Carson Dorn, Inc.
712 West 12th Street Juneau, Alaska 99801

June 15, 2011

Mr. Bruce Wanstall
Field Operations Project Manager
State & Private Contaminated Sites Program
Department of Environmental Conservation
PO Box 111800/410 Willoughby Avenue, Suite 302
Juneau, AK 99801

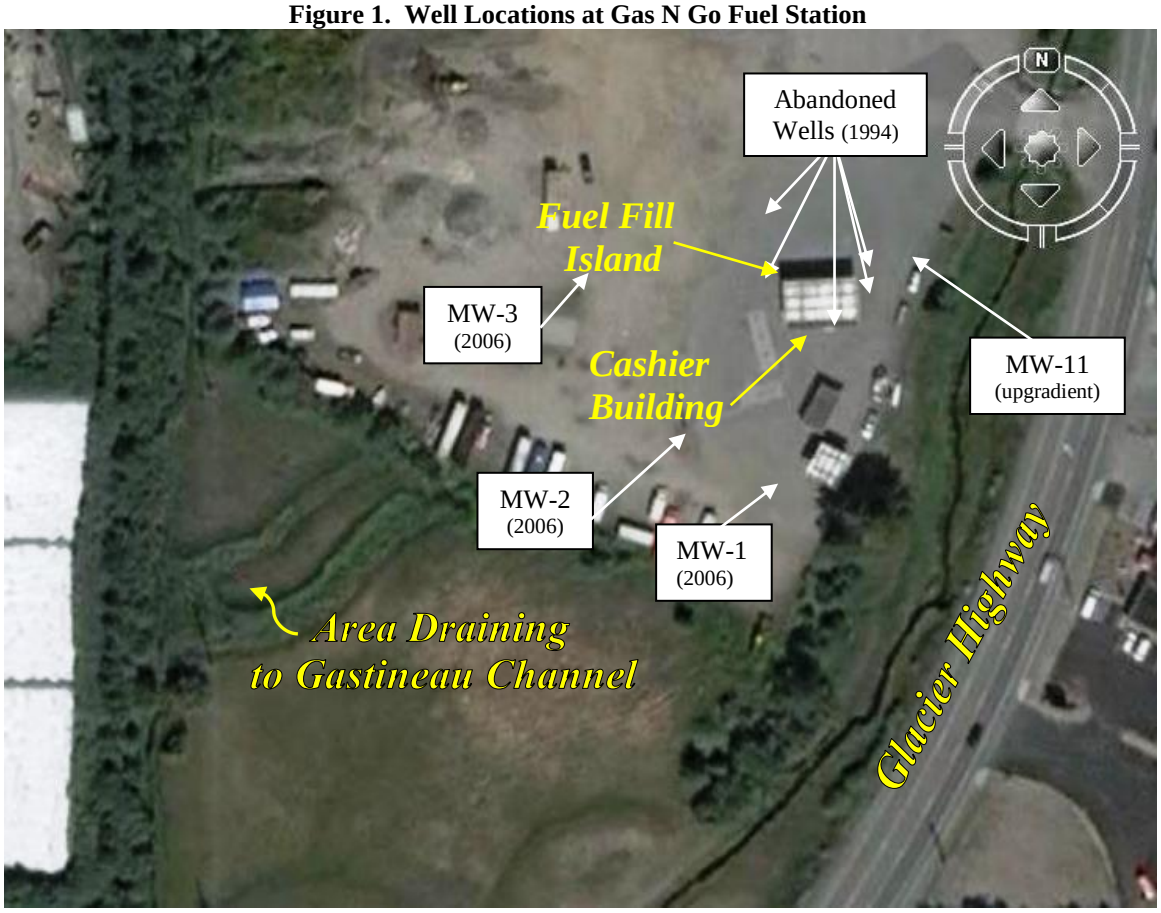
RE: May 2011 Groundwater Sampling at Gas N Go Fuel Station

Dear Mr. Wanstall:

As part of the long term sampling plan for Gas N Go Fuel Station, groundwater samples were collected at four monitoring wells on May 25, 2011.

Monitoring Well Locations
Figure 1 shows locations for the four wells sampled during this event (MW-1, MW-2, MW-3, and MW-11).

Figure 1. Well Locations at Gas N Go Fuel Station



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Sampling Procedure

Samples were collected by Carson Dorn staff at MW-1, MW-2, MW-3, and MW-11 on May 25. Each well was purged of at least three well volumes using a low-flow peristaltic pump and then allowed to recharge to the static water level prior to sampling. Using the same pump, samples for the most volatile organic compounds were collected first. One duplicate sample was also collected for a total of five samples.

Sampling Results

Samples were submitted to Test America Labs in Tacoma, WA, and were analyzed for gasoline and diesel range hydrocarbons (GRO and DRO) and benzene, toluene, ethylbenzene, and xylenes (BTEX). Table 1 compares the current round of sampling with results from past sampling events. The data is also compared to the ADEC Table C standards for groundwater cleanup, found in regulations 18 AAC 75. Sample results in bold exceed the cleanup standard.

Table 1. Gas N Go Groundwater Well Sampling August 2006- May 2011

Summary of Results in mg/L

Well No.	Well Depth	Depth to Water	Sample Date	Gasoline Range Organics	Diesel Range Organics	B	T	E	X
MW-1	10.5'	7.8'	8/16/06	0.435	0.402	**0.0145**	0.0009	0.0070	0.0236
			8/17/07	*ns*	ND	ND	ND	0.0012	ND
			11/19/07	*u*	*u*	*u*	*u*	*u*	*u*
		8.6	7/10/08	ND	ND	ND	ND	ND	ND
		8.14	5/25/11	ND	ND	ND	ND	ND	ND
MW-2	10.5'	9.0'	8/16/06	ND	0.105	ND	ND	ND	ND
			8/17/07	*ns*	0.471	**0.0111**	ND	0.0075	0.0178
			11/19/07	0.798	0.354	0.0020	0.0032	0.0291	0.0910
		7.4	7/8/08	ND	0.249	0.0014	ND	ND	ND
		6.8	5/25/11	ND	0.11	0.0011	ND	ND	ND
MW-3	10.4'	8.3'	8/16/06	**9.780**	**1.690**	**0.0067**	0.0051	0.0290	1.3300
			8/17/07	*ns*	0.906	ND	ND	0.0430	0.0542
			11/19/07	**3.090**	0.801	**0.0059**	0.0015	0.0375	0.0877
		6.95	7/10/08	**4.500**	**1.660**	**0.0092**	0.0026	0.0837	0.1530
		6.96	5/25/11	**3.5**	1.15	**0.00915**	0.00375	0.105	0.4217
MW-11	11.7'		8/16/06	*ns*	*ns*	*ns*	*ns*	*ns*	*ns*
		9.6'	8/17/07	*ns*	ND	ND	ND	0.0035	0.0036
			11/19/07	ND	ND	ND	ND	0.0011	0.0033
		8.7	7/8/08	ND	ND	ND	ND	0.0011	0.0033
		8.78	5/25/11	ND	ND	ND	ND	ND	ND
Cleanup Limits:				**2.2**	**1.5**	**0.005**	**1.0**	**0.7**	**10.0**

B=benzene, T=toluene, E=Ethylene, X=xylenes, ND= not detected, ns=no sample collected, u=unproductive well

All depths are feet below ground surface.

Samples were collected for GRO, DRO, and BTEX at MW-1, MW-2, MW-3, and MW-11. Parameters were either non-detect or met cleanup standards in all samples except MW-3, located directly west of the fuel fill island. GRO in MW-3 was measured at 3.5 mg/l, slightly above the groundwater cleanup level of

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2.2 mg/l and benzene was measured at a concentration of 0.00915 mg/l, close to twice the groundwater cleanup level of 0.0050 mg/l.

Monitoring Well Sampling Plan

Sampling results from 2006, 2007, 2008 and 2011 indicate that groundwater levels for GRO, DRO and BTEX are generally decreasing at MW-3 and are stable and satisfactory at MW-1, MW-2, and MW-11.

In accordance with the long-term monitoring plan for this site, one set of samples will be collected at the four wells on a three-year interval until cleanup standards have been consistently met at all wells. The next round of samples is scheduled to be collected in 2014.

Please don't hesitate to contact me at 586-4447 if you have any questions.

Sincerely,

Jolene Cox
Environmental Professional

Tel: 907 586 4447
Fax: 907 586 5917

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-26384-1
Client Project/Site: Gas-n-Go Juneau

For:
Carson Dorn, Inc
712 West 12th Street
Juneau, Alaska 99801

Attn: Jolene Cox

Authorized for release by:
06/09/2011 10:47:23 AM

Melissa Armstrong
Project Manager I
melissa.armstrong@testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Table of Contents

Job ID: 580-26384-1

Laboratory: TestAmerica Seattle

Narrative

Job Narrative
580-26384-1

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA - Method 8260B
Sample MW-11 (580-26384-4), was reanalyzed in analytical batch 580-87311 due to carry over contamination in the original analysis.

No other analytical or quality issues were noted.

GC Semi VOA - Method AK102 & 103
For sample MW-2 (580-26384-2), the results in the DRO (nC10-<nC25) and RRO (nC25-nC36) ranges are due to what most closely resembles a mineral/transformer oil range product.

For sample MW-3 (580-26384-3) and MW-D (580-26384-5), the results in the DRO (nC10-<nC25) and RRO (nC25-nC36) ranges are due to a complex mixture of gasoline and what most closely resembles a mineral/transformer oil range product.

The affected analyte ranges are qualified "Y" and have been reported.

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
Y	The chromatographic response resembles a typical fuel pattern.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

Client: Carson Dorn, Inc
Project/Site: Gas-n-Go Juneau

TestAmerica Job ID: 580-26384-1

Client Sample ID: MW-1
Date Collected: 05/25/11 11:40
Date Received: 05/25/11 15:00

Lab Sample ID: 580-26384-1
Matrix: Water

Method: 8260B - BTEX

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			05/26/11 22:40	1
Toluene	ND		1.0		ug/L			05/26/11 22:40	1
Ethylbenzene	ND		1.0		ug/L			05/26/11 22:40	1
m-Xylene & p-Xylene	ND		2.0		ug/L			05/26/11 22:40	1
o-Xylene	ND		1.0		ug/L			05/26/11 22:40	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorobenzene (Surr)	*99*		*80 - 120*		*05/26/11 22:40*	*1*
Toluene-d8 (Surr)	*101*		*85 - 120*		*05/26/11 22:40*	*1*
Ethylbenzene-d10	*103*		*80 - 120*		*05/26/11 22:40*	*1*
Trifluorotoluene (Surr)	*95*		*80 - 120*		*05/26/11 22:40*	*1*
4-Bromofluorobenzene (Surr)	*100*		*75 - 120*		*05/26/11 22:40*	*1*

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		0.050		mg/L			05/26/11 22:40	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Trifluorotoluene (Surr)	*106*		*50 - 150*		*05/26/11 22:40*	*1*
4-Bromofluorobenzene (Surr)	*97*		*50 - 150*		*05/26/11 22:40*	*1*

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	ND		0.095		mg/L		05/27/11 12:23	05/31/11 21:31	1
RRO (nC25-nC36)	ND		0.095		mg/L		05/27/11 12:23	05/31/11 21:31	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*93*		*50 - 150*	*05/27/11 12:23*	*05/31/11 21:31*	*1*
n-Triacontane-d62	*102*		*50 - 150*	*05/27/11 12:23*	*05/31/11 21:31*	*1*

Client: Carson Dorn, Inc
Project/Site: Gas-n-Go Juneau

TestAmerica Job ID: 580-26384-1

Client Sample ID: MW-2
Date Collected: 05/25/11 10:50
Date Received: 05/25/11 15:00

Lab Sample ID: 580-26384-2
Matrix: Water

Method: 8260B - BTEX

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.1**		1.0		ug/L			05/26/11 23:05	1
Toluene	ND		1.0		ug/L			05/26/11 23:05	1
Ethylbenzene	ND		1.0		ug/L			05/26/11 23:05	1
m-Xylene & p-Xylene	ND		2.0		ug/L			05/26/11 23:05	1
o-Xylene	ND		1.0		ug/L			05/26/11 23:05	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorobenzene (Surr)	*99*		*80 - 120*		*05/26/11 23:05*	*1*
Toluene-d8 (Surr)	*101*		*85 - 120*		*05/26/11 23:05*	*1*
Ethylbenzene-d10	*103*		*80 - 120*		*05/26/11 23:05*	*1*
Trifluorotoluene (Surr)	*96*		*80 - 120*		*05/26/11 23:05*	*1*
4-Bromofluorobenzene (Surr)	*101*		*75 - 120*		*05/26/11 23:05*	*1*

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		0.050		mg/L			05/26/11 23:05	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Trifluorotoluene (Surr)	*108*		*50 - 150*		*05/26/11 23:05*	*1*
4-Bromofluorobenzene (Surr)	*98*		*50 - 150*		*05/26/11 23:05*	*1*

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	**0.11**	**Y**	0.10		mg/L		05/27/11 12:23	05/31/11 21:55	1
RRO (nC25-nC36)	**0.15**	**Y**	0.10		mg/L		05/27/11 12:23	05/31/11 21:55	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*92*		*50 - 150*	*05/27/11 12:23*	*05/31/11 21:55*	*1*
n-Triacontane-d62	*100*		*50 - 150*	*05/27/11 12:23*	*05/31/11 21:55*	*1*

Client: Carson Dorn, Inc
Project/Site: Gas-n-Go Juneau

TestAmerica Job ID: 580-26384-1

Client Sample ID: MW-3

Lab Sample ID: 580-26384-3

Date Collected: 05/25/11 12:13

Matrix: Water

Date Received: 05/25/11 15:00

Method: 8260B - BTEX

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	9.1		1.0		ug/L			05/26/11 23:31	1
Toluene	3.7		1.0		ug/L			05/26/11 23:31	1
Ethylbenzene	100		1.0		ug/L			05/26/11 23:31	1
o-Xylene	6.4		1.0		ug/L			05/26/11 23:31	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorobenzene (Surr)	*98*		*80 - 120*		*05/26/11 23:31*	*1*
Toluene-d8 (Surr)	*101*		*85 - 120*		*05/26/11 23:31*	*1*
Ethylbenzene-d10	*102*		*80 - 120*		*05/26/11 23:31*	*1*
Trifluorotoluene (Surr)	*98*		*80 - 120*		*05/26/11 23:31*	*1*
4-Bromofluorobenzene (Surr)	*102*		*75 - 120*		*05/26/11 23:31*	*1*

Method: 8260B - BTEX - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	490		100		ug/L			06/06/11 21:10	50

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	3.4		0.050		mg/L			05/26/11 23:31	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Trifluorotoluene (Surr)	*107*		*50 - 150*		*05/26/11 23:31*	*1*
4-Bromofluorobenzene (Surr)	*99*		*50 - 150*		*05/26/11 23:31*	*1*

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	1.2	Y	0.094		mg/L		05/27/11 12:23	05/31/11 22:18	1
RRO (nC25-nC36)	0.30	Y	0.094		mg/L		05/27/11 12:23	05/31/11 22:18	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*99*		*50 - 150*	*05/27/11 12:23*	*05/31/11 22:18*	*1*
n-Triacontane-d62	*104*		*50 - 150*	*05/27/11 12:23*	*05/31/11 22:18*	*1*

Client: Carson Dorn, Inc
Project/Site: Gas-n-Go Juneau

TestAmerica Job ID: 580-26384-1

Client Sample ID: MW-11
Date Collected: 05/25/11 12:41
Date Received: 05/25/11 15:00

Lab Sample ID: 580-26384-4
Matrix: Water

Method: 8260B - BTEX - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			06/06/11 20:45	1
Toluene	ND		1.0		ug/L			06/06/11 20:45	1
Ethylbenzene	ND		1.0		ug/L			06/06/11 20:45	1
m-Xylene & p-Xylene	ND		2.0		ug/L			06/06/11 20:45	1
o-Xylene	ND		1.0		ug/L			06/06/11 20:45	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorobenzene (Surr)	*97*		*80 - 120*		*06/06/11 20:45*	*1*
Toluene-d8 (Surr)	*102*		*85 - 120*		*06/06/11 20:45*	*1*
Ethylbenzene-d10	*106*		*80 - 120*		*06/06/11 20:45*	*1*
Trifluorotoluene (Surr)	*100*		*80 - 120*		*06/06/11 20:45*	*1*
4-Bromofluorobenzene (Surr)	*103*		*75 - 120*		*06/06/11 20:45*	*1*

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		0.050		mg/L			05/26/11 23:56	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Trifluorotoluene (Surr)	*106*		*50 - 150*		*05/26/11 23:56*	*1*
4-Bromofluorobenzene (Surr)	*97*		*50 - 150*		*05/26/11 23:56*	*1*

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	ND		0.094		mg/L		05/27/11 12:23	05/31/11 22:42	1
RRO (nC25-nC36)	ND		0.094		mg/L		05/27/11 12:23	05/31/11 22:42	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*90*		*50 - 150*	*05/27/11 12:23*	*05/31/11 22:42*	*1*
n-Triacontane-d62	*97*		*50 - 150*	*05/27/11 12:23*	*05/31/11 22:42*	*1*

Client: Carson Dorn, Inc
Project/Site: Gas-n-Go Juneau

TestAmerica Job ID: 580-26384-1

Client Sample ID: MW-D
Date Collected: 05/25/11 12:20
Date Received: 05/25/11 15:00

Lab Sample ID: 580-26384-5
Matrix: Water

Method: 8260B - BTEX

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	9.2		1.0		ug/L			05/27/11 00:22	1
Toluene	3.8		1.0		ug/L			05/27/11 00:22	1
Ethylbenzene	110		1.0		ug/L			05/27/11 00:22	1
o-Xylene	7.0		1.0		ug/L			05/27/11 00:22	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorobenzene (Surr)	*98*		*80 - 120*		*05/27/11 00:22*	*1*
Toluene-d8 (Surr)	*101*		*85 - 120*		*05/27/11 00:22*	*1*
Ethylbenzene-d10	*102*		*80 - 120*		*05/27/11 00:22*	*1*
Trifluorotoluene (Surr)	*96*		*80 - 120*		*05/27/11 00:22*	*1*
4-Bromofluorobenzene (Surr)	*101*		*75 - 120*		*05/27/11 00:22*	*1*

Method: 8260B - BTEX - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	340		100		ug/L			06/06/11 21:36	50

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	3.6		0.050		mg/L			05/27/11 00:22	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Trifluorotoluene (Surr)	*104*		*50 - 150*		*05/27/11 00:22*	*1*
4-Bromofluorobenzene (Surr)	*98*		*50 - 150*		*05/27/11 00:22*	*1*

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	1.1	Y	0.094		mg/L		05/27/11 12:23	05/31/11 23:06	1
RRO (nC25-nC36)	0.27	Y	0.094		mg/L		05/27/11 12:23	05/31/11 23:06	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*89*		*50 - 150*	*05/27/11 12:23*	*05/31/11 23:06*	*1*
n-Triacontane-d62	*99*		*50 - 150*	*05/27/11 12:23*	*05/31/11 23:06*	*1*

Method: 8260B - BTEX

Lab Sample ID: MB 580-86807/6
Matrix: Water
Analysis Batch: 86807

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			05/26/11 17:34	1
Toluene	ND		1.0		ug/L			05/26/11 17:34	1
Ethylbenzene	ND		1.0		ug/L			05/26/11 17:34	1
m-Xylene & p-Xylene	ND		2.0		ug/L			05/26/11 17:34	1
o-Xylene	ND		1.0		ug/L			05/26/11 17:34	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorobenzene (Surr)	*98*		*80 - 120*		*05/26/11 17:34*	*1*
Toluene-d8 (Surr)	*101*		*85 - 120*		*05/26/11 17:34*	*1*
Ethylbenzene-d10	*103*		*80 - 120*		*05/26/11 17:34*	*1*
Trifluorotoluene (Surr)	*95*		*80 - 120*		*05/26/11 17:34*	*1*
4-Bromofluorobenzene (Surr)	*102*		*75 - 120*		*05/26/11 17:34*	*1*

Lab Sample ID: LCS 580-86807/9
Matrix: Water
Analysis Batch: 86807

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Benzene	25.0	23.6		ug/L		94	80 - 120
Toluene	25.0	23.9		ug/L		96	75 - 120
Ethylbenzene	25.0	23.9		ug/L		96	75 - 125
m-Xylene & p-Xylene	50.0	48.5		ug/L		97	75 - 130
o-Xylene	25.0	23.5		ug/L		94	80 - 120

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
Fluorobenzene (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*101*		*85 - 120*
Ethylbenzene-d10	*102*		*80 - 120*
Trifluorotoluene (Surr)	*94*		*80 - 120*
4-Bromofluorobenzene (Surr)	*103*		*75 - 120*

Lab Sample ID: LCSD 580-86807/10
Matrix: Water
Analysis Batch: 86807

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Benzene	25.0	23.6		ug/L		94	80 - 120	0	30
Toluene	25.0	24.0		ug/L		96	75 - 120	0	30
Ethylbenzene	25.0	23.9		ug/L		96	75 - 125	0	30
m-Xylene & p-Xylene	50.0	48.5		ug/L		97	75 - 130	0	30
o-Xylene	25.0	23.4		ug/L		94	80 - 120	0	30

Surrogate	*LCSD % Recovery*	*LCSD Qualifier*	*Limits*
Fluorobenzene (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*102*		*85 - 120*
Ethylbenzene-d10	*102*		*80 - 120*
Trifluorotoluene (Surr)	*94*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*75 - 120*

Method: 8260B - BTEX (Continued)

Lab Sample ID: MB 580-87311/6
Matrix: Water
Analysis Batch: 87311

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			06/06/11 18:37	1
Toluene	ND		1.0		ug/L			06/06/11 18:37	1
Ethylbenzene	ND		1.0		ug/L			06/06/11 18:37	1
m-Xylene & p-Xylene	ND		2.0		ug/L			06/06/11 18:37	1
o-Xylene	ND		1.0		ug/L			06/06/11 18:37	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorobenzene (Surr)	*97*		*80 - 120*		*06/06/11 18:37*	*1*
Toluene-d8 (Surr)	*102*		*85 - 120*		*06/06/11 18:37*	*1*
Ethylbenzene-d10	*105*		*80 - 120*		*06/06/11 18:37*	*1*
Trifluorotoluene (Surr)	*97*		*80 - 120*		*06/06/11 18:37*	*1*
4-Bromofluorobenzene (Surr)	*104*		*75 - 120*		*06/06/11 18:37*	*1*

Lab Sample ID: LCS 580-87311/9
Matrix: Water
Analysis Batch: 87311

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Benzene	25.0	25.0		ug/L		100	80 - 120
Toluene	25.0	25.2		ug/L		101	75 - 120
Ethylbenzene	25.0	25.3		ug/L		101	75 - 125
m-Xylene & p-Xylene	50.0	51.6		ug/L		103	75 - 130
o-Xylene	25.0	25.0		ug/L		100	80 - 120

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
Fluorobenzene (Surr)	*97*		*80 - 120*
Toluene-d8 (Surr)	*102*		*85 - 120*
Ethylbenzene-d10	*106*		*80 - 120*
Trifluorotoluene (Surr)	*90*		*80 - 120*
4-Bromofluorobenzene (Surr)	*104*		*75 - 120*

Lab Sample ID: LCSD 580-87311/10
Matrix: Water
Analysis Batch: 87311

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Benzene	25.0	25.0		ug/L		100	80 - 120	0	30
Toluene	25.0	25.3		ug/L		101	75 - 120	0	30
Ethylbenzene	25.0	25.5		ug/L		102	75 - 125	1	30
m-Xylene & p-Xylene	50.0	51.3		ug/L		103	75 - 130	1	30
o-Xylene	25.0	24.9		ug/L		100	80 - 120	0	30

Surrogate	*LCSD % Recovery*	*LCSD Qualifier*	*Limits*
Fluorobenzene (Surr)	*97*		*80 - 120*
Toluene-d8 (Surr)	*102*		*85 - 120*
Ethylbenzene-d10	*105*		*80 - 120*
Trifluorotoluene (Surr)	*90*		*80 - 120*
4-Bromofluorobenzene (Surr)	*104*		*75 - 120*

Method: AK101 - Alaska - Gasoline Range Organics (GC)

Lab Sample ID: MB 580-86809/6
Matrix: Water
Analysis Batch: 86809

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		0.050		mg/L			05/26/11 17:34	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Trifluorotoluene (Surr)	*106*		*50 - 150*		*05/26/11 17:34*	*1*
4-Bromofluorobenzene (Surr)	*98*		*50 - 150*		*05/26/11 17:34*	*1*

Lab Sample ID: LCS 580-86809/7
Matrix: Water
Analysis Batch: 86809

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Gasoline Range Organics (GRO) -C6-C10	1.00	0.882		mg/L		88	60 - 120

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
Trifluorotoluene (Surr)	*97*		*50 - 150*
4-Bromofluorobenzene (Surr)	*99*		*50 - 150*

Lab Sample ID: LCSD 580-86809/8
Matrix: Water
Analysis Batch: 86809

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C6-C10	1.00	0.896		mg/L		90	60 - 120	2	20

Surrogate	*LCSD % Recovery*	*LCSD Qualifier*	*Limits*
Trifluorotoluene (Surr)	*100*		*50 - 150*
4-Bromofluorobenzene (Surr)	*98*		*50 - 150*

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Lab Sample ID: MB 580-86870/1-A
Matrix: Water
Analysis Batch: 86906

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 86870

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (nC10-<nC25)	ND		0.10		mg/L		05/27/11 12:23	05/31/11 19:31	1
RRO (nC25-nC36)	ND		0.10		mg/L		05/27/11 12:23	05/31/11 19:31	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*88*		*50 - 150*	*05/27/11 12:23*	*05/31/11 19:31*	*1*
n-Triacontane-d62	*96*		*50 - 150*	*05/27/11 12:23*	*05/31/11 19:31*	*1*

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC) (Continued)

Lab Sample ID: LCS 580-86870/2-A
Matrix: Water
Analysis Batch: 86906

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 86870

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
DRO (nC10-<nC25)			0.500	0.392		mg/L		78	75 - 125		
RRO (nC25-nC36)			0.500	0.446		mg/L		89	60 - 120		

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*81*		*50 - 150*
n-Triacontane-d62	*94*		*50 - 150*

Lab Sample ID: LCSD 580-86870/3-A
Matrix: Water
Analysis Batch: 86906

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 86870

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
DRO (nC10-<nC25)			0.500	0.375		mg/L		75	75 - 125	4	20
RRO (nC25-nC36)			0.500	0.427		mg/L		85	60 - 120	4	20

Surrogate	*LCSD % Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*89*		*50 - 150*
n-Triacontane-d62	*100*		*50 - 150*

Lab Chronicle

Client: Carson Dorn, Inc
Project/Site: Gas-n-Go Juneau

TestAmerica Job ID: 580-26384-1

Client Sample ID: MW-1
Date Collected: 05/25/11 11:40
Date Received: 05/25/11 15:00

Lab Sample ID: 580-26384-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	86807	05/26/11 22:40	SK	TAL SEA
Total/NA	Analysis	AK101		1	86809	05/26/11 22:40	SK	TAL SEA
Total/NA	Prep	3520C			86870	05/27/11 12:23	MT	TAL SEA
Total/NA	Analysis	AK102 & 103		1	86906	05/31/11 21:31	EK	TAL SEA

Client Sample ID: MW-2
Date Collected: 05/25/11 10:50
Date Received: 05/25/11 15:00

Lab Sample ID: 580-26384-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	86807	05/26/11 23:05	SK	TAL SEA
Total/NA	Analysis	AK101		1	86809	05/26/11 23:05	SK	TAL SEA
Total/NA	Prep	3520C			86870	05/27/11 12:23	MT	TAL SEA
Total/NA	Analysis	AK102 & 103		1	86906	05/31/11 21:55	EK	TAL SEA

Client Sample ID: MW-3
Date Collected: 05/25/11 12:13
Date Received: 05/25/11 15:00

Lab Sample ID: 580-26384-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	86807	05/26/11 23:31	SK	TAL SEA
Total/NA	Analysis	8260B	DL	50	87311	06/06/11 21:10	SK	TAL SEA
Total/NA	Analysis	AK101		1	86809	05/26/11 23:31	SK	TAL SEA
Total/NA	Prep	3520C			86870	05/27/11 12:23	MT	TAL SEA
Total/NA	Analysis	AK102 & 103		1	86906	05/31/11 22:18	EK	TAL SEA

Client Sample ID: MW-11
Date Collected: 05/25/11 12:41
Date Received: 05/25/11 15:00

Lab Sample ID: 580-26384-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	RA	1	87311	06/06/11 20:45	SK	TAL SEA
Total/NA	Analysis	AK101		1	86809	05/26/11 23:56	SK	TAL SEA
Total/NA	Prep	3520C			86870	05/27/11 12:23	MT	TAL SEA
Total/NA	Analysis	AK102 & 103		1	86906	05/31/11 22:42	EK	TAL SEA

Client Sample ID: MW-D
Date Collected: 05/25/11 12:20
Date Received: 05/25/11 15:00

Lab Sample ID: 580-26384-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	86807	05/27/11 00:22	SK	TAL SEA
Total/NA	Analysis	8260B	DL	50	87311	06/06/11 21:36	SK	TAL SEA
Total/NA	Analysis	AK101		1	86809	05/27/11 00:22	SK	TAL SEA

Lab Chronicle

Client: Carson Dorn, Inc
Project/Site: Gas-n-Go Juneau

TestAmerica Job ID: 580-26384-1

Client Sample ID: MW-D
Date Collected: 05/25/11 12:20
Date Received: 05/25/11 15:00

Lab Sample ID: 580-26384-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			86870	05/27/11 12:23	MT	TAL SEA
Total/NA	Analysis	AK102 & 103		1	86906	05/31/11 23:06	EK	TAL SEA

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Certification Summary

Client: Carson Dorn, Inc
Project/Site: Gas-n-Go Juneau

TestAmerica Job ID: 580-26384-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Seattle	Alaska	Alaska UST	10	UST-022
TestAmerica Seattle	California	NELAC	9	1115CA
TestAmerica Seattle	Florida	NELAC	4	E871074
TestAmerica Seattle	L-A-B	DoD ELAP	0	L2236
TestAmerica Seattle	L-A-B	ISO/IEC 17025	0	L2236
TestAmerica Seattle	Louisiana	NELAC	6	05016
TestAmerica Seattle	Montana	MT DEQ UST	8	N/A
TestAmerica Seattle	Oregon	NELAC	10	WA100007
TestAmerica Seattle	USDA	USDA	0	P330-11-00222
TestAmerica Seattle	Washington	State Program	10	C553

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Sample Summary

Client: Carson Dorn, Inc
Project/Site: Gas-n-Go Juneau

TestAmerica Job ID: 580-26384-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-26384-1	MW-1	Water	05/25/11 11:40	05/25/11 15:00
580-26384-2	MW-2	Water	05/25/11 10:50	05/25/11 15:00
580-26384-3	MW-3	Water	05/25/11 12:13	05/25/11 15:00
580-26384-4	MW-11	Water	05/25/11 12:41	05/25/11 15:00
580-26384-5	MW-D	Water	05/25/11 12:20	05/25/11 15:00

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Seattle
5755 8th Street E.
Tacoma, WA 98424
Tel. 253-922-2310
Fax 253-922-5047
www.testamericainc.com

☐ Rush
☐ Short Hold

Chain of Custody Record

21384

Client: CARSON DORN INC.
Client Contact: JOLENE COX
Date: 5.25.11
Chain of Custody Number: 7348

Address: 712 W 12th St
Telephone Number (Area Code)/Fax Number: 907.586.4447
Lab Number:
Page 1 of 1

City: JUNEAU
State: AK
Zip Code: 99801
Sampler: JCOX
Lab Contact:

Project Name and Location (State): GAS-N-GO - JUNEAU
Billing Contact:

Contract/Purchase Order/Quote No.:

Analysis (Attach list if more space is needed): AK102, AK101, BTEX

Special Instructions/ Conditions of Receipt

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	AK102	AK101	BTEX	Special Instructions
MW-1	5.25.11	11:40		X						X			X	X	X	2-1L, 3-40mL
MW-2	↓	10:50		X						X			X	X	X	↓
MW-3		12:13		X						X			X	X	X	
MW-11		12:41		X						X			X	X	X	
MW-D		12:20		X						X			X	X	X	

Lg. Green/blue
lab Courier
IR = 5.2/5.3
ge/bubble

Cooler: ☒ Yes ☐ No Cooler Temp:_____
Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown
Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days)
☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☒ 15 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time
1. Relinquished By Sign/Print: JCox JOLENE COX	5.25.11	4:15P
2. Relinquished By Sign/Print		
3. Relinquished By Sign/Print		

	Date	Time
1. Received By Sign/Print: Tom Blankinship	5/25/11	1500
2. Received By Sign/Print		
3. Received By Sign/Print		

Comments

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

Login Sample Receipt Checklist

Client: Carson Dorn, Inc

Job Number: 580-26384-1

Login Number: 26384

List Source: TestAmerica Seattle

List Number: 1

Creator: Blankinship, Tom

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.

Laboratory Data Review Checklist

Completed by:	Jolene Cox
Title:	Environmental Professional
Date:	June 15, 2011
CS Report Name:	Gas N Go Leaking Underground Storage Tank Site
Report Date:	June 09, 2011
Consultant Firm:	Carson Dorn, Inc.
Laboratory Name:	TestAmerica, Tacoma, WA
Laboratory Report Number:	580-26384-1
ADEC File Number:	
ADEC RecKey Number:	

1. Laboratory

   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?

   ○ Yes ○ No Comments:

   YES

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?

   ○ Yes ○ No Comments:

   NA

2. Chain of Custody (COC)

   a. COC information completed, signed, and dated (including released/received by)?

   ○ Yes ○ No Comments:

   YES

b. Correct analyses requested?

○ Yes ○ No Comments:

YES

3. Laboratory Sample Receipt Documentation

a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?

◉ Yes ○ No Comments:

YES

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

○ Yes ○ No Comments:

YES

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

○ Yes ○ No Comments:

YES

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

○ Yes ○ No Comments:

NO

e. Data quality or usability affected? Explain.

Comments:

NO.

4. Case Narrative

a. Present and understandable?

○ Yes ○ No Comments:

YES

b. Discrepancies, errors or QC failures identified by the lab?

○ Yes ○ No Comments:

Sample MW-11 (580-26384-4), was reanalyzed in analytical batch 580-87311 due to carry over contamination in the original analysis.

For sample MW-2 (580-26384-2), the results in the DRO (nC10-<nC25) and RRO (nC25-nC36) ranges are due to what most closely resembles a mineral/transformer oil range product.
For sample MW-3 (580-26384-3) and MW-D (580-26384-5), the results in the DRO (nC10-<nC25) and RRO (nC25-nC36) ranges are due to a complex mixture of gasoline and what most closely resembles a mineral/transformer oil range product.

The affected analyte ranges are qualified "Y" and have been reported.

c. Were all corrective actions documented?

○ Yes ○ No Comments:

YES

d. What is the effect on data quality/usability according to the case narrative?

Comments:

NONE

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

○ Yes ○ No Comments:

YES

b. All applicable holding times met?

○ Yes ○ No Comments:

YES

c. All soils reported on a dry weight basis?

○ Yes ○ No Comments:

YES

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?

○ Yes ○ No Comments:

e. Data quality or usability affected? Explain.

Comments:

NO

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

○ Yes ○ No Comments:

YES

ii. All method blank results less than PQL?

○ Yes ○ No Comments:

iii. If above PQL, what samples are affected?

Comments:

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

○ Yes ○ No Comments:

v. Data quality or usability affected? Explain.

Comments:

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples?

○ Yes ○ No Comments:

YES

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

○ Yes ○ No Comments:

NA

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

○ Yes ○ No Comments:

YES

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

○ Yes ○ No Comments:

YES

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

NONE

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

○ Yes ○ No Comments:

NA

vii. Data quality or usability affected? Explain.

Comments:

NA

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?

○ Yes ○ No Comments:

YES

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)

○ Yes ○ No Comments:

Yes

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?

NA

○ Yes ○ No Comments:

iv. Data quality or usability affected? Explain.
Comments:

NA

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and cooler?

○ Yes ○ No Comments:

NO

ii. All results less than PQL?

○ Yes ○ No Comments:

NA

iii. If above PQL, what samples are affected?
Comments:

NA

iv. Data quality or usability affected? Explain.
Comments:

NA

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

○ Yes ○ No Comments:

YES

ii. Submitted blind to lab?

○ Yes ○ No Comments:

YES

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: $\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$

Where R_1 = Sample Concentration
R_2 = Field Duplicate Concentration

○ Yes ○ No Comments:

YES

iv. Data quality or usability affected? Explain.

Comments:

NA

f. Decontamination or Equipment Blank (if applicable)

○ Yes ○ No ○ Not Applicable

i. All results less than PQL?

○ Yes ○ No Comments:

NO

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? Explain.

Comments:

NA

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

○ Yes ○ No Comments:

YES