC	40.453472273	-104.887355241	4748.830
MW-4-GR	40.453326231	-104.887494732	4749.246
MW-4-TC	40.453319419	-104.887497042	4749.107
MW-5-GR	40.453758125	-104.887509055	4751.175
MW-5-TC	40.453752929	-104.887508854	4750.856
MW-6-GR	40.453853855	-104.887394109	4751.284
MW-6-TC	40.453847243	-104.887395390	4750.936

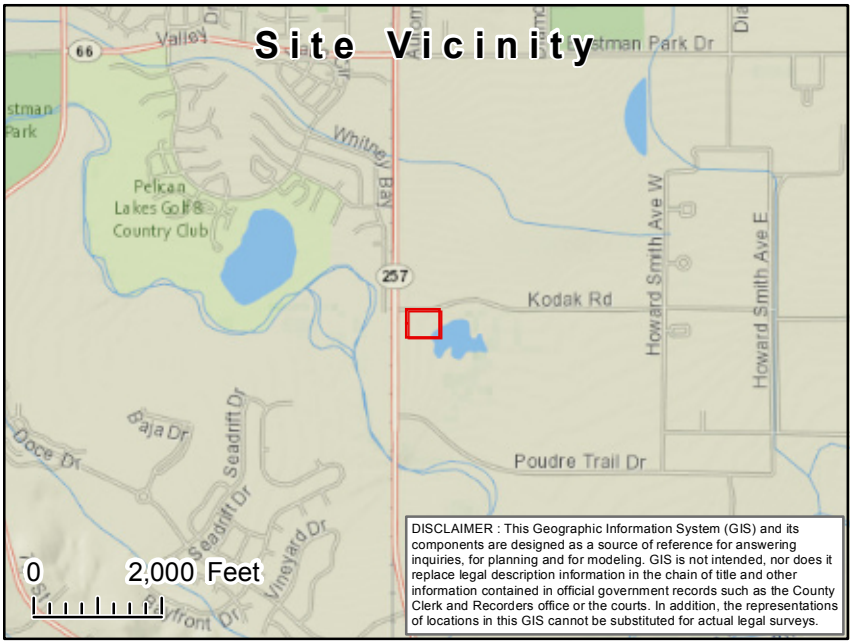

Figure 1 - Monitor Well Location Map

Location: GREAT WESTERN 27-13 (AKA PAD8)

Great Western Oil and Gas

Legend

- Recovery Point
- Monitor Well
- Affected Area

N
W E
S

0 25 50 Feet

HCSI
ENVIRONMENTAL CONSULTANTS

T:\Client_Specific\2008\EnCana\Pit Closures\ArcMap\2012 Pit Closures\Pad 8 MW Locations 2013-02-20.mxd HCSI_jharris

Revision Date: 2/20/2013 3:22:27 PM

18-Dec-2012

Skip Vest
HRL Compliance Solutions
2385 F 1/2 Road
Grand Junction, CO 81505

Re: **GW Pad 8 12-271 12/12/12** Work Order: **1212457**

Dear Skip,

ALS Environmental received 4 samples on 13-Dec-2012 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 31.

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

Sincerely,

Ann Preston

Electronically approved by: Alex Csaszar

Ann Preston
Project Manager

Certificate No: MN331938

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: **HRL** Date/Time Received: **13-Dec-12 09:30**

Work Order: **1212457** Received by: **KRW**

Checklist completed by Joseph Ribar (eSignature) 13-Dec-12 (Date) Reviewed by: Ann Preston (eSignature) 13-Dec-12 (Date)

Matrices: Soil
Carrier name: Courier

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):	4.8 C		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	12/13/2012 11:12:46 AM		
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:

ALS Group USA, Corp

Date: 18-Dec-12

Client: HRL Compliance Solutions
Project: GW Pad 8 12-271 12/12/12
Work Order: 1212457

Case Narrative

QC Comments:

Batch 45419, MS/MSD data for Metals is not related to this project's samples. No data requires qualification.

Batch R113918, Method GRO_8015_W, Sample GBLK1-12213: High surrogate does not affect reported samples; all other QC and samples have surrogates within control limits.

ALS Group USA, Corp

Date: 18-Dec-12

Client: HRL Compliance Solutions
Project: GW Pad 8 12-271 12/12/12
WorkOrder: **1212457**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	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

Acronym	Description
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
RPD	Relative Percent Difference
SD	Serial Dilution
TDL	Target Detection Limit

Units Reported	Description
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight
mg/Kg-dry	Milligrams per Kilogram Dry Weight
µmhos/cm @25°	
none	
s.u.	Standard Units

ALS Group USA, Corp

Date: *18-Dec-12*

Client: HRL Compliance Solutions
Project: GW Pad 8 12-271 12/12/12 **Work Order:** 1212457
Sample ID: Pad 8 East Wall **Lab ID:** 1212457-01
Collection Date: 12/12/2012 11:30 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			**SW8015M**		Prep Date: **12/13/2012**	Analyst: **CW**
DRO (C10-C28)	**49**		**4.8**	**mg/Kg-dry**	1	12/13/2012 07:50 PM
Surr: 4-Terphenyl-d14	*92.2*		*39-115*	*%REC*	1	12/13/2012 07:50 PM
GASOLINE RANGE ORGANICS BY GC-FID			**SW8015**			Analyst: **CW**
GRO (C6-C10)	ND		2.9	mg/Kg-dry	50	12/13/2012 04:53 PM
Surr: Toluene-d8	*101*		*50-150*	*%REC*	50	12/13/2012 04:53 PM
MERCURY BY CVAA			**SW7471**		Prep Date: **12/14/2012**	Analyst: **LR**
Mercury	**0.021**		**0.019**	**mg/Kg-dry**	1	12/14/2012 02:52 PM
METALS BY ICP-MS			**SW6020A**		Prep Date: **12/14/2012**	Analyst: **CES**
Arsenic	**3.3**		**0.86**	**mg/Kg-dry**	2	12/14/2012 08:25 PM
Barium	**140**		**0.86**	**mg/Kg-dry**	2	12/14/2012 08:25 PM
Cadmium	ND		0.34	mg/Kg-dry	2	12/14/2012 08:25 PM
Chromium	**13**		**0.86**	**mg/Kg-dry**	2	12/14/2012 08:25 PM
Copper	**9.6**		**0.86**	**mg/Kg-dry**	2	12/14/2012 08:25 PM
Lead	**9.2**		**0.86**	**mg/Kg-dry**	2	12/14/2012 08:25 PM
Nickel	**9.3**		**0.86**	**mg/Kg-dry**	2	12/14/2012 08:25 PM
Selenium	**1.2**		**0.86**	**mg/Kg-dry**	2	12/14/2012 08:25 PM
Silver	ND		0.86	mg/Kg-dry	2	12/14/2012 08:25 PM
Zinc	**36**		**1.7**	**mg/Kg-dry**	2	12/14/2012 08:25 PM
SOLUBLE CATIONS FOR SAR			**SW6020A**		Prep Date: **12/17/2012**	Analyst: **CES**
Calcium	**710**		**5.8**	**mg/L-dry**	10	12/17/2012 02:15 PM
Magnesium	**380**		**2.3**	**mg/L-dry**	10	12/17/2012 02:15 PM
Sodium	**430**		**2.3**	**mg/L-dry**	10	12/17/2012 02:15 PM
SODIUM ADSORPTION RATIO			**USDA H60 METHO**		Prep Date: **12/17/2012**	Analyst: **CES**
Sodium Adsorption Ratio	**3.0**		**0.010**	**none**	1	12/18/2012
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW8270**		Prep Date: **12/14/2012**	Analyst: **RM**
Acenaphthene	ND		17	µg/Kg-dry	1	12/14/2012 02:27 PM
Anthracene	ND		17	µg/Kg-dry	1	12/14/2012 02:27 PM
Benzo(a)pyrene	ND		20	µg/Kg-dry	1	12/14/2012 02:27 PM
Benzo(b)fluoranthene	ND		21	µg/Kg-dry	1	12/14/2012 02:27 PM
Benzo(g,h,i)perylene	ND		32	µg/Kg-dry	1	12/14/2012 02:27 PM
Benzo(k)fluoranthene	ND		21	µg/Kg-dry	1	12/14/2012 02:27 PM
Chrysene	ND		17	µg/Kg-dry	1	12/14/2012 02:27 PM
Dibenzo(a,h)anthracene	ND		21	µg/Kg-dry	1	12/14/2012 02:27 PM
Fluoranthene	ND		17	µg/Kg-dry	1	12/14/2012 02:27 PM
Fluorene	ND		17	µg/Kg-dry	1	12/14/2012 02:27 PM
Indeno(1,2,3-cd)pyrene	ND		23	µg/Kg-dry	1	12/14/2012 02:27 PM

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

ALS Group USA, Corp

Date: *18-Dec-12*

Client: HRL Compliance Solutions
Project: GW Pad 8 12-271 12/12/12 **Work Order:** 1212457
Sample ID: Pad 8 East Wall **Lab ID:** 1212457-01
Collection Date: 12/12/2012 11:30 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Naphthalene	ND		17	µg/Kg-dry	1	12/14/2012 02:27 PM
Pyrene	ND		17	µg/Kg-dry	1	12/14/2012 02:27 PM
Surr: 2-Fluorobiphenyl	*76.8*		*12-100*	*%REC*	1	12/14/2012 02:27 PM
Surr: 4-Terphenyl-d14	*102*		*25-137*	*%REC*	1	12/14/2012 02:27 PM
Surr: Nitrobenzene-d5	*78.5*		*37-107*	*%REC*	1	12/14/2012 02:27 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260**		Prep Date: **12/13/2012**	Analyst: **RS**
Benzene	ND		35	µg/Kg-dry	1	12/13/2012 03:38 PM
Ethylbenzene	ND		35	µg/Kg-dry	1	12/13/2012 03:38 PM
m,p-Xylene	ND		70	µg/Kg-dry	1	12/13/2012 03:38 PM
o-Xylene	ND		35	µg/Kg-dry	1	12/13/2012 03:38 PM
Toluene	ND		35	µg/Kg-dry	1	12/13/2012 03:38 PM
Xylenes, Total	ND		100	µg/Kg-dry	1	12/13/2012 03:38 PM
Surr: 1,2-Dichloroethane-d4	*96.6*		*70-130*	*%REC*	1	12/13/2012 03:38 PM
Surr: 4-Bromofluorobenzene	*96.7*		*70-130*	*%REC*	1	12/13/2012 03:38 PM
Surr: Dibromofluoromethane	*93.1*		*70-130*	*%REC*	1	12/13/2012 03:38 PM
Surr: Toluene-d8	*92.0*		*70-130*	*%REC*	1	12/13/2012 03:38 PM
ELECTRICAL CONDUCTIVITY (SAR)			**USDA H60 METHO**		Prep Date: **12/17/2012**	Analyst: **JB**
Electrical Conductivity @ Saturation	**7.2**		**0.025**	**mmhos/cm @2**	5	12/17/2012 02:00 PM
CHROMIUM, TRIVALENT			**CALCULATION**			Analyst: **JJG**
Chromium, Trivalent	**13**		**0.58**	**mg/Kg-dry**	1	12/17/2012 04:24 PM
CHROMIUM, HEXAVALENT			**SW7196A**		Prep Date: **12/17/2012**	Analyst: **JB**
Chromium, Hexavalent	ND		0.58	mg/Kg-dry	1	12/17/2012 03:30 PM
MOISTURE			**A2540 G**			Analyst: **LR**
Moisture	**14**		**0.050**	**% of sample**	1	12/13/2012 11:00 AM
PH			**SW9045D**			Analyst: **EE**
pH	**8.29**			**s.u.**	1	12/14/2012 09:45 AM

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

ALS Group USA, Corp

Date: *18-Dec-12*

Client: HRL Compliance Solutions
Project: GW Pad 8 12-271 12/12/12 **Work Order:** 1212457
Sample ID: Pad 8 North Wall **Lab ID:** 1212457-02
Collection Date: 12/12/2012 12:30 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			**SW8015M**		Prep Date: **12/13/2012**	Analyst: **CW**
DRO (C10-C28)	**140**		**4.7**	**mg/Kg-dry**	1	12/13/2012 08:16 PM
Surr: 4-Terphenyl-d14	*104*		*39-115*	*%REC*	1	12/13/2012 08:16 PM
GASOLINE RANGE ORGANICS BY GC-FID			**SW8015**			Analyst: **CW**
GRO (C6-C10)	ND		2.8	mg/Kg-dry	50	12/13/2012 04:03 PM
Surr: Toluene-d8	*102*		*50-150*	*%REC*	50	12/13/2012 04:03 PM
MERCURY BY CVAA			**SW7471**		Prep Date: **12/14/2012**	Analyst: **LR**
Mercury	**0.026**		**0.021**	**mg/Kg-dry**	1	12/14/2012 03:00 PM
METALS BY ICP-MS			**SW6020A**		Prep Date: **12/14/2012**	Analyst: **CES**
Arsenic	**4.2**		**0.88**	**mg/Kg-dry**	2	12/14/2012 08:31 PM
Barium	**280**		**0.88**	**mg/Kg-dry**	2	12/14/2012 08:31 PM
Cadmium	ND		0.35	mg/Kg-dry	2	12/14/2012 08:31 PM
Chromium	**13**		**0.88**	**mg/Kg-dry**	2	12/14/2012 08:31 PM
Copper	**17**		**0.88**	**mg/Kg-dry**	2	12/14/2012 08:31 PM
Lead	**10**		**0.88**	**mg/Kg-dry**	2	12/14/2012 08:31 PM
Nickel	**11**		**0.88**	**mg/Kg-dry**	2	12/14/2012 08:31 PM
Selenium	**1.4**		**0.88**	**mg/Kg-dry**	2	12/14/2012 08:31 PM
Silver	ND		0.88	mg/Kg-dry	2	12/14/2012 08:31 PM
Zinc	**39**		**1.8**	**mg/Kg-dry**	2	12/14/2012 08:31 PM
SOLUBLE CATIONS FOR SAR			**SW6020A**		Prep Date: **12/17/2012**	Analyst: **CES**
Calcium	**1,500**		**5.7**	**mg/L-dry**	10	12/18/2012 11:12 AM
Magnesium	**470**		**2.3**	**mg/L-dry**	10	12/18/2012 11:12 AM
Sodium	**440**		**2.3**	**mg/L-dry**	10	12/18/2012 11:12 AM
SODIUM ADSORPTION RATIO			**USDA H60 METHO**		Prep Date: **12/17/2012**	Analyst: **CES**
Sodium Adsorption Ratio	**2.4**		**0.010**	**none**	1	12/18/2012
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW8270**		Prep Date: **12/14/2012**	Analyst: **RM**
Acenaphthene	ND		17	µg/Kg-dry	1	12/14/2012 02:52 PM
Anthracene	ND		17	µg/Kg-dry	1	12/14/2012 02:52 PM
Benzo(a)pyrene	ND		19	µg/Kg-dry	1	12/14/2012 02:52 PM
Benzo(b)fluoranthene	**24**		**20**	**µg/Kg-dry**	1	12/14/2012 02:52 PM
Benzo(g,h,i)perylene	ND		31	µg/Kg-dry	1	12/14/2012 02:52 PM
Benzo(k)fluoranthene	ND		20	µg/Kg-dry	1	12/14/2012 02:52 PM
Chrysene	**52**		**17**	**µg/Kg-dry**	1	12/14/2012 02:52 PM
Dibenzo(a,h)anthracene	ND		20	µg/Kg-dry	1	12/14/2012 02:52 PM
Fluoranthene	**24**		**17**	**µg/Kg-dry**	1	12/14/2012 02:52 PM
Fluorene	**28**		**17**	**µg/Kg-dry**	1	12/14/2012 02:52 PM
Indeno(1,2,3-cd)pyrene	ND		22	µg/Kg-dry	1	12/14/2012 02:52 PM

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

ALS Group USA, Corp

Date: *18-Dec-12*

Client: HRL Compliance Solutions
Project: GW Pad 8 12-271 12/12/12 **Work Order:** 1212457
Sample ID: Pad 8 North Wall **Lab ID:** 1212457-02
Collection Date: 12/12/2012 12:30 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Naphthalene	**43**		**17**	**µg/Kg-dry**	1	12/14/2012 02:52 PM
Pyrene	**31**		**17**	**µg/Kg-dry**	1	12/14/2012 02:52 PM
Surr: 2-Fluorobiphenyl	*75.0*		*12-100*	*%REC*	1	12/14/2012 02:52 PM
Surr: 4-Terphenyl-d14	*99.0*		*25-137*	*%REC*	1	12/14/2012 02:52 PM
Surr: Nitrobenzene-d5	*83.0*		*37-107*	*%REC*	1	12/14/2012 02:52 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260**		Prep Date: **12/13/2012**	Analyst: **RS**
Benzene	ND		34	µg/Kg-dry	1	12/13/2012 04:03 PM
Ethylbenzene	ND		34	µg/Kg-dry	1	12/13/2012 04:03 PM
m,p-Xylene	ND		68	µg/Kg-dry	1	12/13/2012 04:03 PM
o-Xylene	ND		34	µg/Kg-dry	1	12/13/2012 04:03 PM
Toluene	ND		34	µg/Kg-dry	1	12/13/2012 04:03 PM
Xylenes, Total	ND		100	µg/Kg-dry	1	12/13/2012 04:03 PM
Surr: 1,2-Dichloroethane-d4	*98.2*		*70-130*	*%REC*	1	12/13/2012 04:03 PM
Surr: 4-Bromofluorobenzene	*99.4*		*70-130*	*%REC*	1	12/13/2012 04:03 PM
Surr: Dibromofluoromethane	*95.3*		*70-130*	*%REC*	1	12/13/2012 04:03 PM
Surr: Toluene-d8	*92.5*		*70-130*	*%REC*	1	12/13/2012 04:03 PM
ELECTRICAL CONDUCTIVITY (SAR)			**USDA H60 METHO**		Prep Date: **12/17/2012**	Analyst: **JB**
Electrical Conductivity @ Saturation	**10**		**0.025**	**mmhos/cm @2**	5	12/17/2012 02:00 PM
CHROMIUM, TRIVALENT			**CALCULATION**			Analyst: **JJG**
Chromium, Trivalent	**13**		**0.57**	**mg/Kg-dry**	1	12/17/2012 04:24 PM
CHROMIUM, HEXAVALENT			**SW7196A**		Prep Date: **12/17/2012**	Analyst: **JB**
Chromium, Hexavalent	ND		0.56	mg/Kg-dry	1	12/17/2012 03:30 PM
MOISTURE			**A2540 G**			Analyst: **LR**
Moisture	**12**		**0.050**	**% of sample**	1	12/13/2012 11:00 AM
PH			**SW9045D**			Analyst: **EE**
pH	**7.91**			**s.u.**	1	12/14/2012 09:45 AM

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

ALS Group USA, Corp

Date: *18-Dec-12*

Client: HRL Compliance Solutions
Project: GW Pad 8 12-271 12/12/12 **Work Order:** 1212457
Sample ID: Pad 8 West Wall **Lab ID:** 1212457-03
Collection Date: 12/12/2012 01:15 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			**SW8015M**		Prep Date: **12/13/2012**	Analyst: **CW**
DRO (C10-C28)	**21**		**4.7**	**mg/Kg-dry**	1	12/13/2012 08:41 PM
Surr: 4-Terphenyl-d14	*79.9*		*39-115*	*%REC*	1	12/13/2012 08:41 PM
GASOLINE RANGE ORGANICS BY GC-FID			**SW8015**			Analyst: **CW**
GRO (C6-C10)	ND		2.9	mg/Kg-dry	50	12/13/2012 04:28 PM
Surr: Toluene-d8	*101*		*50-150*	*%REC*	50	12/13/2012 04:28 PM
MERCURY BY CVAA			**SW7471**		Prep Date: **12/14/2012**	Analyst: **LR**
Mercury	**0.028**		**0.019**	**mg/Kg-dry**	1	12/14/2012 03:02 PM
METALS BY ICP-MS			**SW6020A**		Prep Date: **12/14/2012**	Analyst: **CES**
Arsenic	**4.6**		**0.77**	**mg/Kg-dry**	2	12/14/2012 10:25 PM
Barium	**110**		**0.77**	**mg/Kg-dry**	2	12/14/2012 10:25 PM
Cadmium	ND		0.31	mg/Kg-dry	2	12/14/2012 10:25 PM
Chromium	**14**		**0.77**	**mg/Kg-dry**	2	12/14/2012 10:25 PM
Copper	**12**		**0.77**	**mg/Kg-dry**	2	12/14/2012 10:25 PM
Lead	**12**		**0.77**	**mg/Kg-dry**	2	12/14/2012 10:25 PM
Nickel	**12**		**0.77**	**mg/Kg-dry**	2	12/14/2012 10:25 PM
Selenium	**1.3**		**0.77**	**mg/Kg-dry**	2	12/14/2012 10:25 PM
Silver	ND		0.77	mg/Kg-dry	2	12/14/2012 10:25 PM
Zinc	**49**		**1.5**	**mg/Kg-dry**	2	12/14/2012 10:25 PM
SOLUBLE CATIONS FOR SAR			**SW6020A**		Prep Date: **12/17/2012**	Analyst: **CES**
Calcium	**510**		**58**	**mg/L-dry**	100	12/18/2012 11:18 AM
Magnesium	**210**		**23**	**mg/L-dry**	100	12/18/2012 11:18 AM
Sodium	**250**		**23**	**mg/L-dry**	100	12/18/2012 11:18 AM
SODIUM ADSORPTION RATIO			**USDA H60 METHO**		Prep Date: **12/17/2012**	Analyst: **CES**
Sodium Adsorption Ratio	**2.2**		**0.010**	**none**	1	12/18/2012
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW8270**		Prep Date: **12/14/2012**	Analyst: **RM**
Acenaphthene	ND		17	µg/Kg-dry	1	12/14/2012 03:17 PM
Anthracene	ND		17	µg/Kg-dry	1	12/14/2012 03:17 PM
Benzo(a)pyrene	**37**		**19**	**µg/Kg-dry**	1	12/14/2012 03:17 PM
Benzo(b)fluoranthene	**53**		**20**	**µg/Kg-dry**	1	12/14/2012 03:17 PM
Benzo(g,h,i)perylene	ND		32	µg/Kg-dry	1	12/14/2012 03:17 PM
Benzo(k)fluoranthene	**30**		**20**	**µg/Kg-dry**	1	12/14/2012 03:17 PM
Chrysene	**46**		**17**	**µg/Kg-dry**	1	12/14/2012 03:17 PM
Dibenzo(a,h)anthracene	ND		20	µg/Kg-dry	1	12/14/2012 03:17 PM
Fluoranthene	**68**		**17**	**µg/Kg-dry**	1	12/14/2012 03:17 PM
Fluorene	ND		17	µg/Kg-dry	1	12/14/2012 03:17 PM
Indeno(1,2,3-cd)pyrene	ND		23	µg/Kg-dry	1	12/14/2012 03:17 PM

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

ALS Group USA, Corp

Date: *18-Dec-12*

Client: HRL Compliance Solutions
Project: GW Pad 8 12-271 12/12/12 **Work Order:** 1212457
Sample ID: Pad 8 West Wall **Lab ID:** 1212457-03
Collection Date: 12/12/2012 01:15 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Naphthalene	ND		17	µg/Kg-dry	1	12/14/2012 03:17 PM
Pyrene	**60**		**17**	**µg/Kg-dry**	1	12/14/2012 03:17 PM
Surr: 2-Fluorobiphenyl	*72.0*		*12-100*	*%REC*	1	12/14/2012 03:17 PM
Surr: 4-Terphenyl-d14	*94.3*		*25-137*	*%REC*	1	12/14/2012 03:17 PM
Surr: Nitrobenzene-d5	*77.3*		*37-107*	*%REC*	1	12/14/2012 03:17 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260**		Prep Date: **12/13/2012**	Analyst: **RS**
Benzene	ND		35	µg/Kg-dry	1	12/13/2012 04:29 PM
Ethylbenzene	ND		35	µg/Kg-dry	1	12/13/2012 04:29 PM
m,p-Xylene	ND		70	µg/Kg-dry	1	12/13/2012 04:29 PM
o-Xylene	ND		35	µg/Kg-dry	1	12/13/2012 04:29 PM
Toluene	ND		35	µg/Kg-dry	1	12/13/2012 04:29 PM
Xylenes, Total	ND		100	µg/Kg-dry	1	12/13/2012 04:29 PM
Surr: 1,2-Dichloroethane-d4	*96.8*		*70-130*	*%REC*	1	12/13/2012 04:29 PM
Surr: 4-Bromofluorobenzene	*97.4*		*70-130*	*%REC*	1	12/13/2012 04:29 PM
Surr: Dibromofluoromethane	*95.8*		*70-130*	*%REC*	1	12/13/2012 04:29 PM
Surr: Toluene-d8	*93.9*		*70-130*	*%REC*	1	12/13/2012 04:29 PM
ELECTRICAL CONDUCTIVITY (SAR)			**USDA H60 METHO**		Prep Date: **12/17/2012**	Analyst: **JB**
Electrical Conductivity @ Saturation	**3.8**		**0.010**	**mmhos/cm @2**	2	12/17/2012 02:00 PM
CHROMIUM, TRIVALENT			**CALCULATION**			Analyst: **JJG**
Chromium, Trivalent	**14**		**0.58**	**mg/Kg-dry**	1	12/17/2012 04:24 PM
CHROMIUM, HEXAVALENT			**SW7196A**		Prep Date: **12/17/2012**	Analyst: **JB**
Chromium, Hexavalent	ND		0.59	mg/Kg-dry	1	12/17/2012 03:30 PM
MOISTURE			**A2540 G**			Analyst: **LR**
Moisture	**14**		**0.050**	**% of sample**	1	12/13/2012 11:00 AM
PH			**SW9045D**			Analyst: **EE**
pH	**8.02**			**s.u.**	1	12/14/2012 09:45 AM

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

ALS Group USA, Corp

Date: *18-Dec-12*

Client: HRL Compliance Solutions
Project: GW Pad 8 12-271 12/12/12 **Work Order:** 1212457
Sample ID: Pad 8 South Wall **Lab ID:** 1212457-04
Collection Date: 12/12/2012 01:35 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			**SW8015M**		Prep Date: **12/13/2012**	Analyst: **CW**
DRO (C10-C28)	**19**		**4.8**	**mg/Kg-dry**	1	12/13/2012 09:06 PM
Surr: 4-Terphenyl-d14	*80.6*		*39-115*	*%REC*	1	12/13/2012 09:06 PM
GASOLINE RANGE ORGANICS BY GC-FID			**SW8015**			Analyst: **CW**
GRO (C6-C10)	ND		2.9	mg/Kg-dry	50	12/13/2012 05:18 PM
Surr: Toluene-d8	*97.2*		*50-150*	*%REC*	50	12/13/2012 05:18 PM
MERCURY BY CVAA			**SW7471**		Prep Date: **12/14/2012**	Analyst: **LR**
Mercury	**0.021**		**0.019**	**mg/Kg-dry**	1	12/14/2012 03:04 PM
METALS BY ICP-MS			**SW6020A**		Prep Date: **12/14/2012**	Analyst: **CES**
Arsenic	**3.5**		**0.85**	**mg/Kg-dry**	2	12/14/2012 10:31 PM
Barium	**120**		**0.85**	**mg/Kg-dry**	2	12/14/2012 10:31 PM
Cadmium	ND		0.34	mg/Kg-dry	2	12/14/2012 10:31 PM
Chromium	**16**		**0.85**	**mg/Kg-dry**	2	12/14/2012 10:31 PM
Copper	**11**		**0.85**	**mg/Kg-dry**	2	12/14/2012 10:31 PM
Lead	**11**		**0.85**	**mg/Kg-dry**	2	12/14/2012 10:31 PM
Nickel	**12**		**0.85**	**mg/Kg-dry**	2	12/14/2012 10:31 PM
Selenium	**1.3**		**0.85**	**mg/Kg-dry**	2	12/14/2012 10:31 PM
Silver	ND		0.85	mg/Kg-dry	2	12/14/2012 10:31 PM
Zinc	**46**		**1.7**	**mg/Kg-dry**	2	12/14/2012 10:31 PM
SOLUBLE CATIONS FOR SAR			**SW6020A**		Prep Date: **12/17/2012**	Analyst: **CES**
Calcium	**340**		**5.8**	**mg/L-dry**	10	12/18/2012 11:24 AM
Magnesium	**190**		**2.3**	**mg/L-dry**	10	12/18/2012 11:24 AM
Sodium	**310**		**2.3**	**mg/L-dry**	10	12/18/2012 11:24 AM
SODIUM ADSORPTION RATIO			**USDA H60 METHO**		Prep Date: **12/17/2012**	Analyst: **CES**
Sodium Adsorption Ratio	**3.1**		**0.010**	**none**	1	12/18/2012
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW8270**		Prep Date: **12/14/2012**	Analyst: **RM**
Acenaphthene	ND		17	µg/Kg-dry	1	12/14/2012 03:43 PM
Anthracene	ND		17	µg/Kg-dry	1	12/14/2012 03:43 PM
Benzo(a)pyrene	ND		20	µg/Kg-dry	1	12/14/2012 03:43 PM
Benzo(b)fluoranthene	**22**		**21**	**µg/Kg-dry**	1	12/14/2012 03:43 PM
Benzo(g,h,i)perylene	ND		32	µg/Kg-dry	1	12/14/2012 03:43 PM
Benzo(k)fluoranthene	ND		21	µg/Kg-dry	1	12/14/2012 03:43 PM
Chrysene	**24**		**17**	**µg/Kg-dry**	1	12/14/2012 03:43 PM
Dibenzo(a,h)anthracene	ND		21	µg/Kg-dry	1	12/14/2012 03:43 PM
Fluoranthene	**33**		**17**	**µg/Kg-dry**	1	12/14/2012 03:43 PM
Fluorene	ND		17	µg/Kg-dry	1	12/14/2012 03:43 PM
Indeno(1,2,3-cd)pyrene	ND		23	µg/Kg-dry	1	12/14/2012 03:43 PM

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

ALS Group USA, Corp

Date: *18-Dec-12*

Client: HRL Compliance Solutions
Project: GW Pad 8 12-271 12/12/12 **Work Order:** 1212457
Sample ID: Pad 8 South Wall **Lab ID:** 1212457-04
Collection Date: 12/12/2012 01:35 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Naphthalene	ND		17	µg/Kg-dry	1	12/14/2012 03:43 PM
Pyrene	**33**		**17**	**µg/Kg-dry**	1	12/14/2012 03:43 PM
Surr: 2-Fluorobiphenyl	*70.5*		*12-100*	*%REC*	1	12/14/2012 03:43 PM
Surr: 4-Terphenyl-d14	*91.9*		*25-137*	*%REC*	1	12/14/2012 03:43 PM
Surr: Nitrobenzene-d5	*77.5*		*37-107*	*%REC*	1	12/14/2012 03:43 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260**		Prep Date: **12/13/2012**	Analyst: **RS**
Benzene	ND		35	µg/Kg-dry	1	12/13/2012 04:54 PM
Ethylbenzene	ND		35	µg/Kg-dry	1	12/13/2012 04:54 PM
m,p-Xylene	ND		70	µg/Kg-dry	1	12/13/2012 04:54 PM
o-Xylene	ND		35	µg/Kg-dry	1	12/13/2012 04:54 PM
Toluene	ND		35	µg/Kg-dry	1	12/13/2012 04:54 PM
Xylenes, Total	ND		110	µg/Kg-dry	1	12/13/2012 04:54 PM
Surr: 1,2-Dichloroethane-d4	*97.6*		*70-130*	*%REC*	1	12/13/2012 04:54 PM
Surr: 4-Bromofluorobenzene	*98.4*		*70-130*	*%REC*	1	12/13/2012 04:54 PM
Surr: Dibromofluoromethane	*95.7*		*70-130*	*%REC*	1	12/13/2012 04:54 PM
Surr: Toluene-d8	*93.4*		*70-130*	*%REC*	1	12/13/2012 04:54 PM
ELECTRICAL CONDUCTIVITY (SAR)			**USDA H60 METHO**		Prep Date: **12/17/2012**	Analyst: **JB**
Electrical Conductivity @ Saturation	**4.2**		**0.025**	**mmhos/cm @2**	5	12/17/2012 02:00 PM
CHROMIUM, TRIVALENT			**CALCULATION**			Analyst: **JJG**
Chromium, Trivalent	**16**		**0.58**	**mg/Kg-dry**	1	12/17/2012 04:24 PM
CHROMIUM, HEXAVALENT			**SW7196A**		Prep Date: **12/17/2012**	Analyst: **JB**
Chromium, Hexavalent	ND		0.58	mg/Kg-dry	1	12/17/2012 03:30 PM
MOISTURE			**A2540 G**			Analyst: **LR**
Moisture	**14**		**0.050**	**% of sample**	1	12/13/2012 11:00 AM
PH			**SW9045D**			Analyst: **EE**
pH	**8.15**			**s.u.**	1	12/14/2012 09:45 AM

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

ALS Group USA, Corp

Date: 18-Dec-12

Client: HRL Compliance Solutions

QC BATCH REPORT

Work Order: 1212457

Project: GW Pad 8 12-271 12/12/12

Batch ID: **45381** Instrument ID **GC8** Method: **SW8015M**

MBLK Sample ID: **DBLKS1-45381-45381** Units: **mg/Kg** Analysis Date: **12/13/2012 05:44 PM**

Client ID: Run ID: **GC8_121213A** SeqNo: **2168888** Prep Date: **12/13/2012** 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								
Surr: 4-Terphenyl-d14	*1.268*	0	*1.667*	0	*76.1*	*39-115*	0			

LCS Sample ID: **DLCSS1-45381-45381** Units: **mg/Kg** Analysis Date: **12/13/2012 06:09 PM**

Client ID: Run ID: **GC8_121213A** SeqNo: **2168889** Prep Date: **12/13/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	118.5	4.2	166.7	0	71.1	49-124	0			
Surr: 4-Terphenyl-d14	*1.368*	0	*1.667*	0	*82.1*	*39-115*	0			

MS Sample ID: **1212419-04A MS** Units: **mg/Kg** Analysis Date: **12/13/2012 06:35 PM**

Client ID: Run ID: **GC8_121213A** SeqNo: **2168890** Prep Date: **12/13/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	383.4	12	494.2	34.91	70.5	49-130	0			
Surr: 4-Terphenyl-d14	*4.149*	0	*4.942*	0	*84*	*39-115*	0			

MSD Sample ID: **1212419-04A MSD** Units: **mg/Kg** Analysis Date: **12/13/2012 07:00 PM**

Client ID: Run ID: **GC8_121213A** SeqNo: **2168891** Prep Date: **12/13/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	337.1	12	462.6	34.91	65.3	49-130	383.4	12.8	30	
Surr: 4-Terphenyl-d14	*3.767*	0	*4.626*	0	*81.4*	*39-115*	4.149	*9.65*	*30*	

The following samples were analyzed in this batch: 1212457-01B 1212457-02B 1212457-03B 1212457-04B

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

Client: HRL Compliance Solutions
Work Order: 1212457
Project: GW Pad 8 12-271 12/12/12

QC BATCH REPORT

Batch ID: **R113918** Instrument ID **GC10** Method: **SW8015**

MBLK Sample ID: **GBLK1-12213-R113918** Units: **µg/L** Analysis Date: **12/13/2012 03:14 PM**
Client ID: Run ID: **GC10_121213A** SeqNo: **2168857** 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								
Surr: Toluene-d8	*141.9*	0	*100*	0	*142*	*70-130*	0			*S*

LCS Sample ID: **GLCS1-121213-R113918** Units: **µg/L** Analysis Date: **12/13/2012 02:24 PM**
Client ID: Run ID: **GC10_121213A** SeqNo: **2168856** 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)	8094	200	10000	0	80.9	70-130	0			
Surr: Toluene-d8	*119.1*	0	*100*	0	*119*	*70-130*	0			

MS Sample ID: **1212457-03C MS** Units: **µg/Kg** Analysis Date: **12/13/2012 09:50 PM**
Client ID: **Pad 8 West Wall** Run ID: **GC10_121213A** SeqNo: **2168870** 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)	366100	2,500	500000	0	73.2	70-130	0			
Surr: Toluene-d8	*5154*	0	*5000*	0	*103*	*50-150*	0			

MSD Sample ID: **1212457-03C MSD** Units: **µg/Kg** Analysis Date: **12/13/2012 10:15 PM**
Client ID: **Pad 8 West Wall** Run ID: **GC10_121213A** SeqNo: **2168871** 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)	382300	2,500	500000	0	76.5	70-130	366100	4.35	30	
Surr: Toluene-d8	*5592*	0	*5000*	0	*112*	*50-150*	5154	*8.15*	*30*	

The following samples were analyzed in this batch: 1212457-01C 1212457-02C 1212457-03C 1212457-04C

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

Client: HRL Compliance Solutions
Work Order: 1212457
Project: GW Pad 8 12-271 12/12/12

QC BATCH REPORT

Batch ID: **45412** Instrument ID **HG1** Method: **SW7471**

MBLK Sample ID: **MBLK-45412-45412** Units: **mg/Kg** Analysis Date: **12/14/2012 01:58 PM**
Client ID: Run ID: **HG1_121214A** SeqNo: **2169734** Prep Date: **12/14/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.002833	0.020								J

LCS Sample ID: **LCS-45412-45412** Units: **mg/Kg** Analysis Date: **12/14/2012 02:07 PM**
Client ID: Run ID: **HG1_121214A** SeqNo: **2169735** Prep Date: **12/14/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.165	0.020	0.1665	0	99.1	80-120	0			

MS Sample ID: **1212347-01BMS** Units: **mg/Kg** Analysis Date: **12/14/2012 02:33 PM**
Client ID: Run ID: **HG1_121214A** SeqNo: **2169869** Prep Date: **12/14/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1617	0.017	0.1448	0.01306	103	75-125	0			

MSD Sample ID: **1212347-01BMSD** Units: **mg/Kg** Analysis Date: **12/14/2012 02:35 PM**
Client ID: Run ID: **HG1_121214A** SeqNo: **2169870** Prep Date: **12/14/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1554	0.017	0.1388	0.01306	103	75-125	0.1617	3.99	35	

The following samples were analyzed in this batch:

1212457-01B	1212457-02B	1212457-03B
1212457-04B		

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

QC BATCH REPORT

Batch ID: **45383** Instrument ID **ICPMS1** Method: **SW6020A** **(Dissolve)**

DUP Sample ID: **1212457-01D DUP** Units: **mg/L** Analysis Date: **12/17/2012 02:22 PM**
Client ID: **Pad 8 East Wall** Run ID: **ICPMS1_121217A** SeqNo: **2171648** Prep Date: **12/17/2012** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	606.5	5.0	0	0	0	-0 0	612.1	0.919		
Magnesium	324.7	2.0	0	0	0	-0 0	326.6	0.583		
Sodium	368	2.0	0	0	0	-0 0	372.4	1.19		

DUP Sample ID: **1212457-01D DUP** Units: **none** Analysis Date: **12/18/2012**
Client ID: **Pad 8 East Wall** Run ID: **SAR_121218A** SeqNo: **2172909** Prep Date: **12/17/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	2.999	0.010	0	0	0		3.023	0.808	50	

The following samples were analyzed in this batch: 1212457-01D 1212457-02D 1212457-03D 1212457-04D

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

Client: HRL Compliance Solutions
Work Order: 1212457
Project: GW Pad 8 12-271 12/12/12

QC BATCH REPORT

Batch ID: **45419** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK Sample ID: **MBLK-45419-45419** Units: **mg/Kg** Analysis Date: **12/14/2012 06:33 PM**
Client ID: Run ID: **ICPMS1_121214A** SeqNo: **2170713** Prep Date: **12/14/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.25								
Barium	ND	0.25								
Cadmium	ND	0.10								
Chromium	0.00913	0.25								J
Copper	0.009965	0.25								J
Lead	ND	0.25								
Nickel	ND	0.25								
Selenium	ND	0.25								
Silver	ND	0.25								
Zinc	ND	0.50								

LCS Sample ID: **LCS-45419-45419** Units: **mg/Kg** Analysis Date: **12/14/2012 06:40 PM**
Client ID: Run ID: **ICPMS1_121214A** SeqNo: **2170714** Prep Date: **12/14/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.224	0.25	5	0	84.5	80-120	0			
Barium	4.677	0.25	5	0	93.5	80-120	0			
Cadmium	4.683	0.10	5	0	93.7	80-120	0			
Chromium	4.356	0.25	5	0	87.1	80-120	0			
Copper	4.426	0.25	5	0	88.5	80-120	0			
Lead	4.734	0.25	5	0	94.7	80-120	0			
Nickel	4.407	0.25	5	0	88.1	80-120	0			
Selenium	4.042	0.25	5	0	80.8	80-120	0			
Silver	4.473	0.25	5	0	89.5	80-120	0			
Zinc	4.176	0.50	5	0	83.5	80-120	0			

MS Sample ID: **1212347-02BMS** Units: **mg/Kg** Analysis Date: **12/14/2012 08:08 PM**
Client ID: Run ID: **ICPMS1_121214A** SeqNo: **2170725** Prep Date: **12/14/2012** DF: **2**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium	7.309	0.31	7.716	0.1854	92.3	75-125	0			
Chromium	14.49	0.77	7.716	8.228	81.2	75-125	0			
Lead	14.52	0.77	7.716	8.116	83.1	75-125	0			
Nickel	14.2	0.77	7.716	7.532	86.4	75-125	0			
Selenium	6.574	0.77	7.716	0.9132	73.4	75-125	0			S
Silver	6.244	0.77	7.716	0.03408	80.5	75-125	0			

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

Client: HRL Compliance Solutions
Work Order: 1212457
Project: GW Pad 8 12-271 12/12/12

QC BATCH REPORT

Batch ID: **45419** Instrument ID **ICPMS1** Method: **SW6020A**

MS Sample ID: **1212347-02BMS** Units: **mg/Kg** Analysis Date: **12/14/2012 10:55 PM**
Client ID: Run ID: **ICPMS1_121214A** SeqNo: **2170770** Prep Date: **12/14/2012** DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.702	7.7	7.716	2.973	87.2	75-125	0			
Barium	820.7	7.7	7.716	837.8	-222	75-125	0			SO
Copper	17.39	7.7	7.716	10.78	85.7	75-125	0			
Zinc	43.95	15	7.716	38.57	69.7	75-125	0			SO

MSD Sample ID: **1212347-02BMSD** Units: **mg/Kg** Analysis Date: **12/14/2012 08:14 PM**
Client ID: Run ID: **ICPMS1_121214A** SeqNo: **2170726** Prep Date: **12/14/2012** DF: **2**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium	7.63	0.31	7.874	0.1854	94.5	75-125	7.309	4.3	25	
Chromium	15.19	0.79	7.874	8.228	88.4	75-125	14.49	4.69	25	
Lead	15.39	0.79	7.874	8.116	92.4	75-125	14.52	5.79	25	
Nickel	15.15	0.79	7.874	7.532	96.8	75-125	14.2	6.53	25	
Selenium	7.145	0.79	7.874	0.9132	79.1	75-125	6.574	8.32	25	
Silver	6.487	0.79	7.874	0.03408	81.9	75-125	6.244	3.81	25	

MSD Sample ID: **1212347-02BMSD** Units: **mg/Kg** Analysis Date: **12/14/2012 11:01 PM**
Client ID: Run ID: **ICPMS1_121214A** SeqNo: **2170771** Prep Date: **12/14/2012** DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.02	7.9	7.874	2.973	76.8	75-125	9.702	7.28	25	
Barium	865.2	7.9	7.874	837.8	348	75-125	820.7	5.28	25	SO
Copper	18.58	7.9	7.874	10.78	99.1	75-125	17.39	6.62	25	
Zinc	46.58	16	7.874	38.57	102	75-125	43.95	5.81	25	O

The following samples were analyzed in this batch:

1212457-01B	1212457-02B	1212457-03B
1212457-04B		

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

Client: HRL Compliance Solutions
Work Order: 1212457
Project: GW Pad 8 12-271 12/12/12

QC BATCH REPORT

Batch ID: **45397** Instrument ID **SVMS7** Method: **SW8270**

MBLK Sample ID: **SBLKS1-45397-45397** Units: **µg/Kg** Analysis Date: **12/14/2012 02:13 PM**
Client ID: Run ID: **SVMS7_121214A** SeqNo: **2170018** Prep Date: **12/14/2012** 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)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								
Surr: 2-Fluorobiphenyl	*1108*	0	*1667*	0	*66.5*	*12-100*	0			
Surr: 4-Terphenyl-d14	*1320*	0	*1667*	0	*79.2*	*25-137*	0			
Surr: Nitrobenzene-d5	*1135*	0	*1667*	0	*68.1*	*37-107*	0			

LCS Sample ID: **SLCSS1-45397-45397** Units: **µg/Kg** Analysis Date: **12/17/2012 01:39 PM**
Client ID: Run ID: **SVMS7_121217A** SeqNo: **2171507** Prep Date: **12/14/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	555.3	30	666.7	0	83.3	45-110	0			
Anthracene	584	30	666.7	0	87.6	55-105	0			
Benzo(a)pyrene	638.3	30	666.7	0	95.7	50-110	0			
Benzo(b)fluoranthene	558.3	30	666.7	0	83.7	45-115	0			
Benzo(g,h,i)perylene	692.3	30	666.7	0	104	40-125	0			
Benzo(k)fluoranthene	673.7	30	666.7	0	101	45-115	0			
Chrysene	589.3	30	666.7	0	88.4	55-110	0			
Dibenzo(a,h)anthracene	680.3	30	666.7	0	102	40-125	0			
Fluoranthene	603	30	666.7	0	90.4	55-115	0			
Fluorene	575.3	30	666.7	0	86.3	50-110	0			
Indeno(1,2,3-cd)pyrene	687.7	30	666.7	0	103	40-120	0			
Naphthalene	559	30	666.7	0	83.8	40-105	0			
Pyrene	603	30	666.7	0	90.4	45-125	0			
Surr: 2-Fluorobiphenyl	*1040*	0	*1667*	0	*62.4*	*12-100*	0			
Surr: 4-Terphenyl-d14	*1314*	0	*1667*	0	*78.8*	*25-137*	0			
Surr: Nitrobenzene-d5	*1216*	0	*1667*	0	*72.9*	*37-107*	0			

The following samples were analyzed in this batch: 1212457-01B 1212457-02B 1212457-03B 1212457-04B

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

Client: HRL Compliance Solutions
Work Order: 1212457
Project: GW Pad 8 12-271 12/12/12

QC BATCH REPORT

Batch ID: **45449** Instrument ID **SVMS5** Method: **SW8270**

MBLK Sample ID: **SBLKS1-45449-45449** Units: **µg/Kg** Analysis Date: **12/17/2012 03:41 PM**
Client ID: Run ID: **SVMS5_121217A** SeqNo: **2172005** Prep Date: **12/17/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzo(a)pyrene	ND	30								
Surr: 2-Fluorobiphenyl	*1292*	0	*1667*	0	*77.5*	*12-100*	0			
Surr: 4-Terphenyl-d14	*1640*	0	*1667*	0	*98.4*	*25-137*	0			
Surr: Nitrobenzene-d5	*1377*	0	*1667*	0	*82.6*	*37-107*	0			

LCS Sample ID: **SLCSS1-45449-45449** Units: **µg/Kg** Analysis Date: **12/17/2012 04:12 PM**
Client ID: Run ID: **SVMS5_121217A** SeqNo: **2172006** Prep Date: **12/17/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzo(a)pyrene	637	30	666.7	0	95.5	50-110	0			
Surr: 2-Fluorobiphenyl	*1280*	0	*1667*	0	*76.8*	*12-100*	0			
Surr: 4-Terphenyl-d14	*1717*	0	*1667*	0	*103*	*25-137*	0			
Surr: Nitrobenzene-d5	*1315*	0	*1667*	0	*78.9*	*37-107*	0			

MS Sample ID: **1212560-01B MS** Units: **µg/Kg** Analysis Date: **12/17/2012 04:42 PM**
Client ID: Run ID: **SVMS5_121217A** SeqNo: **2172007** Prep Date: **12/17/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzo(a)pyrene	1618	83	1855	0	87.2	50-110	0			
Surr: 2-Fluorobiphenyl	*3385*	0	*4637*	0	*73*	*12-100*	0			
Surr: 4-Terphenyl-d14	*4522*	0	*4637*	0	*97.5*	*25-137*	0			
Surr: Nitrobenzene-d5	*3489*	0	*4637*	0	*75.3*	*37-107*	0			

MSD Sample ID: **1212560-01B MSD** Units: **µg/Kg** Analysis Date: **12/17/2012 05:13 PM**
Client ID: Run ID: **SVMS5_121217A** SeqNo: **2172008** Prep Date: **12/17/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzo(a)pyrene	1668	88	1946	0	85.7	50-110	1618	3.03	30	
Surr: 2-Fluorobiphenyl	*3522*	0	*4866*	0	*72.4*	*12-100*	3385	*3.97*	*40*	
Surr: 4-Terphenyl-d14	*4741*	0	*4866*	0	*97.4*	*25-137*	4522	*4.72*	*40*	
Surr: Nitrobenzene-d5	*3688*	0	*4866*	0	*75.8*	*37-107*	3489	*5.54*	*40*	

The following samples were analyzed in this batch: 1212457-03E

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

Client: HRL Compliance Solutions
Work Order: 1212457
Project: GW Pad 8 12-271 12/12/12

QC BATCH REPORT

Batch ID: **45388** Instrument ID **VMS9** Method: **SW8260**

MBLK Sample ID: **MBLK-45388-45388** Units: **µg/Kg** Analysis Date: **12/13/2012 12:39 PM**
Client ID: Run ID: **VMS9_121213A** SeqNo: **2168954** Prep Date: **12/13/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
Surr: 1,2-Dichloroethane-d4	*996*	0	*1000*	0	*99.6*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*966*	0	*1000*	0	*96.6*	*70-130*	0			
Surr: Dibromofluoromethane	*976.5*	0	*1000*	0	*97.6*	*70-130*	0			
Surr: Toluene-d8	*930.5*	0	*1000*	0	*93*	*70-130*	0			

MBLK Sample ID: **MBLK-45388-45388** Units: **µg/Kg** Analysis Date: **12/13/2012 03:09 PM**
Client ID: Run ID: **VMS8_121213A** SeqNo: **2169059** Prep Date: **12/13/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
Surr: 1,2-Dichloroethane-d4	*871.5*	0	*1000*	0	*87.2*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*966*	0	*1000*	0	*96.6*	*70-130*	0			
Surr: Dibromofluoromethane	*936*	0	*1000*	0	*93.6*	*70-130*	0			
Surr: Toluene-d8	*935*	0	*1000*	0	*93.5*	*70-130*	0			

MBLK Sample ID: **MBLK-45388-45388** Units: **µg/Kg** Analysis Date: **12/14/2012 01:27 A**
Client ID: Run ID: **VMS9_121213B** SeqNo: **2169257** Prep Date: **12/13/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
Surr: 1,2-Dichloroethane-d4	*964.5*	0	*1000*	0	*96.4*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*997*	0	*1000*	0	*99.7*	*70-130*	0			
Surr: Dibromofluoromethane	*961.5*	0	*1000*	0	*96.2*	*70-130*	0			
Surr: Toluene-d8	*896.5*	0	*1000*	0	*89.6*	*70-130*	0			

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

Client: HRL Compliance Solutions
Work Order: 1212457
Project: GW Pad 8 12-271 12/12/12

QC BATCH REPORT

Batch ID: **45388** Instrument ID **VMS9** Method: **SW8260**

MBLK Sample ID: **MBLK-45388-45388** Units: **µg/Kg** Analysis Date: **12/14/2012 01:59 PM**
Client ID: Run ID: **VMS9_121214A** SeqNo: **2170433** Prep Date: **12/13/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
Surr: 1,2-Dichloroethane-d4	*970.5*	0	*1000*	0	*97*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*1007*	0	*1000*	0	*101*	*70-130*	0			
Surr: Dibromofluoromethane	*954*	0	*1000*	0	*95.4*	*70-130*	0			
Surr: Toluene-d8	*888.5*	0	*1000*	0	*88.8*	*70-130*	0			

LCS Sample ID: **LCS-45388-45388** Units: **µg/Kg** Analysis Date: **12/13/2012 11:22 A**
Client ID: Run ID: **VMS9_121213A** SeqNo: **2168953** Prep Date: **12/13/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	915	30	1000	0	91.5	75-125	0			
Ethylbenzene	921.5	30	1000	0	92.2	75-125	0			
m,p-Xylene	1851	60	2000	0	92.6	80-125	0			
o-Xylene	913.5	30	1000	0	91.4	75-125	0			
Toluene	897	30	1000	0	89.7	70-125	0			
Xylenes, Total	2764	90	3000	0	92.2	75-125	0			
Surr: 1,2-Dichloroethane-d4	*939*	0	*1000*	0	*93.9*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*1018*	0	*1000*	0	*102*	*70-130*	0			
Surr: Dibromofluoromethane	*1024*	0	*1000*	0	*102*	*70-130*	0			
Surr: Toluene-d8	*984.5*	0	*1000*	0	*98.4*	*70-130*	0			

LCS Sample ID: **LCS-45388-45388** Units: **µg/Kg** Analysis Date: **12/13/2012 01:57 PM**
Client ID: Run ID: **VMS8_121213A** SeqNo: **2169056** Prep Date: **12/13/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	960.5	30	1000	0	96	75-125	0			
Ethylbenzene	1024	30	1000	0	102	75-125	0			
m,p-Xylene	2072	60	2000	0	104	80-125	0			
o-Xylene	1013	30	1000	0	101	75-125	0			
Toluene	1005	30	1000	0	100	70-125	0			
Xylenes, Total	3086	90	3000	0	103	75-125	0			
Surr: 1,2-Dichloroethane-d4	*916*	0	*1000*	0	*91.6*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*1018*	0	*1000*	0	*102*	*70-130*	0			
Surr: Dibromofluoromethane	*946*	0	*1000*	0	*94.6*	*70-130*	0			
Surr: Toluene-d8	*1020*	0	*1000*	0	*102*	*70-130*	0			

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

Client: HRL Compliance Solutions
Work Order: 1212457
Project: GW Pad 8 12-271 12/12/12

QC BATCH REPORT

Batch ID: **45388** Instrument ID **VMS9** Method: **SW8260**

LCS Sample ID: **LCS-45388-45388** Units: **µg/Kg** Analysis Date: **12/14/2012 12:10 PM**
Client ID: Run ID: **VMS9_121213B** SeqNo: **2169277** Prep Date: **12/13/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	952.5	30	1000	0	95.2	75-125	0			
Ethylbenzene	901.5	30	1000	0	90.2	75-125	0			
m,p-Xylene	1827	60	2000	0	91.4	80-125	0			
o-Xylene	912.5	30	1000	0	91.2	75-125	0			
Toluene	890.5	30	1000	0	89	70-125	0			
Xylenes, Total	2740	90	3000	0	91.3	75-125	0			
Surr: 1,2-Dichloroethane-d4	*966.5*	0	*1000*	0	*96.6*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*1016*	0	*1000*	0	*102*	*70-130*	0			
Surr: Dibromofluoromethane	*1025*	0	*1000*	0	*102*	*70-130*	0			
Surr: Toluene-d8	*944*	0	*1000*	0	*94.4*	*70-130*	0			

LCS Sample ID: **LCS-45388-45388** Units: **µg/Kg** Analysis Date: **12/14/2012 12:42 PM**
Client ID: Run ID: **VMS9_121214A** SeqNo: **2170432** Prep Date: **12/13/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1070	30	1000	0	107	75-125	0			
Ethylbenzene	963.5	30	1000	0	96.4	75-125	0			
m,p-Xylene	1944	60	2000	0	97.2	80-125	0			
o-Xylene	969	30	1000	0	96.9	75-125	0			
Toluene	928.5	30	1000	0	92.8	70-125	0			
Xylenes, Total	2913	90	3000	0	97.1	75-125	0			
Surr: 1,2-Dichloroethane-d4	*972*	0	*1000*	0	*97.2*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*1025*	0	*1000*	0	*102*	*70-130*	0			
Surr: Dibromofluoromethane	*1046*	0	*1000*	0	*105*	*70-130*	0			
Surr: Toluene-d8	*905*	0	*1000*	0	*90.5*	*70-130*	0			

MS Sample ID: **1212457-01A MS** Units: **µg/Kg** Analysis Date: **12/13/2012 09:36 PM**
Client ID: **Pad 8 East Wall** Run ID: **VMS9_121213A** SeqNo: **2168969** Prep Date: **12/13/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1023	30	1000	0	102	75-125	0			
Ethylbenzene	947	30	1000	0	94.7	75-125	0			
m,p-Xylene	1926	60	2000	15.5	95.5	80-125	0			
o-Xylene	979.5	30	1000	0	98	75-125	0			
Toluene	890	30	1000	0	89	70-125	0			
Xylenes, Total	2906	90	3000	15.5	96.3	75-125	0			
Surr: 1,2-Dichloroethane-d4	*967.5*	0	*1000*	0	*96.8*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*1042*	0	*1000*	0	*104*	*70-130*	0			
Surr: Dibromofluoromethane	*1010*	0	*1000*	0	*101*	*70-130*	0			
Surr: Toluene-d8	*896.5*	0	*1000*	0	*89.6*	*70-130*	0			

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

Client: HRL Compliance Solutions
Work Order: 1212457
Project: GW Pad 8 12-271 12/12/12

QC BATCH REPORT

Batch ID: **45388** Instrument ID **VMS9** Method: **SW8260**

MSD Sample ID: **1212457-01A MSD** Units: **µg/Kg** Analysis Date: **12/13/2012 10:02 PM**
Client ID: **Pad 8 East Wall** Run ID: **VMS9_121213A** SeqNo: **2168970** Prep Date: **12/13/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	958.5	30	1000	0	95.8	75-125	1023	6.51	30	
Ethylbenzene	912.5	30	1000	0	91.2	75-125	947	3.71	30	
m,p-Xylene	1848	60	2000	15.5	91.6	80-125	1926	4.16	30	
o-Xylene	944.5	30	1000	0	94.4	75-125	979.5	3.64	30	
Toluene	849	30	1000	0	84.9	70-125	890	4.72	30	
Xylenes, Total	2792	90	3000	15.5	92.6	75-125	2906	3.98	30	
Surr: 1,2-Dichloroethane-d4	*949.5*	0	*1000*	0	*95*	*70-130*	967.5	*1.88*	*30*	
Surr: 4-Bromofluorobenzene	*1056*	0	*1000*	0	*106*	*70-130*	1042	*1.38*	*30*	
Surr: Dibromofluoromethane	*1002*	0	*1000*	0	*100*	*70-130*	1010	*0.746*	*30*	
Surr: Toluene-d8	*912*	0	*1000*	0	*91.2*	*70-130*	896.5	*1.71*	*30*	

The following samples were analyzed in this batch: 1212457-01A 1212457-02A 1212457-03A 1212457-04A

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

Client: HRL Compliance Solutions
Work Order: 1212457
Project: GW Pad 8 12-271 12/12/12

QC BATCH REPORT

Batch ID: **45383** Instrument ID **WETCHEM** Method: **USDA H60 Metho**

DUP Sample ID: **1212457-01D DUP** Units: **mmhos/cm @25°F** Analysis Date: **12/17/2012 02:00 PM**
Client ID: **Pad 8 East Wall** Run ID: **WETCHEM_121217G** SeqNo: **2171502** Prep Date: **12/17/2012** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturatio	6.905	0.025	0	0	0		7.16	3.63	50	

The following samples were analyzed in this batch: 1212457-01D 1212457-02D 1212457-03D 1212457-04D

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

Client: HRL Compliance Solutions
Work Order: 1212457
Project: GW Pad 8 12-271 12/12/12

QC BATCH REPORT

Batch ID: **45445** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK Sample ID: **MBLK-45445-45445** Units: **mg/Kg** Analysis Date: **12/17/2012 03:30 PM**
Client ID: Run ID: **WETCHEM_121217J** SeqNo: **2171628** Prep Date: **12/17/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	ND	0.50								

LCS Sample ID: **LCS-45445-45445** Units: **mg/Kg** Analysis Date: **12/17/2012 03:30 PM**
Client ID: Run ID: **WETCHEM_121217J** SeqNo: **2171629** Prep Date: **12/17/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	1.884	0.50	1.992	0	94.6	75-110	0			

MS Sample ID: **1212498-01A MS** Units: **mg/Kg** Analysis Date: **12/17/2012 03:30 PM**
Client ID: Run ID: **WETCHEM_121217J** SeqNo: **2171635** Prep Date: **12/17/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	1.405	0.51	2.024	0	69.4	60-130	0			

MSD Sample ID: **1212498-01A MSD** Units: **mg/Kg** Analysis Date: **12/17/2012 03:30 PM**
Client ID: Run ID: **WETCHEM_121217J** SeqNo: **2171636** Prep Date: **12/17/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	1.476	0.50	1.984	0	74.4	60-130	1.405	4.95	30	

The following samples were analyzed in this batch: 1212457-01B 1212457-02B 1212457-03B 1212457-04B

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

Client: HRL Compliance Solutions
Work Order: 1212457
Project: GW Pad 8 12-271 12/12/12

QC BATCH REPORT

Batch ID: **R113938** Instrument ID **MOIST** Method: **A2540 G**

MBLK Sample ID: **WBLKS1-R113938** Units: **% of sample** Analysis Date: **12/13/2012 11:00 A**
Client ID: Run ID: **MOIST_121213B** SeqNo: **2169654** 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-R113938** Units: **% of sample** Analysis Date: **12/13/2012 11:00 A**
Client ID: Run ID: **MOIST_121213B** SeqNo: **2169650** 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: **1212331-01A DUP** Units: **% of sample** Analysis Date: **12/13/2012 11:00 A**
Client ID: Run ID: **MOIST_121213B** SeqNo: **2169632** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	7.57	0.050	0	0	0	-0 0	7.14	5.85	20	

DUP Sample ID: **1212403-05A DUP** Units: **% of sample** Analysis Date: **12/13/2012 11:00 A**
Client ID: Run ID: **MOIST_121213B** SeqNo: **2169640** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	4.61	0.050	0	0	0	-0 0	4.46	3.31	20	

The following samples were analyzed in this batch:

1212457-01B 1212457-02B 1212457-03B
1212457-04B

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

Client: HRL Compliance Solutions
Work Order: 1212457
Project: GW Pad 8 12-271 12/12/12

QC BATCH REPORT

Batch ID: **R113968** Instrument ID **WETCHEM** Method: **A4500-H B**

LCS Sample ID: **WLCSW1-121214-R113968** Units: **s.u.** Analysis Date: **12/14/2012 09:45 A**
Client ID: Run ID: **WETCHEM_121214K** SeqNo: **2169896** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	4.21	0	4.4	0	95.7	90-110	0			

LCS Sample ID: **WLCSW1-121214-R113968** Units: **s.u.** Analysis Date: **12/14/2012 09:45 A**
Client ID: Run ID: **WETCHEM_121214K** SeqNo: **2169904** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	4.21	0	4.4	0	95.7	90-110	0			

LCS Sample ID: **WLCSS1-121214-R113968** Units: **s.u.** Analysis Date: **12/14/2012 09:45 A**
Client ID: Run ID: **WETCHEM_121214K** SeqNo: **2169907** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	4.21	0	4.4	0	95.7	90-110	0			

DUP Sample ID: **1212495-01A DUP** Units: **s.u.** Analysis Date: **12/14/2012 09:45 A**
Client ID: Run ID: **WETCHEM_121214K** SeqNo: **2169900** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	8.98	0	0	0	0	-0 0	8.98	0	20	

DUP Sample ID: **1212461-03B DUP** Units: **s.u.** Analysis Date: **12/14/2012 09:45 A**
Client ID: Run ID: **WETCHEM_121214K** SeqNo: **2169906** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	12.39	0	0	0	0	-0 0	12.39	0	20	

DUP Sample ID: **1212457-03B DUP** Units: **s.u.** Analysis Date: **12/14/2012 09:45 A**
Client ID: **Pad 8 West Wall** Run ID: **WETCHEM_121214K** SeqNo: **2169911** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	8.02	0	0	0	0	-0 0	8.02	0	20	

The following samples were analyzed in this batch:

1212457-01B 1212457-02B 1212457-03B
1212457-04B

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

WORKORDER #	1212457
PAGE	1 of 1
DISPOSAL	By Lab or Return to Client

PROJECT NAME	GW Pad 8	SAMPLER	Skip Vest
PROJECT No.	12-271	SITE ID	
		EDD FORMAT	
		PURCHASE ORDER	12-271
COMPANY NAME	HRL Compliance Solutions	BILL TO COMPANY	HRL Compliance Solutions
SEND REPORT TO	Skip Vest, Herman Lucero	INVOICE ATTN TO	Skip Vest
ADDRESS	2970 W 29th st	ADDRESS	2970 W 29th St
CITY / STATE / ZIP	Greeley, CO 80634	CITY / STATE / ZIP	Greeley, CO 80634
PHONE	970-270-6553	PHONE	970-270-6553
FAX	970-978-4734	FAX	970-978-4734
E-MAIL	svest@hrlcomp.com, hlucero@hrlcomp.com	E-MAIL	svest@hrlcomp.com

DATE: 12/12/2012
TURNAROUND: 24 hr.

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	BTEX	DRO	GRO	SAR	Table 910-Metals; PAHs; Cr6; Cr3; pH
1	Pad 8 East Wall	SO	12/12/2012	11:30	4	4c		x	x	x	x	✓ ✓ ✓
2	Pad 8 North Wall	SO	12/12/2012	12:30	4	4c		x	x	x	x	✓ ✓ ✓
3	Pad 8 West Wall	SO	12/12/2012	1:15	4	4c		x	x	x	x	✓ ✓ ✓
4	Pad 8 South Wall	SO	12/12/2012	1:35	4	4c		x	x	x	x	✓ ✓ ✓
												SMP

*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)
4.8°c	LEVEL II (Standard QC)
	LEVEL III (Std QC + forms)
	LEVEL IV (Std QC + forms + raw data)

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY		Skip Vest	12/12/2012	16:04
RECEIVED BY		KEITH WIERENGA	12/13/12	0930
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

THU – 13 DE

PRIORITY OVERN

7940 0363

CUSTODY SEAL

ENVIRONMENTAL SAMPLING SUPPLY
9601 San Leandro St. Oakland, CA 800-233-8425

Signature:

Date:

CUSTODY SEAL

ENVIRONMENTAL SAMPLING SUPPLY
9601 San Leandro St. Oakland, CA 800-233-8425

Recipient's Copy

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

1 From
Date 12/12/12
Sender's Name Ski West Phone 970 270 6553
Company HRL Compliance
Address 2970 W 29th St # 18 Dept/Floor/Suite/Room
City Greeley State Co ZIP 80634

2 Your Internal Billing Reference

3 To
Recipient's Name Sample Receiving Phone 616 399 6070
Company ALS Group Laboratory
Address 3352 128th 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

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

Days

- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [x] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.
- [ ] FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.
- [ ] FedEx Envelope*
- [ ] FedEx Pak*
- [ ] FedEx Box
- [ ] FedEx Tube
- [x] Other

6 Special Handling and Delivery Signature Options
- [ ] SATURDAY Delivery — NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.
- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Someone at recipient's address may sign for delivery. Fee applies.
- [ ] 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.
- [x] No
- [ ] Yes — Shipper's Declaration attached
- [ ] Yes — Shipper's Declaration not required
- [ ] 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 Drop Box.
- [ ] Cargo Aircraft Only

7 Payment Bill to:
Enter FedEx Acct. No. or Credit Card No. below.
Obtain recip. Acct. No. [ ]
- [ ] Sender
- [x] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

Total Packages 15 Total Weight 48 lbs. Credit Card Auth.

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

644

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fedex.com 1.800.GoFedEx 1.800.463.3339

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ALS Group USA, Corp

Date: 18-Dec-12

Client: HRL Compliance Solutions
Project: GW Pad 8 12-271 12/12/12
Work Order: **1212457**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1212457-01	Pad 8 East Wall	Soil		12/12/2012 11:30	12/13/2012 09:30	☐
1212457-02	Pad 8 North Wall	Soil		12/12/2012 12:30	12/13/2012 09:30	☐
1212457-03	Pad 8 West Wall	Soil		12/12/2012 13:15	12/13/2012 09:30	☐
1212457-04	Pad 8 South Wall	Soil		12/12/2012 13:35	12/13/2012 09:30	☐

31-Dec-2012

Skip Vest
HRL Compliance Solutions
2385 F 1/2 Road
Grand Junction, CO 81505

Re: **GW Pad 8 12-271 12/20/12** Work Order: **1212831**

Dear Skip,

ALS Environmental received 3 samples on 22-Dec-2012 11:30 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,

Ann Preston

Electronically approved by: Ann Preston

Ann Preston
Project Manager

Certificate No: MN331938

ALS Group USA, Corp

Date: 31-Dec-12

Client: HRL Compliance Solutions
Project: GW Pad 8 12-271 12/20/12
Work Order: **1212831**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1212831-01	NNW Background	Soil		12/20/2012 10:15	12/22/2012 11:30	☐
1212831-02	NNE Background	Soil		12/20/2012 10:00	12/22/2012 11:30	☐
1212831-03	S Background	Soil		12/20/2012 10:30	12/22/2012 11:30	☐

ALS Group USA, Corp

Date: 31-Dec-12

Client: HRL Compliance Solutions
Project: GW Pad 8 12-271 12/20/12
WorkOrder: **1212831**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	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

Acronym	Description
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
RPD	Relative Percent Difference
SD	Serial Dilution
TDL	Target Detection Limit

Units Reported	Description
% of sample	Percent of Sample
mg/Kg-dry	Milligrams per Kilogram Dry Weight

ALS Group USA, Corp

Date: *31-Dec-12*

Client: HRL Compliance Solutions
Project: GW Pad 8 12-271 12/20/12 **Work Order:** 1212831
Sample ID: NNW Background **Lab ID:** 1212831-01
Collection Date: 12/20/2012 10:15 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep Date: **12/28/2012**	Analyst: **RH**
Arsenic	**3.1**		**0.88**	**mg/Kg-dry**	2	12/31/2012 02:24 PM
MOISTURE			**A2540 G**			Analyst: **LR**
Moisture	**10**		**0.050**	**% of sample**	1	12/22/2012 02:00 PM

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

ALS Group USA, Corp

Date: *31-Dec-12*

Client: HRL Compliance Solutions
Project: GW Pad 8 12-271 12/20/12 **Work Order:** 1212831
Sample ID: NNE Background **Lab ID:** 1212831-02
Collection Date: 12/20/2012 10:00 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep Date: **12/28/2012**	Analyst: **RH**
Arsenic	**3.1**		**0.74**	**mg/Kg-dry**	2	12/31/2012 02:34 PM
MOISTURE			**A2540 G**			Analyst: **LR**
Moisture	**7.4**		**0.050**	**% of sample**	1	12/22/2012 02:00 PM

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

ALS Group USA, Corp

Date: *31-Dec-12*

Client: HRL Compliance Solutions
Project: GW Pad 8 12-271 12/20/12 **Work Order:** 1212831
Sample ID: S Background **Lab ID:** 1212831-03
Collection Date: 12/20/2012 10:30 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep Date: **12/28/2012**	Analyst: **RH**
Arsenic	**2.8**		**0.75**	**mg/Kg-dry**	2	12/31/2012 02:39 PM
MOISTURE			**A2540 G**			Analyst: **LR**
Moisture	**5.7**		**0.050**	**% of sample**	1	12/22/2012 02:00 PM

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

ALS Group USA, Corp

Date: 31-Dec-12

Client: HRL Compliance Solutions

Work Order: 1212831

Project: GW Pad 8 12-271 12/20/12

QC BATCH REPORT

Batch ID: **45658** Instrument ID **ICPMS2** Method: **SW6020A**

MBLK Sample ID: **MBLK-45658-45658** Units: **mg/Kg** Analysis Date: **12/31/2012 12:25 PM**

Client ID: Run ID: **ICPMS2_121231A** SeqNo: **2183062** Prep Date: **12/28/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.25								

LCS Sample ID: **LCS-45658-45658** Units: **mg/Kg** Analysis Date: **12/31/2012 12:30 PM**

Client ID: Run ID: **ICPMS2_121231A** SeqNo: **2183063** Prep Date: **12/28/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.49	0.25	5	0	89.8	80-120	0			

MS Sample ID: **1212748-03AMS** Units: **mg/Kg** Analysis Date: **12/31/2012 12:40 PM**

Client ID: Run ID: **ICPMS2_121231A** SeqNo: **2183065** Prep Date: **12/28/2012** DF: **4**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	13.6	1.4	6.925	7.819	83.5	75-125	0			

MSD Sample ID: **1212748-03AMSD** Units: **mg/Kg** Analysis Date: **12/31/2012 12:45 PM**

Client ID: Run ID: **ICPMS2_121231A** SeqNo: **2183066** Prep Date: **12/28/2012** DF: **4**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	14.05	1.4	7.013	7.819	88.9	75-125	13.6	3.25	25	

The following samples were analyzed in this batch: 1212831-01A 1212831-02A 1212831-03A

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

Client: HRL Compliance Solutions
Work Order: 1212831
Project: GW Pad 8 12-271 12/20/12

QC BATCH REPORT

Batch ID: **R114364** Instrument ID **MOIST** Method: **A2540 G**

MBLK Sample ID: **WBLKS1-R114364** Units: **% of sample** Analysis Date: **12/22/2012 02:00 PM**
Client ID: Run ID: **MOIST_121222B** SeqNo: **2177999** 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-R114364** Units: **% of sample** Analysis Date: **12/22/2012 02:00 PM**
Client ID: Run ID: **MOIST_121222B** SeqNo: **2177995** 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: **1212775-13B DUP** Units: **% of sample** Analysis Date: **12/22/2012 02:00 PM**
Client ID: Run ID: **MOIST_121222B** SeqNo: **2177986** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	3.77	0.050	0	0	0	0-0	3.7	1.87	20	

The following samples were analyzed in this batch: 1212831-01A 1212831-02A 1212831-03A

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

WORKORDER # 1212831

		SAMPLER	Skip Vest	DATE	12/20/2012	PAGE	1 of 1
PROJECT NAME	GW Pad 8	SITE ID		TURNAROUND	Standard	DISPOSAL	By Lab or Return to Client
PROJECT No.	12-271	EDD FORMAT					
		PURCHASE ORDER	12-271				
COMPANY NAME	HRL Compliance Solutions	BILL TO COMPANY	HRL Compliance Solutions				
SEND REPORT TO	Skip Vest, Herman Lucero	INVOICE ATTN TO	Staci Knob				
ADDRESS	2970 W 29th st C-18	ADDRESS	2385 F1/2 Rd				
CITY / STATE / ZIP	Greeley, Co. 80631	CITY / STATE / ZIP	Grand Junction, CO 81505				
PHONE	970-270-6553	PHONE	970-243-3271				
FAX	970-978-4734	FAX	970-243-3280				
E-MAIL	svest@hrlcomp.com, hlucero@hrlcomp.com	E-MAIL					

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	Arsenic
1	NNW Background	SO	12/20/2012	10:15am	1	4C		x
2	NNE Background	SO	12/20/2012	10:00am	1	4C		x
3	S Background	SO	12/20/2012	10:30am	1	4C		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)
Background samples to establish native Arsenic levels. 5.8C	LEVEL II (Standard QC)
	LEVEL III (Std QC + forms)
	LEVEL IV (Std QC + forms + raw data)

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY		Skip Vest	12/20/2012	3:34pm
RECEIVED BY		Diane F Sha	12/22/12	1130
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: **HRL** Date/Time Received: **22-Dec-12 11:30**

Work Order: **1212831** Received by: **DS**

Checklist completed by Diane Shaw (eSignature) 22-Dec-12 (Date) Reviewed by: Ann Preston (eSignature) 23-Dec-12 (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):	5.8 c		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	12/22/2012 1:03:55 PM		
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:			

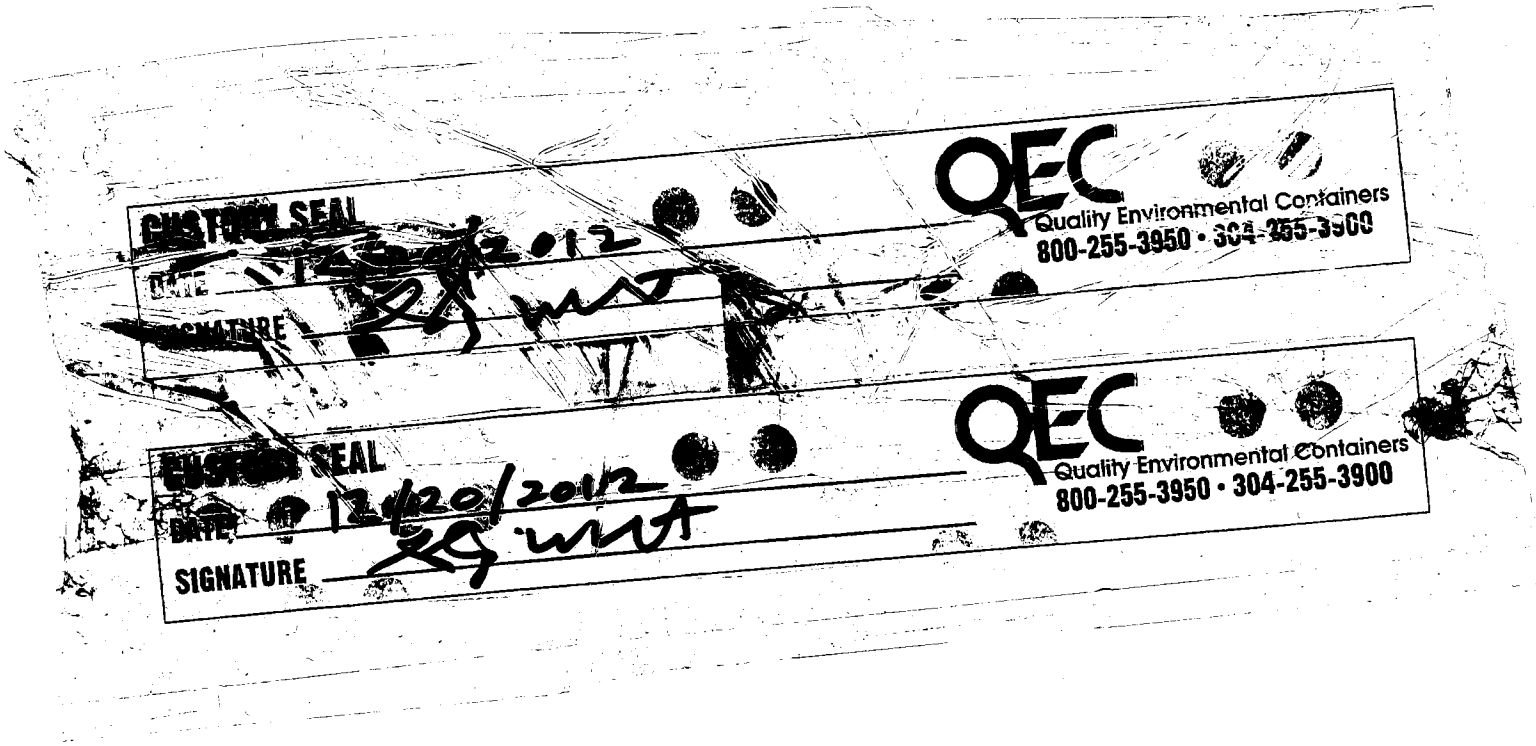
Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction: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3352 128TH AVE

HOLLAND MI 49424

(616) 399-6070

INV:

PO:

DEPT:

REF:

FROM PRIOR

TRK# 0200 8016 7941 4164

NA GRRA

7941 4164

1 From

Date 12/20/12

Sender's Name SkipWest Phone

Company HLSL

Address 2970 W 29th St. C-18

City Greeley State CO ZIP 80631 Dept./Floor/Suite/Room

2 Your Internal Billing Reference

3 To

Recipient's Name Sample Receiving Phone 616 399-6070

Company ALS Group Laboratory

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

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

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

8016 7941 4164

0200

Recipient's Copy

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

- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [x] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

- [ ] FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

- [ ] FedEx Envelope*
- [ ] FedEx Pak*
- [ ] FedEx Box
- [ ] FedEx Tube
- [x] Other

6 Special Handling and Delivery Signature Options

- [ ] SATURDAY Delivery — NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Someone at recipient's address may sign for delivery. Fee applies.
- [ ] 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.

- [x] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

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

- [ ] Cargo Aircraft Only

7 Payment Bill to:

- [ ] Sender — Acct. No. in Section 1 will be billed.
- [x] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

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

Obtain recip. Acct. No. [ ]

Total Packages 1 Total Weight 1 lbs.

Credit Card Auth.

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

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Check Here

4164
12.22

RT 827 829 FZ

04-Feb-2013

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

Re: **GW Pad 8 12-271 1/25/13** Work Order: **1301807**

Dear Mark,

ALS Environmental received 7 samples on 26-Jan-2013 10:30 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 21.

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

Sincerely,

Ann Preston

Electronically approved by: Ann Preston

Ann Preston
Project Manager

Certificate No: MN331938

ALS Group USA, Corp

Date: 04-Feb-13

Client: HRL Compliance Solutions
Project: GW Pad 8 12-271 1/25/13
Work Order: **1301807**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1301807-01	Monitor Well 1	Water		1/25/2013 10:30	1/26/2013 10:30	☐
1301807-02	Monitor Well 2	Water		1/25/2013 10:00	1/26/2013 10:30	☐
1301807-03	Monitor Well 3	Water		1/25/2013 09:20	1/26/2013 10:30	☐
1301807-04	Monitor Well 4	Water		1/25/2013 08:40	1/26/2013 10:30	☐
1301807-05	Monitor Well 5	Water		1/25/2013 11:30	1/26/2013 10:30	☐
1301807-06	Monitor Well 6	Water		1/25/2013 11:55	1/26/2013 10:30	☐
1301807-07	Sample Port	Water		1/25/2013 11:00	1/26/2013 10:30	☐

ALS Group USA, Corp

Date: 04-Feb-13

Client: HRL Compliance Solutions
Project: GW Pad 8 12-271 1/25/13
Work Order: 1301807

Case Narrative

Batch 46102 MS/MSD data for DRO is not related to this project's samples. No data requires qualification.

Batch R115580 sample Sample Port MS/MSD recoveries for GRO were above control limits. The corresponding result in the parent sample may be biased high for GRO.

Batch R115580, Method GRO_8015_W, Sample 1301807-07A MSD: Results verified by MS.

Batch R115589A MS/MSD data for Benzene is not related to this project's samples. No data requires qualification.

ALS Group USA, Corp

Date: 04-Feb-13

Client: HRL Compliance Solutions
Project: GW Pad 8 12-271 1/25/13
WorkOrder: **1301807**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	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

Acronym	Description
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
RPD	Relative Percent Difference
SD	Serial Dilution
TDL	Target Detection Limit

Units Reported	Description
µg/L	Micrograms per Liter
mg/L	Milligrams per Liter

ALS Group USA, Corp

Date: *04-Feb-13*

Client: HRL Compliance Solutions
Project: GW Pad 8 12-271 1/25/13 **Work Order:** 1301807
Sample ID: Monitor Well 1 **Lab ID:** 1301807-01
Collection Date: 1/25/2013 10:30 AM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260**			Analyst: **AK**
Benzene	ND		1.0	µg/L	1	1/29/2013 02:58 AM
Ethylbenzene	ND		1.0	µg/L	1	1/29/2013 02:58 AM
m,p-Xylene	ND		2.0	µg/L	1	1/29/2013 02:58 AM
o-Xylene	ND		1.0	µg/L	1	1/29/2013 02:58 AM
Toluene	ND		1.0	µg/L	1	1/29/2013 02:58 AM
Xylenes, Total	ND		3.0	µg/L	1	1/29/2013 02:58 AM
Surr: 1,2-Dichloroethane-d4	*108*		*70-120*	*%REC*	1	1/29/2013 02:58 AM
Surr: 4-Bromofluorobenzene	*99.9*		*75-120*	*%REC*	1	1/29/2013 02:58 AM
Surr: Dibromofluoromethane	*93.8*		*85-115*	*%REC*	1	1/29/2013 02:58 AM
Surr: Toluene-d8	*96.2*		*85-120*	*%REC*	1	1/29/2013 02:58 AM
ANIONS BY ION CHROMATOGRAPHY			**SW9056**			Analyst: **ED**
Chloride	**34**		**10**	**mg/L**	10	1/29/2013 11:22 AM
Sulfate	**420**		**40**	**mg/L**	40	1/29/2013 03:14 PM
TOTAL DISSOLVED SOLIDS			**A2540 C**			Analyst: **YM**
Total Dissolved Solids	**990**		**10**	**mg/L**	1	1/28/2013 04:30 PM

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

ALS Group USA, Corp

Date: *04-Feb-13*

Client: HRL Compliance Solutions
Project: GW Pad 8 12-271 1/25/13 **Work Order:** 1301807
Sample ID: Monitor Well 2 **Lab ID:** 1301807-02
Collection Date: 1/25/2013 10:00 AM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260**			Analyst: **AK**
Benzene	ND		1.0	µg/L	1	1/29/2013 03:22 AM
Ethylbenzene	ND		1.0	µg/L	1	1/29/2013 03:22 AM
m,p-Xylene	ND		2.0	µg/L	1	1/29/2013 03:22 AM
o-Xylene	ND		1.0	µg/L	1	1/29/2013 03:22 AM
Toluene	ND		1.0	µg/L	1	1/29/2013 03:22 AM
Xylenes, Total	ND		3.0	µg/L	1	1/29/2013 03:22 AM
Surr: 1,2-Dichloroethane-d4	*106*		*70-120*	*%REC*	1	1/29/2013 03:22 AM
Surr: 4-Bromofluorobenzene	*102*		*75-120*	*%REC*	1	1/29/2013 03:22 AM
Surr: Dibromofluoromethane	*98.4*		*85-115*	*%REC*	1	1/29/2013 03:22 AM
Surr: Toluene-d8	*97.4*		*85-120*	*%REC*	1	1/29/2013 03:22 AM
ANIONS BY ION CHROMATOGRAPHY			**SW9056**			Analyst: **ED**
Chloride	**39**		**10**	**mg/L**	10	1/29/2013 12:01 PM
Sulfate	**530**		**40**	**mg/L**	40	1/29/2013 03:34 PM
TOTAL DISSOLVED SOLIDS			**A2540 C**			Analyst: **YM**
Total Dissolved Solids	**1,200**		**10**	**mg/L**	1	1/28/2013 04:30 PM

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

ALS Group USA, Corp

Date: *04-Feb-13*

Client: HRL Compliance Solutions
Project: GW Pad 8 12-271 1/25/13 **Work Order:** 1301807
Sample ID: Monitor Well 3 **Lab ID:** 1301807-03
Collection Date: 1/25/2013 09:20 AM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260**			Analyst: **AK**
Benzene	ND		1.0	µg/L	1	1/29/2013 03:46 AM
Ethylbenzene	ND		1.0	µg/L	1	1/29/2013 03:46 AM
m,p-Xylene	ND		2.0	µg/L	1	1/29/2013 03:46 AM
o-Xylene	ND		1.0	µg/L	1	1/29/2013 03:46 AM
Toluene	ND		1.0	µg/L	1	1/29/2013 03:46 AM
Xylenes, Total	ND		3.0	µg/L	1	1/29/2013 03:46 AM
Surr: 1,2-Dichloroethane-d4	*107*		*70-120*	*%REC*	1	1/29/2013 03:46 AM
Surr: 4-Bromofluorobenzene	*101*		*75-120*	*%REC*	1	1/29/2013 03:46 AM
Surr: Dibromofluoromethane	*95.4*		*85-115*	*%REC*	1	1/29/2013 03:46 AM
Surr: Toluene-d8	*98.6*		*85-120*	*%REC*	1	1/29/2013 03:46 AM
ANIONS BY ION CHROMATOGRAPHY			**SW9056**			Analyst: **ED**
Chloride	**38**		**10**	**mg/L**	10	1/29/2013 12:21 PM
Sulfate	**520**		**40**	**mg/L**	40	1/29/2013 04:34 PM
TOTAL DISSOLVED SOLIDS			**A2540 C**			Analyst: **YM**
Total Dissolved Solids	**1,100**		**10**	**mg/L**	1	1/28/2013 04:30 PM

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

ALS Group USA, Corp

Date: *04-Feb-13*

Client: HRL Compliance Solutions
Project: GW Pad 8 12-271 1/25/13 **Work Order:** 1301807
Sample ID: Monitor Well 4 **Lab ID:** 1301807-04
Collection Date: 1/25/2013 08:40 AM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260**			Analyst: **AK**
Benzene	ND		1.0	µg/L	1	1/29/2013 04:10 AM
Ethylbenzene	ND		1.0	µg/L	1	1/29/2013 04:10 AM
m,p-Xylene	ND		2.0	µg/L	1	1/29/2013 04:10 AM
o-Xylene	ND		1.0	µg/L	1	1/29/2013 04:10 AM
Toluene	ND		1.0	µg/L	1	1/29/2013 04:10 AM
Xylenes, Total	ND		3.0	µg/L	1	1/29/2013 04:10 AM
Surr: 1,2-Dichloroethane-d4	*106*		*70-120*	*%REC*	1	1/29/2013 04:10 AM
Surr: 4-Bromofluorobenzene	*96.6*		*75-120*	*%REC*	1	1/29/2013 04:10 AM
Surr: Dibromofluoromethane	*99.0*		*85-115*	*%REC*	1	1/29/2013 04:10 AM
Surr: Toluene-d8	*97.6*		*85-120*	*%REC*	1	1/29/2013 04:10 AM
ANIONS BY ION CHROMATOGRAPHY			**SW9056**			Analyst: **ED**
Chloride	**42**		**10**	**mg/L**	10	1/29/2013 12:41 PM
Sulfate	**520**		**40**	**mg/L**	40	1/29/2013 04:55 PM
TOTAL DISSOLVED SOLIDS			**A2540 C**			Analyst: **YM**
Total Dissolved Solids	**1,100**		**10**	**mg/L**	1	1/28/2013 04:30 PM

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

ALS Group USA, Corp

Date: *04-Feb-13*

Client: HRL Compliance Solutions
Project: GW Pad 8 12-271 1/25/13 **Work Order:** 1301807
Sample ID: Monitor Well 5 **Lab ID:** 1301807-05
Collection Date: 1/25/2013 11:30 AM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260**			Analyst: **AK**
Benzene	ND		1.0	µg/L	1	1/29/2013 04:35 AM
Ethylbenzene	ND		1.0	µg/L	1	1/29/2013 04:35 AM
m,p-Xylene	ND		2.0	µg/L	1	1/29/2013 04:35 AM
o-Xylene	ND		1.0	µg/L	1	1/29/2013 04:35 AM
Toluene	ND		1.0	µg/L	1	1/29/2013 04:35 AM
Xylenes, Total	ND		3.0	µg/L	1	1/29/2013 04:35 AM
Surr: 1,2-Dichloroethane-d4	*115*		*70-120*	*%REC*	1	1/29/2013 04:35 AM
Surr: 4-Bromofluorobenzene	*102*		*75-120*	*%REC*	1	1/29/2013 04:35 AM
Surr: Dibromofluoromethane	*100*		*85-115*	*%REC*	1	1/29/2013 04:35 AM
Surr: Toluene-d8	*97.0*		*85-120*	*%REC*	1	1/29/2013 04:35 AM
ANIONS BY ION CHROMATOGRAPHY			**SW9056**			Analyst: **ED**
Chloride	**55**		**10**	**mg/L**	10	1/29/2013 01:01 PM
Sulfate	**580**		**40**	**mg/L**	40	1/29/2013 05:15 PM
TOTAL DISSOLVED SOLIDS			**A2540 C**			Analyst: **YM**
Total Dissolved Solids	**1,200**		**10**	**mg/L**	1	1/28/2013 04:30 PM

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

ALS Group USA, Corp

Date: *04-Feb-13*

Client: HRL Compliance Solutions
Project: GW Pad 8 12-271 1/25/13 **Work Order:** 1301807
Sample ID: Monitor Well 6 **Lab ID:** 1301807-06
Collection Date: 1/25/2013 11:55 AM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260**			Analyst: **AK**
Benzene	ND		1.0	µg/L	1	1/29/2013 04:58 AM
Ethylbenzene	ND		1.0	µg/L	1	1/29/2013 04:58 AM
m,p-Xylene	ND		2.0	µg/L	1	1/29/2013 04:58 AM
o-Xylene	ND		1.0	µg/L	1	1/29/2013 04:58 AM
Toluene	ND		1.0	µg/L	1	1/29/2013 04:58 AM
Xylenes, Total	ND		3.0	µg/L	1	1/29/2013 04:58 AM
Surr: 1,2-Dichloroethane-d4	*103*		*70-120*	*%REC*	1	1/29/2013 04:58 AM
Surr: 4-Bromofluorobenzene	*102*		*75-120*	*%REC*	1	1/29/2013 04:58 AM
Surr: Dibromofluoromethane	*98.0*		*85-115*	*%REC*	1	1/29/2013 04:58 AM
Surr: Toluene-d8	*97.8*		*85-120*	*%REC*	1	1/29/2013 04:58 AM
ANIONS BY ION CHROMATOGRAPHY			**SW9056**			Analyst: **ED**
Chloride	**39**		**10**	**mg/L**	10	1/29/2013 01:22 PM
Sulfate	**540**		**40**	**mg/L**	40	1/29/2013 05:35 PM
TOTAL DISSOLVED SOLIDS			**A2540 C**			Analyst: **YM**
Total Dissolved Solids	**1,200**		**10**	**mg/L**	1	1/28/2013 04:30 PM

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

ALS Group USA, Corp

Date: *04-Feb-13*

Client: HRL Compliance Solutions
Project: GW Pad 8 12-271 1/25/13 **Work Order:** 1301807
Sample ID: Sample Port **Lab ID:** 1301807-07
Collection Date: 1/25/2013 11:00 AM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			**SW8015M**		Prep Date: **1/28/2013**	Analyst: **CW**
DRO (C10-C28)	ND		0.10	mg/L	1	1/29/2013 11:43 PM
Surr: 4-Terphenyl-d14	*59.5*		*21-90*	*%REC*	1	1/29/2013 11:43 PM
GASOLINE RANGE ORGANICS BY GC-FID			**SW8015**			Analyst: **CW**
GRO (C6-C10)	ND		0.20	mg/L	1	1/28/2013 04:10 PM
Surr: Toluene-d8	*122*		*70-130*	*%REC*	1	1/28/2013 04:10 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260**			Analyst: **AK**
Benzene	**2.2**		**1.0**	**µg/L**	1	1/29/2013 05:22 AM
Ethylbenzene	ND		1.0	µg/L	1	1/29/2013 05:22 AM
m,p-Xylene	ND		2.0	µg/L	1	1/29/2013 05:22 AM
o-Xylene	**1.6**		**1.0**	**µg/L**	1	1/29/2013 05:22 AM
Toluene	ND		1.0	µg/L	1	1/29/2013 05:22 AM
Xylenes, Total	ND		3.0	µg/L	1	1/29/2013 05:22 AM
Surr: 1,2-Dichloroethane-d4	*111*		*70-120*	*%REC*	1	1/29/2013 05:22 AM
Surr: 4-Bromofluorobenzene	*101*		*75-120*	*%REC*	1	1/29/2013 05:22 AM
Surr: Dibromofluoromethane	*99.2*		*85-115*	*%REC*	1	1/29/2013 05:22 AM
Surr: Toluene-d8	*98.2*		*85-120*	*%REC*	1	1/29/2013 05:22 AM
ANIONS BY ION CHROMATOGRAPHY			**SW9056**			Analyst: **ED**
Chloride	**33**		**10**	**mg/L**	10	1/29/2013 02:22 PM
Sulfate	**480**		**40**	**mg/L**	40	1/29/2013 06:36 PM
NITROGEN, NITRITE			**A4500-NO2 B**			Analyst: **EE**
Nitrogen, Nitrite	ND		0.020	mg/L	1	1/26/2013 11:30 AM
NITROGEN, NITRATE			**E353.2 R2.0**			Analyst: **JJG**
Nitrogen, Nitrate	ND		0.020	mg/L	1	2/1/2013 10:27 AM
TOTAL DISSOLVED SOLIDS			**A2540 C**			Analyst: **YM**
Total Dissolved Solids	**1,000**		**10**	**mg/L**	1	1/28/2013 04:30 PM

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

Batch ID: **46102** Instrument ID **GC11** Method: **SW8015M**

MBLK Sample ID: **DBLKW1-46102-46102** Units: **mg/L** Analysis Date: **1/29/2013 04:04 PM**
Client ID: Run ID: **GC11_130129A** SeqNo: **2204227** Prep Date: **1/28/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	0.10								
Surr: 4-Terphenyl-d14	*0.07111*	0	*0.1143*	0	*62.2*	*21-90*	0			

LCS Sample ID: **DLCSW1-46102-46102** Units: **mg/L** Analysis Date: **1/29/2013 04:40 PM**
Client ID: Run ID: **GC11_130129A** SeqNo: **2204228** Prep Date: **1/28/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	5.205	0.10	11.43	0	45.5	44-116	0			
Surr: 4-Terphenyl-d14	*0.07522*	0	*0.1143*	0	*65.8*	*21-90*	0			

MS Sample ID: **1301757-01A MS** Units: **mg/L** Analysis Date: **1/29/2013 09:58 PM**
Client ID: Run ID: **GC11_130129A** SeqNo: **2204236** Prep Date: **1/28/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	53.02	0.35	40	62.99	-24.9	44-116	0			S
Surr: 4-Terphenyl-d14	*0.3378*	0	*0.4*	0	*84.4*	*21-90*	0			

MSD Sample ID: **1301757-01A MSD** Units: **mg/L** Analysis Date: **1/29/2013 10:33 PM**
Client ID: Run ID: **GC11_130129A** SeqNo: **2204237** Prep Date: **1/28/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	91.67	0.35	40	62.99	71.7	44-116	53.02	53.4	30	R
Surr: 4-Terphenyl-d14	*0.3655*	0	*0.4*	0	*91.4*	*21-90*	0.3378	*7.87*	*30*	*S*

The following samples were analyzed in this batch: 1301807-07D

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

Client: HRL Compliance Solutions
Work Order: 1301807
Project: GW Pad 8 12-271 1/25/13

QC BATCH REPORT

Batch ID: **R115580** Instrument ID **GC10** Method: **SW8015**

MBLK Sample ID: **GBLK1-130128-R115580** Units: **µg/L** Analysis Date: **1/28/2013 11:12 AM**
Client ID: Run ID: **GC10_130128A** SeqNo: **2202782** 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								
Surr: Toluene-d8	*116.1*	0	*100*	0	*116*	*70-130*	0			

LCS Sample ID: **GLCS1-130128-R115580** Units: **µg/L** Analysis Date: **1/28/2013 10:48 AM**
Client ID: Run ID: **GC10_130128A** SeqNo: **2202781** 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)	9004	200	10000	0	90	70-130	0			
Surr: Toluene-d8	*124.9*	0	*100*	0	*125*	*70-130*	0			

MS Sample ID: **1301807-07A MS** Units: **µg/L** Analysis Date: **1/28/2013 05:29 PM**
Client ID: **Sample Port** Run ID: **GC10_130128A** SeqNo: **2202929** 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)	13120	200	10000	55.78	131	70-130	0			S
Surr: Toluene-d8	*124*	0	*100*	0	*124*	*70-130*	0			

MSD Sample ID: **1301807-07A MSD** Units: **µg/L** Analysis Date: **1/28/2013 05:53 PM**
Client ID: **Sample Port** Run ID: **GC10_130128A** SeqNo: **2202931** 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)	15450	200	10000	55.78	154	70-130	13120	16.3	30	S
Surr: Toluene-d8	*122.8*	0	*100*	0	*123*	*70-130*	124	*0.996*	*30*	

The following samples were analyzed in this batch: 1301807-07A

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

Client: HRL Compliance Solutions
Work Order: 1301807
Project: GW Pad 8 12-271 1/25/13

QC BATCH REPORT

Batch ID: **R115589A** Instrument ID **VMS5** Method: **SW8260**

MBLK Sample ID: **VBLKW2-130128-R115589A** Units: **µg/L** Analysis Date: **1/28/2013 11:46 PM**
Client ID: Run ID: **VMS5_130128B** SeqNo: **2203460** 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	3.0								
Surr: 1,2-Dichloroethane-d4	*19.94*	0	*20*	0	*99.7*	*70-120*	0			
Surr: 4-Bromofluorobenzene	*19.6*	0	*20*	0	*98*	*75-120*	0			
Surr: Dibromofluoromethane	*19.22*	0	*20*	0	*96.1*	*85-115*	0			
Surr: Toluene-d8	*19.54*	0	*20*	0	*97.7*	*85-120*	0			

LCS Sample ID: **VLCSW2-130128-R115589A** Units: **µg/L** Analysis Date: **1/28/2013 10:58 PM**
Client ID: Run ID: **VMS5_130128B** SeqNo: **2202897** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.1	1.0	20	0	100	80-120	0			
Ethylbenzene	20.76	1.0	20	0	104	75-125	0			
m,p-Xylene	41	2.0	40	0	102	75-130	0			
o-Xylene	20.45	1.0	20	0	102	80-120	0			
Toluene	19.11	1.0	20	0	95.6	75-120	0			
Xylenes, Total	61.45	3.0	60	0	102	75-130	0			
Surr: 1,2-Dichloroethane-d4	*21.91*	0	*20*	0	*110*	*70-120*	0			
Surr: 4-Bromofluorobenzene	*20.13*	0	*20*	0	*101*	*75-120*	0			
Surr: Dibromofluoromethane	*19.97*	0	*20*	0	*99.8*	*85-115*	0			
Surr: Toluene-d8	*19.31*	0	*20*	0	*96.6*	*85-120*	0			

MS Sample ID: **1301765-07A MS** Units: **µg/L** Analysis Date: **1/29/2013 07:23 AM**
Client ID: Run ID: **VMS5_130128B** SeqNo: **2203480** Prep Date: DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	844	20	400	459.2	96.2	80-120	0			
Ethylbenzene	469.2	20	400	114	88.8	75-125	0			
m,p-Xylene	806.6	40	800	107.6	87.4	75-130	0			
o-Xylene	385.8	20	400	0	96.4	80-120	0			
Toluene	361.4	20	400	28.2	83.3	75-120	0			
Xylenes, Total	1192	60	1200	107.6	90.4	75-130	0			
Surr: 1,2-Dichloroethane-d4	*445*	0	*400*	0	*111*	*70-120*	0			
Surr: 4-Bromofluorobenzene	*425.6*	0	*400*	0	*106*	*75-120*	0			
Surr: Dibromofluoromethane	*406.8*	0	*400*	0	*102*	*85-115*	0			
Surr: Toluene-d8	*389.6*	0	*400*	0	*97.4*	*85-120*	0			

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

Client: HRL Compliance Solutions
Work Order: 1301807
Project: GW Pad 8 12-271 1/25/13

QC BATCH REPORT

Batch ID: **R115589A** Instrument ID **VMS5** Method: **SW8260**

MSD Sample ID: **1301765-07A MSD** Units: **µg/L** Analysis Date: **1/29/2013 07:46 AM**

Client ID: Run ID: **VMS5_130128B** SeqNo: **2203481** Prep Date: DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	756.6	20	400	459.2	74.4	80-120	844	10.9	30	S
Ethylbenzene	459.8	20	400	114	86.4	75-125	469.2	2.02	30	
m,p-Xylene	783	40	800	107.6	84.4	75-130	806.6	2.97	30	
o-Xylene	365.4	20	400	0	91.4	80-120	385.8	5.43	30	
Toluene	353.2	20	400	28.2	81.2	75-120	361.4	2.29	30	
Xylenes, Total	1148	60	1200	107.6	86.7	75-130	1192	3.76	30	
Surr: 1,2-Dichloroethane-d4	*428*	0	*400*	0	*107*	*70-120*	445	*3.89*	*30*	
Surr: 4-Bromofluorobenzene	*418*	0	*400*	0	*104*	*75-120*	425.6	*1.8*	*30*	
Surr: Dibromofluoromethane	*391*	0	*400*	0	*97.8*	*85-115*	406.8	*3.96*	*30*	
Surr: Toluene-d8	*377.8*	0	*400*	0	*94.4*	*85-120*	389.6	*3.08*	*30*	

The following samples were analyzed in this batch:

1301807-01A	1301807-02A	1301807-03A
1301807-04A	1301807-05A	1301807-06A
1301807-07A		

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

Client: HRL Compliance Solutions
Work Order: 1301807
Project: GW Pad 8 12-271 1/25/13

QC BATCH REPORT

Batch ID: **R115550** Instrument ID **WETCHEM** Method: **A4500-NO2 B**

MBLK Sample ID: **WBLKW1-012813-R115550** Units: **mg/L** Analysis Date: **1/26/2013 11:30 AM**
Client ID: Run ID: **WETCHEM_130126D** SeqNo: **2202228** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Nitrite	ND	0.020								

LCS Sample ID: **WLCSW1-012813-R115550** Units: **mg/L** Analysis Date: **1/26/2013 11:30 AM**
Client ID: Run ID: **WETCHEM_130126D** SeqNo: **2202229** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Nitrite	0.197	0.020	0.2	0	98.5	80-120	0			

MS Sample ID: **1301807-07B MS** Units: **mg/L** Analysis Date: **1/26/2013 11:30 AM**
Client ID: **Sample Port** Run ID: **WETCHEM_130126D** SeqNo: **2202232** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Nitrite	0.1864	0.020	0.2	0	93.2	75-125	0			

MSD Sample ID: **1301807-07B MSD** Units: **mg/L** Analysis Date: **1/26/2013 11:30 AM**
Client ID: **Sample Port** Run ID: **WETCHEM_130126D** SeqNo: **2202233** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Nitrite	0.186	0.020	0.2	0	93	75-125	0.1864	0.215	20	

The following samples were analyzed in this batch: 1301807-07B

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

Client: HRL Compliance Solutions
Work Order: 1301807
Project: GW Pad 8 12-271 1/25/13

QC BATCH REPORT

Batch ID: **R115608** Instrument ID **TDS** Method: **A2540 C**

MBLK Sample ID: **MBLK-R115608** Units: **mg/L** Analysis Date: **1/28/2013 04:30 PM**
Client ID: Run ID: **TDS_130128C** SeqNo: **2203300** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids	ND	10								

LCS Sample ID: **LCS-R115608** Units: **mg/L** Analysis Date: **1/28/2013 04:30 PM**
Client ID: Run ID: **TDS_130128C** SeqNo: **2203298** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids	480	10	495	0	97	80-120	0			

DUP Sample ID: **1301807-05B DUP** Units: **mg/L** Analysis Date: **1/28/2013 04:30 PM**
Client ID: **Monitor Well 5** Run ID: **TDS_130128C** SeqNo: **2203288** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids	1265	10	0	0	0	0-0	1249	1.27	20	

The following samples were analyzed in this batch:

1301807-01B	1301807-02B	1301807-03B
1301807-04B	1301807-05B	1301807-06B
1301807-07B		

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

Client: HRL Compliance Solutions
Work Order: 1301807
Project: GW Pad 8 12-271 1/25/13

QC BATCH REPORT

Batch ID: **R115673** Instrument ID **IC3** Method: **SW9056**

MBLK Sample ID: **MBLK-R115673** Units: **mg/L** Analysis Date: **1/29/2013 09:55 AM**
Client ID: Run ID: **IC3_130129A** SeqNo: **2204476** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	0.4431	1.0								J
Sulfate	ND	1.0								

LCS Sample ID: **LCS-R115673** Units: **mg/L** Analysis Date: **1/29/2013 09:35 AM**
Client ID: Run ID: **IC3_130129A** SeqNo: **2204475** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.418	1.0	10	0	94.2	88-107	0			
Sulfate	9.637	1.0	10	0	96.4	85-110	0			

MS Sample ID: **1301807-02B MS** Units: **mg/L** Analysis Date: **1/29/2013 03:54 PM**
Client ID: **Monitor Well 2** Run ID: **IC3_130129A** SeqNo: **2204491** Prep Date: DF: **40**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	136.7	40	100	48.93	87.8	75-125	0			
Sulfate	634.8	40	100	531.2	104	75-125	0			O

MSD Sample ID: **1301807-02B MSD** Units: **mg/L** Analysis Date: **1/29/2013 04:14 PM**
Client ID: **Monitor Well 2** Run ID: **IC3_130129A** SeqNo: **2204492** Prep Date: DF: **40**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	135.9	40	100	48.93	87	75-125	136.7	0.622	20	
Sulfate	628	40	100	531.2	96.8	75-125	634.8	1.08	20	O

The following samples were analyzed in this batch:

1301807-01B	1301807-02B	1301807-03B
1301807-04B	1301807-05B	1301807-06B
1301807-07B		

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

Client: HRL Compliance Solutions
Work Order: 1301807
Project: GW Pad 8 12-271 1/25/13

QC BATCH REPORT

Batch ID: **R115795** Instrument ID **LACHAT** Method: **E353.2 R2.0**

MBLK Sample ID: **WBLKW1-130201-R115795** Units: **mg/L** Analysis Date: **2/1/2013 10:27 AM**
Client ID: Run ID: **LACHAT_130201A** SeqNo: **2206686** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Nitrate	ND	0.020								

LCS Sample ID: **WLCSW1-130201-R115795** Units: **mg/L** Analysis Date: **2/1/2013 10:27 AM**
Client ID: Run ID: **LACHAT_130201A** SeqNo: **2206687** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Nitrate	5.098	0.020	5	0	102	80-120	0			

MS Sample ID: **1301821-01B MS** Units: **mg/L** Analysis Date: **2/1/2013 10:27 AM**
Client ID: Run ID: **LACHAT_130201A** SeqNo: **2206692** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Nitrate	5.115	0.020	5	0	102	75-125	0			

MSD Sample ID: **1301821-01B MSD** Units: **mg/L** Analysis Date: **2/1/2013 10:27 AM**
Client ID: Run ID: **LACHAT_130201A** SeqNo: **2206693** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Nitrate	5.108	0.020	5	0	102	75-125	5.115	0.137	20	

The following samples were analyzed in this batch: 1301807-07C

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

1301807

ALS Laboratory Group

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

Chain-of-Custody

Form 202r8

WORKORDER # KB 1-25-13 ~~1301244~~

PAGE 1 of 1

DISPOSAL By Lab or Return to Client

SAMPLER	Dan Pinegar	DATE	1/25/2013
PROJECT NAME	GW Pad 8 (12-271)	SITE ID	
PROJECT No.	12-271	EDD FORMAT	
		PURCHASE ORDER	12-271
COMPANY NAME	HRL Compliance Solutions, Inc	BILL TO COMPANY	HRL Compliance Solutions
SEND REPORT TO	Ted Brewster, Mark Mumby, Skip Vest	INVOICE ATTN TO	
ADDRESS	2970 W 29th St.	ADDRESS	
CITY / STATE / ZIP	Greeley, CO 80634	CITY / STATE / ZIP	
PHONE	970-270-6553	PHONE	
FAX		FAX	
E-MAIL	tbrewster@hrlcomp.com,svest@hrlcomp.co	E-MAIL	

TURNAROUND: Standard

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	BTEX	Sulfates	TDS	Chlorides	Nitrate	Nitrite	DRO	GRO												
1	Monitor Well 1	water	1/25/2013	10:30	6	1,8		x	x	x	x																
2	Monitor Well 2	water	1/25/2013	10:00	6	1,8		x	x	x	x																
3	Monitor Well 3	water	1/25/2013	9:20	6	1,8		x	x	x	x																
4	Monitor Well 4	water	1/25/2013	8:40	6	1,8		x	x	x	x																
5	Monitor Well 5	water	1/25/2013	11:30	6	1,8		x	x	x	x																
6	Monitor Well 6	water	1/25/2013	11:55	6	1,8		x	x	x	x																
7	Sample Port	water	1/25/2013	11:00	11	1,8		x	x	x	x	x	x	x	x												
						1,8																					

*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)
4.0°C	LEVEL II (Standard QC)
	LEVEL III (Std QC + forms)
	LEVEL IV (Std QC + forms + raw data)

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY		Dan Pinegar	1/25/2013	1257
RECEIVED BY		Skip Vest	1-25-13	1300
RELINQUISHED BY				
RECEIVED BY	Kandi Barraw	Kandi Barraw	1-25-13	1525
RELINQUISHED BY	Kandi Barraw	Kandi Barraw	1-25-13	1600
RECEIVED BY		PAUL DENEESE	1/26/13	1030

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: **HRL** Date/Time Received: **26-Jan-13 10:30**

Work Order: **1301807** Received by: **DS**

Checklist completed by Diane Shaw (eSignature) 28-Jan-13 (Date) Reviewed by: Alex Csaszar (eSignature) 28-Jan-13 (Date)

Matrices: Water
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):	4.0 c		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	1/28/2013 9:33:05 AM		
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:

07-Mar-2013

Maurice Foye
HRL Compliance Solutions
2385 F 1/2 Road
Grand Junction, CO 81505

Re: **GW Pad 8 MW 7 Install Sample 12-271 2/27/13** Work Order: **1303024**

Dear Maurice,

ALS Environmental received 2 samples on 01-Mar-2013 09:30 AM for the analyses presented in the following report.

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

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

The total number of pages in this report is 14.

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

Sincerely,

Ann Preston

Electronically approved by: Ann Preston

Ann Preston
Project Manager

Certificate No: MN331938

ALS Group USA, Corp

Date: 07-Mar-13

Client: HRL Compliance Solutions
Project: GW Pad 8 MW 7 Install Sample 12-271 2/27/13
Work Order: **1303024**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1303024-01	MW-7 Dissolved Phase	Water		2/27/2013 16:45	3/1/2013 09:30	☐
1303024-02	MW 7 Free Phase	Water		2/27/2013 16:55	3/1/2013 09:30	☐

ALS Group USA, Corp

Date: 07-Mar-13

Client: HRL Compliance Solutions
Project: GW Pad 8 MW 7 Install Sample 12-271 2/27/13
WorkOrder: **1303024**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	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

Acronym	Description
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
RPD	Relative Percent Difference
SD	Serial Dilution
TDL	Target Detection Limit

Units Reported	Description
µg/L	Micrograms per Liter
mg/L	Milligrams per Liter

ALS Group USA, Corp

Date: *07-Mar-13*

Client: HRL Compliance Solutions
Project: GW Pad 8 MW 7 Install Sample 12-271 2/27/13 **Work Order:** 1303024
Sample ID: MW-7 Dissolved Phase **Lab ID:** 1303024-01
Collection Date: 2/27/2013 04:45 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			**SW8015M**		Prep Date: **3/4/2013**	Analyst: **CW**
DRO (C10-C28)	ND		0.10	mg/L	1	3/5/2013 10:52 PM
Surr: 4-Terphenyl-d14	*53.7*		*21-90*	*%REC*	1	3/5/2013 10:52 PM
GASOLINE RANGE ORGANICS BY GC-FID			**SW8015**			Analyst: **CW**
GRO (C6-C10)	ND		0.20	mg/L	1	3/1/2013 06:21 PM
Surr: Toluene-d8	*112*		*70-130*	*%REC*	1	3/1/2013 06:21 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260**			Analyst: **RS**
Benzene	ND		1.0	µg/L	1	3/4/2013 07:48 PM
Ethylbenzene	ND		1.0	µg/L	1	3/4/2013 07:48 PM
m,p-Xylene	**2.7**		**2.0**	**µg/L**	1	3/4/2013 07:48 PM
o-Xylene	ND		1.0	µg/L	1	3/4/2013 07:48 PM
Toluene	ND		1.0	µg/L	1	3/4/2013 07:48 PM
Xylenes, Total	ND		3.0	µg/L	1	3/4/2013 07:48 PM
Surr: 1,2-Dichloroethane-d4	*105*		*70-120*	*%REC*	1	3/4/2013 07:48 PM
Surr: 4-Bromofluorobenzene	*89.0*		*75-120*	*%REC*	1	3/4/2013 07:48 PM
Surr: Dibromofluoromethane	*109*		*85-115*	*%REC*	1	3/4/2013 07:48 PM
Surr: Toluene-d8	*93.2*		*85-120*	*%REC*	1	3/4/2013 07:48 PM
ANIONS BY ION CHROMATOGRAPHY			**SW9056**			Analyst: **ED**
Chloride	**35**		**10**	**mg/L**	10	3/4/2013 11:09 AM
Sulfate	**480**		**40**	**mg/L**	40	3/4/2013 03:20 PM
TOTAL DISSOLVED SOLIDS			**A2540 C**			Analyst: **JJG**
Total Dissolved Solids	**1,000**		**10**	**mg/L**	1	3/1/2013 03:46 PM

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

ALS Group USA, Corp

Date: *07-Mar-13*

Client: HRL Compliance Solutions
Project: GW Pad 8 MW 7 Install Sample 12-271 2/27/13 **Work Order:** 1303024
Sample ID: MW 7 Free Phase **Lab ID:** 1303024-02
Collection Date: 2/27/2013 04:55 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			**SW8015M**		Prep Date: **3/4/2013**	Analyst: **CW**
DRO (C10-C28)	ND		0.10	mg/L	1	3/5/2013 11:29 PM
Surr: 4-Terphenyl-d14	*52.8*		*21-90*	*%REC*	1	3/5/2013 11:29 PM
GASOLINE RANGE ORGANICS BY GC-FID			**SW8015**			Analyst: **CW**
GRO (C6-C10)	ND		0.20	mg/L	1	3/1/2013 06:45 PM
Surr: Toluene-d8	*112*		*70-130*	*%REC*	1	3/1/2013 06:45 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260**			Analyst: **RS**
Benzene	ND		1.0	µg/L	1	3/4/2013 08:14 PM
Ethylbenzene	ND		1.0	µg/L	1	3/4/2013 08:14 PM
m,p-Xylene	**2.4**		**2.0**	**µg/L**	1	3/4/2013 08:14 PM
o-Xylene	ND		1.0	µg/L	1	3/4/2013 08:14 PM
Toluene	ND		1.0	µg/L	1	3/4/2013 08:14 PM
Xylenes, Total	ND		3.0	µg/L	1	3/4/2013 08:14 PM
Surr: 1,2-Dichloroethane-d4	*102*		*70-120*	*%REC*	1	3/4/2013 08:14 PM
Surr: 4-Bromofluorobenzene	*89.5*		*75-120*	*%REC*	1	3/4/2013 08:14 PM
Surr: Dibromofluoromethane	*114*		*85-115*	*%REC*	1	3/4/2013 08:14 PM
Surr: Toluene-d8	*94.0*		*85-120*	*%REC*	1	3/4/2013 08:14 PM

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

Client: HRL Compliance Solutions

QC BATCH REPORT

Work Order: 1303024

Project: GW Pad 8 MW 7 Install Sample 12-271 2/27/13

Batch ID: **46666** Instrument ID **GC11** Method: **SW8015M**

MBLK Sample ID: **DBLKW1-46666-46666** Units: **mg/L** Analysis Date: **3/5/2013 12:22 PM**

Client ID: Run ID: **GC11_130305A** SeqNo: **2230877** Prep Date: **3/4/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	0.10								
Surr: 4-Terphenyl-d14	*0.06263*	0	*0.1143*	0	*54.8*	*21-90*	0			

LCS Sample ID: **DLCSW1-46666-46666** Units: **mg/L** Analysis Date: **3/5/2013 12:57 PM**

Client ID: Run ID: **GC11_130305A** SeqNo: **2230878** Prep Date: **3/4/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	5.753	0.10	5.714	0	101	44-116	0			
Surr: 4-Terphenyl-d14	*0.06736*	0	*0.1143*	0	*58.9*	*21-90*	0			

MS Sample ID: **1303023-01B MS** Units: **mg/L** Analysis Date: **3/5/2013 01:31 PM**

Client ID: Run ID: **GC11_130305A** SeqNo: **2230879** Prep Date: **3/4/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	22.26	0.35	20	0	111	44-116	0			
Surr: 4-Terphenyl-d14	*0.2443*	0	*0.4*	0	*61.1*	*21-90*	0			

MSD Sample ID: **1303023-01B MSD** Units: **mg/L** Analysis Date: **3/5/2013 02:06 PM**

Client ID: Run ID: **GC11_130305A** SeqNo: **2230880** Prep Date: **3/4/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	20.4	0.35	20	0	102	44-116	22.26	8.69	30	
Surr: 4-Terphenyl-d14	*0.2345*	0	*0.4*	0	*58.6*	*21-90*	0.2443	*4.11*	*30*	

The following samples were analyzed in this batch: 1303024-01B 1303024-02B

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

Client: HRL Compliance Solutions
Work Order: 1303024
Project: GW Pad 8 MW 7 Install Sample 12-271 2/27/13

QC BATCH REPORT

Batch ID: **R116991** Instrument ID **GC10** Method: **SW8015**

MBLK Sample ID: **GBLK1-130301-R116991** Units: **µg/L** Analysis Date: **3/1/2013 05:31 PM**
Client ID: Run ID: **GC10_130301C** SeqNo: **2229806** 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								
Surr: Toluene-d8	*114*	0	*100*	0	*114*	*70-130*	0			

LCS Sample ID: **GLCS1-130301-R116991** Units: **µg/L** Analysis Date: **3/1/2013 05:07 PM**
Client ID: Run ID: **GC10_130301C** SeqNo: **2229805** 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)	8546	200	10000	0	85.5	70-130	0			
Surr: Toluene-d8	*118.2*	0	*100*	0	*118*	*70-130*	0			

MS Sample ID: **1303029-02A MS** Units: **µg/Kg** Analysis Date: **3/2/2013 12:57 PM**
Client ID: Run ID: **GC10_130301C** SeqNo: **2229878** 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)	418000	2,500	500000	0	83.6	70-130	0			
Surr: Toluene-d8	*5789*	0	*5000*	0	*116*	*50-150*	0			

MSD Sample ID: **1303029-02A MSD** Units: **µg/Kg** Analysis Date: **3/2/2013 01:21 AM**
Client ID: Run ID: **GC10_130301C** SeqNo: **2229877** 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)	415100	2,500	500000	0	83	70-130	418000	0.693	30	
Surr: Toluene-d8	*5888*	0	*5000*	0	*118*	*50-150*	5789	*1.7*	*30*	

The following samples were analyzed in this batch: 1303024-01A 1303024-02A

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

Client: HRL Compliance Solutions
Work Order: 1303024
Project: GW Pad 8 MW 7 Install Sample 12-271 2/27/13

QC BATCH REPORT

Batch ID: **R116876** Instrument ID **VMS9** Method: **SW8260**

MBLK Sample ID: **VBLKW1-130304-R116876** Units: **µg/L** Analysis Date: **3/4/2013 12:59 PM**
Client ID: Run ID: **VMS9_130304A** SeqNo: **2228325** 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	3.0								
Surr: 1,2-Dichloroethane-d4	*19.39*	0	*20*	0	*97*	*70-120*	0			
Surr: 4-Bromofluorobenzene	*17.93*	0	*20*	0	*89.6*	*75-120*	0			
Surr: Dibromofluoromethane	*19.56*	0	*20*	0	*97.8*	*85-115*	0			
Surr: Toluene-d8	*19.71*	0	*20*	0	*98.6*	*85-120*	0			

LCS Sample ID: **VLCSW1-130304-R116876** Units: **µg/L** Analysis Date: **3/4/2013 12:07 PM**
Client ID: Run ID: **VMS9_130304A** SeqNo: **2227460** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	18.59	1.0	20	0	93	80-120	0			
Ethylbenzene	20.68	1.0	20	0	103	75-125	0			
m,p-Xylene	37.64	2.0	40	0	94.1	75-130	0			
o-Xylene	21.13	1.0	20	0	106	80-120	0			
Toluene	20	1.0	20	0	100	75-120	0			
Xylenes, Total	58.77	3.0	60	0	98	75-130	0			
Surr: 1,2-Dichloroethane-d4	*18.06*	0	*20*	0	*90.3*	*70-120*	0			
Surr: 4-Bromofluorobenzene	*20.21*	0	*20*	0	*101*	*75-120*	0			
Surr: Dibromofluoromethane	*19.94*	0	*20*	0	*99.7*	*85-115*	0			
Surr: Toluene-d8	*20.13*	0	*20*	0	*101*	*85-120*	0			

MS Sample ID: **1303026-01A MS** Units: **µg/L** Analysis Date: **3/4/2013 10:22 PM**
Client ID: Run ID: **VMS9_130304A** SeqNo: **2228343** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	17.97	1.0	20	0	89.8	80-120	0			
Ethylbenzene	18.98	1.0	20	0	94.9	75-125	0			
m,p-Xylene	35.27	2.0	40	0	88.2	75-130	0			
o-Xylene	19.29	1.0	20	0	96.4	80-120	0			
Toluene	18.94	1.0	20	0	94.7	75-120	0			
Xylenes, Total	54.56	3.0	60	0	90.9	75-130	0			
Surr: 1,2-Dichloroethane-d4	*19.27*	0	*20*	0	*96.4*	*70-120*	0			
Surr: 4-Bromofluorobenzene	*20.37*	0	*20*	0	*102*	*75-120*	0			
Surr: Dibromofluoromethane	*21.99*	0	*20*	0	*110*	*85-115*	0			
Surr: Toluene-d8	*19.73*	0	*20*	0	*98.6*	*85-120*	0			

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

Client: HRL Compliance Solutions
Work Order: 1303024
Project: GW Pad 8 MW 7 Install Sample 12-271 2/27/13

QC BATCH REPORT

Batch ID: **R116876** Instrument ID **VMS9** Method: **SW8260**

MSD	Sample ID: **1303026-01A MSD**			Units: **µg/L**		Analysis Date: **3/4/2013 10:48 PM**			
Client ID:		Run ID: **VMS9_130304A**		SeqNo: **2228344**		Prep Date:		DF: **1**	

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.69	1.0	20	0	98.4	80-120	17.97	9.13	30	
Ethylbenzene	18.11	1.0	20	0	90.6	75-125	18.98	4.69	30	
m,p-Xylene	33.64	2.0	40	0	84.1	75-130	35.27	4.73	30	
o-Xylene	18.68	1.0	20	0	93.4	80-120	19.29	3.21	30	
Toluene	17.86	1.0	20	0	89.3	75-120	18.94	5.87	30	
Xylenes, Total	52.32	3.0	60	0	87.2	75-130	54.56	4.19	30	
Surr: 1,2-Dichloroethane-d4	*21.81*	0	*20*	0	*109*	*70-120*	19.27	*12.4*	*30*	
Surr: 4-Bromofluorobenzene	*20.66*	0	*20*	0	*103*	*75-120*	20.37	*1.41*	*30*	
Surr: Dibromofluoromethane	*21.81*	0	*20*	0	*109*	*85-115*	21.99	*0.822*	*30*	
Surr: Toluene-d8	*19.66*	0	*20*	0	*98.3*	*85-120*	19.73	*0.355*	*30*	

The following samples were analyzed in this batch: 1303024-01A 1303024-02A

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

Client: HRL Compliance Solutions
Work Order: 1303024
Project: GW Pad 8 MW 7 Install Sample 12-271 2/27/13

QC BATCH REPORT

Batch ID: **R116871** Instrument ID **TDS** Method: **A2540 C**

MBLK Sample ID: **BLANK-R116871** Units: **mg/L** Analysis Date: **3/1/2013 03:46 PM**
Client ID: Run ID: **TDS_130301A** SeqNo: **2227279** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids	ND	10								

LCS Sample ID: **LCS-R116871** Units: **mg/L** Analysis Date: **3/1/2013 03:46 PM**
Client ID: Run ID: **TDS_130301A** SeqNo: **2227280** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids	489	10	495	0	98.8	80-120	0			

DUP Sample ID: **1302862-01B DUP** Units: **mg/L** Analysis Date: **3/1/2013 03:46 PM**
Client ID: Run ID: **TDS_130301A** SeqNo: **2227263** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids	1761	10	0	0	0	0-0	1752	0.512	20	

DUP Sample ID: **1303039-02A DUP** Units: **mg/L** Analysis Date: **3/1/2013 03:46 PM**
Client ID: Run ID: **TDS_130301A** SeqNo: **2227276** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids	530	10	0	0	0	0-0	523	1.33	20	

The following samples were analyzed in this batch: 1303024-01C

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

Client: HRL Compliance Solutions
Work Order: 1303024
Project: GW Pad 8 MW 7 Install Sample 12-271 2/27/13

QC BATCH REPORT

Batch ID: **R116921** Instrument ID **IC4** Method: **SW9056**

MBLK Sample ID: **MBLK-R116921** Units: **mg/L** Analysis Date: **3/4/2013 10:25 AM**
Client ID: Run ID: **IC4_130304A** SeqNo: **2228468** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	0.3113	1.0								J
Sulfate	ND	1.0								

LCS Sample ID: **LCS-R116921** Units: **mg/L** Analysis Date: **3/4/2013 10:05 AM**
Client ID: Run ID: **IC4_130304A** SeqNo: **2228467** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.241	1.0	10	0	92.4	88-107	0			
Sulfate	9.816	1.0	10	0	98.2	85-110	0			

MS Sample ID: **1303043-05A MS** Units: **mg/L** Analysis Date: **3/4/2013 01:39 PM**
Client ID: Run ID: **IC4_130304A** SeqNo: **2228476** Prep Date: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	137.2	10	50	87.31	99.7	75-125	0			
Sulfate	167.4	10	50	116	103	75-125	0			

MSD Sample ID: **1303043-05A MSD** Units: **mg/L** Analysis Date: **3/4/2013 02:40 PM**
Client ID: Run ID: **IC4_130304A** SeqNo: **2228479** Prep Date: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	135.9	10	50	87.31	97.1	75-125	137.2	0.959	20	
Sulfate	166.5	10	50	116	101	75-125	167.4	0.526	20	

The following samples were analyzed in this batch: 1303024-01C

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

WORKORDER # 1303024

		SAMPLER	Dan Pinegar	DATE	2/28/2013	PAGE	1 of 1
PROJECT NAME	GW Pad 8 MW 7 Install/Sample	SITE ID		TURNAROUND	standard	DISPOSAL	By Lab or Return to Client
PROJECT No.	12-271	EDD FORMAT					
		PURCHASE ORDER					
COMPANY NAME	HRL Compliance Solutions, Inc.	BILL TO COMPANY	Same				
SEND REPORT TO	Maurice Foye	INVOICE ATTN TO					
ADDRESS	2385 F 1/2 Road	ADDRESS					
CITY / STATE / ZIP	Grand Junction, CO. 81505	CITY / STATE / ZIP					
PHONE	970-243-3271	PHONE					
FAX	970-243-3280	FAX					
E-MAIL	Tbrewster@hrlcomp.com, Svest@hrlcomp.com, Mfoye@hrlcomp.com	E-MAIL					

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	BTEX	GRO	DRO	Sulfate	TDS	Chlorides
1	MW 7 Dissolved Phase	Water	2/27/2013	4:45 PM	12	8 &1		X	X	X	X	X	X
2	MW 7 Free Phase	Water	2/27/2013	4:55 PM	8	8 &1		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: 3.4°c

QC PACKAGE (check below)	
X	LEVEL II (Standard QC)
	LEVEL III (Std QC + forms)
	LEVEL IV (Std QC + forms + raw data)

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY		Dan Pinegar	2/28/2013	5:00 PM
RECEIVED BY		KEITH WIEREMA	3/1/13	0930
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: **HRL** Date/Time Received: **01-Mar-13 09:30**

Work Order: **1303024** Received by: **KRW**

Checklist completed by Keith Wierenga (eSignature) 01-Mar-13 (Date) Reviewed by: Ann Preston (eSignature) 01-Mar-13 (Date)

Matrices: Water
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):	3.4 C		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	3/1/2013 10:53:14 AM		
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 Express US Airbill 8681 6428 9790 0200 Form ID No. **FedEx Retrieval Copy**

1 From

Date 2-28-13 Sender's FedEx Account Number

Sender's Name DAN [illegible] Phone 970 [illegible]

Company [illegible]

Address 2385 F 1/2 Rd Dept./Floor/Suite/Room

City GRAND JUNCTION State CO ZIP 81505

2 Your Internal Billing Reference

3 To

Recipient's Name RECEIVING Phone 616 399-6070

Company ALS GROUP

Recipient's Address

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address 3352 128th AVE

To request a package be held at a specific FedEx location, print FedEx address here.

City HOLLAND State MI ZIP [illegible]

8681 6428 9790

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

1 [X] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

5 [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

6 [ ] FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.

3 [ ] 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.

FedEx Envelope rate not available. Minimum charge: One-pound rate. * To most locations.

4b Express Freight Service *Packages over 150 lbs.*

7 [ ] FedEx 1Day Freight* — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

8 [ ] 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.

* Call for Confirmation: ** To most locations.

5 Packaging

6 [ ] FedEx Envelope* 2 [ ] FedEx Pak* Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak. 3 [ ] FedEx Box 4 [ ] FedEx Tube 1 [X] Other

* Declared value limit $500.

6 Special Handling Include FedEx address in Section 3.

3 [ ] SATURDAY Delivery — Not available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.

1 [ ] HOLD Weekday at FedEx Location — Not available for FedEx First Overnight.

31 [ ] HOLD Saturday at FedEx Location — Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Does this shipment contain dangerous goods? One box must be checked.

[X] No 4 [ ] Yes As per attached Shipper's Declaration. [ ] Yes Shipper's Declaration not required. 6 [ ] Dry Ice Dry Ice, 9, UN 1845 ___ x ___ kg [ ] Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

Obtain Recip. Acct No. [ ] 5 [ ] Cash/Check

Credit Card Auth.

CUSTODY SEAL QEC Quality Environmental Containers 800-255-3950 • 304-255-3900 SIGNATURE DATE

8 Residential Delivery Signature Options If you require a signature, check Direct or Indirect.

[ ] No Signature Required — Package may be left without obtaining a signature for delivery.

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

34 [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. *Fee applies.*

520

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