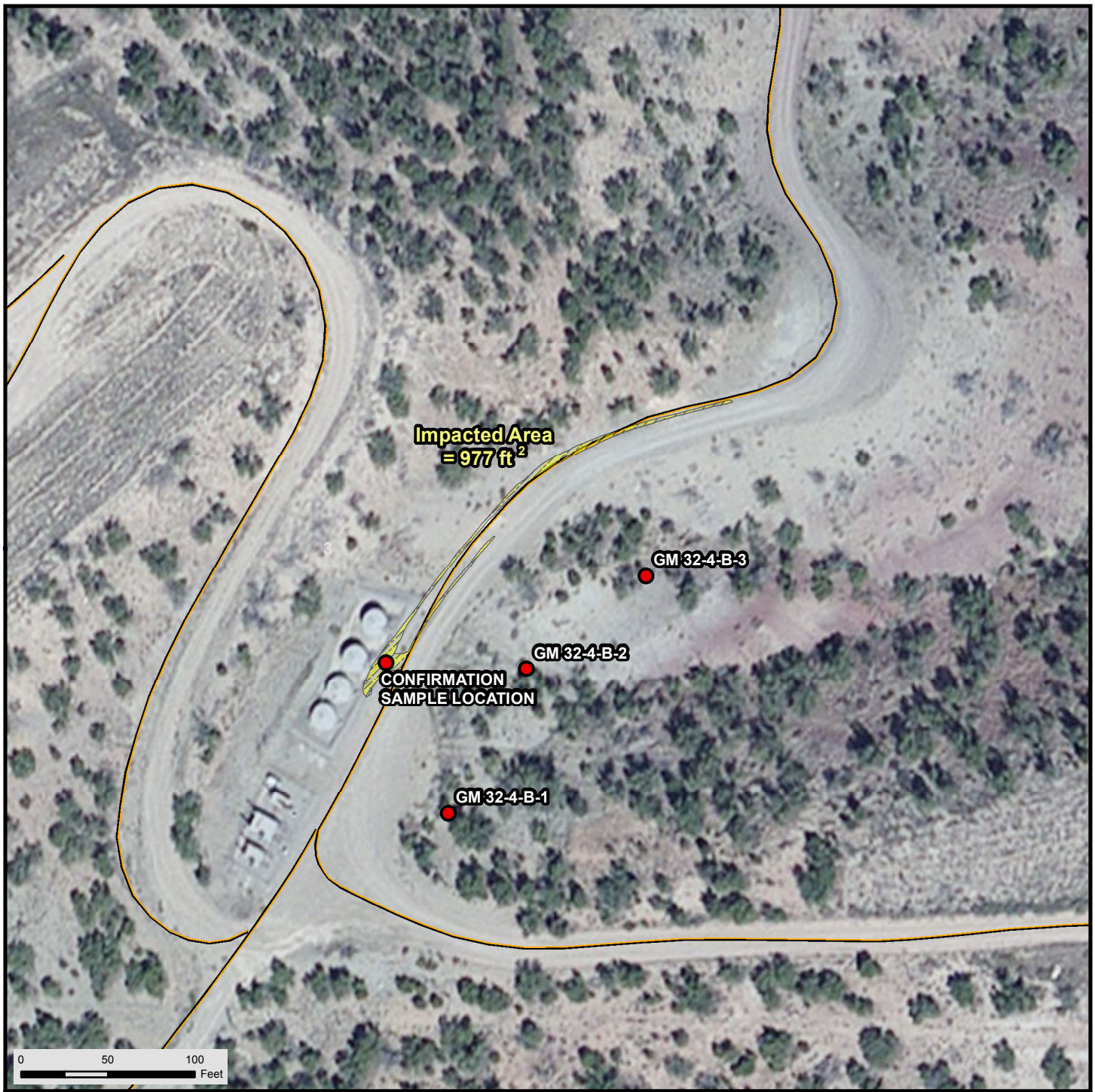

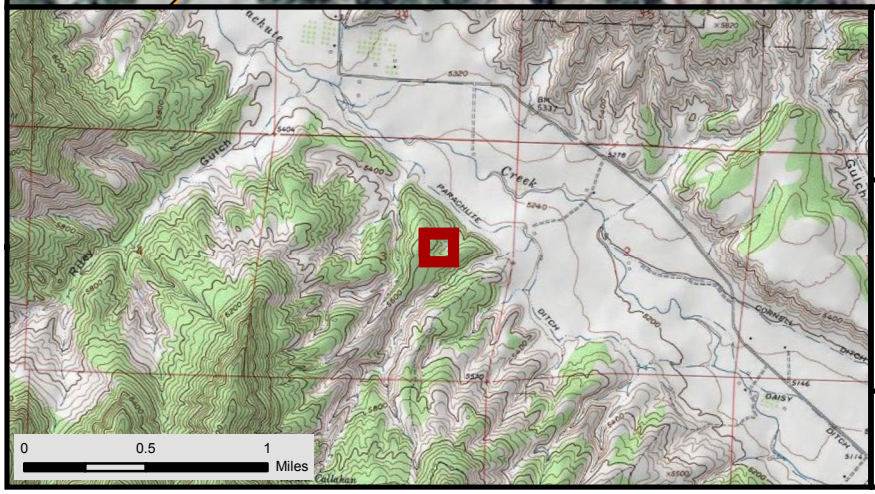

WPXENERGY Sample Location Map

GM 268-3

39.466845 -108.091089
Section 3, Township 7 South, Range 96 West

Sample Location
Impacted Area

PLSS
Township
Section

Transportation
CO Highways
County Roads
Local Streets
WPX Access

Hydrography
Ditch
Intermittent Stream
Perennial Stream
Waterbody
Watershed

HCSI Environmental Consultants
HRL Compliance Solutions, Inc.

N

Author: B. Hall
Revision: 0
Date: 6/4/2014

T:\Client_Specific\2014\WPX Energy\GM 268-3\Spills\GM 268-3 Sample Location Map.mxd

05-Jun-2014

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

Re: **GM 268-3 Produced Water Spill 5.27.14** Work Order: **14051480**

Dear Mark,

ALS Environmental received 1 sample on 29-May-2014 for the analyses presented in the following report.

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

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

The total number of pages in this report is 25.

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: MN 532786

ADDRESS 3352 128th Avenue Holland, Michigan 49424-9263 | PHONE (616) 399-6070 | FAX (616) 399-6185
ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

ALS Group USA, Corp

Date: 05-Jun-14

Client: HRL Compliance Solutions, Inc
Project: GM 268-3 Produced Water Spill 5.27.14
Work Order: **14051480**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
14051480-01	Impacted Area	Soil		5/27/2014 13:40	5/29/2014 10:30	☐

ALS Group USA, Corp

Date: 05-Jun-14

Client: HRL Compliance Solutions, Inc
Project: GM 268-3 Produced Water Spill 5.27.14
Work Order: 14051480

Case Narrative

Batch 59160 MS/MSD data for Hexavalent Chromium is not related to this project's samples. No data requires qualification.

Batch 59181 MS/MSD data for Metals is not related to this project's samples. No data requires qualification.

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 is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

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

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

ALS Group USA, Corp

Date: *05-Jun-14*

Client: HRL Compliance Solutions, Inc
Project: GM 268-3 Produced Water Spill 5.27.14
Work Order: 14051480
Sample ID: Impacted Area
Lab ID: 14051480-01
Collection Date: 5/27/2014 01:40 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			**SW8015M**		Prep: SW3541 / 5/30/14	Analyst: **IT**
DRO (C10-C28)	**140**		**4.7**	**mg/Kg-dry**	1	6/2/2014 04:19 PM
Surr: 4-Terphenyl-d14	*77.8*		*39-133*	*%REC*	1	6/2/2014 04:19 PM
GASOLINE RANGE ORGANICS BY GC-FID			**SW8015**		Prep: SW5035 / 5/30/14	Analyst: **IT**
GRO (C6-C10)	ND		2.9	mg/Kg-dry	1	5/30/2014 06:36 PM
Surr: Toluene-d8	*118*		*50-150*	*%REC*	1	5/30/2014 06:36 PM
MERCURY BY CVAA			**SW7471**		Prep: SW7471 / 6/3/14	Analyst: **LR**
Mercury	**0.036**		**0.015**	**mg/Kg-dry**	1	6/3/2014 08:51 PM
METALS BY ICP-MS			**SW6020A**		Prep: SW3050B / 5/30/14	Analyst: **ML**
Arsenic	**6.4**		**2.2**	**mg/Kg-dry**	5	5/30/2014 07:47 PM
Barium	**390**		**2.2**	**mg/Kg-dry**	5	5/30/2014 07:47 PM
Cadmium	ND		0.90	mg/Kg-dry	5	5/30/2014 07:47 PM
Chromium	**15**		**2.2**	**mg/Kg-dry**	5	5/30/2014 07:47 PM
Copper	**20**		**2.2**	**mg/Kg-dry**	5	5/30/2014 07:47 PM
Lead	**15**		**2.2**	**mg/Kg-dry**	5	5/30/2014 07:47 PM
Nickel	**20**		**2.2**	**mg/Kg-dry**	5	5/30/2014 07:47 PM
Selenium	**2.5**		**2.2**	**mg/Kg-dry**	5	5/30/2014 07:47 PM
Silver	ND		2.2	mg/Kg-dry	5	5/30/2014 07:47 PM
Zinc	**68**		**4.5**	**mg/Kg-dry**	5	5/30/2014 07:47 PM
SOLUBLE CATIONS FOR SAR			**SW6020A**		Prep: USDA Method 20B / 6/2/14	Analyst: **RH**
Calcium	**770**		**10**	**mg/L**	20	6/3/2014 03:23 PM
Magnesium	**410**		**4.0**	**mg/L**	20	6/3/2014 03:23 PM
Sodium	**1,500**		**4.0**	**mg/L**	20	6/3/2014 03:23 PM
SODIUM ADSORPTION RATIO			**USDA H60 METHO**		Prep: USDA Method 20B / 6/2/14	Analyst: **RH**
Sodium Adsorption Ratio	**11**		**0.010**	**none**	1	6/3/2014
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW8270**		Prep: SW3541 / 5/30/14	Analyst: **RM**
Acenaphthene	ND		7.5	µg/Kg-dry	1	6/2/2014 01:19 AM
Acenaphthylene	ND		7.5	µg/Kg-dry	1	6/2/2014 01:19 AM
Anthracene	**11**		**7.5**	**µg/Kg-dry**	1	6/2/2014 01:19 AM
Benzo(a)anthracene	**11**		**7.5**	**µg/Kg-dry**	1	6/2/2014 01:19 AM
Benzo(a)pyrene	ND		7.5	µg/Kg-dry	1	6/2/2014 01:19 AM
Benzo(b)fluoranthene	ND		7.5	µg/Kg-dry	1	6/2/2014 01:19 AM
Benzo(g,h,i)perylene	ND		7.5	µg/Kg-dry	1	6/2/2014 01:19 AM
Benzo(k)fluoranthene	ND		7.5	µg/Kg-dry	1	6/2/2014 01:19 AM
Chrysene	ND		7.5	µg/Kg-dry	1	6/2/2014 01:19 AM

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

ALS Group USA, Corp

Date: *05-Jun-14*

Client: HRL Compliance Solutions, Inc
Project: GM 268-3 Produced Water Spill 5.27.14 **Work Order:** 14051480
Sample ID: Impacted Area **Lab ID:** 14051480-01
Collection Date: 5/27/2014 01:40 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	ND		7.5	µg/Kg-dry	1	6/2/2014 01:19 AM
Fluoranthene	ND		7.5	µg/Kg-dry	1	6/2/2014 01:19 AM
Fluorene	**24**		**7.5**	**µg/Kg-dry**	1	6/2/2014 01:19 AM
Indeno(1,2,3-cd)pyrene	ND		7.5	µg/Kg-dry	1	6/2/2014 01:19 AM
Naphthalene	**28**		**7.5**	**µg/Kg-dry**	1	6/2/2014 01:19 AM
Pyrene	ND		7.5	µg/Kg-dry	1	6/2/2014 01:19 AM
Surr: 2-Fluorobiphenyl	*64.9*		*12-100*	*%REC*	1	6/2/2014 01:19 AM
Surr: 4-Terphenyl-d14	*63.6*		*25-137*	*%REC*	1	6/2/2014 01:19 AM
Surr: Nitrobenzene-d5	*56.8*		*37-107*	*%REC*	1	6/2/2014 01:19 AM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**		Prep: SW5035 / 5/30/14	Analyst: **BG**
Benzene	ND		34	µg/Kg-dry	1	6/3/2014 10:07 PM
Ethylbenzene	ND		34	µg/Kg-dry	1	6/3/2014 10:07 PM
m,p-Xylene	**180**		**69**	**µg/Kg-dry**	1	6/3/2014 10:07 PM
o-Xylene	**37**		**34**	**µg/Kg-dry**	1	6/3/2014 10:07 PM
Toluene	**43**		**34**	**µg/Kg-dry**	1	6/3/2014 10:07 PM
Xylenes, Total	**220**		**100**	**µg/Kg-dry**	1	6/3/2014 10:07 PM
Surr: 1,2-Dichloroethane-d4	*99.3*		*70-130*	*%REC*	1	6/3/2014 10:07 PM
Surr: 4-Bromofluorobenzene	*96.4*		*70-130*	*%REC*	1	6/3/2014 10:07 PM
Surr: Dibromofluoromethane	*94.8*		*70-130*	*%REC*	1	6/3/2014 10:07 PM
Surr: Toluene-d8	*99.0*		*70-130*	*%REC*	1	6/3/2014 10:07 PM
ELECTRICAL CONDUCTIVITY (SAR)			**USDA H60 METHO**		Prep: USDA Method 20B / 6/2/14	Analyst: **JB**
Electrical Conductivity @ Saturation	**15**		**0.050**	**mmhos/cm @25**	10	6/2/2014 04:15 PM
CHROMIUM, TRIVALENT			**CALCULATION**			Analyst: **EE**
Chromium, Trivalent	**15**		**0.57**	**mg/Kg-dry**	1	6/2/2014 04:30 PM
CHROMIUM, HEXAVALENT			**SW7196A**		Prep: SW3060A / 5/29/14	Analyst: **JI**
Chromium, Hexavalent	ND		0.57	mg/Kg-dry	1	5/30/2014 12:00 PM
MOISTURE			**A2540 G**			Analyst: **AT**
Moisture	**13**		**0.050**	**% of sample**	1	5/29/2014 04:03 PM
PH			**SW9045D**		Prep: EXTRACT / 5/29/14	Analyst: **AT**
pH	**7.7**			**s.u.**	1	5/29/2014 04:00 PM

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

QC BATCH REPORT

Batch ID: **59172** Instrument ID **GC8** Method: **SW8015C**

MBLK Sample ID: **DBLKS1-59172-59172** Units: **mg/Kg** Analysis Date: **6/2/2014 12:19 PM**

Client ID: Run ID: **GC8_140602A** SeqNo: **2789697** Prep Date: **5/30/2014** 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	*1.189*	0	*1.667*	0	*71.4*	*39-133*	0			

LCS Sample ID: **DLCSS1-59172-59172** Units: **mg/Kg** Analysis Date: **6/2/2014 12:49 PM**

Client ID: Run ID: **GC8_140602A** SeqNo: **2789698** Prep Date: **5/30/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	138.3	4.2	166.7	0	83	61-109	0			
Surr: 4-Terphenyl-d14	*1.147*	0	*1.667*	0	*68.8*	*39-133*	0			

MS Sample ID: **14051187-01C MS** Units: **mg/Kg** Analysis Date: **6/2/2014 01:19 PM**

Client ID: Run ID: **GC8_140602A** SeqNo: **2789699** Prep Date: **5/30/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	324.5	8.0	319.5	36.74	90.1	48-110	0			
Surr: 4-Terphenyl-d14	*2.404*	0	*3.195*	0	*75.3*	*39-133*	0			

MSD Sample ID: **14051187-01C MSD** Units: **mg/Kg** Analysis Date: **6/2/2014 01:49 PM**

Client ID: Run ID: **GC8_140602A** SeqNo: **2789700** Prep Date: **5/30/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	390.7	8.2	328.8	36.74	108	48-110	324.5	18.5	30	
Surr: 4-Terphenyl-d14	*2.581*	0	*3.288*	0	*78.5*	*39-133*	2.404	*7.08*	*30*	

The following samples were analyzed in this batch: 14051480-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 14051480
Project: GM 268-3 Produced Water Spill 5.27.14

QC BATCH REPORT

Batch ID: **59174** Instrument ID **GC9** Method: **SW8015**

MBLK Sample ID: **MBLK-59174-59174** Units: **µg/Kg** Analysis Date: **5/30/2014 01:29 PM**
Client ID: Run ID: **GC9_140530A** SeqNo: **2788045** Prep Date: **5/30/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	ND	2,500								
Surr: Toluene-d8	*5098*	0	*5000*	0	*102*	*50-150*	0			

LCS Sample ID: **LCS-59174-59174** Units: **µg/Kg** Analysis Date: **5/30/2014 01:03 PM**
Client ID: Run ID: **GC9_140530A** SeqNo: **2788044** Prep Date: **5/30/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	468800	2,500	500000	0	93.8	70-130	0			
Surr: Toluene-d8	*6376*	0	*5000*	0	*128*	*50-150*	0			

MS Sample ID: **14051422-05B MS** Units: **µg/Kg** Analysis Date: **5/30/2014 07:30 PM**
Client ID: Run ID: **GC9_140530A** SeqNo: **2788364** Prep Date: **5/30/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	534500	2,500	500000	0	107	70-130	0			
Surr: Toluene-d8	*5943*	0	*5000*	0	*119*	*50-150*	0			

MSD Sample ID: **14051422-05B MSD** Units: **µg/Kg** Analysis Date: **5/30/2014 07:56 PM**
Client ID: Run ID: **GC9_140530A** SeqNo: **2788365** Prep Date: **5/30/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	504200	2,500	500000	0	101	70-130	534500	5.82	30	
Surr: Toluene-d8	*5785*	0	*5000*	0	*116*	*50-150*	5943	*2.69*	*30*	

The following samples were analyzed in this batch: 14051480-01A

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

Client: HRL Compliance Solutions, Inc
Work Order: 14051480
Project: GM 268-3 Produced Water Spill 5.27.14

QC BATCH REPORT

Batch ID: **59286** Instrument ID **HG1** Method: **SW7471**

MBLK Sample ID: **MBLK-59286-59286** Units: **mg/Kg** Analysis Date: **6/3/2014 07:51 PM**
Client ID: Run ID: **HG1_140603A** SeqNo: **2792382** Prep Date: **6/3/2014** DF: **1**

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

LCS Sample ID: **LCS-59286-59286** Units: **mg/Kg** Analysis Date: **6/3/2014 07:53 PM**
Client ID: Run ID: **HG1_140603A** SeqNo: **2792383** Prep Date: **6/3/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1739	0.020	0.1665	0	104	80-120	0			

MS Sample ID: **14051337-09BMS** Units: **mg/Kg** Analysis Date: **6/3/2014 08:04 PM**
Client ID: Run ID: **HG1_140603A** SeqNo: **2792387** Prep Date: **6/3/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1324	0.014	0.1175	0.001272	112	75-125	0			

MSD Sample ID: **14051337-09BMSD** Units: **mg/Kg** Analysis Date: **6/3/2014 08:14 PM**
Client ID: Run ID: **HG1_140603A** SeqNo: **2792391** Prep Date: **6/3/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1225	0.014	0.1154	0.001272	105	75-125	0.1324	7.77	35	

The following samples were analyzed in this batch: 14051480-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 14051480
Project: GM 268-3 Produced Water Spill 5.27.14

QC BATCH REPORT

Batch ID: **59181** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK Sample ID: **MBLK-59181-59181** Units: **mg/Kg** Analysis Date: **5/30/2014 05:16 PM**
Client ID: Run ID: **ICPMS1_140530A** SeqNo: **2789009** Prep Date: **5/30/2014** 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	0.1042	0.25								J
Cadmium	ND	0.10								
Chromium	ND	0.25								
Copper	ND	0.25								
Lead	ND	0.25								
Nickel	ND	0.25								
Selenium	ND	0.25								
Silver	ND	0.25								
Zinc	0.02504	0.50								J

LCS Sample ID: **LCS-59181-59181** Units: **mg/Kg** Analysis Date: **5/30/2014 05:22 PM**
Client ID: Run ID: **ICPMS1_140530A** SeqNo: **2789010** Prep Date: **5/30/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.236	0.25	5	0	84.7	80-120	0			
Barium	4.916	0.25	5	0	98.3	80-120	0			
Cadmium	4.594	0.10	5	0	91.9	80-120	0			
Chromium	4.653	0.25	5	0	93.1	80-120	0			
Lead	4.598	0.25	5	0	92	80-120	0			
Nickel	4.526	0.25	5	0	90.5	80-120	0			
Selenium	4.021	0.25	5	0	80.4	80-120	0			
Silver	4.512	0.25	5	0	90.2	80-120	0			
Zinc	4.21	0.50	5	0	84.2	80-120	0			

LCS Sample ID: **LCS-59181-59181** Units: **mg/Kg** Analysis Date: **6/1/2014 09:32 PM**
Client ID: Run ID: **ICPMS1_140601A** SeqNo: **2789114** Prep Date: **5/30/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper	4.82	0.25	5	0	96.4	80-120	0			

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

Client: HRL Compliance Solutions, Inc
Work Order: 14051480
Project: GM 268-3 Produced Water Spill 5.27.14

QC BATCH REPORT

Batch ID: **59181** Instrument ID **ICPMS1** Method: **SW6020A**

MS Sample ID: **14051482-02AMS** Units: **mg/Kg** Analysis Date: **5/30/2014 08:45 PM**
Client ID: Run ID: **ICPMS1_140530A** SeqNo: **2789044** Prep Date: **5/30/2014** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	11.7	1.9	7.776	6.638	65	75-125	0			S
Barium	134.9	1.9	7.776	136	-14.1	75-125	0			SO
Cadmium	7.03	0.78	7.776	0.5232	83.7	75-125	0			
Chromium	18.06	1.9	7.776	9.505	110	75-125	0			
Copper	17.85	1.9	7.776	14.12	47.9	75-125	0			S
Nickel	18.55	1.9	7.776	14.08	57.5	75-125	0			S
Silver	6.229	1.9	7.776	0.07245	79.2	75-125	0			
Zinc	52.14	3.9	7.776	51.39	9.61	75-125	0			SO

MS Sample ID: **14051482-02AMS** Units: **mg/Kg** Analysis Date: **6/2/2014 01:02 AM**
Client ID: Run ID: **ICPMS1_140601A** SeqNo: **2789172** Prep Date: **5/30/2014** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Selenium	7.932	1.9	7.776	2.456	70.4	75-125	0			S

MS Sample ID: **14051482-02AMS** Units: **mg/Kg** Analysis Date: **6/2/2014 06:06 PM**
Client ID: Run ID: **ICPMS1_140602A** SeqNo: **2790031** Prep Date: **5/30/2014** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead	17.94	1.9	7.776	12.2	73.8	75-125	0			S

MSD Sample ID: **14051482-02AMSD** Units: **mg/Kg** Analysis Date: **5/30/2014 08:51 PM**
Client ID: Run ID: **ICPMS1_140530A** SeqNo: **2789045** Prep Date: **5/30/2014** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	12.28	1.9	7.704	6.638	73.2	75-125	11.7	4.85	25	S
Barium	148	1.9	7.704	136	156	75-125	134.9	9.27	25	SO
Cadmium	7.277	0.77	7.704	0.5232	87.7	75-125	7.03	3.45	25	
Chromium	19.58	1.9	7.704	9.505	131	75-125	18.06	8.12	25	S
Copper	18.94	1.9	7.704	14.12	62.6	75-125	17.85	5.97	25	S
Nickel	20.1	1.9	7.704	14.08	78.1	75-125	18.55	8.02	25	
Silver	6.514	1.9	7.704	0.07245	83.6	75-125	6.229	4.48	25	
Zinc	55.43	3.9	7.704	51.39	52.4	75-125	52.14	6.12	25	SO

MSD Sample ID: **14051482-02AMSD** Units: **mg/Kg** Analysis Date: **6/2/2014 01:08 AM**
Client ID: Run ID: **ICPMS1_140601A** SeqNo: **2789173** Prep Date: **5/30/2014** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Selenium	8.147	1.9	7.704	2.456	73.9	75-125	7.932	2.68	25	S

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

Client: HRL Compliance Solutions, Inc
Work Order: 14051480
Project: GM 268-3 Produced Water Spill 5.27.14

QC BATCH REPORT

Batch ID: **59181** Instrument ID **ICPMS1** Method: **SW6020A**

MSD Sample ID: **14051482-02AMSD** Units: **mg/Kg** Analysis Date: **6/2/2014 06:12 PM**
Client ID: Run ID: **ICPMS1_140602A** SeqNo: **2790032** Prep Date: **5/30/2014** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead	19.04	1.9	7.704	12.2	88.8	75-125	17.94	5.96	25	

The following samples were analyzed in this batch: 14051480-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 14051480
Project: GM 268-3 Produced Water Spill 5.27.14

QC BATCH REPORT

Batch ID: **59205** Instrument ID **ICPMS2** Method: **SW6020A**

DUP	Sample ID: **14051479-01CDUP**			Units: **mg/L**			Analysis Date: **6/3/2014 03:17 PM**			
Client ID:	Run ID: **ICPMS2_140603A**			SeqNo: **2791554**		Prep Date: **6/2/2014**		DF: **20**		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	84	10	0	0	0	0-0	88.78	5.53		
Magnesium	26.2	4.0	0	0	0	0-0	27.68	5.49		
Sodium	40.22	4.0	0	0	0	0-0	41.58	3.33		

DUP	Sample ID: **14051479-01CDUP**			Units: **none**			Analysis Date: **6/3/2014**			
Client ID:	Run ID: **SAR_140603A**			SeqNo: **2791558**		Prep Date: **6/2/2014**		DF: **1**		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	0.982	0.010	0	0	0		0.9876	0.565	50	

The following samples were analyzed in this batch: 14051480-01C

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

Client: HRL Compliance Solutions, Inc
Work Order: 14051480
Project: GM 268-3 Produced Water Spill 5.27.14

QC BATCH REPORT

Batch ID: **59171** Instrument ID **SVMS8** Method: **SW8270**

MBLK Sample ID: **SBLKS1-59171-59171** Units: **µg/Kg** Analysis Date: **6/1/2014 01:21 PM**
Client ID: Run ID: **SVMS8_140601A** SeqNo: **2789637** Prep Date: **5/30/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	ND	6.7								
Acenaphthylene	ND	6.7								
Anthracene	ND	6.7								
Benzo(a)anthracene	ND	6.7								
Benzo(a)pyrene	ND	6.7								
Benzo(b)fluoranthene	ND	6.7								
Benzo(g,h,i)perylene	ND	6.7								
Benzo(k)fluoranthene	ND	6.7								
Chrysene	ND	6.7								
Dibenzo(a,h)anthracene	ND	6.7								
Fluoranthene	ND	6.7								
Fluorene	ND	6.7								
Indeno(1,2,3-cd)pyrene	ND	6.7								
Naphthalene	ND	6.7								
Pyrene	ND	6.7								
Surr: 2-Fluorobiphenyl	*1194*	0	*1667*	0	*71.7*	*12-100*	0			
Surr: 4-Terphenyl-d14	*1619*	0	*1667*	0	*97.1*	*25-137*	0			
Surr: Nitrobenzene-d5	*1308*	0	*1667*	0	*78.5*	*37-107*	0			

LCS Sample ID: **SLCSS1-59171-59171** Units: **µg/Kg** Analysis Date: **6/1/2014 01:41 PM**
Client ID: Run ID: **SVMS8_140601A** SeqNo: **2789638** Prep Date: **5/30/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	554.3	6.7	666.7	0	83.1	45-110	0			
Acenaphthylene	541	6.7	666.7	0	81.1	45-105	0			
Anthracene	624.3	6.7	666.7	0	93.6	55-105	0			
Benzo(a)anthracene	599.3	6.7	666.7	0	89.9	50-110	0			
Benzo(a)pyrene	627	6.7	666.7	0	94	50-110	0			
Benzo(b)fluoranthene	628.3	6.7	666.7	0	94.2	45-115	0			
Benzo(g,h,i)perylene	555	6.7	666.7	0	83.2	40-125	0			
Benzo(k)fluoranthene	634.3	6.7	666.7	0	95.1	45-115	0			
Chrysene	597.7	6.7	666.7	0	89.6	55-110	0			
Dibenzo(a,h)anthracene	580.3	6.7	666.7	0	87	40-125	0			
Fluoranthene	635	6.7	666.7	0	95.2	55-115	0			
Fluorene	572.3	6.7	666.7	0	85.8	50-110	0			
Indeno(1,2,3-cd)pyrene	537	6.7	666.7	0	80.5	40-120	0			
Naphthalene	479.3	6.7	666.7	0	71.9	40-105	0			
Pyrene	629.7	6.7	666.7	0	94.4	45-125	0			
Surr: 2-Fluorobiphenyl	*1198*	0	*1667*	0	*71.9*	*12-100*	0			
Surr: 4-Terphenyl-d14	*1628*	0	*1667*	0	*97.7*	*25-137*	0			
Surr: Nitrobenzene-d5	*1303*	0	*1667*	0	*78.2*	*37-107*	0			

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

Client: HRL Compliance Solutions, Inc
Work Order: 14051480
Project: GM 268-3 Produced Water Spill 5.27.14

QC BATCH REPORT

Batch ID: **59171** Instrument ID **SVMS8** Method: **SW8270**

MS Sample ID: **14051337-10B MS** Units: **µg/Kg** Analysis Date: **6/1/2014 04:12 PM**

Client ID: Run ID: **SVMS8_140601A** SeqNo: **2789644** Prep Date: **5/30/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1166	13	1320	0	88.3	45-110	0			
Acenaphthylene	1141	13	1320	0	86.4	45-105	0			
Anthracene	1233	13	1320	0	93.4	55-105	0			
Benzo(a)anthracene	1163	13	1320	0	88.1	50-110	0			
Benzo(a)pyrene	1205	13	1320	0	91.2	50-110	0			
Benzo(b)fluoranthene	1185	13	1320	0	89.7	45-115	0			
Benzo(g,h,i)perylene	1141	13	1320	0	86.4	40-125	0			
Benzo(k)fluoranthene	1224	13	1320	0	92.7	45-115	0			
Chrysene	1158	13	1320	0	87.7	55-110	0			
Dibenzo(a,h)anthracene	1146	13	1320	0	86.8	40-125	0			
Fluoranthene	1158	13	1320	0	87.7	55-115	0			
Fluorene	1123	13	1320	0	85	50-110	0			
Indeno(1,2,3-cd)pyrene	1086	13	1320	0	82.3	40-120	0			
Naphthalene	1058	13	1320	0	80.1	40-105	0			
Pyrene	1266	13	1320	0	95.9	45-125	0			
Surr: 2-Fluorobiphenyl	*2618*	0	*3300*	0	*79.3*	*12-100*	0			
Surr: 4-Terphenyl-d14	*3233*	0	*3300*	0	*98*	*25-137*	0			
Surr: Nitrobenzene-d5	*2884*	0	*3300*	0	*87.4*	*37-107*	0			

MSD Sample ID: **14051337-10B MSD** Units: **µg/Kg** Analysis Date: **6/1/2014 04:32 PM**

Client ID: Run ID: **SVMS8_140601A** SeqNo: **2789645** Prep Date: **5/30/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1178	13	1317	0	89.4	45-110	1166	0.98	30	
Acenaphthylene	1151	13	1317	0	87.4	45-105	1141	0.836	30	
Anthracene	1295	13	1317	0	98.3	55-105	1233	4.91	30	
Benzo(a)anthracene	1220	13	1317	0	92.6	50-110	1163	4.78	30	
Benzo(a)pyrene	1262	13	1317	0	95.8	50-110	1205	4.66	30	
Benzo(b)fluoranthene	1235	13	1317	0	93.8	45-115	1185	4.16	30	
Benzo(g,h,i)perylene	1203	13	1317	0	91.3	40-125	1141	5.25	30	
Benzo(k)fluoranthene	1270	13	1317	0	96.4	45-115	1224	3.71	30	
Chrysene	1186	13	1317	0	90.1	55-110	1158	2.39	30	
Dibenzo(a,h)anthracene	1198	13	1317	0	91	40-125	1146	4.47	30	
Fluoranthene	1194	13	1317	0	90.6	55-115	1158	2.99	30	
Fluorene	1138	13	1317	0	86.4	50-110	1123	1.38	30	
Indeno(1,2,3-cd)pyrene	1131	13	1317	0	85.9	40-120	1086	4.02	30	
Naphthalene	1079	13	1317	0	81.9	40-105	1058	1.96	30	
Pyrene	1334	13	1317	0	101	45-125	1266	5.22	30	
Surr: 2-Fluorobiphenyl	*2620*	0	*3292*	0	*79.6*	*12-100*	2618	*0.0702*	*40*	
Surr: 4-Terphenyl-d14	*3439*	0	*3292*	0	*104*	*25-137*	3233	*6.17*	*40*	
Surr: Nitrobenzene-d5	*2978*	0	*3292*	0	*90.5*	*37-107*	2884	*3.21*	*40*	

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

Client: HRL Compliance Solutions, Inc
Work Order: 14051480
Project: GM 268-3 Produced Water Spill 5.27.14

QC BATCH REPORT

Batch ID: **59171** Instrument ID **SVMS8** Method: **SW8270**

The following samples were analyzed in this batch:

14051480-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 14051480
Project: GM 268-3 Produced Water Spill 5.27.14

QC BATCH REPORT

Batch ID: **59178** Instrument ID **VMS8** Method: **SW8260B**

MBLK Sample ID: **MBLK-59178-59178** Units: **µg/Kg** Analysis Date: **5/30/2014 02:49 PM**
Client ID: Run ID: **VMS8_140530A** SeqNo: **2788182** Prep Date: **5/30/2014** 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	*997.5*	0	*1000*	0	*99.8*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*1018*	0	*1000*	0	*102*	*70-130*	0			
Surr: Dibromofluoromethane	*953.5*	0	*1000*	0	*95.4*	*70-130*	0			
Surr: Toluene-d8	*990.5*	0	*1000*	0	*99*	*70-130*	0			

LCS Sample ID: **LCS-59178-59178** Units: **µg/Kg** Analysis Date: **5/30/2014 12:22 PM**
Client ID: Run ID: **VMS8_140530A** SeqNo: **2788179** Prep Date: **5/30/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1058	30	1000	0	106	75-125	0			
Ethylbenzene	1125	30	1000	0	112	75-125	0			
m,p-Xylene	2196	60	2000	0	110	80-125	0			
o-Xylene	1090	30	1000	0	109	75-125	0			
Toluene	1084	30	1000	0	108	70-125	0			
Xylenes, Total	3285	90	3000	0	110	75-125	0			
Surr: 1,2-Dichloroethane-d4	*964*	0	*1000*	0	*96.4*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*998*	0	*1000*	0	*99.8*	*70-130*	0			
Surr: Dibromofluoromethane	*985*	0	*1000*	0	*98.5*	*70-130*	0			
Surr: Toluene-d8	*988*	0	*1000*	0	*98.8*	*70-130*	0			

MS Sample ID: **14051407-01A MS** Units: **µg/Kg** Analysis Date: **6/2/2014 11:49 PM**
Client ID: Run ID: **VMS6_140602A** SeqNo: **2790621** Prep Date: **5/30/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	951.5	30	1000	0	95.2	75-125	0			
Ethylbenzene	1010	30	1000	0	101	75-125	0			
m,p-Xylene	2012	60	2000	0	101	80-125	0			
o-Xylene	986.5	30	1000	0	98.6	75-125	0			
Toluene	973.5	30	1000	0	97.4	70-125	0			
Xylenes, Total	2999	90	3000	0	100	75-125	0			
Surr: 1,2-Dichloroethane-d4	*1040*	0	*1000*	0	*104*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*967*	0	*1000*	0	*96.7*	*70-130*	0			
Surr: Dibromofluoromethane	*957.5*	0	*1000*	0	*95.8*	*70-130*	0			
Surr: Toluene-d8	*975.5*	0	*1000*	0	*97.6*	*70-130*	0			

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

Client: HRL Compliance Solutions, Inc
Work Order: 14051480
Project: GM 268-3 Produced Water Spill 5.27.14

QC BATCH REPORT

Batch ID: **59178** Instrument ID **VMS8** Method: **SW8260B**

MSD Sample ID: **14051407-01A MSD** Units: **µg/Kg** Analysis Date: **6/3/2014 12:15 PM**
Client ID: Run ID: **VMS6_140602A** SeqNo: **2790622** Prep Date: **5/30/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	888	30	1000	0	88.8	75-125	951.5	6.9	30	
Ethylbenzene	962.5	30	1000	0	96.2	75-125	1010	4.77	30	
m,p-Xylene	1888	60	2000	0	94.4	80-125	2012	6.36	30	
o-Xylene	942.5	30	1000	0	94.2	75-125	986.5	4.56	30	
Toluene	916.5	30	1000	0	91.6	70-125	973.5	6.03	30	
Xylenes, Total	2831	90	3000	0	94.4	75-125	2999	5.76	30	
Surr: 1,2-Dichloroethane-d4	*1024*	0	*1000*	0	*102*	*70-130*	1040	*1.55*	*30*	
Surr: 4-Bromofluorobenzene	*978.5*	0	*1000*	0	*97.8*	*70-130*	967	*1.18*	*30*	
Surr: Dibromofluoromethane	*953.5*	0	*1000*	0	*95.4*	*70-130*	957.5	*0.419*	*30*	
Surr: Toluene-d8	*990*	0	*1000*	0	*99*	*70-130*	975.5	*1.48*	*30*	

The following samples were analyzed in this batch: 14051480-01A

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

Client: HRL Compliance Solutions, Inc
Work Order: 14051480
Project: GM 268-3 Produced Water Spill 5.27.14

QC BATCH REPORT

Batch ID: **59160** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK Sample ID: **MBLK-59160-59160** Units: **mg/Kg** Analysis Date: **5/30/2014 12:00 PM**
Client ID: Run ID: **WETCHEM_140530Q** SeqNo: **2787795** Prep Date: **5/29/2014** 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-59160-59160** Units: **mg/Kg** Analysis Date: **5/30/2014 12:00 PM**
Client ID: Run ID: **WETCHEM_140530Q** SeqNo: **2787796** Prep Date: **5/29/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	1.756	0.50	2	0	87.8	80-120	0			

MS Sample ID: **14051479-01B MS** Units: **mg/Kg** Analysis Date: **5/30/2014 12:00 PM**
Client ID: Run ID: **WETCHEM_140530Q** SeqNo: **2787798** Prep Date: **5/29/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.232	0.50	2	0	11.6	75-125	0			JS

MS Sample ID: **14051479-01B MSI** Units: **mg/Kg** Analysis Date: **5/30/2014 12:00 PM**
Client ID: Run ID: **WETCHEM_140530Q** SeqNo: **2787800** Prep Date: **5/29/2014** DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	754.9	49	1445	0	52.2	75-125	0			S

MSD Sample ID: **14051479-01B MSD** Units: **mg/Kg** Analysis Date: **5/30/2014 12:00 PM**
Client ID: Run ID: **WETCHEM_140530Q** SeqNo: **2787799** Prep Date: **5/29/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.1299	0.49	1.969	0	6.6	75-125	0.232	0	20	JS

The following samples were analyzed in this batch: 14051480-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 14051480
Project: GM 268-3 Produced Water Spill 5.27.14

QC BATCH REPORT

Batch ID: **59163** Instrument ID **WETCHEM** Method: **SW9045D**

LCS Sample ID: **LCS-59163-59163** Units: **s.u.** Analysis Date: **5/29/2014 04:00 PM**
Client ID: Run ID: **WETCHEM_140529R** SeqNo: **2786008** Prep Date: **5/29/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	3.98	0	4	0	99.5	90-110	0			

DUP Sample ID: **14051403-01A DUP** Units: **s.u.** Analysis Date: **5/29/2014 04:00 PM**
Client ID: Run ID: **WETCHEM_140529R** SeqNo: **2786012** Prep Date: **5/29/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	7.03	0	0	0	0	0-0	7.04	0.142	20	

DUP Sample ID: **14051481-01A DUP** Units: **s.u.** Analysis Date: **5/29/2014 04:00 PM**
Client ID: Run ID: **WETCHEM_140529R** SeqNo: **2786020** Prep Date: **5/29/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	8.12	0	0	0	0	0-0	8.13	0.123	20	

The following samples were analyzed in this batch: 14051480-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 14051480
Project: GM 268-3 Produced Water Spill 5.27.14

QC BATCH REPORT

Batch ID: **59205** Instrument ID **WETCHEM** Method: **USDA H60 Method**

DUP Sample ID: **14051479-01C DUP** Units: **mmhos/cm @25°C** Analysis Date: **6/2/2014 04:15 PM**

Client ID: Run ID: **WETCHEM_140602L** SeqNo: **2789851** Prep Date: **6/2/2014** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	0.854	0.050	0	0	0		0.924	7.87	50	

The following samples were analyzed in this batch: 14051480-01C

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

Client: HRL Compliance Solutions, Inc
Work Order: 14051480
Project: GM 268-3 Produced Water Spill 5.27.14

QC BATCH REPORT

Batch ID: **R141687** Instrument ID **MOIST** Method: **A2540 G**

MBLK Sample ID: **WBLKS-R141687** Units: **% of sample** Analysis Date: **5/29/2014 04:03 PM**
Client ID: Run ID: **MOIST_140529C** SeqNo: **2786848** 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-R141687** Units: **% of sample** Analysis Date: **5/29/2014 04:03 PM**
Client ID: Run ID: **MOIST_140529C** SeqNo: **2786847** 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: **14051479-01B DUP** Units: **% of sample** Analysis Date: **5/29/2014 04:03 PM**
Client ID: Run ID: **MOIST_140529C** SeqNo: **2786825** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	19.92	0.050	0	0	0	0-0	21.45	7.4	20	

DUP Sample ID: **14051482-01A DUP** Units: **% of sample** Analysis Date: **5/29/2014 04:03 PM**
Client ID: Run ID: **MOIST_140529C** SeqNo: **2786836** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	6.43	0.050	0	0	0	0-0	6.76	5	20	

The following samples were analyzed in this batch: 14051480-01B

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

ALS Environmental

Cincinnati, OH +1 513 733 5336
Everett, WA +1 425 356 2600
Fort Collins, CO +1 970 490 1511
Holland, MI +1 616 399 6070
Houston, TX +1 281 530 5656
Middletown, PA +1 717 944 5541
Spring City, PA +1 610 948 4903
Salt Lake City, UT +1 801 266 7700
South Charleston, WV +1 304 356 3168
York, PA +1 717 505 5280

Chain of Custody Form

Page ____ of ____

COC ID: 13052

ALS Project Manager: | ALS Work Order #: 1405480

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	GM 268-3 Product Investigation	A	BTEX/1,2-DCA
Work Order		Project Number		B	DRO/PAH/Metals
Company Name	HRL Compliance	Bill To Company	HRL Compliance	C	SAR/EC/pH
Send Report To	Mark Mumby	Invoice Attn	Mark Mumby	D	
Address		Address		E	
				F	
City/State/Zip		City/State/Zip		G	
Phone	970-243-3271	Phone	970-243-3271	H	
Fax		Fax		I	
e-Mail Address	RWolf@HRLcompl.com	e-Mail Address	Mmumby@HRLcompl.com	J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	Impacted Area	5/27/14	1:40	SO	8	3	X	X	X								
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Ryan Wolf Ryan Wolf

Shipment Method:

Required Turnaround Time: (Check Box) ☐ Other ☐ STD 10 Wk Days ☑ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour

Results Due Date:

Relinquished by: Ryan Wolf	Date: 5/27/14	Time: 3:00	Received by:		
Relinquished by:	Date: 5-27	Time: 1600	Received by (Laboratory):	Date: 5/29/14	Time: 1030
Logged by (Laboratory): DFS	Date: 5/29/14	Time: 1330	Checked by (Laboratory):		

Notes:

Cooler ID	Cooler Temp
	4.6°C

QC Package: (Check One Box Below)
☐ Level II Std QC
☐ Level III Std QC/Raw Data
☐ Level IV SW846/CLP
☐ Other
☐ TRRP Checklist
☐ TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note:
1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: **HRL** Date/Time Received: **29-May-14 00:00**

Work Order: **14051480** Received by: **DS**

Checklist completed by Diane Shaw eSignature 29-May-14 Date Reviewed by: Ann Preston eSignature 30-May-14 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 ☐	
Sample(s) received on ice?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	4.6 c		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	5/29/2014 1:19:45 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:

From: (616) 399-6070
Sample Receiving
ALS Laboratory Group
3352 128th Avenue

Holland, MI 49424

Origin ID: GRRA

FedEx Express

J1410140207032B

Ship Date: 27MAY14
ActWgt: 67.0 LB
CAD: 2264840/INET3490

Dims: 24 X 15 X 15 IN

Delivery Address Bar Code

Ref # 052714-1
Invoice #
PO # Parachute
Dept #

SHIP TO: (616) 399-6070 BILL SENDER

sample receiving
ALS Laboratory Group
3352 128TH AVE

HOLLAND, MI 49424

TRK# 0201 7701 0783 4746

WED - 28 MAY 10:30A
PRIORITY OVERNIGHT

68 GRRA

49424
MI-US
GRR

522G1/62D3/F220

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

#2

B. Arc - Dale

05-Jun-2014

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

Re: **GM 268-3 Background 5.27.14** Work Order: **14051481**

Dear Mark,

ALS Environmental received 3 samples on 29-May-2014 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.

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

The total number of pages in this report is 15.

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: MN 532786

ADDRESS 3352 128th Avenue Holland, Michigan 49424-9263 | PHONE (616) 399-6070 | FAX (616) 399-6185
ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

ALS Group USA, Corp

Date: 05-Jun-14

Client: HRL Compliance Solutions, Inc
Project: GM 268-3 Background 5.27.14
Work Order: **14051481**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
14051481-01	GM 268-3-B-1	Soil		5/27/2014 13:50	5/29/2014 10:30	☐
14051481-02	GM 268-3-B-2	Soil		5/27/2014 13:55	5/29/2014 10:30	☐
14051481-03	GM 268-3-B-3	Soil		5/27/2014 14:00	5/29/2014 10:30	☐

ALS Group USA, Corp

Date: 05-Jun-14

Client: HRL Compliance Solutions, Inc
Project: GM 268-3 Background 5.27.14
Work Order: 14051481

Case Narrative

Batch 59181 MS/MSD data for Arsenic is not related to this project's samples. No data requires qualification.

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 is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

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

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

ALS Group USA, Corp

Date: *05-Jun-14*

Client: HRL Compliance Solutions, Inc
Project: GM 268-3 Background 5.27.14
Work Order: 14051481
Sample ID: GM 268-3-B-1
Lab ID: 14051481-01
Collection Date: 5/27/2014 01:50 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3050B / 5/30/14	Analyst: **ML**
Arsenic	**11**		**2.3**	**mg/Kg-dry**	5	5/30/2014 07:52 PM
SOLUBLE CATIONS FOR SAR			**SW6020A**		Prep: USDA Method 20B / 6/2/14	Analyst: **RH**
Calcium	**89**		**10**	**mg/L**	20	6/3/2014 03:29 PM
Magnesium	**21**		**4.0**	**mg/L**	20	6/3/2014 03:29 PM
Sodium	**58**		**4.0**	**mg/L**	20	6/3/2014 03:29 PM
SODIUM ADSORPTION RATIO			**USDA H60 METHO**		Prep: USDA Method 20B / 6/2/14	Analyst: **RH**
Sodium Adsorption Ratio	**1.4**		**0.010**	**none**	1	6/3/2014
ELECTRICAL CONDUCTIVITY (SAR)			**USDA H60 METHO**		Prep: USDA Method 20B / 6/2/14	Analyst: **JB**
Electrical Conductivity @ Saturation	**0.68**		**0.050**	**mmhos/cm @25**	10	6/2/2014 04:15 PM
MOISTURE			**A2540 G**			Analyst: **AT**
Moisture	**17**		**0.050**	**% of sample**	1	5/29/2014 04:03 PM
PH			**SW9045D**		Prep: EXTRACT / 5/29/14	Analyst: **AT**
pH	**8.1**			**s.u.**	1	5/29/2014 04:00 PM

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

ALS Group USA, Corp

Date: *05-Jun-14*

Client: HRL Compliance Solutions, Inc
Project: GM 268-3 Background 5.27.14 **Work Order:** 14051481
Sample ID: GM 268-3-B-2 **Lab ID:** 14051481-02
Collection Date: 5/27/2014 01:55 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3050B / 5/30/14	Analyst: **ML**
Arsenic	**4.7**		**2.1**	**mg/Kg-dry**	5	5/30/2014 07:58 PM
MOISTURE			**A2540 G**			Analyst: **AT**
Moisture	**15**		**0.050**	**% of sample**	1	5/29/2014 04:03 PM

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

ALS Group USA, Corp

Date: *05-Jun-14*

Client: HRL Compliance Solutions, Inc
Project: GM 268-3 Background 5.27.14
Work Order: 14051481
Sample ID: GM 268-3-B-3
Lab ID: 14051481-03
Collection Date: 5/27/2014 02:00 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3050B / 5/30/14	Analyst: **ML**
Arsenic	**5.9**		**2.4**	**mg/Kg-dry**	5	5/30/2014 08:04 PM
MOISTURE			**A2540 G**			Analyst: **AT**
Moisture	**20**		**0.050**	**% of sample**	1	5/29/2014 04:03 PM

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

ALS Group USA, Corp

Date: 05-Jun-14

Client: HRL Compliance Solutions, Inc

Work Order: 14051481

Project: GM 268-3 Background 5.27.14

QC BATCH REPORT

Batch ID: **59181** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK	Sample ID: **MBLK-59181-59181**				Units: **mg/Kg**			Analysis Date: **5/30/2014 05:16 PM**			
Client ID:	Run ID: **ICPMS1_140530A**			SeqNo: **2789009**		Prep Date: **5/30/2014**		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-59181-59181**				Units: **mg/Kg**			Analysis Date: **5/30/2014 05:22 PM**			
Client ID:	Run ID: **ICPMS1_140530A**			SeqNo: **2789010**		Prep Date: **5/30/2014**		DF: **1**			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.236	0.25	5	0	84.7	80-120	0			

MS	Sample ID: **14051482-02AMS**				Units: **mg/Kg**			Analysis Date: **5/30/2014 08:45 PM**			
Client ID:	Run ID: **ICPMS1_140530A**			SeqNo: **2789044**		Prep Date: **5/30/2014**		DF: **5**			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	11.7	1.9	7.776	6.638	65	75-125	0			S

MSD	Sample ID: **14051482-02AMSD**				Units: **mg/Kg**			Analysis Date: **5/30/2014 08:51 PM**			
Client ID:	Run ID: **ICPMS1_140530A**			SeqNo: **2789045**		Prep Date: **5/30/2014**		DF: **5**			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	12.28	1.9	7.704	6.638	73.2	75-125	11.7	4.85	25	S

The following samples were analyzed in this batch:

14051481-01A	14051481-02A	14051481-03A

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

Client: HRL Compliance Solutions, Inc
Work Order: 14051481
Project: GM 268-3 Background 5.27.14

QC BATCH REPORT

Batch ID: **59205** Instrument ID **ICPMS2** Method: **SW6020A**

DUP Sample ID: **14051479-01CDUP** Units: **mg/L** Analysis Date: **6/3/2014 03:17 PM**
Client ID: Run ID: **ICPMS2_140603A** SeqNo: **2791554** Prep Date: **6/2/2014** DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	84	10	0	0	0	0-0	88.78	5.53		
Magnesium	26.2	4.0	0	0	0	0-0	27.68	5.49		
Sodium	40.22	4.0	0	0	0	0-0	41.58	3.33		

DUP Sample ID: **14051479-01CDUP** Units: **none** Analysis Date: **6/3/2014**
Client ID: Run ID: **SAR_140603A** SeqNo: **2791558** Prep Date: **6/2/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	0.982	0.010	0	0	0		0.9876	0.565	50	

The following samples were analyzed in this batch: 14051481-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 14051481
Project: GM 268-3 Background 5.27.14

QC BATCH REPORT

Batch ID: **59163** Instrument ID **WETCHEM** Method: **SW9045D**

LCS Sample ID: **LCS-59163-59163** Units: **s.u.** Analysis Date: **5/29/2014 04:00 PM**
Client ID: Run ID: **WETCHEM_140529R** SeqNo: **2786008** Prep Date: **5/29/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	3.98	0	4	0	99.5	90-110	0			

DUP Sample ID: **14051403-01A DUP** Units: **s.u.** Analysis Date: **5/29/2014 04:00 PM**
Client ID: Run ID: **WETCHEM_140529R** SeqNo: **2786012** Prep Date: **5/29/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	7.03	0	0	0	0	0-0	7.04	0.142	20	

DUP Sample ID: **14051481-01A DUP** Units: **s.u.** Analysis Date: **5/29/2014 04:00 PM**
Client ID: **GM 268-3-B-1** Run ID: **WETCHEM_140529R** SeqNo: **2786020** Prep Date: **5/29/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	8.12	0	0	0	0	0-0	8.13	0.123	20	

The following samples were analyzed in this batch: 14051481-01A

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

Client: HRL Compliance Solutions, Inc
Work Order: 14051481
Project: GM 268-3 Background 5.27.14

QC BATCH REPORT

Batch ID: **59205** Instrument ID **WETCHEM** Method: **USDA H60 Method**

DUP Sample ID: **14051479-01C DUP** Units: **mmhos/cm @25°C** Analysis Date: **6/2/2014 04:15 PM**

Client ID: Run ID: **WETCHEM_140602L** SeqNo: **2789851** Prep Date: **6/2/2014** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	0.854	0.050	0	0	0		0.924	7.87	50	

The following samples were analyzed in this batch: 14051481-01B

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

Client: HRL Compliance Solutions, Inc
Work Order: 14051481
Project: GM 268-3 Background 5.27.14

QC BATCH REPORT

Batch ID: **R141687** Instrument ID **MOIST** Method: **A2540 G**

MBLK Sample ID: **WBLKS-R141687** Units: **% of sample** Analysis Date: **5/29/2014 04:03 PM**
Client ID: Run ID: **MOIST_140529C** SeqNo: **2786848** 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-R141687** Units: **% of sample** Analysis Date: **5/29/2014 04:03 PM**
Client ID: Run ID: **MOIST_140529C** SeqNo: **2786847** 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: **14051479-01B DUP** Units: **% of sample** Analysis Date: **5/29/2014 04:03 PM**
Client ID: Run ID: **MOIST_140529C** SeqNo: **2786825** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	19.92	0.050	0	0	0	0-0	21.45	7.4	20	

DUP Sample ID: **14051482-01A DUP** Units: **% of sample** Analysis Date: **5/29/2014 04:03 PM**
Client ID: Run ID: **MOIST_140529C** SeqNo: **2786836** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	6.43	0.050	0	0	0	0-0	6.76	5	20	

The following samples were analyzed in this batch:

14051481-01A	14051481-02A	14051481-03A

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

ALS Environmental

Cincinnati, OH +1 513 733 5336
Everett, WA +1 425 356 2600
Fort Collins, CO +1 970 490 1511
Holland, MI +1 616 399 6070
Houston, TX +1 281 530 5656
Middletown, PA +1 717 944 5541
Spring City, PA +1 610 948 4903
Salt Lake City, UT +1 801 266 7700
South Charleston, WV +1 304 356 3168
York, PA +1 717 505 5280

Chain of Custody Form

Page 1 of 1

COC ID: 13051

ALS Project Manager:

ALS Work Order #: 1405481

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	GM 268-3 Background	A	Arsenic
Work Order		Project Number		B	SAR/Eclph
Company Name	HCST	Bill To Company	HRL	C	
Send Report To	Mark Mumby	Invoice Attn	Mark Mumby	D	
Address		Address		E	
				F	
City/State/Zip		City/State/Zip		G	
Phone	970-243-3271	Phone		H	
Fax		Fax		I	
e-Mail Address	RDW@HRLcorp.com	e-Mail Address	Mmumby@HRLcorp.com	J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	GM 268-3-B1	5/27/14	1:50	SO	8	2	X	X									
2	GM 268-3-B2		1:55			1	X										
3	GM 268-3-B3		2:00			1	X										
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: RDW

Shipment Method:

Required Turnaround Time: (Check Box) ☐ Other ☐ STD 10 Wk Days ☑ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour

Results Due Date:

Relinquished by: RDW	Date: 5/27/14	Time: 3:00	Received by:	Notes:	
Relinquished by:	Date: 5/27/14	Time: 16:00	Received by (Laboratory): 5/29/14 1030	Cooler ID	Cooler Temp
Logged by (Laboratory): DCS	Date: 5/29/14	Time: 1330	Checked by (Laboratory):		4.6c

QC Package: (Check One Box Below)
☐ Level II Std QC ☐ TRRP Checklist
☐ Level III Std QC/Raw Data ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: **HRL** Date/Time Received: **29-May-14 10:30**

Work Order: **14051481** Received by: **DS**

Checklist completed by Diane Shaw (eSignature) 29-May-14 (Date) Reviewed by: Ann Preston (eSignature) 30-May-14 (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 ☐	
Sample(s) received on ice?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	4.6 c		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	5/29/2014 1:23:53 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:

From: (616) 399-6070
Sample Receiving
ALS Laboratory Group
3352 128th Avenue

Holland, MI 49424

Origin ID: GRRA

FedEx Express

J1410140207032G

Ship Date: 27MAY14
ActWgt: 67.0 LB
CAD: 2264840/INET3490

Dims: 24 X 15 X 15 IN

Delivery Address Bar Code

Ref # 052714-1
Invoice #
PO # Parachute
Dept #

BILL TO: (616) 399-6070 BILL SENDER

sample receiving
ALS Laboratory Group
3352 128TH AVE

HOLLAND, MI 49424

TRK# 9291 **7701 0783 4746**

WED - 28 MAY 10:30A
PRIORITY OVERNIGHT

68 GRRA

49424
MI-US
GRR

522G1/62D3/F220

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

#2

B. Arl - Dale

5/29/14 15:52