

Friday, July 31, 2015

Colby Sterling
Talon LPE
921 N Bivins
Amarillo, TX 79107

Re: ALS Workorder: 1507449
Project Name: Nelson D-1
Project Number: 701530.056.01

Dear Mr. Sterling:

Four soil samples were received from Talon LPE, on 7/24/2015. The samples were scheduled for the following analyses:

GC/MS Volatiles

Total Extractable Petroleum Hydrocarbons (Diesel)

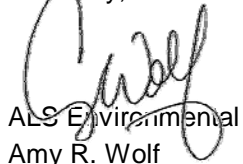
Total Volatile Petroleum Hydrocarbons (Gasoline)

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely,



ALS Environmental
Amy R. Wolf
Project Manager

ALS Environmental – Fort Collins is accredited by the following accreditation bodies for various testing scopes in accordance with requirements of each accreditation body. All testing is performed under the laboratory management system, which is maintained to meet these requirement and regulations. Please contact the laboratory or accreditation body for the current scope testing parameters.

ALS Environmental – Fort Collins	
Accreditation Body	License or Certification Number
Alaska (AK)	UST-086
Alaska (AK)	CO01099
Arizona (AZ)	AZ0742
California (CA)	06251CA
Colorado (CO)	CO01099
Connecticut (CT)	PH-0232
Florida (FL)	E87914
Idaho (ID)	CO01099
Kansas (KS)	E-10381
Kentucky (KY)	90137
L-A-B (DoD ELAP/ISO 170250)	L2257
Maryland (MD)	285
Missouri (MO)	175
Nebraska(NE)	NE-OS-24-13
Nevada (NV)	CO000782008A
New York (NY)	12036
North Dakota (ND)	R-057
Oklahoma (OK)	1301
Pennsylvania (PA)	68-03116
Tennessee (TN)	2976
Texas (TX)	T104704241
Utah (UT)	CO01099
Washington (WA)	C1280



1507449

GC/MS Volatiles:

The samples were analyzed using GC/MS following the current revision of SOP 525 based on SW-846 Method 8260C.

All acceptance criteria were met.

GRO:

The samples were analyzed following the current revision of SOP 425 generally based on SW-846 Methods 8000C and 8015D. TVPH is a multicomponent mixture and is quantitated by summing the entire carbon range, rather than individual peaks. The carbon range integrated in this test extends from C6 to C10.

All matrix spike and matrix spike duplicate recoveries and RPDs were within the acceptance criteria with the following exceptions:

Spiked Compound	QC Sample	Direction
Gasoline range organics	MS/MSD	Low

The recoveries for gasoline range organics in the laboratory control sample were within control limits, which suggest the outlier in the matrix spikes may have been due to matrix effects. No further action was taken. The laboratory control sample results have been included.

All remaining acceptance criteria were met.

DRO:

The samples were analyzed following the current revision of SOP 406 generally based on SW-846 Methods 8000C and 8015D. TEPH is a multicomponent mixture and is quantitated by summing the entire carbon range, rather than individual peaks. The carbon range integrated in this test extends from C10 to C28.

All acceptance criteria were met.

ALS Environmental -- FC

Sample Number(s) Cross-Reference Table

OrderNum: 1507449

Client Name: Talon LPE

Client Project Name: Nelson D-1

Client Project Number: 701530.056.01

Client PO Number:

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
SW-1 @ 4'	1507449-1		SOIL	24-Jul-15	10:20
SW-2 @ 4'	1507449-2		SOIL	24-Jul-15	10:25
SW-3 @ 4'	1507449-3		SOIL	24-Jul-15	10:30
SW-4 @ 4'	1507449-4		SOIL	24-Jul-15	10:35



Chain-of-Custody

Form 2020a

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 202a

WORKORDER # 1507449										PAGE 1 of 1									
PROJECT NAME Nelson D-1										DATE 7-24-15		By Lab or Return to Client							
PROJECT NO. 701530, original										TURNAROUND Standard									
COMPANY NAME																			
SEND REPORT TO Colby Stachurs																			
ADDRESS																			
CITY / STATE / ZIP																			
PHONE																			
FAX																			
E-MAIL																			
Matrix										Sample Date		Sample Time		# Bottles		Pres.		QC	
SW-1 24'										7-24-15		1020		1					
SW-2 24'												1025		1					
SW-3 24'												1030		1					
SW-4 24'												1035		1					

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

For metals or anions, please detail analytes below.

RELINQUISHED BY	SIGNATURE	PRINTED NAME	DATE	TIME
		JTG	7-24-15	1315
RECEIVED BY		Scott Mackay	7-24-15	1315
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

Comments:

5 of 15

For metals or anions, please detail analytes below.

QC PACKAGE (check below) LEVEL II (Standard QC) LEVEL III (Std OC + forms) LEVEL IV (Std OC + forms + raw data)	3.8

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

Preservative Key:	1-HCl	2-HNO ₃	3-H ₂ SO ₄	4-NaOH	5-NaHSO ₄	7-Other	8-4 degrees C	9-5035
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ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client: Talon

Workorder No: 1507449

Project Manager: AW

Initials: CDT Date: 7-24-15

1. Does this project require any special handling in addition to standard ALS procedures?		YES	<input checked="" type="radio"/> NO
2. Are custody seals on shipping containers intact?	<input checked="" type="radio"/> NONE	YES	NO
3. Are Custody seals on sample containers intact?	<input checked="" type="radio"/> NONE	YES	NO
4. Is there a COC (Chain-of-Custody) present or other representative documents?		<input checked="" type="radio"/> YES	NO
5. Are the COC and bottle labels complete and legible?		<input checked="" type="radio"/> YES	NO
6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		<input checked="" type="radio"/> YES	NO
7. Were airbills / shipping documents present and/or removable?	<input checked="" type="radio"/> DROP OFF	YES	NO
8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	<input checked="" type="radio"/> N/A	YES	NO
9. Are all aqueous non-preserved samples pH 4-9?	<input checked="" type="radio"/> N/A	YES	NO
10. Is there sufficient sample for the requested analyses?		<input checked="" type="radio"/> YES	NO
11. Were all samples placed in the proper containers for the requested analyses?		<input checked="" type="radio"/> YES	NO
12. Are all samples within holding times for the requested analyses?		<input checked="" type="radio"/> YES	NO
13. Were all sample containers received intact? (not broken or leaking, etc.)		<input checked="" type="radio"/> YES	NO
14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free? Size of bubble: ____ < green pea ____ > green pea	<input checked="" type="radio"/> N/A	YES	NO
15. Do any water samples contain sediment? Amount Amount of sediment: ____ dusting ____ moderate ____ heavy	<input checked="" type="radio"/> N/A	YES	NO
16. Were the samples shipped on ice?		<input checked="" type="radio"/> YES	NO
17. Were cooler temperatures measured at 0.1-6.0°C? IR gun used*: <input checked="" type="radio"/> #2 #4 RAD ONLY		<input checked="" type="radio"/> YES	NO
Cooler #: <u>1</u>			
Temperature (°C): <u>3.8</u>			
No. of custody seals on cooler: <u>0</u>			
External µR/hr reading: <u>NA</u>			
Background µR/hr reading: <u>NA</u>			
Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? YES / NO / <input checked="" type="radio"/> NA (If no, see Form 008.)			

Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16.

Sample ① had a cracked cap when received. Replaced with new cap. No soil was lost.

If applicable, was the client contacted? ☒ YES / NO / NA Contact: Colby Sterling Date/Time: 7/24/15

Project Manager Signature / Date: [Signature] 7/24/15

Client: Talon LPE
Project: 701530.056.01 Nelson D-1
Sample ID: SW-1 @ 4'
Legal Location:
Collection Date: 7/24/2015 10:20

Date: 31-Jul-15
Work Order: 1507449
Lab ID: 1507449-1
Matrix: SOIL
Percent Moisture: 21.4

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Diesel Range Organics			SW8015M		Prep Date: 7/29/2015	PrepBy: DMS
Diesel Range Organics	ND		6.3	MG/KG	1	7/29/2015 18:05
Surr: O-TERPHENYL	97		49-114	%REC	1	7/29/2015 18:05
Gasoline Range Organics			SW8015		Prep Date: 7/28/2015	PrepBy: JFN
GASOLINE RANGE ORGANICS	ND		0.6	MG/KG	1	7/28/2015 11:26
Surr: 2,3,4-TRIFLUOROTOLUENE	94		76-126	%REC	1	7/28/2015 11:26
GC/MS Volatiles			SW8260		Prep Date: 7/29/2015	PrepBy: SDW
BENZENE	ND		0.0062	MG/KG	1	7/29/2015 12:28
TOLUENE	ND		0.0062	MG/KG	1	7/29/2015 12:28
ETHYLBENZENE	ND		0.0062	MG/KG	1	7/29/2015 12:28
M+P-XYLENE	ND		0.0062	MG/KG	1	7/29/2015 12:28
O-XYLENE	ND		0.0062	MG/KG	1	7/29/2015 12:28
TOTAL XYLENES	ND		0.005	MG/KG	1	7/29/2015 12:28
Surr: DIBROMOFLUOROMETHANE	103		61-134	%REC	1	7/29/2015 12:28
Surr: TOLUENE-D8	89		57-135	%REC	1	7/29/2015 12:28
Surr: 4-BROMOFLUOROBENZENE	96		52-151	%REC	1	7/29/2015 12:28

Client: Talon LPE
Project: 701530.056.01 Nelson D-1
Sample ID: SW-2 @ 4'
Legal Location:
Collection Date: 7/24/2015 10:25

Date: 31-Jul-15
Work Order: 1507449
Lab ID: 1507449-2
Matrix: SOIL
Percent Moisture: 15.6

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Diesel Range Organics			SW8015M		Prep Date: 7/29/2015	PrepBy: DMS
Diesel Range Organics	6.2	DM	5.9	MG/KG	1	7/29/2015 17:04
Surr: O-TERPHENYL	97		49-114	%REC	1	7/29/2015 17:04
Gasoline Range Organics			SW8015		Prep Date: 7/28/2015	PrepBy: JFN
GASOLINE RANGE ORGANICS	ND		0.55	MG/KG	1	7/28/2015 11:47
Surr: 2,3,4-TRIFLUOROTOLUENE	98		76-126	%REC	1	7/28/2015 11:47
GC/MS Volatiles			SW8260		Prep Date: 7/29/2015	PrepBy: SDW
BENZENE	ND		0.0056	MG/KG	1	7/29/2015 12:53
TOLUENE	ND		0.0056	MG/KG	1	7/29/2015 12:53
ETHYLBENZENE	ND		0.0056	MG/KG	1	7/29/2015 12:53
M+P-XYLENE	ND		0.0056	MG/KG	1	7/29/2015 12:53
O-XYLENE	ND		0.0056	MG/KG	1	7/29/2015 12:53
TOTAL XYLENES	ND		0.005	MG/KG	1	7/29/2015 12:53
Surr: DIBROMOFLUOROMETHANE	103		61-134	%REC	1	7/29/2015 12:53
Surr: TOLUENE-D8	93		57-135	%REC	1	7/29/2015 12:53
Surr: 4-BROMOFLUOROBENZENE	98		52-151	%REC	1	7/29/2015 12:53

Client: Talon LPE
Project: 701530.056.01 Nelson D-1
Sample ID: SW-3 @ 4'
Legal Location:
Collection Date: 7/24/2015 10:30

Date: 31-Jul-15
Work Order: 1507449
Lab ID: 1507449-3
Matrix: SOIL
Percent Moisture: 13.5

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Diesel Range Organics			SW8015M		Prep Date: 7/29/2015	PrepBy: DMS
Diesel Range Organics	12	DM	5.6	MG/KG	1	7/29/2015 17:34
Surr: O-TERPHENYL	99		49-114	%REC	1	7/29/2015 17:34
Gasoline Range Organics			SW8015		Prep Date: 7/28/2015	PrepBy: JFN
GASOLINE RANGE ORGANICS	ND		0.54	MG/KG	1	7/28/2015 12:09
Surr: 2,3,4-TRIFLUOROTOLUENE	93		76-126	%REC	1	7/28/2015 12:09
GC/MS Volatiles			SW8260		Prep Date: 7/29/2015	PrepBy: SDW
BENZENE	ND		0.0055	MG/KG	1	7/29/2015 13:15
TOLUENE	ND		0.0055	MG/KG	1	7/29/2015 13:15
ETHYLBENZENE	ND		0.0055	MG/KG	1	7/29/2015 13:15
M+P-XYLENE	ND		0.0055	MG/KG	1	7/29/2015 13:15
O-XYLENE	ND		0.0055	MG/KG	1	7/29/2015 13:15
TOTAL XYLENES	ND		0.005	MG/KG	1	7/29/2015 13:15
Surr: DIBROMOFLUOROMETHANE	101		61-134	%REC	1	7/29/2015 13:15
Surr: TOLUENE-D8	93		57-135	%REC	1	7/29/2015 13:15
Surr: 4-BROMOFLUOROBENZENE	93		52-151	%REC	1	7/29/2015 13:15

Client: Talon LPE
Project: 701530.056.01 Nelson D-1
Sample ID: SW-4 @ 4'
Legal Location:
Collection Date: 7/24/2015 10:35

Date: 31-Jul-15
Work Order: 1507449
Lab ID: 1507449-4
Matrix: SOIL
Percent Moisture: 16.9

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Diesel Range Organics			SW8015M		Prep Date: 7/29/2015	PrepBy: DMS
Diesel Range Organics	ND		5.8	MG/KG	1	7/29/2015 16:31
Surr: O-TERPHENYL	95		49-114	%REC	1	7/29/2015 16:31
Gasoline Range Organics			SW8015		Prep Date: 7/28/2015	PrepBy: JFN
GASOLINE RANGE ORGANICS	ND		0.53	MG/KG	1	7/28/2015 12:30
Surr: 2,3,4-TRIFLUOROTOLUENE	94		76-126	%REC	1	7/28/2015 12:30
GC/MS Volatiles			SW8260		Prep Date: 7/29/2015	PrepBy: SDW
BENZENE	ND		0.0056	MG/KG	1	7/29/2015 13:39
TOLUENE	ND		0.0056	MG/KG	1	7/29/2015 13:39
ETHYLBENZENE	ND		0.0056	MG/KG	1	7/29/2015 13:39
M+P-XYLENE	ND		0.0056	MG/KG	1	7/29/2015 13:39
O-XYLENE	ND		0.0056	MG/KG	1	7/29/2015 13:39
TOTAL XYLENES	ND		0.005	MG/KG	1	7/29/2015 13:39
Surr: DIBROMOFLUOROMETHANE	100		61-134	%REC	1	7/29/2015 13:39
Surr: TOLUENE-D8	93		57-135	%REC	1	7/29/2015 13:39
Surr: 4-BROMOFLUOROBENZENE	95		52-151	%REC	1	7/29/2015 13:39

Client: Talon LPE
Project: 701530.056.01 Nelson D-1
Sample ID: SW-4 @ 4'
Legal Location:
Collection Date: 7/24/2015 10:35

Date: 31-Jul-15
Work Order: 1507449
Lab ID: 1507449-4
Matrix: SOIL
Percent Moisture: 16.9

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
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Explanation of Qualifiers

Radiochemistry:

U or ND - Result is less than the sample specific MDC.
Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.
Y2 - Chemical Yield outside default limits.
W - DER is greater than Warning Limit of 1.42
* - Aliquot Basis is 'As Received' while the Report Basis is 'Dry Weight'.
- Aliquot Basis is 'Dry Weight' while the Report Basis is 'As Received'.
G - Sample density differs by more than 15% of LCS density.
D - DER is greater than Control Limit
M - Requested MDC not met.
LT - Result is less than requested MDC but greater than achieved MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
L - LCS Recovery below lower control limit.
H - LCS Recovery above upper control limit.
P - LCS, Matrix Spike Recovery within control limits.
N - Matrix Spike Recovery outside control limits
NC - Not Calculated for duplicate results less than 5 times MDC
B - Analyte concentration greater than MDC.
B3 - Analyte concentration greater than MDC but less than Requested MDC.

Inorganics:

B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).
U or ND - Indicates that the compound was analyzed for but not detected.
E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.
M - Duplicate injection precision was not met.
N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.
Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.
* - Duplicate analysis (relative percent difference) not within control limits.
S - SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.

Organics:

U or ND - Indicates that the compound was analyzed for but not detected.
B - Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.
E - Analyte concentration exceeds the upper level of the calibration range.
J - Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).
A - A tentatively identified compound is a suspected aldol-condensation product.
X - The analyte was diluted below an accurate quantitation level.
* - The spike recovery is equal to or outside the control criteria used.
+ - The relative percent difference (RPD) equals or exceeds the control criteria.
G - A pattern resembling gasoline was detected in this sample.
D - A pattern resembling diesel was detected in this sample.
M - A pattern resembling motor oil was detected in this sample.
C - A pattern resembling crude oil was detected in this sample.
4 - A pattern resembling JP-4 was detected in this sample.
5 - A pattern resembling JP-5 was detected in this sample.
H - Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.
L - Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.
Z - This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products:
- gasoline
- JP-8
- diesel
- mineral spirits
- motor oil
- Stoddard solvent
- bunker C

ALS Environmental -- FC

Date: 7/31/2015 12:28

Client: Talon LPE

QC BATCH REPORT

Work Order: 1507449

Project: 701530.056.01 Nelson D-1

Batch ID: HC150728-62-1

Instrument ID FUELS-1

Method: SW8015

LCS	Sample ID: HC150728-62			Units: MG/KG			Analysis Date: 7/28/2015 14:03					
Client ID:	Run ID: HC150728-6A				Prep Date: 7/28/2015		DF: 1					
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual	
GASOLINE RANGE ORGANICS	2.09	0.5	2.5		84	79-118				20		
Surr: 2,3,4-TRIFLUOROTOLUENE	0.524		0.5		105	76-126						

MB	Sample ID: HC150728-62			Units: MG/KG			Analysis Date: 7/28/2015 11:05					
Client ID:	Run ID: HC150728-6A				Prep Date: 7/28/2015		DF: 1					
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual	
GASOLINE RANGE ORGANICS	ND	0.5										
Surr: 2,3,4-TRIFLUOROTOLUENE	0.487		0.5		97	76-126						

MS	Sample ID: 1507449-1			Units: MG/KG			Analysis Date: 7/28/2015 12:53					
Client ID: SW-1 @ 4'	Run ID: HC150728-6A				Prep Date: 7/28/2015		DF: 1					
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual	
GASOLINE RANGE ORGANICS	1.82	0.539	2.7	0.6	67	79-118				40	*	
Surr: 2,3,4-TRIFLUOROTOLUENE	0.525		0.539		97	76-126						

MSD	Sample ID: 1507449-1			Units: MG/KG			Analysis Date: 7/28/2015 13:14					
Client ID: SW-1 @ 4'	Run ID: HC150728-6A				Prep Date: 7/28/2015		DF: 1					
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual	
GASOLINE RANGE ORGANICS	2.03	0.584	2.92	0.6	69	79-118		1.82	11	40	*	
Surr: 2,3,4-TRIFLUOROTOLUENE	0.578		0.584		99	76-126			10			

The following samples were analyzed in this batch:

1507449-1	1507449-2	1507449-3
1507449-4		

Client: Talon LPE
 Work Order: 1507449
 Project: 701530.056.01 Nelson D-1

QC BATCH REPORT

Batch ID: **HC150729-111-1** Instrument ID **FUELS-1** Method: **SW8015M**

LCS	Sample ID: HC150729-111			Units: MG/KG			Analysis Date: 7/29/2015 16:00				
Client ID:		Run ID: HC150729-7			Prep Date: 7/29/2015			DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Diesel Range Organics	66.4	5	62.5		106	76-124				20	
Surr: O-TERPHENYL	5.17		6.25		83	49-114					

MB	Sample ID: HC150729-111				Units: MG/KG			Analysis Date: 7/29/2015 15:29			
Client ID:	Run ID: HC150729-7				Prep Date: 7/29/2015			DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Diesel Range Organics	ND	5									
Surr: O-TERPHENYL	5.19		6.25		83	49-114					

MS	Sample ID: 1507449-1				Units: MG/KG		Analysis Date: 7/29/2015 18:36				
Client ID: SW-1 @ 4'			Run ID: HC150729-7			Prep Date: 7/29/2015			DF: 1		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Diesel Range Organics	74.7	6.23	77.9	6.3	96	76-124				20	
Surr: O-TERPHENYL	7.61		7.79		98	49-114					

MSD	Sample ID: 1507449-1				Units: MG/KG			Analysis Date: 7/29/2015 19:06			
Client ID: SW-1 @ 4'			Run ID: HC150729-7			Prep Date: 7/29/2015			DF: 1		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Diesel Range Organics	73.6	6.35	79.4	6.3	93	76-124		74.7	1	20	
Surr: O-TERPHENYL	7.6		7.94		96	49-114			0		

The following samples were analyzed in this batch:

1507449-1	1507449-2	1507449-3
1507449-4		

Client: Talon LPE
Work Order: 1507449
Project: 701530.056.01 Nelson D-1

QC BATCH REPORT

Batch ID: **VL150729-2-2** Instrument ID: **HPV1** Method: **SW8260**

LCS		Sample ID: VL150729-2			Units: MG/KG			Analysis Date: 7/29/2015 11:16			
Client ID:		Run ID: VL150729-2A			Prep Date: 7/29/2015			DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
BENZENE	0.0417	0.005	0.04		104	73-126				30	
TOLUENE	0.0409	0.005	0.04		102	71-127				30	
ETHYLBENZENE	0.0412	0.005	0.04		103	74-127				30	
M+P-XYLENE	0.0862	0.005	0.08		108	79-126				30	
O-XYLENE	0.0425	0.005	0.04		106	77-125				30	
Surr: DIBROMOFLUOROMETHANE	0.0503		0.05		101	61-134					
Surr: TOLUENE-D8	0.0481		0.05		96	57-135					
Surr: 4-BROMOFLUOROBENZENE	0.0497		0.05		99	52-151					

LCSD		Sample ID: VL150729-2			Units: MG/KG			Analysis Date: 7/29/2015 11:39			
Client ID:		Run ID: VL150729-2A			Prep Date: 7/29/2015			DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
BENZENE	0.0402	0.005	0.04		100	73-126		0.0417	4	30	
TOLUENE	0.0391	0.005	0.04		98	71-127		0.0409	5	30	
ETHYLBENZENE	0.0404	0.005	0.04		101	74-127		0.0412	2	30	
M+P-XYLENE	0.083	0.005	0.08		104	79-126		0.0862	4	30	
O-XYLENE	0.0401	0.005	0.04		100	77-125		0.0425	6	30	
Surr: DIBROMOFLUOROMETHANE	0.0503		0.05		101	61-134			0		
Surr: TOLUENE-D8	0.047		0.05		94	57-135			2		
Surr: 4-BROMOFLUOROBENZENE	0.0493		0.05		99	52-151			1		

MB		Sample ID: VL150729-2			Units: MG/KG			Analysis Date: 7/29/2015 12:03			
Client ID:		Run ID: VL150729-2A			Prep Date: 7/29/2015			DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
BENZENE	ND	0.005									
TOLUENE	ND	0.005									
ETHYLBENZENE	ND	0.005									
M+P-XYLENE	ND	0.005									
O-XYLENE	ND	0.005									
TOTAL XYLENES	ND	0.005									
Surr: DIBROMOFLUOROMETHANE	0.048		0.05		96	61-134					
Surr: TOLUENE-D8	0.0455		0.05		91	57-135					
Surr: 4-BROMOFLUOROBENZENE	0.0497		0.05		99	52-151					

Client: Talon LPE
Work Order: 1507449
Project: 701530.056.01 Nelson D-1

QC BATCH REPORT

Batch ID: **VL150729-2-2** Instrument ID: **HPV1** Method: **SW8260**

MS		Sample ID: 1507449-4		Units: MG/KG		Analysis Date: 7/29/2015 14:04					
Client ID: SW-4 @ 4'		Run ID: VL150729-2A		Prep Date: 7/29/2015		DF: 1					
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
BENZENE	0.0382	0.00558	0.0447	0.0056	85	73-126				30	
TOLUENE	0.0363	0.00558	0.0447	0.0056	81	71-127				30	
ETHYLBENZENE	0.0369	0.00558	0.0447	0.0056	83	74-127				30	
M+P-XYLENE	0.0752	0.00558	0.0893	0.0056	84	79-126				30	
O-XYLENE	0.0382	0.00558	0.0447	0.0056	85	77-125				30	
Surr: DIBROMOFLUOROMETHANE	0.0565		0.0558		101	61-134					
Surr: TOLUENE-D8	0.052		0.0558		93	57-135					
Surr: 4-BROMOFLUOROBENZENE	0.0536		0.0558		96	52-151					

MSD		Sample ID: 1507449-4		Units: MG/KG		Analysis Date: 7/29/2015 14:29					
Client ID: SW-4 @ 4'		Run ID: VL150729-2A		Prep Date: 7/29/2015		DF: 1					
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
BENZENE	0.0391	0.00576	0.0461	0.0056	85	73-126		0.0382	3	30	
TOLUENE	0.0382	0.00576	0.0461	0.0056	83	71-127		0.0363	5	30	
ETHYLBENZENE	0.0389	0.00576	0.0461	0.0056	84	74-127		0.0369	5	30	
M+P-XYLENE	0.0773	0.00576	0.0922	0.0056	84	79-126		0.0752	3	30	
O-XYLENE	0.0419	0.00576	0.0461	0.0056	91	77-125		0.0382	9	30	
Surr: DIBROMOFLUOROMETHANE	0.0576		0.0576		100	61-134			2		
Surr: TOLUENE-D8	0.0535		0.0576		93	57-135			3		
Surr: 4-BROMOFLUOROBENZENE	0.0564		0.0576		98	52-151			5		

The following samples were analyzed in this batch:

1507449-1	1507449-2	1507449-3
1507449-4		