Delta Western Monitoring Well Installation & Sampling
Haines, Alaska
Sampling Report

DECEMBER 2011

ChemTrack

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1.0 Introduction

This report presents a summary of analytical data collected during the installation and development of monitoring wells at the Delta Western Tesoro in Haines, Alaska in October 2011.

Please note that the samples obtained during well installation and developments were collected by the field crew. This preliminary data provides a general level of the degree and extent of potential contaminants of concern at the site. The long-term groundwater monitoring program will be conducted in accordance with the ADEC-approved remediation plan in the Spring of 2012.

Monitoring well installation was conducted as part of an ongoing remediation project to address potential surface and subsurface contamination associated with previously identified

A total of 6 monitoring wells were installed in accordance with an ADEC approved work plan. See Figure 1: Monitoring Well Locations.

Initial groundwater sampling was conducted during well development on October 22, 2011. Samples were submitted for DRO/RRO, GRO/BTEX, and PAH analyses.

Monitoring wells were installed in accordance with State of Alaska ADEC Monitoring Well Guidance February 2009. The wells were designated as MW-10, MW-11, MW-12, MW-13, MW-14, and MW-15.

Sample collection and laboratory analysis were conducted in accordance with State of Alaska 18 AAC 75, Articles 3 & 9, October 2008 and ADEC Field-Sampling Guidance May 2010.

2.0 MONITORING WELL / SAMPLE LOCATIONS

The monitoring wells were installed along the east and north property lines per previous discussions with the ADEC. These locations were selected to provide data for evaluating potential migration towards Sawmill Creek. See Figure 1: Monitoring Well Sample Locations.

3.0 SAMPLE ANALYTICAL METHODS

Analytes	Methods	Containers	Preservation / Holding Times
GRO/BTEX	AK101/EPA 8021B	40 mL VOA / TLS	HClto pH < 2, 4º±2ºC / 14 Days
DRO/RRO	AK 102/103	1 L Amber Glass / TLC	Acidify to pH of 2 w HCl 7 Days to Extract 40 Days to Analyze Extract
PAH's	EPA 8270D		

Table 1: Summary of Sample Methods, Containers, Preservation, and Holding Times

4.0 Sample Data and Data Comparison to ADEC Cleanup Levels

Analytes	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	TRIP BLANK	ADEC (mg/L)**
DRO	ND	0.605	0.833	1.96	0.797	ND	ND	1.5
RRO	ND	ND	ND	ND	ND	ND	ND	1.1
GRO	ND	0.197	0.834	ND	ND	ND	ND	2.2
Benzene	0.0061	0.077	0.081	0.063	ND	0.0007	ND	0.005
Toluene	0.0011	0.0025	0.023	0.00059	ND	0.0033	ND	1.0
Ethylbenzene	0.0014	0.0036	0.035	0.00096	ND	ND	ND	0.7
Xylenes (total)	0.0097	0.0104	0.236	0.0039	ND	0.0025	ND	10.0

ND = Not Detected at the Laboratory Detection Limit ** = Based on 18 AAC 75.345 Table C Groundwater Cleanup Levels

Table 2: Summary of DRO, RRO, GRO, and BTEX Analytical Data (mg/L)

Analytes	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	TRIP BLANK	ADEC (mg/L)**
Naphthalene	ND	ND	0.007	0.0002	ND	0.0017	ND	0.73
2-Methylnaphthalene	ND	ND	0.0013	ND	ND	0.0009	ND	0.15
1-Methylnaphthalene	ND	ND	0.0007	ND	ND	0.0001	ND	0.15
Acenaphthalene	ND	ND	ND	ND	ND	ND	ND	2.2
Acenapthene	ND	ND	ND	ND	ND	ND	ND	2.2
Fluorene	ND	ND	ND	ND	ND	ND	ND	1.5
Phenanthrene	ND	ND	ND	ND	ND	ND	ND	11
Anthracene	ND	ND	ND	ND	ND	ND	ND	11
Fluoranthene	ND	ND	ND	ND	ND	ND	ND	1.5
Pyrene	ND	ND	ND	ND	ND	ND	ND	1.1
Benzo(a)anthracene	ND	ND	ND	ND	ND	ND	ND	0.0012
Chrysene	ND	ND	ND	ND	ND	ND	ND	0.12
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	ND	ND	0.0012
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND	ND	0.012
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	ND	0.0002
Indeno (1,2,3-cd) pyrene	ND	ND	ND	ND	ND	ND	ND	0.0012
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	ND	ND	0.00012
Benzo(ghi)perylene	ND	ND	ND	ND	ND	ND	ND	1.1

ND = Not Detected at the Laboratory Detection Limit ** = Based on 18 AAC 75.345 Table C Groundwater Cleanup Levels

Table 3: Summary of PAH Analytical Data (mg/L)

5.0 Findings

DRO compounds were detected in 4 of the 6 wells; however, the DRO at well MW-13 was the only sample that exceeded the ADEC Table C Cleanup Level.

No RRO compounds were detected in any of the samples.

GRO compounds were detected in 2 of the 6 wells; however, no samples exceeded the ADEC Table C Cleanup Level.

Benzene was detected in 5 of the 6 wells; 4 of the 6 samples exceeded the ADEC Table C Cleanup Level.

Toluene, Ethylbenzene, and Xylenes were generally present in all wells except MW-14; none of these analytes exceeded the ADEC Table C Cleanup Level in any of the samples.

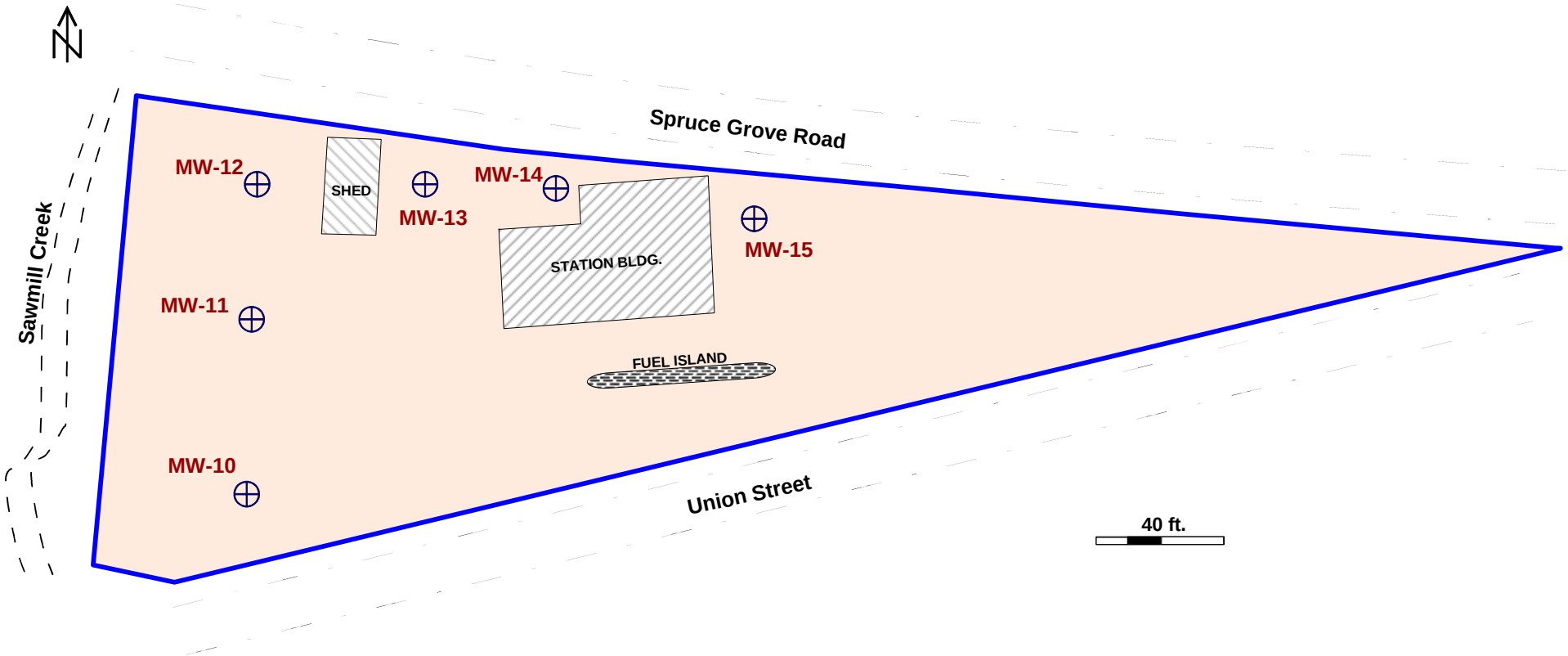
Minor detections of some PAH compounds were reported in 3 of the 6 wells; however, no samples exceeded the ADEC Table C Cleanup Levels.

6.0 Conclusions and Recommendations

Current levels indicated that DRO and Benzene in well MW-13 exceeded ADEC Table C Cleanup Levels and that Benzene in wells MW-10, MW-11, and MW-12 also exceeded ADEC Table C Cleanup Levels.

Well sampling and analysis during installation and development of the new monitoring wells indicates that fuel hydrocarbons have impacted the general area.

Long-term groundwater monitoring will be conducted in Spring 2012 in accordance with the ADEC-approved site Remediation Work Plan. The groundwater data will be used to provide additional site characterization data for evaluation of fuel hydrocarbon levels and to establish if potential contaminant levels are increasing, decreasing or are remaining stable.



	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	ADEC (mg/L)**
DRO	ND	0.605	0.833	1.96	0.797	ND	1.5
RRO	ND	ND	ND	ND	ND	ND	1.1
GRO	ND	0.197	0.834	ND	ND	ND	2.2
Benzene	0.0061	0.077	0.081	0.063	ND	0.0007	0.0005
Toluene	0.0011	0.0025	0.023	0.00059	ND	0.0033	1.0
Ethylbenzene	0.0014	0.0036	0.035	0.00096	ND	ND	0.7
Xylenes (total)	0.0097	0.0104	0.236	0.0039	ND	0.0025	10.0

ND = Not Detected at the Laboratory Detection Limit **= Based on 18 AAC 75.345 Table C Groundwater Cleanup Levels

Analyte	MW-12	MW-13	MW-15	ADEC (mg/L)*
Naphthalene	0.007	0.0002	0.0017	0.73
2-Methylnaphthalene	0.0013	ND	0.0009	0.15
1-Methylnaphthalene	0.0007	ND	0.0001	0.15

*= Based on 18 AAC 75.345 Table C Groundwater Cleanup Levels

Note: No Other PAH's detected in any other samples

ChemTrack

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Delta Western Tesoro
Monitoring Wells
Haines, Alaska

PROJECT NUMBER	SCALE
6127	NTS
DATE	**FIGURE**
11/21/11	1

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Anchorage
2000 West International Airport Road Suite A10
Anchorage, AK 99502-1119
Tel: (907) 563-9200

TestAmerica Job ID: AUJ0090
Client Project/Site: 6083
Client Project Description: DW- Haines

For:
ChemTrack
11711 S. Gambell
Anchorage, AK 99515

Attn: Dr. Charles Ronan

Johanna Dreher

Authorized for release by:
11/9/2011 1:53:00 PM

Johanna L Dreher
Client Services Manager
johanna.dreher@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.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Definitions/Glossary

Client: ChemTrack
Project/Site: 6083

TestAmerica Job ID: AUJ0090

Qualifiers

Fuels

Qualifier	Qualifier Description
R4	Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
Q11	Detected hydrocarbons in the diesel range do not have a distinct diesel pattern and may be due to heavily weathered diesel.

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
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: ChemTrack
Project/Site: 6083

TestAmerica Job ID: AUJ0090

Job ID: AUJ0090

Laboratory: TestAmerica Anchorage

Narrative

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

Subcontracted
8270 SIM PAH samples were subcontracted to TestAmerica Spokane from TestAmerica Anchorage.

Detection Summary

Client: ChemTrack
Project/Site: 6083

TestAmerica Job ID: AUJ0090

Client Sample ID: MW-10 — Lab Sample ID: AUJ0090-01

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	6.14		0.500		ug/l	1.00		AK101/EPA 8021B	Total
Toluene	1.10		0.500		ug/l	1.00		AK101/EPA 8021B	Total
Ethylbenzene	1.39		0.500		ug/l	1.00		AK101/EPA 8021B	Total
Xylenes (total)	9.68		1.50		ug/l	1.00		AK101/EPA 8021B	Total

Client Sample ID: MW-11 — Lab Sample ID: AUJ0090-02

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics	0.605	Q11	0.391		mg/l	1.00		AK102/103	Total
Gasoline Range Organics	197		50.0		ug/l	1.00		AK101/EPA 8021B	Total
Benzene	77.1		0.500		ug/l	1.00		AK101/EPA 8021B	Total
Toluene	2.46		0.500		ug/l	1.00		AK101/EPA 8021B	Total
Ethylbenzene	3.64		0.500		ug/l	1.00		AK101/EPA 8021B	Total
Xylenes (total)	10.4		1.50		ug/l	1.00		AK101/EPA 8021B	Total

Client Sample ID: MW-12 — Lab Sample ID: AUJ0090-03

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	7.08		0.189		ug/l	1.00		EPA 8270 mod.	Total
2-Methylnaphthalene	1.27		0.189		ug/l	1.00		EPA 8270 mod.	Total
1-Methylnapthalene	0.774		0.189		ug/l	1.00		EPA 8270 mod.	Total
Diesel Range Organics	0.833	Q11	0.391		mg/l	1.00		AK102/103	Total
Gasoline Range Organics	834		50.0		ug/l	1.00		AK101/EPA 8021B	Total
Benzene	81.5		0.500		ug/l	1.00		AK101/EPA 8021B	Total
Toluene	23.3		0.500		ug/l	1.00		AK101/EPA 8021B	Total
Ethylbenzene	35.4		0.500		ug/l	1.00		AK101/EPA 8021B	Total
Xylenes (total)	236		1.50		ug/l	1.00		AK101/EPA 8021B	Total

Client Sample ID: MW-13 — Lab Sample ID: AUJ0090-04

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.236		0.189		ug/l	1.00		EPA 8270 mod.	Total
Diesel Range Organics	1.96	Q11	0.391		mg/l	1.00		AK102/103	Total
Benzene	6.25		0.500		ug/l	1.00		AK101/EPA 8021B	Total
Toluene	0.586		0.500		ug/l	1.00		AK101/EPA 8021B	Total
Ethylbenzene	0.963		0.500		ug/l	1.00		AK101/EPA 8021B	Total
Xylenes (total)	3.99		1.50		ug/l	1.00		AK101/EPA 8021B	Total

Client Sample ID: MW-14 — Lab Sample ID: AUJ0090-05

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics	0.797	Q11	0.391		mg/l	1.00		AK102/103	Total

Client Sample ID: MW-15 — Lab Sample ID: AUJ0090-06

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	1.67		0.189		ug/l	1.00		EPA 8270 mod.	Total
2-Methylnaphthalene	0.962		0.189		ug/l	1.00		EPA 8270 mod.	Total
1-Methylnapthalene	1.08		0.189		ug/l	1.00		EPA 8270 mod.	Total
Benzene	0.710		0.500		ug/l	1.00		AK101/EPA 8021B	Total
Toluene	3.31		0.500		ug/l	1.00		AK101/EPA 8021B	Total
Xylenes (total)	2.52		1.50		ug/l	1.00		AK101/EPA 8021B	Total

Detection Summary

Client: ChemTrack
Project/Site: 6083

TestAmerica Job ID: AUJ0090

Client Sample ID: MW-110 — Lab Sample ID: AUJ0090-07

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics	0.550	Q11	0.391		mg/l	1.00		AK102/103	Total

Client Sample ID: Trip Blank — Lab Sample ID: AUJ0090-08

No Detections

Client Sample Results

Client: ChemTrack
Project/Site: 6083

TestAmerica Job ID: AUJ0090

Client Sample ID: MW-10

Date Collected: 10/22/11 16:49
Date Received: 10/25/11 13:30

Lab Sample ID: AUJ0090-01

Matrix: Water

Method: EPA 8270 mod. - Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 16:32	1.00
2-Methylnaphthalene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 16:32	1.00
1-Methylnapthalene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 16:32	1.00
Acenaphthylene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 16:32	1.00
Acenaphthene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 16:32	1.00
Fluorene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 16:32	1.00
Phenanthrene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 16:32	1.00
Anthracene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 16:32	1.00
Fluoranthene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 16:32	1.00
Pyrene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 16:32	1.00
Benzo (a) anthracene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 16:32	1.00
Chrysene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 16:32	1.00
Benzo (b) fluoranthene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 16:32	1.00
Benzo (k) fluoranthene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 16:32	1.00
Benzo (a) pyrene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 16:32	1.00
Indeno (1,2,3-cd) pyrene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 16:32	1.00
Dibenzo (a,h) anthracene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 16:32	1.00
Benzo (ghi) perylene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 16:32	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*78.9*		*30 - 150*	*10/28/11 10:09*	*10/28/11 16:32*	*1.00*
2-FBP	*71.1*		*21 - 122*	*10/28/11 10:09*	*10/28/11 16:32*	*1.00*
p-Terphenyl-d14	*81.6*		*35 - 150*	*10/28/11 10:09*	*10/28/11 16:32*	*1.00*

Method: AK102/103 - Diesel Range Organics (C10-C25) and Residual Range Organics (C25-C36) per AK102/RRO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics	ND		0.391		mg/l		10/27/11 09:42	10/28/11 17:51	1.00
Residual Range Organics	ND		0.391		mg/l		10/27/11 09:42	10/28/11 17:51	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane	*102*		*50 - 150*	*10/27/11 09:42*	*10/28/11 17:51*	*1.00*
Triacontane	*99.7*		*50 - 150*	*10/27/11 09:42*	*10/28/11 17:51*	*1.00*

Method: AK101/EPA 8021B - Gasoline Range Organics (C6-C10) and BTEX per AK101

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		50.0		ug/l		10/26/11 09:48	10/26/11 17:04	1.00
Benzene	**6.14**		0.500		ug/l		10/26/11 09:48	10/26/11 17:04	1.00
Toluene	**1.10**		0.500		ug/l		10/26/11 09:48	10/26/11 17:04	1.00
Ethylbenzene	**1.39**		0.500		ug/l		10/26/11 09:48	10/26/11 17:04	1.00
Xylenes (total)	**9.68**		1.50		ug/l		10/26/11 09:48	10/26/11 17:04	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-BFB (FID)	*101*		*50 - 150*	*10/26/11 09:48*	*10/26/11 17:04*	*1.00*
4-BFB (PID)	*92.2*		*50 - 150*	*10/26/11 09:48*	*10/26/11 17:04*	*1.00*
a,a,a-TFT (FID)	*101*		*50 - 150*	*10/26/11 09:48*	*10/26/11 17:04*	*1.00*
a,a,a-TFT (PID)	*94.2*		*50 - 150*	*10/26/11 09:48*	*10/26/11 17:04*	*1.00*

Client Sample Results

Client: ChemTrack
Project/Site: 6083

TestAmerica Job ID: AUJ0090

Client Sample ID: MW-11

Date Collected: 10/22/11 16:54
Date Received: 10/25/11 13:30

Lab Sample ID: AUJ0090-02

Matrix: Water

Method: EPA 8270 mod. - Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 16:59	1.00
2-Methylnaphthalene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 16:59	1.00
1-Methylnapthalene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 16:59	1.00
Acenaphthylene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 16:59	1.00
Acenaphthene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 16:59	1.00
Fluorene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 16:59	1.00
Phenanthrene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 16:59	1.00
Anthracene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 16:59	1.00
Fluoranthene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 16:59	1.00
Pyrene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 16:59	1.00
Benzo (a) anthracene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 16:59	1.00
Chrysene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 16:59	1.00
Benzo (b) fluoranthene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 16:59	1.00
Benzo (k) fluoranthene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 16:59	1.00
Benzo (a) pyrene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 16:59	1.00
Indeno (1,2,3-cd) pyrene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 16:59	1.00
Dibenzo (a,h) anthracene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 16:59	1.00
Benzo (ghi) perylene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 16:59	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*77.6*		*30 - 150*	*10/28/11 10:09*	*10/28/11 16:59*	*1.00*
2-FBP	*70.6*		*21 - 122*	*10/28/11 10:09*	*10/28/11 16:59*	*1.00*
p-Terphenyl-d14	*82.3*		*35 - 150*	*10/28/11 10:09*	*10/28/11 16:59*	*1.00*

Method: AK102/103 - Diesel Range Organics (C10-C25) and Residual Range Organics (C25-C36) per AK102/RRO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics	**0.605**	**Q11**	0.391		mg/l		10/27/11 09:42	10/28/11 18:24	1.00
Residual Range Organics	ND		0.391		mg/l		10/27/11 09:42	10/28/11 18:24	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane	*97.3*		*50 - 150*	*10/27/11 09:42*	*10/28/11 18:24*	*1.00*
Triacontane	*94.0*		*50 - 150*	*10/27/11 09:42*	*10/28/11 18:24*	*1.00*

Method: AK101/EPA 8021B - Gasoline Range Organics (C6-C10) and BTEX per AK101

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	**197**		50.0		ug/l		10/26/11 09:48	10/26/11 17:30	1.00
Benzene	**77.1**		0.500		ug/l		10/26/11 09:48	10/26/11 17:30	1.00
Toluene	**2.46**		0.500		ug/l		10/26/11 09:48	10/26/11 17:30	1.00
Ethylbenzene	**3.64**		0.500		ug/l		10/26/11 09:48	10/26/11 17:30	1.00
Xylenes (total)	**10.4**		1.50		ug/l		10/26/11 09:48	10/26/11 17:30	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-BFB (FID)	*102*		*50 - 150*	*10/26/11 09:48*	*10/26/11 17:30*	*1.00*
4-BFB (PID)	*94.7*		*50 - 150*	*10/26/11 09:48*	*10/26/11 17:30*	*1.00*
a,a,a-TFT (FID)	*88.9*		*50 - 150*	*10/26/11 09:48*	*10/26/11 17:30*	*1.00*
a,a,a-TFT (PID)	*83.4*		*50 - 150*	*10/26/11 09:48*	*10/26/11 17:30*	*1.00*

Client Sample Results

Client: ChemTrack
Project/Site: 6083

TestAmerica Job ID: AUJ0090

Client Sample ID: MW-12

Date Collected: 10/22/11 14:41
Date Received: 10/25/11 13:30

Lab Sample ID: AUJ0090-03

Matrix: Water

Method: EPA 8270 mod. - Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**7.08**		0.189		ug/l		10/28/11 10:09	10/28/11 17:25	1.00
2-Methylnaphthalene	**1.27**		0.189		ug/l		10/28/11 10:09	10/28/11 17:25	1.00
1-Methylnapthalene	**0.774**		0.189		ug/l		10/28/11 10:09	10/28/11 17:25	1.00
Acenaphthylene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 17:25	1.00
Acenaphthene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 17:25	1.00
Fluorene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 17:25	1.00
Phenanthrene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 17:25	1.00
Anthracene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 17:25	1.00
Fluoranthene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 17:25	1.00
Pyrene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 17:25	1.00
Benzo (a) anthracene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 17:25	1.00
Chrysene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 17:25	1.00
Benzo (b) fluoranthene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 17:25	1.00
Benzo (k) fluoranthene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 17:25	1.00
Benzo (a) pyrene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 17:25	1.00
Indeno (1,2,3-cd) pyrene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 17:25	1.00
Dibenzo (a,h) anthracene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 17:25	1.00
Benzo (ghi) perylene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 17:25	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*31.4*		*30 - 150*	*10/28/11 10:09*	*10/28/11 17:25*	*1.00*
2-FBP	*69.1*		*21 - 122*	*10/28/11 10:09*	*10/28/11 17:25*	*1.00*
p-Terphenyl-d14	*80.3*		*35 - 150*	*10/28/11 10:09*	*10/28/11 17:25*	*1.00*

Method: AK102/103 - Diesel Range Organics (C10-C25) and Residual Range Organics (C25-C36) per AK102/RRO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics	**0.833**	**Q11**	0.391		mg/l		10/27/11 09:42	10/28/11 18:57	1.00
Residual Range Organics	ND		0.391		mg/l		10/27/11 09:42	10/28/11 18:57	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane	*103*		*50 - 150*	*10/27/11 09:42*	*10/28/11 18:57*	*1.00*
Triacontane	*101*		*50 - 150*	*10/27/11 09:42*	*10/28/11 18:57*	*1.00*

Method: AK101/EPA 8021B - Gasoline Range Organics (C6-C10) and BTEX per AK101

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	**834**		50.0		ug/l		10/26/11 09:48	10/26/11 17:55	1.00
Benzene	**81.5**		0.500		ug/l		10/26/11 09:48	10/26/11 17:55	1.00
Toluene	**23.3**		0.500		ug/l		10/26/11 09:48	10/26/11 17:55	1.00
Ethylbenzene	**35.4**		0.500		ug/l		10/26/11 09:48	10/26/11 17:55	1.00
Xylenes (total)	**236**		1.50		ug/l		10/26/11 09:48	10/26/11 17:55	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-BFB (FID)	*118*		*50 - 150*	*10/26/11 09:48*	*10/26/11 17:55*	*1.00*
4-BFB (PID)	*107*		*50 - 150*	*10/26/11 09:48*	*10/26/11 17:55*	*1.00*
a,a,a-TFT (FID)	*107*		*50 - 150*	*10/26/11 09:48*	*10/26/11 17:55*	*1.00*
a,a,a-TFT (PID)	*99.4*		*50 - 150*	*10/26/11 09:48*	*10/26/11 17:55*	*1.00*

Client Sample Results

Client: ChemTrack
Project/Site: 6083

TestAmerica Job ID: AUJ0090

Client Sample ID: MW-13

Date Collected: 10/22/11 17:02
Date Received: 10/25/11 13:30

Lab Sample ID: AUJ0090-04

Matrix: Water

Method: EPA 8270 mod. - Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.236**		0.189		ug/l		10/28/11 10:09	10/28/11 17:52	1.00
2-Methylnaphthalene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 17:52	1.00
1-Methylnapthalene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 17:52	1.00
Acenaphthylene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 17:52	1.00
Acenaphthene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 17:52	1.00
Fluorene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 17:52	1.00
Phenanthrene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 17:52	1.00
Anthracene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 17:52	1.00
Fluoranthene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 17:52	1.00
Pyrene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 17:52	1.00
Benzo (a) anthracene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 17:52	1.00
Chrysene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 17:52	1.00
Benzo (b) fluoranthene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 17:52	1.00
Benzo (k) fluoranthene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 17:52	1.00
Benzo (a) pyrene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 17:52	1.00
Indeno (1,2,3-cd) pyrene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 17:52	1.00
Dibenzo (a,h) anthracene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 17:52	1.00
Benzo (ghi) perylene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 17:52	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*67.4*		*30 - 150*	*10/28/11 10:09*	*10/28/11 17:52*	*1.00*
2-FBP	*64.8*		*21 - 122*	*10/28/11 10:09*	*10/28/11 17:52*	*1.00*
p-Terphenyl-d14	*72.0*		*35 - 150*	*10/28/11 10:09*	*10/28/11 17:52*	*1.00*

Method: AK102/103 - Diesel Range Organics (C10-C25) and Residual Range Organics (C25-C36) per AK102/RRO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics	**1.96**	**Q11**	0.391		mg/l		10/27/11 09:42	10/28/11 19:30	1.00
Residual Range Organics	ND		0.391		mg/l		10/27/11 09:42	10/28/11 19:30	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane	*93.6*		*50 - 150*	*10/27/11 09:42*	*10/28/11 19:30*	*1.00*
Triacontane	*91.4*		*50 - 150*	*10/27/11 09:42*	*10/28/11 19:30*	*1.00*

Method: AK101/EPA 8021B - Gasoline Range Organics (C6-C10) and BTEX per AK101

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		50.0		ug/l		10/26/11 09:48	10/26/11 18:21	1.00
Benzene	**6.25**		0.500		ug/l		10/26/11 09:48	10/26/11 18:21	1.00
Toluene	**0.586**		0.500		ug/l		10/26/11 09:48	10/26/11 18:21	1.00
Ethylbenzene	**0.963**		0.500		ug/l		10/26/11 09:48	10/26/11 18:21	1.00
Xylenes (total)	**3.99**		1.50		ug/l		10/26/11 09:48	10/26/11 18:21	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-BFB (FID)	*121*		*50 - 150*	*10/26/11 09:48*	*10/26/11 18:21*	*1.00*
4-BFB (PID)	*109*		*50 - 150*	*10/26/11 09:48*	*10/26/11 18:21*	*1.00*
a,a,a-TFT (FID)	*102*		*50 - 150*	*10/26/11 09:48*	*10/26/11 18:21*	*1.00*
a,a,a-TFT (PID)	*95.2*		*50 - 150*	*10/26/11 09:48*	*10/26/11 18:21*	*1.00*

Client Sample Results

Client: ChemTrack
Project/Site: 6083

TestAmerica Job ID: AUJ0090

Client Sample ID: MW-14

Date Collected: 10/22/11 14:49
Date Received: 10/25/11 13:30

Lab Sample ID: AUJ0090-05

Matrix: Water

Method: EPA 8270 mod. - Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 18:18	1.00
2-Methylnaphthalene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 18:18	1.00
1-Methylnapthalene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 18:18	1.00
Acenaphthylene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 18:18	1.00
Acenaphthene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 18:18	1.00
Fluorene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 18:18	1.00
Phenanthrene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 18:18	1.00
Anthracene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 18:18	1.00
Fluoranthene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 18:18	1.00
Pyrene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 18:18	1.00
Benzo (a) anthracene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 18:18	1.00
Chrysene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 18:18	1.00
Benzo (b) fluoranthene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 18:18	1.00
Benzo (k) fluoranthene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 18:18	1.00
Benzo (a) pyrene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 18:18	1.00
Indeno (1,2,3-cd) pyrene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 18:18	1.00
Dibenzo (a,h) anthracene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 18:18	1.00
Benzo (ghi) perylene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 18:18	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*80.8*		*30 - 150*	*10/28/11 10:09*	*10/28/11 18:18*	*1.00*
2-FBP	*72.7*		*21 - 122*	*10/28/11 10:09*	*10/28/11 18:18*	*1.00*
p-Terphenyl-d14	*91.4*		*35 - 150*	*10/28/11 10:09*	*10/28/11 18:18*	*1.00*

Method: AK102/103 - Diesel Range Organics (C10-C25) and Residual Range Organics (C25-C36) per AK102/RRO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics	**0.797**	**Q11**	0.391		mg/l		10/27/11 09:42	10/28/11 20:03	1.00
Residual Range Organics	ND		0.391		mg/l		10/27/11 09:42	10/28/11 20:03	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane	*102*		*50 - 150*	*10/27/11 09:42*	*10/28/11 20:03*	*1.00*
Triacontane	*98.3*		*50 - 150*	*10/27/11 09:42*	*10/28/11 20:03*	*1.00*

Method: AK101/EPA 8021B - Gasoline Range Organics (C6-C10) and BTEX per AK101

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		50.0		ug/l		10/26/11 09:48	10/26/11 18:47	1.00
Benzene	ND		0.500		ug/l		10/26/11 09:48	10/26/11 18:47	1.00
Toluene	ND		0.500		ug/l		10/26/11 09:48	10/26/11 18:47	1.00
Ethylbenzene	ND		0.500		ug/l		10/26/11 09:48	10/26/11 18:47	1.00
Xylenes (total)	ND		1.50		ug/l		10/26/11 09:48	10/26/11 18:47	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-BFB (FID)	*123*		*50 - 150*	*10/26/11 09:48*	*10/26/11 18:47*	*1.00*
4-BFB (PID)	*111*		*50 - 150*	*10/26/11 09:48*	*10/26/11 18:47*	*1.00*
a,a,a-TFT (FID)	*106*		*50 - 150*	*10/26/11 09:48*	*10/26/11 18:47*	*1.00*
a,a,a-TFT (PID)	*98.4*		*50 - 150*	*10/26/11 09:48*	*10/26/11 18:47*	*1.00*

Client Sample Results

Client: ChemTrack
Project/Site: 6083

TestAmerica Job ID: AUJ0090

Client Sample ID: MW-15

Date Collected: 10/22/11 14:28
Date Received: 10/25/11 13:30

Lab Sample ID: AUJ0090-06

Matrix: Water

Method: EPA 8270 mod. - Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**1.67**		0.189		ug/l		10/28/11 10:09	10/28/11 18:45	1.00
2-Methylnaphthalene	**0.962**		0.189		ug/l		10/28/11 10:09	10/28/11 18:45	1.00
1-Methylnapthalene	**1.08**		0.189		ug/l		10/28/11 10:09	10/28/11 18:45	1.00
Acenaphthylene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 18:45	1.00
Acenaphthene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 18:45	1.00
Fluorene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 18:45	1.00
Phenanthrene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 18:45	1.00
Anthracene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 18:45	1.00
Fluoranthene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 18:45	1.00
Pyrene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 18:45	1.00
Benzo (a) anthracene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 18:45	1.00
Chrysene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 18:45	1.00
Benzo (b) fluoranthene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 18:45	1.00
Benzo (k) fluoranthene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 18:45	1.00
Benzo (a) pyrene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 18:45	1.00
Indeno (1,2,3-cd) pyrene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 18:45	1.00
Dibenzo (a,h) anthracene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 18:45	1.00
Benzo (ghi) perylene	ND		0.189		ug/l		10/28/11 10:09	10/28/11 18:45	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*64.6*		*30 - 150*	*10/28/11 10:09*	*10/28/11 18:45*	*1.00*
2-FBP	*53.8*		*21 - 122*	*10/28/11 10:09*	*10/28/11 18:45*	*1.00*
p-Terphenyl-d14	*79.7*		*35 - 150*	*10/28/11 10:09*	*10/28/11 18:45*	*1.00*

Method: AK102/103 - Diesel Range Organics (C10-C25) and Residual Range Organics (C25-C36) per AK102/RRO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics	ND		0.391		mg/l		10/27/11 09:42	10/28/11 20:03	1.00
Residual Range Organics	ND		0.391		mg/l		10/27/11 09:42	10/28/11 20:03	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane	*75.2*		*50 - 150*	*10/27/11 09:42*	*10/28/11 20:03*	*1.00*
Triacontane	*87.7*		*50 - 150*	*10/27/11 09:42*	*10/28/11 20:03*	*1.00*

Method: AK101/EPA 8021B - Gasoline Range Organics (C6-C10) and BTEX per AK101

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		50.0		ug/l		10/26/11 09:48	10/26/11 19:13	1.00
Benzene	**0.710**		0.500		ug/l		10/26/11 09:48	10/26/11 19:13	1.00
Toluene	**3.31**		0.500		ug/l		10/26/11 09:48	10/26/11 19:13	1.00
Ethylbenzene	ND		0.500		ug/l		10/26/11 09:48	10/26/11 19:13	1.00
Xylenes (total)	**2.52**		1.50		ug/l		10/26/11 09:48	10/26/11 19:13	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-BFB (FID)	*123*		*50 - 150*	*10/26/11 09:48*	*10/26/11 19:13*	*1.00*
4-BFB (PID)	*111*		*50 - 150*	*10/26/11 09:48*	*10/26/11 19:13*	*1.00*
a,a,a-TFT (FID)	*111*		*50 - 150*	*10/26/11 09:48*	*10/26/11 19:13*	*1.00*
a,a,a-TFT (PID)	*102*		*50 - 150*	*10/26/11 09:48*	*10/26/11 19:13*	*1.00*

Client Sample Results

Client: ChemTrack
Project/Site: 6083

TestAmerica Job ID: AUJ0090

Client Sample ID: MW-110

Lab Sample ID: AUJ0090-07

Date Collected: 10/22/11 14:34
Matrix: Water
Date Received: 10/25/11 13:30

Method: AK102/103 - Diesel Range Organics (C10-C25) and Residual Range Organics (C25-C36) per AK102/RRO

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics	**0.550**	**Q11**	0.391		mg/l		10/27/11 09:42	11/01/11 15:27	1.00
Residual Range Organics	ND		0.391		mg/l		10/27/11 09:42	11/01/11 15:27	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane	*98.3*		*50 - 150*	*10/27/11 09:42*	*11/01/11 15:27*	*1.00*
Triacontane	*96.2*		*50 - 150*	*10/27/11 09:42*	*11/01/11 15:27*	*1.00*

Client Sample ID: Trip Blank

Lab Sample ID: AUJ0090-08

Date Collected: 10/22/11 00:00
Matrix: Water
Date Received: 10/25/11 13:30

Method: AK101/EPA 8021B - Gasoline Range Organics (C6-C10) and BTEX per AK101

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		50.0		ug/l		10/26/11 09:48	10/26/11 13:12	1.00
Benzene	ND		0.500		ug/l		10/26/11 09:48	10/26/11 13:12	1.00
Toluene	ND		0.500		ug/l		10/26/11 09:48	10/26/11 13:12	1.00
Ethylbenzene	ND		0.500		ug/l		10/26/11 09:48	10/26/11 13:12	1.00
Xylenes (total)	ND		1.50		ug/l		10/26/11 09:48	10/26/11 13:12	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-BFB (FID)	*112*		*50 - 150*	*10/26/11 09:48*	*10/26/11 13:12*	*1.00*
4-BFB (PID)	*101*		*50 - 150*	*10/26/11 09:48*	*10/26/11 13:12*	*1.00*
a,a,a-TFT (FID)	*116*		*50 - 150*	*10/26/11 09:48*	*10/26/11 13:12*	*1.00*
a,a,a-TFT (PID)	*107*		*50 - 150*	*10/26/11 09:48*	*10/26/11 13:12*	*1.00*

Surrogate Summary

Client: ChemTrack
Project/Site: 6083

TestAmerica Job ID: AUJ0090

Method: EPA 8270 mod. - Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

Matrix: Water **Prep Type: Total**

		Percent Surrogate Recovery (Acceptance Limits)		
		NBZ	2-FBP	TPH
Lab Sample ID	Client Sample ID	(30-150)	(21-122)	(35-150)
11J0245-BLK1	Method Blank	86.1	77.8	96.7
11J0245-BS1	Lab Control Sample	81.4	75.0	81.1
11J0245-BSD1	Lab Control Sample Dup	93.4	84.2	87.4
AUJ0090-01	MW-10	78.9	71.1	81.6
AUJ0090-02	MW-11	77.6	70.6	82.3
AUJ0090-03	MW-12	31.4	69.1	80.3
AUJ0090-04	MW-13	67.4	64.8	72.0
AUJ0090-05	MW-14	80.8	72.7	91.4
AUJ0090-06	MW-15	64.6	53.8	79.7

Surrogate Legend

NBZ = Nitrobenzene-d5

2-FBP = 2-FBP

TPH = p-Terphenyl-d14

Method: AK102/103 - Diesel Range Organics (C10-C25) and Residual Range Organics (C25-C36) per AK102/RRO

Matrix: Water **Prep Type: Total**

		Percent Surrogate Recovery (Acceptance Limits)	
		1COD	TC
Lab Sample ID	Client Sample ID	(50-150)	(50-150)
11J0121-BLK1	Method Blank	100	98.0
11J0121-DUP1	MW-10	101	98.7
AUJ0090-01	MW-10	102	99.7
AUJ0090-02	MW-11	97.3	94.0
AUJ0090-03	MW-12	103	101
AUJ0090-04	MW-13	93.6	91.4
AUJ0090-05	MW-14	102	98.3
AUJ0090-06	MW-15	75.2	87.7
AUJ0090-07	MW-110	98.3	96.2

Surrogate Legend

1COD = 1-Chlorooctadecane

TC = Triacontane

Method: AK102/103 - Diesel Range Organics (C10-C25) and Residual Range Organics (C25-C36) per AK102/RRO

Matrix: Water **Prep Type: Total**

		Percent Surrogate Recovery (Acceptance Limits)	
		1COD	TC
Lab Sample ID	Client Sample ID	(60-120)	(60-120)
11J0121-BS1	Lab Control Sample	112	101
11J0121-BSD1	Lab Control Sample Dup	109	97.0

Surrogate Legend

1COD = 1-Chlorooctadecane

TC = Triacontane

Surrogate Summary

Client: ChemTrack
Project/Site: 6083

TestAmerica Job ID: AUJ0090

Method: AK101/EPA 8021B - Gasoline Range Organics (C6-C10) and BTEX per AK101

Matrix: Water **Prep Type: Total**

		Percent Surrogate Recovery (Acceptance Limits)			
		4-BFB (FID)	4-BFB (PID)	TFT(FID)	a,a-TFT (PI
Lab Sample ID	Client Sample ID	(50-150)	(50-150)	(50-150)	(50-150)
11J0117-BLK1	Method Blank	116	106	112	103
11J0117-DUP1	Duplicate	116	105	113	104
AUJ0090-01	MW-10	101	92.2	101	94.2
AUJ0090-02	MW-11	102	94.7	88.9	83.4
AUJ0090-03	MW-12	118	107	107	99.4
AUJ0090-04	MW-13	121	109	102	95.2
AUJ0090-05	MW-14	123	111	106	98.4
AUJ0090-06	MW-15	123	111	111	102
AUJ0090-08	Trip Blank	112	101	116	107

Surrogate Legend

4-BFB (FID) = 4-BFB (FID)
4-BFB (PID) = 4-BFB (PID)
TFT(FID) = a,a,a-TFT (FID)
a,a,a-TFT (PID) = a,a,a-TFT (PID)

Method: AK101/EPA 8021B - Gasoline Range Organics (C6-C10) and BTEX per AK101

Matrix: Water **Prep Type: Total**

		Percent Surrogate Recovery (Acceptance Limits)	
		4-BFB (PID)	a,a-TFT (PI
Lab Sample ID	Client Sample ID	(60-120)	(60-120)
11J0117-BS1	Lab Control Sample	92.7	87.9
11J0117-BSD1	Lab Control Sample Dup	102	93.3

Surrogate Legend

4-BFB (PID) = 4-BFB (PID)
a,a,a-TFT (PID) = a,a,a-TFT (PID)

Method: AK101/EPA 8021B - Gasoline Range Organics (C6-C10) and BTEX per AK101

Matrix: Water **Prep Type: Total**

		Percent Surrogate Recovery (Acceptance Limits)	
		4-BFB (FID)	TFT(FID)
Lab Sample ID	Client Sample ID	(60-120)	(60-120)
11J0117-BS2	Lab Control Sample	111	114
11J0117-BSD2	Lab Control Sample Dup	101	106

Surrogate Legend

4-BFB (FID) = 4-BFB (FID)
TFT(FID) = a,a,a-TFT (FID)

Method: EPA 8270 mod. - Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

Lab Sample ID: 11J0245-BLK1 | **Client Sample ID: Method Blank**
Matrix: Water | **Prep Type: Total**
Analysis Batch: 11J0245 | **Prep Batch: 11J0245_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.100		ug/l		10/28/11 10:09	10/28/11 13:54	1.00
2-Methylnaphthalene	ND		0.100		ug/l		10/28/11 10:09	10/28/11 13:54	1.00
1-Methylnapthalene	ND		0.100		ug/l		10/28/11 10:09	10/28/11 13:54	1.00
Acenaphthylene	ND		0.100		ug/l		10/28/11 10:09	10/28/11 13:54	1.00
Acenaphthene	ND		0.100		ug/l		10/28/11 10:09	10/28/11 13:54	1.00
Fluorene	ND		0.100		ug/l		10/28/11 10:09	10/28/11 13:54	1.00
Phenanthrene	ND		0.100		ug/l		10/28/11 10:09	10/28/11 13:54	1.00
Anthracene	ND		0.100		ug/l		10/28/11 10:09	10/28/11 13:54	1.00
Fluoranthene	ND		0.100		ug/l		10/28/11 10:09	10/28/11 13:54	1.00
Pyrene	ND		0.100		ug/l		10/28/11 10:09	10/28/11 13:54	1.00
Benzo (a) anthracene	ND		0.100		ug/l		10/28/11 10:09	10/28/11 13:54	1.00
Chrysene	ND		0.100		ug/l		10/28/11 10:09	10/28/11 13:54	1.00
Benzo (b) fluoranthene	ND		0.100		ug/l		10/28/11 10:09	10/28/11 13:54	1.00
Benzo (k) fluoranthene	ND		0.100		ug/l		10/28/11 10:09	10/28/11 13:54	1.00
Benzo (a) pyrene	ND		0.100		ug/l		10/28/11 10:09	10/28/11 13:54	1.00
Indeno (1,2,3-cd) pyrene	ND		0.100		ug/l		10/28/11 10:09	10/28/11 13:54	1.00
Dibenzo (a,h) anthracene	ND		0.100		ug/l		10/28/11 10:09	10/28/11 13:54	1.00
Benzo (ghi) perylene	ND		0.100		ug/l		10/28/11 10:09	10/28/11 13:54	1.00

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*86.1*		*30 - 150*	*10/28/11 10:09*	*10/28/11 13:54*	*1.00*
2-FBP	*77.8*		*21 - 122*	*10/28/11 10:09*	*10/28/11 13:54*	*1.00*
p-Terphenyl-d14	*96.7*		*35 - 150*	*10/28/11 10:09*	*10/28/11 13:54*	*1.00*

Lab Sample ID: 11J0245-BS1 | **Client Sample ID: Lab Control Sample**
Matrix: Water | **Prep Type: Total**
Analysis Batch: 11J0245 | **Prep Batch: 11J0245_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	2.00	1.41		ug/l		70.5	40 - 130
Fluorene	2.00	1.58		ug/l		79.0	40 - 120
Chrysene	2.00	1.67		ug/l		83.5	40 - 120
Indeno (1,2,3-cd) pyrene	2.00	1.64		ug/l		82.2	40 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5	*81.4*		*30 - 150*
2-FBP	*75.0*		*21 - 122*
p-Terphenyl-d14	*81.1*		*35 - 150*

Lab Sample ID: 11J0245-BSD1 | **Client Sample ID: Lab Control Sample Dup**
Matrix: Water | **Prep Type: Total**
Analysis Batch: 11J0245 | **Prep Batch: 11J0245_P**

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	2.00	1.62		ug/l		80.8	40 - 130	13.6	30
Fluorene	2.00	1.76		ug/l		87.8	40 - 120	10.5	30
Chrysene	2.00	1.85		ug/l		92.5	40 - 120	10.2	30
Indeno (1,2,3-cd) pyrene	2.00	2.08		ug/l		104	40 - 120	23.6	30

Method: EPA 8270 mod. - Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring (Continued)

Lab Sample ID: 11J0245-BSD1 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total**
Analysis Batch: 11J0245 — **Prep Batch: 11J0245_P**

Surrogate	LCS Dup %Recovery	LCS Dup Qualifier	Limits
Nitrobenzene-d5	93.4		30 - 150
2-FBP	84.2		21 - 122
p-Terphenyl-d14	87.4		35 - 150

Method: AK102/103 - Diesel Range Organics (C10-C25) and Residual Range Organics (C25-C36) per AK102/RRO

Lab Sample ID: 11J0121-BLK1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total**
Analysis Batch: U000900 — **Prep Batch: 11J0121_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics	ND		0.500		mg/l		10/27/11 09:42	10/28/11 16:45	1.00
Residual Range Organics	ND		0.500		mg/l		10/27/11 09:42	10/28/11 16:45	1.00

Surrogate	Blank %Recovery	Blank Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	100		50 - 150	10/27/11 09:42	10/28/11 16:45	1.00
Triacontane	98.0		50 - 150	10/27/11 09:42	10/28/11 16:45	1.00

Lab Sample ID: 11J0121-BS1 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total**
Analysis Batch: U000900 — **Prep Batch: 11J0121_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics	10.1	9.24		mg/l		91.4	75 - 125
Residual Range Organics	10.1	8.45		mg/l		83.7	60 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctadecane	112		60 - 120
Triacontane	101		60 - 120

Lab Sample ID: 11J0121-BSD1 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total**
Analysis Batch: U000900 — **Prep Batch: 11J0121_P**

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics	10.1	8.84		mg/l		87.5	75 - 125	4.37	20
Residual Range Organics	10.1	7.98		mg/l		79.0	60 - 120	5.82	20

Surrogate	LCS Dup %Recovery	LCS Dup Qualifier	Limits
1-Chlorooctadecane	109		60 - 120
Triacontane	97.0		60 - 120

Method: AK102/103 - Diesel Range Organics (C10-C25) and Residual Range Organics (C25-C36) per AK102/RRO (Continued)

Lab Sample ID: 11J0121-DUP1 — **Client Sample ID: MW-10**
Matrix: Water — **Prep Type: Total**
Analysis Batch: U000900 — **Prep Batch: 11J0121_P**

Analyte	Sample Result	Sample Qualifier		Duplicate Result	Duplicate Qualifier	Unit	D			RPD	RPD Limit
Diesel Range Organics	0.287			0.377	R4	mg/l				27.1	20
Residual Range Organics	ND			ND		mg/l					50

Surrogate	*Duplicate %Recovery*	*Duplicate Qualifier*	*Limits*
1-Chlorooctadecane	*101*		*50 - 150*
Triacontane	*98.7*		*50 - 150*

Method: AK101/EPA 8021B - Gasoline Range Organics (C6-C10) and BTEX per AK101

Lab Sample ID: 11J0117-BLK1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total**
Analysis Batch: U000894 — **Prep Batch: 11J0117_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		50.0		ug/l		10/26/11 09:48	10/26/11 10:10	1.00
Benzene	ND		0.500		ug/l		10/26/11 09:48	10/26/11 10:10	1.00
Toluene	ND		0.500		ug/l		10/26/11 09:48	10/26/11 10:10	1.00
Ethylbenzene	ND		0.500		ug/l		10/26/11 09:48	10/26/11 10:10	1.00
Xylenes (total)	ND		1.50		ug/l		10/26/11 09:48	10/26/11 10:10	1.00

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-BFB (FID)	*116*		*50 - 150*	*10/26/11 09:48*	*10/26/11 10:10*	*1.00*
4-BFB (PID)	*106*		*50 - 150*	*10/26/11 09:48*	*10/26/11 10:10*	*1.00*
a,a,a-TFT (FID)	*112*		*50 - 150*	*10/26/11 09:48*	*10/26/11 10:10*	*1.00*
a,a,a-TFT (PID)	*103*		*50 - 150*	*10/26/11 09:48*	*10/26/11 10:10*	*1.00*

Lab Sample ID: 11J0117-BS1 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total**
Analysis Batch: U000894 — **Prep Batch: 11J0117_P**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			20.0	19.4		ug/l		97.0	70 - 130		
Toluene			20.0	18.0		ug/l		90.2	70 - 130		
Ethylbenzene			20.0	18.6		ug/l		93.0	70 - 130		
Xylenes (total)			60.0	56.5		ug/l		94.1	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-BFB (PID)	*92.7*		*60 - 120*
a,a,a-TFT (PID)	*87.9*		*60 - 120*

Lab Sample ID: 11J0117-BS2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total**
Analysis Batch: U000894 — **Prep Batch: 11J0117_P**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics			500	464		ug/l		92.8	60 - 120		

Method: AK101/EPA 8021B - Gasoline Range Organics (C6-C10) and BTEX per AK101 (Continued)

Lab Sample ID: 11J0117-BS2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total**
Analysis Batch: U000894 — **Prep Batch: 11J0117_P**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-BFB (FID)	111		60 - 120
a,a,a-TFT (FID)	114		60 - 120

Lab Sample ID: 11J0117-BSD1 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total**
Analysis Batch: U000894 — **Prep Batch: 11J0117_P**

Analyte			Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			20.0	19.6		ug/l		98.1	70 - 130	1.14	20
Toluene			20.0	18.1		ug/l		90.7	70 - 130	0.564	20
Ethylbenzene			20.0	18.7		ug/l		93.5	70 - 130	0.493	20
Xylenes (total)			60.0	57.0		ug/l		95.0	70 - 130	0.932	20

Surrogate	LCS Dup %Recovery	LCS Dup Qualifier	Limits
4-BFB (PID)	102		60 - 120
a,a,a-TFT (PID)	93.3		60 - 120

Lab Sample ID: 11J0117-BSD2 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total**
Analysis Batch: U000894 — **Prep Batch: 11J0117_P**

Analyte			Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics			500	482		ug/l		96.3	60 - 120	3.75	20

Surrogate	LCS Dup %Recovery	LCS Dup Qualifier	Limits
4-BFB (FID)	101		60 - 120
a,a,a-TFT (FID)	106		60 - 120

Lab Sample ID: 11J0117-DUP1 — **Client Sample ID: Duplicate**
Matrix: Water — **Prep Type: Total**
Analysis Batch: U000894 — **Prep Batch: 11J0117_P**

Analyte	Sample Result	Sample Qualifier		Duplicate Result	Duplicate Qualifier	Unit	D			RPD	RPD Limit
Gasoline Range Organics	ND			ND		ug/l					20
Benzene	ND			ND		ug/l					20
Toluene	ND			ND		ug/l					20
Ethylbenzene	ND			ND		ug/l					20
Xylenes (total)	ND			ND		ug/l					20

Surrogate	Duplicate %Recovery	Duplicate Qualifier	Limits
4-BFB (FID)	116		50 - 150
4-BFB (PID)	105		50 - 150
a,a,a-TFT (FID)	113		50 - 150
a,a,a-TFT (PID)	104		50 - 150

QC Association Summary

Client: ChemTrack
Project/Site: 6083

TestAmerica Job ID: AUJ0090

Semivolatiles

Analysis Batch: 11J0245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11J0245-BLK1	Method Blank	Total	Water	EPA 8270 mod.	11J0245_P
11J0245-BS1	Lab Control Sample	Total	Water	EPA 8270 mod.	11J0245_P
11J0245-BSD1	Lab Control Sample Dup	Total	Water	EPA 8270 mod.	11J0245_P
AUJ0090-01	MW-10	Total	Water	EPA 8270 mod.	11J0245_P
AUJ0090-02	MW-11	Total	Water	EPA 8270 mod.	11J0245_P
AUJ0090-03	MW-12	Total	Water	EPA 8270 mod.	11J0245_P
AUJ0090-04	MW-13	Total	Water	EPA 8270 mod.	11J0245_P
AUJ0090-05	MW-14	Total	Water	EPA 8270 mod.	11J0245_P
AUJ0090-06	MW-15	Total	Water	EPA 8270 mod.	11J0245_P

Prep Batch: 11J0245_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11J0245-BLK1	Method Blank	Total	Water	EPA 3510/600 Series	
11J0245-BS1	Lab Control Sample	Total	Water	EPA 3510/600 Series	
11J0245-BSD1	Lab Control Sample Dup	Total	Water	EPA 3510/600 Series	
AUJ0090-01	MW-10	Total	Water	EPA 3510/600 Series	
AUJ0090-02	MW-11	Total	Water	EPA 3510/600 Series	
AUJ0090-03	MW-12	Total	Water	EPA 3510/600 Series	
AUJ0090-04	MW-13	Total	Water	EPA 3510/600 Series	
AUJ0090-05	MW-14	Total	Water	EPA 3510/600 Series	
AUJ0090-06	MW-15	Total	Water	EPA 3510/600 Series	

Fuels

Analysis Batch: U000900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11J0121-BLK1	Method Blank	Total	Water	AK102/103	11J0121_P
11J0121-BS1	Lab Control Sample	Total	Water	AK102/103	11J0121_P
11J0121-BSD1	Lab Control Sample Dup	Total	Water	AK102/103	11J0121_P
11J0121-DUP1	MW-10	Total	Water	AK102/103	11J0121_P
AUJ0090-01	MW-10	Total	Water	AK102/103	11J0121_P
AUJ0090-02	MW-11	Total	Water	AK102/103	11J0121_P
AUJ0090-03	MW-12	Total	Water	AK102/103	11J0121_P
AUJ0090-04	MW-13	Total	Water	AK102/103	11J0121_P
AUJ0090-05	MW-14	Total	Water	AK102/103	11J0121_P

Analysis Batch: U000901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
AUJ0090-06	MW-15	Total	Water	AK102/103	11J0121_P

Analysis Batch: U000912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
AUJ0090-07	MW-110	Total	Water	AK102/103	11J0121_P

Fuels (Continued)

Prep Batch: 11J0121_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11J0121-BLK1	Method Blank	Total	Water	EPA 3510	
11J0121-BS1	Lab Control Sample	Total	Water	EPA 3510	
11J0121-BSD1	Lab Control Sample Dup	Total	Water	EPA 3510	
11J0121-DUP1	MW-10	Total	Water	EPA 3510	
AUJ0090-01	MW-10	Total	Water	EPA 3510	
AUJ0090-02	MW-11	Total	Water	EPA 3510	
AUJ0090-03	MW-12	Total	Water	EPA 3510	
AUJ0090-04	MW-13	Total	Water	EPA 3510	
AUJ0090-05	MW-14	Total	Water	EPA 3510	
AUJ0090-06	MW-15	Total	Water	EPA 3510	
AUJ0090-07	MW-110	Total	Water	EPA 3510	

GC Volatiles

Analysis Batch: U000894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11J0117-BLK1	Method Blank	Total	Water	AK101/EPA 8021B	11J0117_P
11J0117-BS1	Lab Control Sample	Total	Water	AK101/EPA 8021B	11J0117_P
11J0117-BS2	Lab Control Sample	Total	Water	AK101/EPA 8021B	11J0117_P
11J0117-BSD1	Lab Control Sample Dup	Total	Water	AK101/EPA 8021B	11J0117_P
11J0117-BSD2	Lab Control Sample Dup	Total	Water	AK101/EPA 8021B	11J0117_P
11J0117-DUP1	Duplicate	Total	Water	AK101/EPA 8021B	11J0117_P
AUJ0090-01	MW-10	Total	Water	AK101/EPA 8021B	11J0117_P
AUJ0090-02	MW-11	Total	Water	AK101/EPA 8021B	11J0117_P
AUJ0090-03	MW-12	Total	Water	AK101/EPA 8021B	11J0117_P
AUJ0090-04	MW-13	Total	Water	AK101/EPA 8021B	11J0117_P
AUJ0090-05	MW-14	Total	Water	AK101/EPA 8021B	11J0117_P
AUJ0090-06	MW-15	Total	Water	AK101/EPA 8021B	11J0117_P
AUJ0090-08	Trip Blank	Total	Water	AK101/EPA 8021B	11J0117_P

Prep Batch: 11J0117_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11J0117-BLK1	Method Blank	Total	Water	EPA 5030B	
11J0117-BS1	Lab Control Sample	Total	Water	EPA 5030B	
11J0117-BS2	Lab Control Sample	Total	Water	EPA 5030B	
11J0117-BSD1	Lab Control Sample Dup	Total	Water	EPA 5030B	
11J0117-BSD2	Lab Control Sample Dup	Total	Water	EPA 5030B	
11J0117-DUP1	Duplicate	Total	Water	EPA 5030B	
AUJ0090-01	MW-10	Total	Water	EPA 5030B	
AUJ0090-02	MW-11	Total	Water	EPA 5030B	
AUJ0090-03	MW-12	Total	Water	EPA 5030B	
AUJ0090-04	MW-13	Total	Water	EPA 5030B	

QC Association Summary

Client: ChemTrack
Project/Site: 6083

TestAmerica Job ID: AUJ0090

GC Volatiles (Continued)

Prep Batch: 11J0117_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
AUJ0090-05	MW-14	Total	Water	EPA 5030B	
AUJ0090-06	MW-15	Total	Water	EPA 5030B	
AUJ0090-08	Trip Blank	Total	Water	EPA 5030B	

Lab Chronicle

Client: ChemTrack
Project/Site: 6083

TestAmerica Job ID: AUJ0090

Client Sample ID: MW-10 — Lab Sample ID: AUJ0090-01

Date Collected: 10/22/11 16:49
Matrix: Water
Date Received: 10/25/11 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 3510/600 Series		1.89	11J0245_P	10/28/11 10:09	MS	TAL SPK
Total	Analysis	EPA 8270 mod.		1.00	11J0245	10/28/11 16:32	MS	TAL SPK
Total	Prep	EPA 3510		0.781	11J0121_P	10/27/11 09:42	PC	TAL ANC
Total	Analysis	AK102/103		1.00	U000900	10/28/11 17:51	DEB	TAL ANC
Total	Prep	EPA 5030B		1.00	11J0117_P	10/26/11 09:48	JMG	TAL ANC
Total	Analysis	AK101/EPA 8021B		1.00	U000894	10/26/11 17:04	JMG	TAL ANC

Client Sample ID: MW-11 — Lab Sample ID: AUJ0090-02

Date Collected: 10/22/11 16:54
Matrix: Water
Date Received: 10/25/11 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 3510/600 Series		1.89	11J0245_P	10/28/11 10:09	MS	TAL SPK
Total	Analysis	EPA 8270 mod.		1.00	11J0245	10/28/11 16:59	MS	TAL SPK
Total	Prep	EPA 3510		0.781	11J0121_P	10/27/11 09:42	PC	TAL ANC
Total	Analysis	AK102/103		1.00	U000900	10/28/11 18:24	DEB	TAL ANC
Total	Prep	EPA 5030B		1.00	11J0117_P	10/26/11 09:48	JMG	TAL ANC
Total	Analysis	AK101/EPA 8021B		1.00	U000894	10/26/11 17:30	JMG	TAL ANC

Client Sample ID: MW-12 — Lab Sample ID: AUJ0090-03

Date Collected: 10/22/11 14:41
Matrix: Water
Date Received: 10/25/11 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 3510/600 Series		1.89	11J0245_P	10/28/11 10:09	MS	TAL SPK
Total	Analysis	EPA 8270 mod.		1.00	11J0245	10/28/11 17:25	MS	TAL SPK
Total	Prep	EPA 3510		0.781	11J0121_P	10/27/11 09:42	PC	TAL ANC
Total	Analysis	AK102/103		1.00	U000900	10/28/11 18:57	DEB	TAL ANC
Total	Prep	EPA 5030B		1.00	11J0117_P	10/26/11 09:48	JMG	TAL ANC
Total	Analysis	AK101/EPA 8021B		1.00	U000894	10/26/11 17:55	JMG	TAL ANC

Client Sample ID: MW-13 — Lab Sample ID: AUJ0090-04

Date Collected: 10/22/11 17:02
Matrix: Water
Date Received: 10/25/11 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 3510/600 Series		1.89	11J0245_P	10/28/11 10:09	MS	TAL SPK
Total	Analysis	EPA 8270 mod.		1.00	11J0245	10/28/11 17:52	MS	TAL SPK
Total	Prep	EPA 3510		0.781	11J0121_P	10/27/11 09:42	PC	TAL ANC
Total	Analysis	AK102/103		1.00	U000900	10/28/11 19:30	DEB	TAL ANC
Total	Prep	EPA 5030B		1.00	11J0117_P	10/26/11 09:48	JMG	TAL ANC
Total	Analysis	AK101/EPA 8021B		1.00	U000894	10/26/11 18:21	JMG	TAL ANC

Lab Chronicle

Client: ChemTrack
Project/Site: 6083

TestAmerica Job ID: AUJ0090

Client Sample ID: MW-14 — Lab Sample ID: AUJ0090-05

Date Collected: 10/22/11 14:49 — **Matrix: Water**
Date Received: 10/25/11 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 3510/600 Series		1.89	11J0245_P	10/28/11 10:09	MS	TAL SPK
Total	Analysis	EPA 8270 mod.		1.00	11J0245	10/28/11 18:18	MS	TAL SPK
Total	Prep	EPA 3510		0.781	11J0121_P	10/27/11 09:42	PC	TAL ANC
Total	Analysis	AK102/103		1.00	U000900	10/28/11 20:03	DEB	TAL ANC
Total	Prep	EPA 5030B		1.00	11J0117_P	10/26/11 09:48	JMG	TAL ANC
Total	Analysis	AK101/EPA 8021B		1.00	U000894	10/26/11 18:47	JMG	TAL ANC

Client Sample ID: MW-15 — Lab Sample ID: AUJ0090-06

Date Collected: 10/22/11 14:28 — **Matrix: Water**
Date Received: 10/25/11 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 3510/600 Series		1.89	11J0245_P	10/28/11 10:09	MS	TAL SPK
Total	Analysis	EPA 8270 mod.		1.00	11J0245	10/28/11 18:45	MS	TAL SPK
Total	Prep	EPA 3510		0.781	11J0121_P	10/27/11 09:42	PC	TAL ANC
Total	Analysis	AK102/103		1.00	U000901	10/28/11 20:03	DEB	TAL ANC
Total	Prep	EPA 5030B		1.00	11J0117_P	10/26/11 09:48	JMG	TAL ANC
Total	Analysis	AK101/EPA 8021B		1.00	U000894	10/26/11 19:13	JMG	TAL ANC

Client Sample ID: MW-110 — Lab Sample ID: AUJ0090-07

Date Collected: 10/22/11 14:34 — **Matrix: Water**
Date Received: 10/25/11 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 3510		0.781	11J0121_P	10/27/11 09:42	PC	TAL ANC
Total	Analysis	AK102/103		1.00	U000912	11/01/11 15:27	DEB	TAL ANC

Client Sample ID: Trip Blank — Lab Sample ID: AUJ0090-08

Date Collected: 10/22/11 00:00 — **Matrix: Water**
Date Received: 10/25/11 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 5030B		1.00	11J0117_P	10/26/11 09:48	JMG	TAL ANC
Total	Analysis	AK101/EPA 8021B		1.00	U000894	10/26/11 13:12	JMG	TAL ANC

Laboratory References:

TAL ANC = TestAmerica Anchorage, 2000 West International Airport Road Suite A10, Anchorage, AK 99502-1119, TEL (907) 563-9200

TAL SPK = TestAmerica Spokane, 11922 E. 1st Ave., Spokane, WA/USA 99206, TEL (509) 924-9200

Certification Summary

Client: ChemTrack
Project/Site: 6083

TestAmerica Job ID: AUJ0090

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Anchorage	Alaska	Alaska UST	10	UST-067
TestAmerica Anchorage	Alaska	State Program	10	AK00975
TestAmerica Spokane	Alaska	Alaska UST	10	UST-071
TestAmerica Spokane	Washington	State Program	10	C569

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.

Method Summary

Client: ChemTrack
Project/Site: 6083

TestAmerica Job ID: AUJ0090

Method	Method Description	Protocol	Laboratory
EPA 8270 mod.	Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring		TAL SPK
AK102/103	Diesel Range Organics (C10-C25) and Residual Range Organics (C25-C36) per AK102/RRO		TAL ANC
AK101/EPA 8021B	Gasoline Range Organics (C6-C10) and BTEX per AK101		TAL ANC

Protocol References:

Laboratory References:

TAL ANC = TestAmerica Anchorage, 2000 West International Airport Road Suite A10, Anchorage, AK 99502-1119, TEL (907) 563-9200

TAL SPK = TestAmerica Spokane, 11922 E. 1st Ave., Spokane, WA/USA 99206, TEL (509) 924-9200

Sample Summary

Client: ChemTrack
Project/Site: 6083

TestAmerica Job ID: AUJ0090

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
AUJ0090-01	MW-10	Water	10/22/11 16:49	10/25/11 13:30
AUJ0090-02	MW-11	Water	10/22/11 16:54	10/25/11 13:30
AUJ0090-03	MW-12	Water	10/22/11 14:41	10/25/11 13:30
AUJ0090-04	MW-13	Water	10/22/11 17:02	10/25/11 13:30
AUJ0090-05	MW-14	Water	10/22/11 14:49	10/25/11 13:30
AUJ0090-06	MW-15	Water	10/22/11 14:28	10/25/11 13:30
AUJ0090-07	MW-110	Water	10/22/11 14:34	10/25/11 13:30
AUJ0090-08	Trip Blank	Water	10/22/11 00:00	10/25/11 13:30

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244 425-420-9200 FAX 420-9210
11922 E. First Ave, Spokane, WA 99206-5302 509-924-9200 FAX 924-9290
9405 SW Nimbus Ave,Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210
2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: AUJ0090

CLIENT: ChemTrack Alaska, Inc

REPORT TO: 11711 S. Gambell St
ADDRESS: Anchorage, AK 99515

PHONE: 244-0581 FAX: email: info@chemtrack.net

PROJECT NAME: DW-Haines

PROJECT NUMBER: 6083

SAMPLED BY: Sig Jokiel

INVOICE TO: ChemTrack Alaska, Inc

P.O. NUMBER:

TURNAROUND REQUEST in Business Days *

Organic & Inorganic Analyses: 10 (STD) 7 5 4 3 2 1 <1

Petroleum Hydrocarbon Analyses: 5 (STD) 4 3 2 1 <1

OTHER Specify:

* Turnaround Requests less than standard may incur Rush Charges.

PRESERVATIVE: METH

REQUESTED ANALYSES: GRO BTEX, DRO/RRO, PAH

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	GRO BTEX	DRO/RRO	PAH	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1	MW-10	10/22/11 @ 16:49	✓	✓	✓	W			01
2	MW-11	10/22/11 @ 16:54	✓	✓	✓	↓			02
3	MW-12	10/22/11 @ 14:41	✓	✓	✓	↓			03
4	MW-13	10/22/11 @ 17:02	✓	✓	✓	↓			04
5	MW-14	10/22/11 @ 14:49	✓	✓	✓	↓			05
6	MW-15	10/22/11 @ 14:28	✓	✓	✓	↓			06
7	MW-110	10/22/11 14:34	✓	✓	✓	↓			07
8	Trip Blank	10/22/11	✓			↓			08
9									
10									

RELEASED BY: Renee Merchant	DATE: 10.25.11	RECEIVED BY: Jonathan Boosselaire	DATE: 10/25/11
PRINT NAME: Renee Merchant FIRM: ChemTrack	TIME: 13:30	PRINT NAME: FIRM: TAI	TIME: 13:30
RELEASED BY:	DATE:	RECEIVED BY:	DATE:
PRINT NAME: FIRM:	TIME:	PRINT NAME: FIRM:	TIME:

ADDITIONAL REMARKS:

TEMP: 5.2

PAGE 1 OF 1

TAL-1000(0408)

Test America Cooler Receipt Form

(Army Corps. Compliant)

WORK ORDER # AUJ0090 **CLIENT:** ChemTrack **PROJECT:** DW - Haines

Date /Time Cooler Arrived 10 / 25 / 11 13 : 30 Cooler signed for by: Johathan Bougselaire (Print name)

Preliminary Examination Phase:

Date cooler opened: [X] same as date received *or* ___/___/___

Cooler opened by (print) John (sign) _____

1. Delivered by [ ] ALASKA AIRLINES [ ] Fed-Ex [ ] UPS [ ] NAC [ ] LYNDEN [X] CLIENT [ ] Other: ____

   Shipment Tracking # if applicable _____ (include copy of shipping papers in file)

2. Number of Custody Seals 0 Signed by _____ Date ___/___/___

   Were custody seals unbroken and intact on arrival? [ ] Yes [ ] No

3. Were custody papers sealed in a plastic bag? [ ] Yes [X] No

4. Were custody papers filled out properly (ink, signed, etc.)? [X] Yes [ ] No

5. Did you sign the custody papers in the appropriate place? [X] Yes [ ] No

6. Was ice used? [X] Yes [ ] No Type of ice: [ ] blue ice [X] gel ice [ ] real ice [ ] dry ice Condition of Ice: soft

   Temperature 5.2 °C **(corrected)** Thermometer # 5

7. Packing in Cooler: [ ] bubble wrap [ ] styrofoam [X] cardboard [ ] Other: _____

8. Did samples arrive in plastic bags? [ ] Yes [X] No

9. Did all bottles arrive unbroken, and with labels in good condition? [X] Yes [ ] No

10. Are all bottle labels complete (ID, date, time, etc.) [X] Yes [ ] No

11. Do bottle labels and Chain of Custody agree? [X] Yes [ ] No

12. Are the containers and preservatives correct for the tests indicated? [X] Yes [ ] No

13. Conoco Phillips, Alyeska, BP H2O samples only, pH <2? [ ] Yes [ ] No [X] N/A

14. Is there adequate volume for the tests requested? [X] Yes [ ] No

14. Is there dry weight volume provided? [ ] Yes [ ] No N/A

15. Were VOA vials free of bubbles? [ ] N/A [X] Yes [ ] No

    If "NO" which containers contained "head space" or bubbles? _____

16. Are methanol soils immersed in methanol? [ ] Yes [ ] No [X] N/A

MW-110 only provides bottles for DRO/RRO. GRO/BTEX & PAH requested, but NO volume. Chuck was contacted See phone record.

Log-in Phase:

Date of sample log-in 10 / 25 / 11

Samples logged in by (print) Sara Foster (sign) Sara Foster

1. Was project identifiable from custody papers? [X] Yes [ ] No
2. Do Turn Around Times and Due Dates agree? [X] Yes [ ] No
3. Was the Project Manager notified of status? [X] Yes [ ] No
4. Was the Lab notified of status? [X] Yes [ ] No
5. Was the COC scanned and copied? [X] Yes [ ] No

AK-FORM-SPL-005 5 October 2011