Greg-

Rhonda tried to send this electronically last week but couldn't get it to go.

I was wondering if you or any of the landowners recieved any results from Encana on the people that allowed you to split samples with them-

Hope your summers off to a good start and we'll be in touch

Thanks

Jeff

Encana Oil & Gas (USA) Inc.
370 17th Street, Suite 1700
Denver, CO 80202

Community
Relations Hotline:
1-866-896-6371

www.encana.com

May 6, 2013

Mr. and Mrs. Jeff Locker
[redacted]
Pavillion, WY [redacted]

Re: Pavillion Water Sample Laboratory Results

Dear Mr. and Mrs. Locker;

Enclosed please find the results of laboratory analysis conducted on a water quality sample taken on your property on April 18, 2011. The sample was collected independent of the Environmental Protection Agency (EPA) sample and in accordance with Quality Assurance / Quality Control (QA / QC) protocols.

The water samples were collected by AECOM Environmental, Inc. and analyzed by several certified independent labs using EPA and other, recognized methodologies and procedures. The attachment summarizes your detected results. When reviewing this table of detected results, we have indicated the parameter, concentration detected in your well, units of measure, data qualifiers and regulatory benchmarks. The maximum contaminant level or MCL is a key benchmark that is widely used to evaluate the quality of domestic water sources. The Wyoming Class I groundwater standards are the State level for which groundwater is considered suitable for domestic purposes.

A copy of the complete laboratory reports for your well is also provided. The laboratory reports include a summary of analytical detections, a summary data validation report and an analytical result report. Since lab reports are prepared for multiple samples, any lab report pages that do not pertain to your sample or QA/QC samples have been removed.

If you have questions or concerns for Encana, please contact the Encana Community Relations Hotline at 1-866-896-6371 and leave a message. Your call will be returned shortly.

Best Regards,

John Gardner
Environmental Specialist

jg
Attachments

cc: B. Temkin
S. Regan

Summary of Detected Analytes at PGDW21

Parameter	Result	Units	Qualifier[1]	MCL[2]	SMCL[3]	Wyoming[4]
Chloride	33	mg/l		-	250	250
Fluoride	0.85	mg/l		4	2	4
Nitrate		mg/l		10		10
Sulfate	1200	mg/l		-	250	250
Dissolved Organic Carbon	17	mg/l		-		-
Ammonia	0.075	mg/l		-		0.5
DRO	0.05	mg/l		-		1.1
Aluminum	0.0532	mg/l	J	-		36.5
Barium	0.0085	mg/l	J	2		2
Boron	0.16	mg/l		-		0.75
Calcium	62.7	mg/l		-		-
Iron	0.152	mg/l		-	0.3	0.3
Magnesium	7.86	mg/l		-		-
Manganese	0.0285	mg/l		-	0.05	0.05
Molybdenum	0.0052	mg/l	J	-		0.18
Potassium	0.857	mg/l		-		-
Sodium	372	mg/l		-		-
Strontium	0.876	mg/l		-		21.9
Titanaium	0.00085	mg/l	J	-		-
Vanadium	0.00072	mg/l	J	-		0.26
Zinc	0.0782	mg/l		-	5	5
Arsenic	0.00028	mg/l	J	0.01		0.05
Cadmium		mg/l		0.005		0.005
Chromium	0.00064	mg/l		0.1		0.1
Copper[5]	0.0048	mg/l		1.3	1	1
Lead[5]	0.00077	mg/l		0.015		0.015
Nickel	0.00015	mg/l	J			0.73
Selenium		mg/l		0.05		0.05
Silicon	5.49	mg/l				-
Thallium		mg/l		0.002		0.002
Uranium-238[6]		mg/l		0.03		0.03

Notes: No organic compounds were detected at the analytical method detection limit. The analytical method detection limits for the compounds tested are below both the U.S. EPA standards for drinking water and the State of Wyoming standards for domestic groundwater use (Class I) when possible.

1). J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
2). Maximum Contaminant Levels (MCLs) are enforceable standards applicable to public water systems to protect public health (EPA 822-S-12-001 2012). The standards are not directly applicable private water wells.
3). Secondary Maximum Contaminant Levels are non-enforceable guidelines regulating contaminants that cause cosmetic (skin or tooth discoloration) or aesthetic (taste, odor, color) effects in drinking water (EPA 822-S-12-001 2012).
4). State of Wyoming Class I groundwater standard (WDEQ Chapter 8, Fact Sheet 13 Drinking Water Equivalent Levels and Acceptable Drinking Water Levels).
5). Lead and copper are action levels which, if exceeded, triggers treatment for corrosion control.
6). MCL is for Uranium and does not distinguish which isotope.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Mr. Dustin Krajewski
AECOM Inc. - Fort Collins, CO
1601 Prospect Parkway
Fort Collins, CO 80525

Report Summary

Monday May 09, 2011

Report Number: L512036
Samples Received: 04/20/11
Client Project: 60196941

Description: Wind River - Riverton, WY

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By: Leslie Newton

Leslie Newton , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002,NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,
TX - T104704245, OK-9915

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.
Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

This report may not be reproduced, except in full, without written approval from ESC Lab Sciences.
Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

ESC
L·A·B S·C·I·E·N·C·E·S
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Dustin Krajewski
AECOM Inc. - Fort Collins, CO
1601 Prospect Parkway
Fort Collins, CO 80525

May 09, 2011

ESC Sample # : L512036-01

Date Received : April 20, 2011
Description : Wind River - Riverton, WY

Site ID : PAVILLION

Sample ID : PGDW-21

Project # : 60196941

Collected By : Dustin Krajewski
Collection Date : 04/18/11 12:30

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Bromide	U	0.14	1.0	mg/l		9056	04/20/11	1
Chloride	33.	0.15	1.0	mg/l		9056	04/20/11	1
Fluoride	0.85	0.019	0.10	mg/l		9056	04/20/11	1
Nitrate	U	0.041	0.10	mg/l		9056	04/20/11	1
Nitrite	U	0.015	0.10	mg/l		9056	04/20/11	1
Sulfate	1200	9.3	100	mg/l		9056	04/21/11	20
DOC	17.	0.22	1.0	mg/l		5310B	04/26/11	1
Ammonia Nitrogen	0.075	0.030	0.10	mg/l	J	350.1	04/26/11	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	04/25/11	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	98.1			% Rec.		GRO	04/25/11	1
Volatile Organics								
Acetone	U	0.016	0.050	mg/l		8260B	04/21/11	1
Acrolein	U	0.0076	0.050	mg/l		8260B	04/21/11	1
Acrylonitrile	U	0.0019	0.010	mg/l		8260B	04/21/11	1
Benzene	U	0.00023	0.0010	mg/l		8260B	04/21/11	1
Bromobenzene	U	0.00023	0.0010	mg/l		8260B	04/21/11	1
Bromodichloromethane	U	0.00023	0.0010	mg/l		8260B	04/21/11	1
Bromoform	U	0.00037	0.0010	mg/l		8260B	04/21/11	1
Bromomethane	U	0.0016	0.0050	mg/l		8260B	04/21/11	1
n-Butylbenzene	U	0.00031	0.0010	mg/l		8260B	04/21/11	1
sec-Butylbenzene	U	0.00022	0.0010	mg/l		8260B	04/21/11	1
tert-Butylbenzene	U	0.00020	0.0010	mg/l		8260B	04/21/11	1
Carbon tetrachloride	U	0.00020	0.0010	mg/l		8260B	04/21/11	1
Chlorobenzene	U	0.00030	0.0010	mg/l		8260B	04/21/11	1
Chlorodibromomethane	U	0.00024	0.0010	mg/l		8260B	04/21/11	1
Chloroethane	U	0.00087	0.0050	mg/l		8260B	04/21/11	1
2-Chloroethyl vinyl ether	U	0.0057	0.050	mg/l	J3	8260B	04/21/11	1
Chloroform	U	0.00027	0.0050	mg/l		8260B	04/21/11	1
Chloromethane	U	0.00076	0.0025	mg/l		8260B	04/21/11	1
2-Chlorotoluene	U	0.00028	0.0010	mg/l		8260B	04/21/11	1
4-Chlorotoluene	U	0.00020	0.0010	mg/l		8260B	04/21/11	1
1,2-Dibromo-3-Chloropropane	U	0.0013	0.0050	mg/l		8260B	04/21/11	1
1,2-Dibromoethane	U	0.00027	0.0010	mg/l		8260B	04/21/11	1
Dibromomethane	U	0.00035	0.0010	mg/l		8260B	04/21/11	1
1,2-Dichlorobenzene	U	0.00029	0.0010	mg/l		8260B	04/21/11	1
1,3-Dichlorobenzene	U	0.00029	0.0010	mg/l		8260B	04/21/11	1
1,4-Dichlorobenzene	U	0.00031	0.0010	mg/l		8260B	04/21/11	1
Dichlorodifluoromethane	U	0.0016	0.0050	mg/l		8260B	04/21/11	1

U = ND (Not Detected)
MDL = Minimum Detection Limit = LOD
RDL = Reported Detection Limit = LOQ = PQL = EQL
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 04/27/11 15:34 Revised: 05/09/11 11:27

ESC
L·A·B S·C·I·E·N·C·E·S
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

May 09, 2011

Mr. Dustin Krajewski
AECOM Inc. - Fort Collins, CO
1601 Prospect Parkway
Fort Collins, CO 80525

ESC Sample # : L512036-01

Date Received : April 20, 2011
Description : Wind River - Riverton, WY

Site ID : PAVILLION

Sample ID : PGDW-21

Project # : 60196941

Collected By : Dustin Krajewski
Collection Date : 04/18/11 12:30

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
t-Amyl Alcohol	U	0.012	0.050	mg/l		8260B	04/21/11	1
tert-Butyl alcohol	U	0.0015	0.050	mg/l		8260B	04/21/11	1
tert-Amyl Methyl Ether	U	0.00010	0.0010	mg/l		8260B	04/21/11	1
Surrogate Recovery								
Toluene-d8	103.			% Rec.		8260B	04/21/11	1
Dibromofluoromethane	110.			% Rec.		8260B	04/21/11	1
a,a,a-Trifluorotoluene	104.			% Rec.		8260B	04/21/11	1
4-Bromofluorobenzene	99.5			% Rec.		8260B	04/21/11	1
DRO Wyoming C10-C32								
TPH (GC/FID) High Fraction	0.050	0.029	0.10	mg/l	J	8015	04/25/11	1
Surrogate recovery(%)								
o-Terphenyl	118.			% Rec.		8015	04/25/11	1
Base/Neutral Extractables								
Acenaphthene	U	0.00032	0.0010	mg/l		8270C	04/22/11	1
Acenaphthylene	U	0.00026	0.0010	mg/l		8270C	04/22/11	1
Anthracene	U	0.00036	0.0010	mg/l		8270C	04/22/11	1
Benzidine	U	0.0013	0.010	mg/l		8270C	04/22/11	1
Benzo(a)anthracene	U	0.00040	0.0010	mg/l		8270C	04/22/11	1
Benzo(b)fluoranthene	U	0.00046	0.0010	mg/l		8270C	04/22/11	1
Benzo(k)fluoranthene	U	0.00036	0.0010	mg/l		8270C	04/22/11	1
Benzo(g,h,i)perylene	U	0.00032	0.0010	mg/l		8270C	04/22/11	1
Benzo(a)pyrene	U	0.00053	0.0010	mg/l		8270C	04/22/11	1
Bis(2-chlorethoxy)methane	U	0.0017	0.010	mg/l		8270C	04/22/11	1
Bis(2-chloroethyl)ether	U	0.0019	0.010	mg/l		8270C	04/22/11	1
Bis(2-chloroisopropyl)ether	U	0.0020	0.010	mg/l		8270C	04/22/11	1
4-Bromophenyl-phenylether	U	0.0013	0.010	mg/l		8270C	04/22/11	1
2-Chloronaphthalene	U	0.00035	0.0010	mg/l		8270C	04/22/11	1
4-Chlorophenyl-phenylether	U	0.0010	0.010	mg/l		8270C	04/22/11	1
Chrysene	U	0.00028	0.0010	mg/l		8270C	04/22/11	1
Dibenz(a,h)anthracene	U	0.00033	0.0010	mg/l		8270C	04/22/11	1
3,3-Dichlorobenzidine	U	0.0012	0.010	mg/l		8270C	04/22/11	1
2,4-Dinitrotoluene	U	0.0013	0.010	mg/l		8270C	04/22/11	1
2,6-Dinitrotoluene	U	0.0014	0.010	mg/l		8270C	04/22/11	1
Fluoranthene	U	0.00040	0.0010	mg/l		8270C	04/22/11	1
Fluorene	U	0.00042	0.0010	mg/l		8270C	04/22/11	1
Hexachlorobenzene	U	0.00028	0.0010	mg/l		8270C	04/22/11	1
Hexachloro-1,3-butadiene	U	0.0016	0.010	mg/l		8270C	04/22/11	1
Hexachlorocyclopentadiene	U	0.0011	0.010	mg/l		8270C	04/22/11	1
Hexachloroethane	U	0.0020	0.010	mg/l		8270C	04/22/11	1
Indeno(1,2,3-cd)pyrene	U	0.00028	0.0010	mg/l		8270C	04/22/11	1
Isophorone	U	0.00072	0.010	mg/l		8270C	04/22/11	1

U = ND (Not Detected)
MDL = Minimum Detection Limit = LOD
RDL = Reported Detection Limit = LOQ = PQL = EQL
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 04/27/11 15:34 Revised: 05/09/11 11:27

ESC
L·A·B S·C·I·E·N·C·E·S
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Dustin Krajewski
AECOM Inc. - Fort Collins, CO
1601 Prospect Parkway
Fort Collins, CO 80525

May 09, 2011

ESC Sample # : L512036-01

Date Received : April 20, 2011
Description : Wind River - Riverton, WY

Site ID : PAVILLION

Sample ID : PGDW-21

Project # : 60196941

Collected By : Dustin Krajewski
Collection Date : 04/18/11 12:30

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
1,1-Dichloroethane	U	0.00032	0.0010	mg/l		8260B	04/21/11	1
1,2-Dichloroethane	U	0.00025	0.0010	mg/l		8260B	04/21/11	1
1,1-Dichloroethene	U	0.00041	0.0010	mg/l		8260B	04/21/11	1
cis-1,2-Dichloroethene	U	0.00034	0.0010	mg/l		8260B	04/21/11	1
trans-1,2-Dichloroethene	U	0.00026	0.0010	mg/l		8260B	04/21/11	1
1,2-Dichloropropane	U	0.00039	0.0010	mg/l		8260B	04/21/11	1
1,1-Dichloropropene	U	0.00026	0.0010	mg/l		8260B	04/21/11	1
1,3-Dichloropropane	U	0.00028	0.0010	mg/l		8260B	04/21/11	1
cis-1,3-Dichloropropene	U	0.00025	0.0010	mg/l		8260B	04/21/11	1
trans-1,3-Dichloropropene	U	0.00024	0.0010	mg/l		8260B	04/21/11	1
2,2-Dichloropropane	U	0.00036	0.0010	mg/l		8260B	04/21/11	1
Ethylbenzene	U	0.00022	0.0010	mg/l		8260B	04/21/11	1
Hexachloro-1,3-butadiene	U	0.00038	0.0010	mg/l		8260B	04/21/11	1
Isopropylbenzene	U	0.00020	0.0010	mg/l		8260B	04/21/11	1
p-Isopropyltoluene	U	0.00031	0.0010	mg/l		8260B	04/21/11	1
2-Butanone (MEK)	U	0.0034	0.010	mg/l		8260B	04/21/11	1
Methylene Chloride	U	0.00091	0.0050	mg/l		8260B	04/21/11	1
4-Methyl-2-pentanone (MIBK)	U	0.0017	0.010	mg/l		8260B	04/21/11	1
Naphthalene	U	0.00098	0.0050	mg/l		8260B	04/21/11	1
n-Propylbenzene	U	0.00031	0.0010	mg/l		8260B	04/21/11	1
Styrene	U	0.00024	0.0010	mg/l	J4	8260B	04/21/11	1
1,1,1,2-Tetrachloroethane	U	0.00032	0.0010	mg/l		8260B	04/21/11	1
1,1,2,2-Tetrachloroethane	U	0.00025	0.0010	mg/l		8260B	04/21/11	1
1,1,2-Trichloro-1,2,2-trifluoro	U	0.00039	0.0010	mg/l		8260B	04/21/11	1
Tetrachloroethene	U	0.00032	0.0010	mg/l		8260B	04/21/11	1
Toluene	U	0.00032	0.0050	mg/l		8260B	04/21/11	1
1,2,3-Trichlorobenzene	U	0.00032	0.0010	mg/l		8260B	04/21/11	1
1,2,4-Trichlorobenzene	U	0.00035	0.0010	mg/l		8260B	04/21/11	1
1,1,1-Trichloroethane	U	0.00031	0.0010	mg/l		8260B	04/21/11	1
1,1,2-Trichloroethane	U	0.00029	0.0010	mg/l		8260B	04/21/11	1
Trichloroethene	U	0.00031	0.0010	mg/l		8260B	04/21/11	1
Trichlorofluoromethane	U	0.0011	0.0050	mg/l		8260B	04/21/11	1
1,2,3-Trichloropropane	U	0.00074	0.0025	mg/l		8260B	04/21/11	1
1,2,4-Trimethylbenzene	U	0.00018	0.0010	mg/l		8260B	04/21/11	1
1,2,3-Trimethylbenzene	U	0.00030	0.0010	mg/l		8260B	04/21/11	1
1,3,5-Trimethylbenzene	U	0.00033	0.0010	mg/l		8260B	04/21/11	1
Vinyl chloride	U	0.00034	0.0010	mg/l		8260B	04/21/11	1
Xylenes, Total	U	0.00086	0.0030	mg/l		8260B	04/21/11	1
Volatiles - Oxygenates								
Di-isopropyl ether	U	0.00026	0.0010	mg/l		8260B	04/21/11	1
Ethanol	U	0.046	0.10	mg/l		8260B	04/21/11	1
Ethyl tert-butyl ether	U	0.00010	0.0010	mg/l		8260B	04/21/11	1
Methyl tert-butyl ether	U	0.00063	0.0010	mg/l		8260B	04/21/11	1

U = ND (Not Detected)
MDL = Minimum Detection Limit = LOD
RDL = Reported Detection Limit = LOQ = PQL = EQL
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 04/27/11 15:34 Revised: 05/09/11 11:27

ESC LAB SCIENCES
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

May 09, 2011

Mr. Dustin Krajewski
AECOM Inc. - Fort Collins, CO
1601 Prospect Parkway
Fort Collins, CO 80525

ESC Sample # : L512036-01

Date Received : April 20, 2011
Description : Wind River - Riverton, WY

Site ID : PAVILLION

Sample ID : PGDW-21

Project # : 60196941

Collected By : Dustin Krajewski
Collection Date : 04/18/11 12:30

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Naphthalene	U	0.00036	0.0010	mg/l		8270C	04/22/11	1
Nitrobenzene	U	0.0016	0.010	mg/l		8270C	04/22/11	1
n-Nitrosodimethylamine	U	0.0020	0.010	mg/l	J4J3	8270C	04/22/11	1
n-Nitrosodiphenylamine	U	0.00079	0.010	mg/l		8270C	04/22/11	1
n-Nitrosodi-n-propylamine	U	0.0014	0.010	mg/l		8270C	04/22/11	1
Phenanthrene	U	0.00045	0.0010	mg/l		8270C	04/22/11	1
Benzylbutyl phthalate	U	0.00027	0.0010	mg/l	J4J3	8270C	04/22/11	1
Bis(2-ethylhexyl)phthalate	U	0.00036	0.0010	mg/l		8270C	04/22/11	1
Di-n-butyl phthalate	U	0.00021	0.0010	mg/l		8270C	04/22/11	1
Diethyl phthalate	U	0.00019	0.0010	mg/l	J4J3	8270C	04/22/11	1
Dimethyl phthalate	U	0.00021	0.0010	mg/l	J4J3	8270C	04/22/11	1
Di-n-octyl phthalate	U	0.00040	0.0010	mg/l		8270C	04/22/11	1
Pyrene	U	0.00035	0.0010	mg/l		8270C	04/22/11	1
1,2,4-Trichlorobenzene	U	0.0015	0.010	mg/l		8270C	04/22/11	1
Acid Extractables								
4-Chloro-3-methylphenol	U	0.0011	0.010	mg/l		8270C	04/22/11	1
2-Chlorophenol	U	0.0017	0.010	mg/l	J4J3	8270C	04/22/11	1
2,4-Dichlorophenol	U	0.0011	0.010	mg/l		8270C	04/22/11	1
2,4-Dimethylphenol	U	0.0046	0.010	mg/l		8270C	04/22/11	1
4,6-Dinitro-2-methylphenol	U	0.0027	0.010	mg/l	J4J3	8270C	04/22/11	1
2,4-Dinitrophenol	U	0.0028	0.010	mg/l		8270C	04/22/11	1
2-Nitrophenol	U	0.0016	0.010	mg/l		8270C	04/22/11	1
4-Nitrophenol	U	0.0023	0.010	mg/l	J4J3	8270C	04/22/11	1
Pentachlorophenol	U	0.00086	0.010	mg/l	J4J3	8270C	04/22/11	1
Phenol	U	0.00052	0.010	mg/l	J4J3	8270C	04/22/11	1
2,4,6-Trichlorophenol	U	0.0021	0.010	mg/l		8270C	04/22/11	1
Surrogate Recovery								
2-Fluorophenol	34.2			% Rec.		8270C	04/22/11	1
Phenol-d5	23.4			% Rec.		8270C	04/22/11	1
Nitrobenzene-d5	73.9			% Rec.		8270C	04/22/11	1
2-Fluorobiphenyl	85.7			% Rec.		8270C	04/22/11	1
2,4,6-Tribromophenol	89.5			% Rec.		8270C	04/22/11	1
p-Terphenyl-d14	121.			% Rec.		8270C	04/22/11	1

U = ND (Not Detected)
MDL = Minimum Detection Limit = LOD
RDL = Reported Detection Limit = LOQ = PQL = EQL
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 04/27/11 15:34 Revised: 05/09/11 11:27

ESC
L·A·B S·C·I·E·N·C·E·S
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Dustin Krajewski
AECOM Inc. - Fort Collins, CO
1601 Prospect Parkway
Fort Collins, CO 80525

May 09, 2011

Date Received : April 20, 2011
Description : Wind River - Riverton, WY

Sample ID : TRIPBLANK

Collected By : Dustin Krajewski
Collection Date : 04/19/11 12:30

ESC Sample # : L512036-06

Site ID : PAVILLION

Project # : 60196941

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.016	0.050	mg/l		8260B	04/21/11	1
Acrolein	U	0.0076	0.050	mg/l		8260B	04/21/11	1
Acrylonitrile	U	0.0019	0.010	mg/l		8260B	04/21/11	1
Benzene	U	0.00023	0.0010	mg/l		8260B	04/21/11	1
Bromobenzene	U	0.00023	0.0010	mg/l		8260B	04/21/11	1
Bromodichloromethane	U	0.00023	0.0010	mg/l		8260B	04/21/11	1
Bromoform	U	0.00037	0.0010	mg/l		8260B	04/21/11	1
Bromomethane	U	0.0016	0.0050	mg/l		8260B	04/21/11	1
n-Butylbenzene	U	0.00031	0.0010	mg/l		8260B	04/21/11	1
sec-Butylbenzene	U	0.00022	0.0010	mg/l		8260B	04/21/11	1
tert-Butylbenzene	U	0.00020	0.0010	mg/l		8260B	04/21/11	1
Carbon tetrachloride	U	0.00020	0.0010	mg/l		8260B	04/21/11	1
Chlorobenzene	U	0.00030	0.0010	mg/l		8260B	04/21/11	1
Chlorodibromomethane	U	0.00024	0.0010	mg/l		8260B	04/21/11	1
Chloroethane	U	0.00087	0.0050	mg/l		8260B	04/21/11	1
2-Chloroethyl vinyl ether	U	0.0057	0.050	mg/l	J3	8260B	04/21/11	1
Chloroform	U	0.00027	0.0050	mg/l		8260B	04/21/11	1
Chloromethane	U	0.00076	0.0025	mg/l		8260B	04/21/11	1
2-Chlorotoluene	U	0.00028	0.0010	mg/l		8260B	04/21/11	1
4-Chlorotoluene	U	0.00020	0.0010	mg/l		8260B	04/21/11	1
1,2-Dibromo-3-Chloropropane	U	0.0013	0.0050	mg/l		8260B	04/21/11	1
1,2-Dibromoethane	U	0.00027	0.0010	mg/l		8260B	04/21/11	1
Dibromomethane	U	0.00035	0.0010	mg/l		8260B	04/21/11	1
1,2-Dichlorobenzene	U	0.00029	0.0010	mg/l		8260B	04/21/11	1
1,3-Dichlorobenzene	U	0.00029	0.0010	mg/l		8260B	04/21/11	1
1,4-Dichlorobenzene	U	0.00031	0.0010	mg/l		8260B	04/21/11	1
Dichlorodifluoromethane	U	0.0016	0.0050	mg/l		8260B	04/21/11	1
1,1-Dichloroethane	U	0.00032	0.0010	mg/l		8260B	04/21/11	1
1,2-Dichloroethane	U	0.00025	0.0010	mg/l		8260B	04/21/11	1
1,1-Dichloroethene	U	0.00041	0.0010	mg/l		8260B	04/21/11	1
cis-1,2-Dichloroethene	U	0.00034	0.0010	mg/l		8260B	04/21/11	1
trans-1,2-Dichloroethene	U	0.00026	0.0010	mg/l		8260B	04/21/11	1
1,2-Dichloropropane	U	0.00039	0.0010	mg/l		8260B	04/21/11	1
1,1-Dichloropropene	U	0.00026	0.0010	mg/l		8260B	04/21/11	1
1,3-Dichloropropane	U	0.00028	0.0010	mg/l		8260B	04/21/11	1
cis-1,3-Dichloropropene	U	0.00025	0.0010	mg/l		8260B	04/21/11	1
trans-1,3-Dichloropropene	U	0.00024	0.0010	mg/l		8260B	04/21/11	1
2,2-Dichloropropane	U	0.00036	0.0010	mg/l		8260B	04/21/11	1
Ethylbenzene	U	0.00022	0.0010	mg/l		8260B	04/21/11	1
Hexachloro-1,3-butadiene	U	0.00038	0.0010	mg/l		8260B	04/21/11	1
Isopropylbenzene	U	0.00020	0.0010	mg/l		8260B	04/21/11	1
p-Isopropyltoluene	U	0.00031	0.0010	mg/l		8260B	04/21/11	1

U = ND (Not Detected)
MDL = Minimum Detection Limit = LOD
RDL = Reported Detection Limit = LOQ = PQL = EQL
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 04/27/11 15:34 Revised: 05/09/11 11:28

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

ESC L·A·B S·C·I·E·N·C·E·S
YOUR LAB OF CHOICE

REPORT OF ANALYSIS

May 09, 2011

Mr. Dustin Krajewski
AECOM Inc. - Fort Collins, CO
1601 Prospect Parkway
Fort Collins, CO 80525

ESC Sample # : L512036-06

Date Received : April 20, 2011
Description : Wind River - Riverton, WY

Site ID : PAVILLION

Sample ID : TRIPBLANK

Project # : 60196941

Collected By : Dustin Krajewski
Collection Date : 04/19/11 12:30

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
2-Butanone (MEK)	U	0.0034	0.010	mg/l		8260B	04/21/11	1
Methylene Chloride	U	0.00091	0.0050	mg/l		8260B	04/21/11	1
4-Methyl-2-pentanone (MIBK)	U	0.0017	0.010	mg/l		8260B	04/21/11	1
Naphthalene	U	0.00098	0.0050	mg/l		8260B	04/21/11	1
n-Propylbenzene	U	0.00031	0.0010	mg/l		8260B	04/21/11	1
Styrene	U	0.00024	0.0010	mg/l	J4	8260B	04/21/11	1
1,1,1,2-Tetrachloroethane	U	0.00032	0.0010	mg/l		8260B	04/21/11	1
1,1,2,2-Tetrachloroethane	U	0.00025	0.0010	mg/l		8260B	04/21/11	1
1,1,2-Trichloro-1,2,2-trifluoro	U	0.00039	0.0010	mg/l		8260B	04/21/11	1
Tetrachloroethene	U	0.00032	0.0010	mg/l		8260B	04/21/11	1
Toluene	U	0.00032	0.0050	mg/l		8260B	04/21/11	1
1,2,3-Trichlorobenzene	U	0.00032	0.0010	mg/l		8260B	04/21/11	1
1,2,4-Trichlorobenzene	U	0.00035	0.0010	mg/l		8260B	04/21/11	1
1,1,1-Trichloroethane	U	0.00031	0.0010	mg/l		8260B	04/21/11	1
1,1,2-Trichloroethane	U	0.00029	0.0010	mg/l		8260B	04/21/11	1
Trichloroethene	U	0.00031	0.0010	mg/l		8260B	04/21/11	1
Trichlorofluoromethane	U	0.0011	0.0050	mg/l		8260B	04/21/11	1
1,2,3-Trichloropropane	U	0.00074	0.0025	mg/l		8260B	04/21/11	1
1,2,4-Trimethylbenzene	U	0.00018	0.0010	mg/l		8260B	04/21/11	1
1,2,3-Trimethylbenzene	U	0.00030	0.0010	mg/l		8260B	04/21/11	1
1,3,5-Trimethylbenzene	U	0.00033	0.0010	mg/l		8260B	04/21/11	1
Vinyl chloride	U	0.00034	0.0010	mg/l		8260B	04/21/11	1
Xylenes, Total	U	0.00086	0.0030	mg/l		8260B	04/21/11	1
Volatiles - Oxygenates								
Di-isopropyl ether	U	0.00026	0.0010	mg/l		8260B	04/21/11	1
Ethanol	U	0.046	0.10	mg/l		8260B	04/21/11	1
Ethyl tert-butyl ether	U	0.00010	0.0010	mg/l		8260B	04/21/11	1
Methyl tert-butyl ether	U	0.00063	0.0010	mg/l		8260B	04/21/11	1
t-Amyl Alcohol	U	0.012	0.050	mg/l		8260B	04/21/11	1
tert-Butyl alcohol	U	0.0015	0.050	mg/l		8260B	04/21/11	1
tert-Amyl Methyl Ether	U	0.00010	0.0010	mg/l		8260B	04/21/11	1
Surrogate Recovery								
Toluene-d8	100.			% Rec.		8260B	04/21/11	1
Dibromofluoromethane	110.			% Rec.		8260B	04/21/11	1
a,a,a-Trifluorotoluene	104.			% Rec.		8260B	04/21/11	1
4-Bromofluorobenzene	96.5			% Rec.		8260B	04/21/11	1

U = ND (Not Detected)
MDL = Minimum Detection Limit = LOD
RDL = Reported Detection Limit = LOQ = PQL = EQL
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 04/27/11 15:34 Revised: 05/09/11 11:28

ESC
L·A·B S·C·I·E·N·C·E·S
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Dustin Krajewski
AECOM Inc. - Fort Collins, CO
1601 Prospect Parkway
Fort Collins, CO 80525

May 09, 2011

Date Received : April 20, 2011
Description : Wind River - Riverton, WY

Sample ID : TRIPBLANK

Collected By : Dustin Krajewski
Collection Date : 04/19/11 12:30

ESC Sample # : L512036-07

Site ID : PAVILLION

Project # : 60196941

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.016	0.050	mg/l		8260B	04/21/11	1
Acrolein	U	0.0076	0.050	mg/l		8260B	04/21/11	1
Acrylonitrile	U	0.0019	0.010	mg/l		8260B	04/21/11	1
Benzene	U	0.00023	0.0010	mg/l		8260B	04/21/11	1
Bromobenzene	U	0.00023	0.0010	mg/l		8260B	04/21/11	1
Bromodichloromethane	U	0.00023	0.0010	mg/l		8260B	04/21/11	1
Bromoform	U	0.00037	0.0010	mg/l		8260B	04/21/11	1
Bromomethane	U	0.0016	0.0050	mg/l		8260B	04/21/11	1
n-Butylbenzene	U	0.00031	0.0010	mg/l		8260B	04/21/11	1
sec-Butylbenzene	U	0.00022	0.0010	mg/l		8260B	04/21/11	1
tert-Butylbenzene	U	0.00020	0.0010	mg/l		8260B	04/21/11	1
Carbon tetrachloride	U	0.00020	0.0010	mg/l		8260B	04/21/11	1
Chlorobenzene	U	0.00030	0.0010	mg/l		8260B	04/21/11	1
Chlorodibromomethane	U	0.00024	0.0010	mg/l		8260B	04/21/11	1
Chloroethane	U	0.00087	0.0050	mg/l		8260B	04/21/11	1
2-Chloroethyl vinyl ether	U	0.0057	0.050	mg/l	J3	8260B	04/21/11	1
Chloroform	U	0.00027	0.0050	mg/l		8260B	04/21/11	1
Chloromethane	U	0.00076	0.0025	mg/l		8260B	04/21/11	1
2-Chlorotoluene	U	0.00028	0.0010	mg/l		8260B	04/21/11	1
4-Chlorotoluene	U	0.00020	0.0010	mg/l		8260B	04/21/11	1
1,2-Dibromo-3-Chloropropane	U	0.0013	0.0050	mg/l		8260B	04/21/11	1
1,2-Dibromoethane	U	0.00027	0.0010	mg/l		8260B	04/21/11	1
Dibromomethane	U	0.00035	0.0010	mg/l		8260B	04/21/11	1
1,2-Dichlorobenzene	U	0.00029	0.0010	mg/l		8260B	04/21/11	1
1,3-Dichlorobenzene	U	0.00029	0.0010	mg/l		8260B	04/21/11	1
1,4-Dichlorobenzene	U	0.00031	0.0010	mg/l		8260B	04/21/11	1
Dichlorodifluoromethane	U	0.0016	0.0050	mg/l		8260B	04/21/11	1
1,1-Dichloroethane	U	0.00032	0.0010	mg/l		8260B	04/21/11	1
1,2-Dichloroethane	U	0.00025	0.0010	mg/l		8260B	04/21/11	1
1,1-Dichloroethene	U	0.00041	0.0010	mg/l		8260B	04/21/11	1
cis-1,2-Dichloroethene	U	0.00034	0.0010	mg/l		8260B	04/21/11	1
trans-1,2-Dichloroethene	U	0.00026	0.0010	mg/l		8260B	04/21/11	1
1,2-Dichloropropane	U	0.00039	0.0010	mg/l		8260B	04/21/11	1
1,1-Dichloropropene	U	0.00026	0.0010	mg/l		8260B	04/21/11	1
1,3-Dichloropropane	U	0.00028	0.0010	mg/l		8260B	04/21/11	1
cis-1,3-Dichloropropene	U	0.00025	0.0010	mg/l		8260B	04/21/11	1
trans-1,3-Dichloropropene	U	0.00024	0.0010	mg/l		8260B	04/21/11	1
2,2-Dichloropropane	U	0.00036	0.0010	mg/l		8260B	04/21/11	1
Ethylbenzene	U	0.00022	0.0010	mg/l		8260B	04/21/11	1
Hexachloro-1,3-butadiene	U	0.00038	0.0010	mg/l		8260B	04/21/11	1
Isopropylbenzene	U	0.00020	0.0010	mg/l		8260B	04/21/11	1
p-Isopropyltoluene	U	0.00031	0.0010	mg/l		8260B	04/21/11	1

U = ND (Not Detected)
MDL = Minimum Detection Limit = LOD
RDL = Reported Detection Limit = LOQ = PQL = EQL
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 04/27/11 15:34 Revised: 05/09/11 11:28

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L512036-01	WG531966	SAMP	TPH (GC/FID) High Fraction	R1659971	J
	WG532097	SAMP	2-Chloroethyl vinyl ether	R1663414	J3
	WG532097	SAMP	Styrene	R1663414	J4
	WG531953	SAMP	n-Nitrosodimethylamine	R1660670	J4J3
	WG531953	SAMP	Benzylbutyl phthalate	R1660670	J4J3
	WG531953	SAMP	Diethyl phthalate	R1660670	J4J3
	WG531953	SAMP	Dimethyl phthalate	R1660670	J4J3
	WG531953	SAMP	2-Chlorophenol	R1660670	J4J3
	WG531953	SAMP	4,6-Dinitro-2-methylphenol	R1660670	J4J3
	WG531953	SAMP	4-Nitrophenol	R1660670	J4J3
	WG531953	SAMP	Pentachlorophenol	R1660670	J4J3
	WG531953	SAMP	Phenol	R1660670	J4J3
	WG532498	SAMP	Ammonia Nitrogen	R1663469	J
L512036-02	WG531966	SAMP	TPH (GC/FID) High Fraction	R1659971	J
	WG532097	SAMP	2-Chloroethyl vinyl ether	R1663414	J3
	WG532097	SAMP	Styrene	R1663414	J4
	WG531953	SAMP	n-Nitrosodimethylamine	R1660670	J4J3
	WG531953	SAMP	Benzylbutyl phthalate	R1660670	J4J3
	WG531953	SAMP	Diethyl phthalate	R1660670	J4J3
	WG531953	SAMP	Dimethyl phthalate	R1660670	J4J3
	WG531953	SAMP	2-Chlorophenol	R1660670	J4J3
	WG531953	SAMP	4,6-Dinitro-2-methylphenol	R1660670	J4J3
	WG531953	SAMP	4-Nitrophenol	R1660670	J4J3
	WG531953	SAMP	Pentachlorophenol	R1660670	J4J3
	WG531953	SAMP	Phenol	R1660670	J4J3
	WG532702	SAMP	DOC	R1664913	J5
L512036-03	WG531966	SAMP	TPH (GC/FID) High Fraction	R1659971	J
	WG532097	SAMP	2-Chloroethyl vinyl ether	R1663414	J3
	WG532097	SAMP	Styrene	R1663414	J4
	WG531953	SAMP	n-Nitrosodimethylamine	R1660670	J4J3
	WG531953	SAMP	Benzylbutyl phthalate	R1660670	J4J3
	WG531953	SAMP	Diethyl phthalate	R1660670	J4J3
	WG531953	SAMP	Dimethyl phthalate	R1660670	J4J3
	WG531953	SAMP	2-Chlorophenol	R1660670	J4J3
	WG531953	SAMP	4,6-Dinitro-2-methylphenol	R1660670	J4J3
	WG531953	SAMP	4-Nitrophenol	R1660670	J4J3
	WG531953	SAMP	Pentachlorophenol	R1660670	J4J3
	WG531953	SAMP	Phenol	R1660670	J4J3
L512036-04	WG531857	SAMP	TPH (GC/FID) Low Fraction	R1660789	J
	WG531966	SAMP	TPH (GC/FID) High Fraction	R1659971	J
	WG532097	SAMP	2-Chloroethyl vinyl ether	R1663414	J3
	WG532097	SAMP	Styrene	R1663414	J4
	WG531953	SAMP	n-Nitrosodimethylamine	R1660670	J4J3
	WG531953	SAMP	Benzylbutyl phthalate	R1660670	J4J3
	WG531953	SAMP	Diethyl phthalate	R1660670	J4J3
	WG531953	SAMP	Dimethyl phthalate	R1660670	J4J3
	WG531953	SAMP	2-Chlorophenol	R1660670	J4J3
	WG531953	SAMP	4,6-Dinitro-2-methylphenol	R1660670	J4J3
	WG531953	SAMP	4-Nitrophenol	R1660670	J4J3
	WG531953	SAMP	Pentachlorophenol	R1660670	J4J3
	WG531953	SAMP	Phenol	R1660670	J4J3
	WG532498	SAMP	Ammonia Nitrogen	R1663469	J
L512036-05	WG532097	SAMP	sec-Butylbenzene	R1663414	J
	WG532097	SAMP	2-Chloroethyl vinyl ether	R1663414	J3
	WG532097	SAMP	Naphthalene	R1663414	J
	WG532097	SAMP	Styrene	R1663414	J4
	WG532957	SAMP	Toluene	R1665142	J
	WG532097	SAMP	Di-isopropyl ether	R1663414	J
	WG532957	SAMP	tert-Butyl alcohol	R1665142	J
	WG532047	SAMP	Benzidine	R1660831	J3
	WG532047	SAMP	4-Nitrophenol	R1660831	J3
	WG532047	SAMP	Phenol	R1660831	J
L512036-06	WG532097	SAMP	2-Chloroethyl vinyl ether	R1663414	J3
	WG532097	SAMP	Styrene	R1663414	J4
L512036-07	WG532097	SAMP	2-Chloroethyl vinyl ether	R1663414	J3
	WG532097	SAMP	Styrene	R1663414	J4

ESC
L·A·B S·C·I·E·N·C·E·S
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Dustin Krajewski
AECOM Inc. - Fort Collins, CO
1601 Prospect Parkway
Fort Collins, CO 80525

May 09, 2011

Date Received : April 20, 2011
Description : Wind River - Riverton, WY

Sample ID : TRIPBLANK

Collected By : Dustin Krajewski
Collection Date : 04/19/11 12:30

ESC Sample # : L512036-07

Site ID : PAVILLION

Project # : 60196941

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
2-Butanone (MEK)	U	0.0034	0.010	mg/l		8260B	04/21/11	1
Methylene Chloride	U	0.00091	0.0050	mg/l		8260B	04/21/11	1
4-Methyl-2-pentanone (MIBK)	U	0.0017	0.010	mg/l		8260B	04/21/11	1
Naphthalene	U	0.00098	0.0050	mg/l		8260B	04/21/11	1
n-Propylbenzene	U	0.00031	0.0010	mg/l		8260B	04/21/11	1
Styrene	U	0.00024	0.0010	mg/l	J4	8260B	04/21/11	1
1,1,1,2-Tetrachloroethane	U	0.00032	0.0010	mg/l		8260B	04/21/11	1
1,1,2,2-Tetrachloroethane	U	0.00025	0.0010	mg/l		8260B	04/21/11	1
1,1,2-Trichloro-1,2,2-trifluoro	U	0.00039	0.0010	mg/l		8260B	04/21/11	1
Tetrachloroethene	U	0.00032	0.0010	mg/l		8260B	04/21/11	1
Toluene	U	0.00032	0.0050	mg/l		8260B	04/21/11	1
1,2,3-Trichlorobenzene	U	0.00032	0.0010	mg/l		8260B	04/21/11	1
1,2,4-Trichlorobenzene	U	0.00035	0.0010	mg/l		8260B	04/21/11	1
1,1,1-Trichloroethane	U	0.00031	0.0010	mg/l		8260B	04/21/11	1
1,1,2-Trichloroethane	U	0.00029	0.0010	mg/l		8260B	04/21/11	1
Trichloroethene	U	0.00031	0.0010	mg/l		8260B	04/21/11	1
Trichlorofluoromethane	U	0.0011	0.0050	mg/l		8260B	04/21/11	1
1,2,3-Trichloropropane	U	0.00074	0.0025	mg/l		8260B	04/21/11	1
1,2,4-Trimethylbenzene	U	0.00018	0.0010	mg/l		8260B	04/21/11	1
1,2,3-Trimethylbenzene	U	0.00030	0.0010	mg/l		8260B	04/21/11	1
1,3,5-Trimethylbenzene	U	0.00033	0.0010	mg/l		8260B	04/21/11	1
Vinyl chloride	U	0.00034	0.0010	mg/l		8260B	04/21/11	1
Xylenes, Total	U	0.00086	0.0030	mg/l		8260B	04/21/11	1
Volatiles - Oxygenates								
Di-isopropyl ether	U	0.00026	0.0010	mg/l		8260B	04/21/11	1
Ethanol	U	0.046	0.10	mg/l		8260B	04/21/11	1
Ethyl tert-butyl ether	U	0.00010	0.0010	mg/l		8260B	04/21/11	1
Methyl tert-butyl ether	U	0.00063	0.0010	mg/l		8260B	04/21/11	1
t-Amyl Alcohol	U	0.012	0.050	mg/l		8260B	04/21/11	1
tert-Butyl alcohol	U	0.0015	0.050	mg/l		8260B	04/21/11	1
tert-Amyl Methyl Ether	U	0.00010	0.0010	mg/l		8260B	04/21/11	1
Surrogate Recovery								
Toluene-d8	103.			% Rec.		8260B	04/21/11	1
Dibromofluoromethane	108.			% Rec.		8260B	04/21/11	1
a,a,a-Trifluorotoluene	106.			% Rec.		8260B	04/21/11	1
4-Bromofluorobenzene	100.			% Rec.		8260B	04/21/11	1

U = ND (Not Detected)
MDL = Minimum Detection Limit = LOD
RDL = Reported Detection Limit = LOQ = PQL = EQL
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.
.
Reported: 04/27/11 15:34 Revised: 05/09/11 11:28

Summary of Remarks For Samples Printed
05/09/11 at 11:28:07

TSR Signing Reports: 044
R5 - Desired TAT

Sample: L512036-01 Account: ENSRFCCO Received: 04/20/11 09:00 Due Date: 05/10/11 00:00 RPT Date: 04/27/11 15:34
Added QC4 per WO17329 5/2/11 se V8260OXY needs TIC;UNINV 583754 ln 5/5/11
Sample: L512036-02 Account: ENSRFCCO Received: 04/20/11 09:00 Due Date: 05/10/11 00:00 RPT Date: 04/27/11 15:34
V8260OXY needs TIC
Sample: L512036-03 Account: ENSRFCCO Received: 04/20/11 09:00 Due Date: 05/10/11 00:00 RPT Date: 04/27/11 15:34
V8260OXY needs TIC
Sample: L512036-04 Account: ENSRFCCO Received: 04/20/11 09:00 Due Date: 05/10/11 00:00 RPT Date: 04/27/11 15:34
V8260OXY needs TIC
Sample: L512036-05 Account: ENSRFCCO Received: 04/20/11 09:00 Due Date: 05/10/11 00:00 RPT Date: 04/27/11 15:34
V8260OXY needs TIC
Sample: L512036-06 Account: ENSRFCCO Received: 04/20/11 09:00 Due Date: 05/10/11 00:00 RPT Date: 04/27/11 15:34
V8260OXY needs TIC
Sample: L512036-07 Account: ENSRFCCO Received: 04/20/11 09:00 Due Date: 05/10/11 00:00 RPT Date: 04/27/11 15:34
V8260OXY needs TIC

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

ESC LAB SCIENCES
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

AECOM Inc. - Fort Collins, CO
Mr. Dustin Krajewski
1601 Prospect Parkway

Fort Collins, CO 80525

Quality Assurance Report
Level II

L512036

May 09, 2011

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Hexachloro-1,3-butadiene	< .01	mg/l			WG531953	04/22/11 15:37
Hexachlorobenzene	< .001	mg/l			WG531953	04/22/11 15:37
Hexachlorocyclopentadiene	< .01	mg/l			WG531953	04/22/11 15:37
Hexachloroethane	< .01	mg/l			WG531953	04/22/11 15:37
Indeno(1,2,3-cd)pyrene	< .001	mg/l			WG531953	04/22/11 15:37
Isophorone	< .01	mg/l			WG531953	04/22/11 15:37
n-Nitrosodi-n-propylamine	< .01	mg/l			WG531953	04/22/11 15:37
n-Nitrosodimethylamine	< .01	mg/l			WG531953	04/22/11 15:37
n-Nitrosodiphenylamine	< .01	mg/l			WG531953	04/22/11 15:37
Naphthalene	< .001	mg/l			WG531953	04/22/11 15:37
Nitrobenzene	< .01	mg/l			WG531953	04/22/11 15:37
Pentachlorophenol	< .001	mg/l			WG531953	04/22/11 15:37
Phenanthrene	< .001	mg/l			WG531953	04/22/11 15:37
Phenol	< .01	mg/l			WG531953	04/22/11 15:37
Pyrene	< .001	mg/l			WG531953	04/22/11 15:37
2,4,6-Tribromophenol		mg/l	87.76	10-148	WG531953	04/22/11 15:37
2-Fluorobiphenyl		mg/l	91.63	26-122	WG531953	04/22/11 15:37
2-Fluorophenol		mg/l	36.55	10-87	WG531953	04/22/11 15:37
Nitrobenzene-d5		mg/l	74.62	12-120	WG531953	04/22/11 15:37
Phenol-d5		mg/l	24.91	10-67	WG531953	04/22/11 15:37
p-Terphenyl-d14		mg/l	124.7	34-149	WG531953	04/22/11 15:37
TPH (GC/FID) Low Fraction	< .1	mg/l			WG531857	04/20/11 13:50
a,a,a-Trifluorotoluene(FID)		% Rec.	99.77	62-128	WG531857	04/20/11 13:50
1,2,4-Trichlorobenzene	< .01	mg/l			WG532047	04/23/11 10:24
2,4,6-Trichlorophenol	< .01	mg/l			WG532047	04/23/11 10:24
2,4-Dichlorophenol	< .01	mg/l			WG532047	04/23/11 10:24
2,4-Dimethylphenol	< .01	mg/l			WG532047	04/23/11 10:24
2,4-Dinitrophenol	< .01	mg/l			WG532047	04/23/11 10:24
2,4-Dinitrotoluene	< .01	mg/l			WG532047	04/23/11 10:24
2,6-Dinitrotoluene	< .01	mg/l			WG532047	04/23/11 10:24
2-Chloronaphthalene	< .001	mg/l			WG532047	04/23/11 10:24
2-Chlorophenol	< .01	mg/l			WG532047	04/23/11 10:24
2-Nitrophenol	< .01	mg/l			WG532047	04/23/11 10:24
3,3-Dichlorobenzidine	< .01	mg/l			WG532047	04/23/11 10:24
4,6-Dinitro-2-methylphenol	< .01	mg/l			WG532047	04/23/11 10:24
4-Bromophenyl-phenylether	< .01	mg/l			WG532047	04/23/11 10:24
4-Chloro-3-methylphenol	< .01	mg/l			WG532047	04/23/11 10:24
4-Chlorophenyl-phenylether	< .01	mg/l			WG532047	04/23/11 10:24
4-Nitrophenol	< .01	mg/l			WG532047	04/23/11 10:24
Acenaphthene	< .001	mg/l			WG532047	04/23/11 10:24
Acenaphthylene	< .001	mg/l			WG532047	04/23/11 10:24
Anthracene	< .001	mg/l			WG532047	04/23/11 10:24
Benzidine	< .01	mg/l			WG532047	04/23/11 10:24
Benzo(a)anthracene	< .001	mg/l			WG532047	04/23/11 10:24
Benzo(a)pyrene	< .001	mg/l			WG532047	04/23/11 10:24
Benzo(b)fluoranthene	< .001	mg/l			WG532047	04/23/11 10:24
Benzo(g,h,i)perylene	< .001	mg/l			WG532047	04/23/11 10:24
Benzo(k)fluoranthene	< .001	mg/l			WG532047	04/23/11 10:24
Benzylbutyl phthalate	< .001	mg/l			WG532047	04/23/11 10:24
Bis(2-chlorethoxy)methane	< .01	mg/l			WG532047	04/23/11 10:24
Bis(2-chloroethyl)ether	< .01	mg/l			WG532047	04/23/11 10:24
Bis(2-chloroisopropyl)ether	< .01	mg/l			WG532047	04/23/11 10:24
Bis(2-ethylhexyl)phthalate	< .001	mg/l			WG532047	04/23/11 10:24
Chrysene	< .001	mg/l			WG532047	04/23/11 10:24
Di-n-butyl phthalate	< .001	mg/l			WG532047	04/23/11 10:24

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

ESC LAB SCIENCES
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

AECOM Inc. - Fort Collins, CO
Mr. Dustin Krajewski
1601 Prospect Parkway

Fort Collins, CO 80525

Quality Assurance Report
Level II

L512036

May 09, 2011

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Bromide	< 1	mg/l			WG531806	04/20/11 06:45
Chloride	< 1	mg/l			WG531806	04/20/11 06:45
Fluoride	< .1	mg/l			WG531806	04/20/11 06:45
Nitrate	< .1	mg/l			WG531806	04/20/11 06:45
Nitrite	< .1	mg/l			WG531806	04/20/11 06:45
Bromide	< 1	mg/l			WG531808	04/20/11 06:43
Chloride	< 1	mg/l			WG531808	04/20/11 06:43
Fluoride	< .1	mg/l			WG531808	04/20/11 06:43
Nitrate	< .1	mg/l			WG531808	04/20/11 06:43
Nitrite	< .1	mg/l			WG531808	04/20/11 06:43
Sulfate	< 5	mg/l			WG532074	04/21/11 06:40
TPH (GC/FID) High Fraction	< .1	ppm			WG531966	04/22/11 08:55
o-Terphenyl		% Rec.	105.1	50-150	WG531966	04/22/11 08:55
1,2,4-Trichlorobenzene	< .01	mg/l			WG531953	04/22/11 15:37
2,4,6-Trichlorophenol	< .01	mg/l			WG531953	04/22/11 15:37
2,4-Dichlorophenol	< .01	mg/l			WG531953	04/22/11 15:37
2,4-Dimethylphenol	< .01	mg/l			WG531953	04/22/11 15:37
2,4-Dinitrophenol	< .01	mg/l			WG531953	04/22/11 15:37
2,4-Dinitrotoluene	< .01	mg/l			WG531953	04/22/11 15:37
2,6-Dinitrotoluene	< .01	mg/l			WG531953	04/22/11 15:37
2-Chloronaphthalene	< .001	mg/l			WG531953	04/22/11 15:37
2-Chlorophenol	< .01	mg/l			WG531953	04/22/11 15:37
2-Nitrophenol	< .01	mg/l			WG531953	04/22/11 15:37
3,3-Dichlorobenzidine	< .01	mg/l			WG531953	04/22/11 15:37
4,6-Dinitro-2-methylphenol	< .01	mg/l			WG531953	04/22/11 15:37
4-Bromophenyl-phenylether	< .01	mg/l			WG531953	04/22/11 15:37
4-Chloro-3-methylphenol	< .01	mg/l			WG531953	04/22/11 15:37
4-Chlorophenyl-phenylether	< .01	mg/l			WG531953	04/22/11 15:37
4-Nitrophenol	< .01	mg/l			WG531953	04/22/11 15:37
Acenaphthene	< .001	mg/l			WG531953	04/22/11 15:37
Acenaphthylene	< .001	mg/l			WG531953	04/22/11 15:37
Anthracene	< .001	mg/l			WG531953	04/22/11 15:37
Benzidine	< .01	mg/l			WG531953	04/22/11 15:37
Benzo(a)anthracene	< .001	mg/l			WG531953	04/22/11 15:37
Benzo(a)pyrene	< .001	mg/l			WG531953	04/22/11 15:37
Benzo(b)fluoranthene	< .001	mg/l			WG531953	04/22/11 15:37
Benzo(g,h,i)perylene	< .001	mg/l			WG531953	04/22/11 15:37
Benzo(k)fluoranthene	< .001	mg/l			WG531953	04/22/11 15:37
Benzylbutyl phthalate	< .001	mg/l			WG531953	04/22/11 15:37
Bis(2-chlorethoxy)methane	< .01	mg/l			WG531953	04/22/11 15:37
Bis(2-chloroethyl)ether	< .01	mg/l			WG531953	04/22/11 15:37
Bis(2-chloroisopropyl)ether	< .01	mg/l			WG531953	04/22/11 15:37
Bis(2-ethylhexyl)phthalate	< .001	mg/l			WG531953	04/22/11 15:37
Chrysene	< .001	mg/l			WG531953	04/22/11 15:37
Di-n-butyl phthalate	< .001	mg/l			WG531953	04/22/11 15:37
Di-n-octyl phthalate	< .001	mg/l			WG531953	04/22/11 15:37
Dibenz(a,h)anthracene	< .001	mg/l			WG531953	04/22/11 15:37
Diethyl phthalate	< .001	mg/l			WG531953	04/22/11 15:37
Dimethyl phthalate	< .001	mg/l			WG531953	04/22/11 15:37
Fluoranthene	< .001	mg/l			WG531953	04/22/11 15:37
Fluorene	< .001	mg/l			WG531953	04/22/11 15:37

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

ESC
L·A·B S·C·I·E·N·C·E·S
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

AECOM Inc. - Fort Collins, CO
Mr. Dustin Krajewski
1601 Prospect Parkway

Fort Collins, CO 80525

Quality Assurance Report
Level II

L512036

May 09, 2011

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Acrylonitrile	< .01	mg/l			WG532097	04/20/11 23:22
Benzene	< .001	mg/l			WG532097	04/20/11 23:22
Bromobenzene	< .001	mg/l			WG532097	04/20/11 23:22
Bromodichloromethane	< .001	mg/l			WG532097	04/20/11 23:22
Bromoform	< .001	mg/l			WG532097	04/20/11 23:22
Bromomethane	< .005	mg/l			WG532097	04/20/11 23:22
Carbon tetrachloride	< .001	mg/l			WG532097	04/20/11 23:22
Chlorobenzene	< .001	mg/l			WG532097	04/20/11 23:22
Chlorodibromomethane	< .001	mg/l			WG532097	04/20/11 23:22
Chloroethane	< .005	mg/l			WG532097	04/20/11 23:22
Chloroform	< .005	mg/l			WG532097	04/20/11 23:22
Chloromethane	< .0025	mg/l			WG532097	04/20/11 23:22
cis-1,2-Dichloroethene	< .001	mg/l			WG532097	04/20/11 23:22
cis-1,3-Dichloropropene	< .001	mg/l			WG532097	04/20/11 23:22
Di-isopropyl ether	< .001	mg/l			WG532097	04/20/11 23:22
Dibromomethane	< .001	mg/l			WG532097	04/20/11 23:22
Dichlorodifluoromethane	< .005	mg/l			WG532097	04/20/11 23:22
Ethanol	< .1	mg/l			WG532097	04/20/11 23:22
Ethyl tert-butyl ether	< .001	mg/l			WG532097	04/20/11 23:22
Ethylbenzene	< .001	mg/l			WG532097	04/20/11 23:22
Hexachloro-1,3-butadiene	< .001	mg/l			WG532097	04/20/11 23:22
Isopropylbenzene	< .001	mg/l			WG532097	04/20/11 23:22
Methyl tert-butyl ether	< .001	mg/l			WG532097	04/20/11 23:22
Methylene Chloride	< .005	mg/l			WG532097	04/20/11 23:22
n-Butylbenzene	< .001	mg/l			WG532097	04/20/11 23:22
n-Propylbenzene	< .001	mg/l			WG532097	04/20/11 23:22
Naphthalene	< .005	mg/l			WG532097	04/20/11 23:22
p-Isopropyltoluene	< .001	mg/l			WG532097	04/20/11 23:22
sec-Butylbenzene	< .001	mg/l			WG532097	04/20/11 23:22
Styrene	< .001	mg/l			WG532097	04/20/11 23:22
tert-Amyl Methyl Ether	< .001	mg/l			WG532097	04/20/11 23:22
tert-Butyl alcohol	< .05	mg/l			WG532097	04/20/11 23:22
tert-Butylbenzene	< .001	mg/l			WG532097	04/20/11 23:22
Tetrachloroethene	< .001	mg/l			WG532097	04/20/11 23:22
Toluene	< .005	mg/l			WG532097	04/20/11 23:22
trans-1,2-Dichloroethene	< .001	mg/l			WG532097	04/20/11 23:22
trans-1,3-Dichloropropene	< .001	mg/l			WG532097	04/20/11 23:22
Trichloroethene	< .001	mg/l			WG532097	04/20/11 23:22
Trichlorofluoromethane	< .005	mg/l			WG532097	04/20/11 23:22
Vinyl chloride	< .001	mg/l			WG532097	04/20/11 23:22
Xylenes, Total	< .003	mg/l			WG532097	04/20/11 23:22
4-Bromofluorobenzene		% Rec.	98.83	75-128	WG532097	04/20/11 23:22
Dibromofluoromethane		% Rec.	103.4	79-125	WG532097	04/20/11 23:22
Toluene-d8		% Rec.	102.4	87-114	WG532097	04/20/11 23:22
a,a,a-Trifluorotoluene		% Rec.	107.2	84-114	WG532097	04/20/11 23:22
TPH (GC/FID) Low Fraction	< .1	mg/l			WG532532	04/25/11 16:16
a,a,a-Trifluorotoluene(FID)		% Rec.	98.33	62-128	WG532532	04/25/11 16:16
Ammonia Nitrogen	< .1	mg/l			WG532498	04/26/11 11:55
DOC	< 1	mg/l			WG532702	04/26/11 08:00
Acetone	< .05	mg/l			WG532957	04/27/11 11:09
tert-Butyl alcohol	< .05	mg/l			WG532957	04/27/11 11:09

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

ESC
L·A·B S·C·I·E·N·C·E·S
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

AECOM Inc. - Fort Collins, CO
Mr. Dustin Krajewski
1601 Prospect Parkway

Fort Collins, CO 80525

Quality Assurance Report
Level II

L512036

May 09, 2011

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Di-n-octyl phthalate	< .001	mg/l			WG532047	04/23/11 10:24
Dibenz(a,h)anthracene	< .001	mg/l			WG532047	04/23/11 10:24
Diethyl phthalate	< .001	mg/l			WG532047	04/23/11 10:24
Dimethyl phthalate	< .001	mg/l			WG532047	04/23/11 10:24
Fluoranthene	< .001	mg/l			WG532047	04/23/11 10:24
Fluorene	< .001	mg/l			WG532047	04/23/11 10:24
Hexachloro-1,3-butadiene	< .01	mg/l			WG532047	04/23/11 10:24
Hexachlorobenzene	< .001	mg/l			WG532047	04/23/11 10:24
Hexachlorocyclopentadiene	< .01	mg/l			WG532047	04/23/11 10:24
Hexachloroethane	< .01	mg/l			WG532047	04/23/11 10:24
Indeno(1,2,3-cd)pyrene	< .001	mg/l			WG532047	04/23/11 10:24
Isophorone	< .01	mg/l			WG532047	04/23/11 10:24
n-Nitrosodi-n-propylamine	< .01	mg/l			WG532047	04/23/11 10:24
n-Nitrosodimethylamine	< .01	mg/l			WG532047	04/23/11 10:24
n-Nitrosodiphenylamine	< .01	mg/l			WG532047	04/23/11 10:24
Naphthalene	< .001	mg/l			WG532047	04/23/11 10:24
Nitrobenzene	< .01	mg/l			WG532047	04/23/11 10:24
Pentachlorophenol	< .001	mg/l			WG532047	04/23/11 10:24
Phenanthrene	< .001	mg/l			WG532047	04/23/11 10:24
Phenol	< .01	mg/l			WG532047	04/23/11 10:24
Pyrene	< .001	mg/l			WG532047	04/23/11 10:24
2,4,6-Tribromophenol		mg/l	85.44	10-148	WG532047	04/23/11 10:24
2-Fluorobiphenyl		mg/l	75.55	26-122	WG532047	04/23/11 10:24
2-Fluorophenol		mg/l	57.80	10-87	WG532047	04/23/11 10:24
Nitrobenzene-d5		mg/l	68.45	12-120	WG532047	04/23/11 10:24
Phenol-d5		mg/l	46.13	10-67	WG532047	04/23/11 10:24
p-Terphenyl-d14		mg/l	110.3	34-149	WG532047	04/23/11 10:24
1,1,1,2-Tetrachloroethane	< .001	mg/l			WG532097	04/20/11 23:22
1,1,1-Trichloroethane	< .001	mg/l			WG532097	04/20/11 23:22
1,1,2,2-Tetrachloroethane	< .001	mg/l			WG532097	04/20/11 23:22
1,1,2-Trichloroethane	< .001	mg/l			WG532097	04/20/11 23:22
1,1,2-Trichloro-1,2,2-trifluoroethane	< .001	mg/l			WG532097	04/20/11 23:22
1,1-Dichloroethane	< .001	mg/l			WG532097	04/20/11 23:22
1,1-Dichloroethene	< .001	mg/l			WG532097	04/20/11 23:22
1,1-Dichloropropene	< .001	mg/l			WG532097	04/20/11 23:22
1,2,3-Trichlorobenzene	< .001	mg/l			WG532097	04/20/11 23:22
1,2,3-Trichloropropane	< .001	mg/l			WG532097	04/20/11 23:22
1,2,3-Trimethylbenzene	< .001	mg/l			WG532097	04/20/11 23:22
1,2,4-Trichlorobenzene	< .001	mg/l			WG532097	04/20/11 23:22
1,2,4-Trimethylbenzene	< .001	mg/l			WG532097	04/20/11 23:22
1,2-Dibromo-3-Chloropropane	< .005	mg/l			WG532097	04/20/11 23:22
1,2-Dibromoethane	< .001	mg/l			WG532097	04/20/11 23:22
1,2-Dichlorobenzene	< .001	mg/l			WG532097	04/20/11 23:22
1,2-Dichloroethane	< .001	mg/l			WG532097	04/20/11 23:22
1,2-Dichloropropane	< .001	mg/l			WG532097	04/20/11 23:22
1,3,5-Trimethylbenzene	< .001	mg/l			WG532097	04/20/11 23:22
1,3-Dichlorobenzene	< .001	mg/l			WG532097	04/20/11 23:22
1,3-Dichloropropane	< .001	mg/l			WG532097	04/20/11 23:22
1,4-Dichlorobenzene	< .001	mg/l			WG532097	04/20/11 23:22
2,2-Dichloropropane	< .001	mg/l			WG532097	04/20/11 23:22
2-Butanone (MEK)	< .01	mg/l			WG532097	04/20/11 23:22
2-Chloroethyl vinyl ether	< .05	mg/l			WG532097	04/20/11 23:22
2-Chlorotoluene	< .001	mg/l			WG532097	04/20/11 23:22
4-Chlorotoluene	< .001	mg/l			WG532097	04/20/11 23:22
4-Methyl-2-pentanone (MIBK)	< .01	mg/l			WG532097	04/20/11 23:22
Acetone	< .05	mg/l			WG532097	04/20/11 23:22
Acrolein	< .025	mg/l			WG532097	04/20/11 23:22

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

ESC
L·A·B S·C·I·E·N·C·E·S
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

AECOM Inc. - Fort Collins, CO
Mr. Dustin Krajewski
1601 Prospect Parkway

Fort Collins, CO 80525

Quality Assurance Report
Level II

L512036

May 09, 2011

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
4-Bromophenyl-phenylether	mg/l	.01	0.0104	104.	45-105	WG531953
4-Chloro-3-methylphenol	mg/l	.01	0.00787	78.7	47-116	WG531953
4-Chlorophenyl-phenylether	mg/l	.01	0.00975	97.5	49-116	WG531953
4-Nitrophenol	mg/l	.01	0.00188	18.8	10-66	WG531953
Acenaphthene	mg/l	.01	0.00928	92.8	48-110	WG531953
Acenaphthylene	mg/l	.01	0.00978	97.8	48-113	WG531953
Anthracene	mg/l	.01	0.0102	102.	55-127	WG531953
Benzidine	mg/l	.01	0.000138	1.38	0-46	WG531953
Benzo(a)anthracene	mg/l	.01	0.00985	98.5	57-115	WG531953
Benzo(a)pyrene	mg/l	.01	0.00944	94.4	63-125	WG531953
Benzo(b)fluoranthene	mg/l	.01	0.00990	99.0	50-123	WG531953
Benzo(g,h,i)perylene	mg/l	.01	0.00865	86.5	39-143	WG531953
Benzo(k)fluoranthene	mg/l	.01	0.00974	97.4	45-126	WG531953
Benzylbutyl phthalate	mg/l	.01	0.00440	44.0	22-154	WG531953
Bis(2-chlorethoxy)methane	mg/l	.01	0.0103	103.	42-116	WG531953
Bis(2-chloroethyl)ether	mg/l	.01	0.00992	99.2	26-115	WG531953
Bis(2-chloroisopropyl)ether	mg/l	.01	0.00950	95.0	32-115	WG531953
Bis(2-ethylhexyl)phthalate	mg/l	.01	0.0121	121.	47-143	WG531953
Chrysene	mg/l	.01	0.00976	97.6	58-113	WG531953
Di-n-butyl phthalate	mg/l	.01	0.00801	80.1	51-131	WG531953
Di-n-octyl phthalate	mg/l	.01	0.0113	113.	51-138	WG531953
Dibenz(a,h)anthracene	mg/l	.01	0.00852	85.2	39-144	WG531953
Diethyl phthalate	mg/l	.01	0.00525	52.5	36-128	WG531953
Dimethyl phthalate	mg/l	.01	0.00208	20.8	10-135	WG531953
Fluoranthene	mg/l	.01	0.00973	97.3	53-119	WG531953
Fluorene	mg/l	.01	0.00925	92.5	49-116	WG531953
Hexachloro-1,3-butadiene	mg/l	.01	0.00863	86.3	21-116	WG531953
Hexachlorobenzene	mg/l	.01	0.00960	96.0	51-121	WG531953
Hexachlorocyclopentadiene	mg/l	.01	0.00691	69.1	4-126	WG531953
Hexachloroethane	mg/l	.01	0.00787	78.7	15-109	WG531953
Indeno(1,2,3-cd)pyrene	mg/l	.01	0.00872	87.2	40-143	WG531953
Isophorone	mg/l	.01	0.00927	92.7	48-126	WG531953
n-Nitrosodi-n-propylamine	mg/l	.01	0.0103	103.	47-122	WG531953
n-Nitrosodimethylamine	mg/l	.01	0.00525	52.5	11-69	WG531953
n-Nitrosodiphenylamine	mg/l	.01	0.00857	85.7	59-143	WG531953
Naphthalene	mg/l	.01	0.00819	81.9	29-103	WG531953
Nitrobenzene	mg/l	.01	0.00859	85.9	31-105	WG531953
Pentachlorophenol	mg/l	.01	0.00681	68.1	20-122	WG531953
Phenanthrene	mg/l	.01	0.00935	93.5	54-112	WG531953
Phenol	mg/l	.01	0.00302	30.2	17-52	WG531953
Pyrene	mg/l	.01	0.00972	97.2	46-130	WG531953
2,4,6-Tribromophenol				106.9	10-148	WG531953
2-Fluorobiphenyl				95.18	26-122	WG531953
2-Fluorophenol				43.70	10-87	WG531953
Nitrobenzene-d5				89.50	12-120	WG531953
Phenol-d5				29.08	10-67	WG531953
p-Terphenyl-d14				122.5	34-149	WG531953
TPH (GC/FID) Low Fraction	mg/l	5.5	5.57	101.	70-124	WG531857
a,a,a-Trifluorotoluene(FID)				105.0	62-128	WG531857
1,2,4-Trichlorobenzene	mg/l	.01	0.00597	59.7	26-103	WG532047
2,4,6-Trichlorophenol	mg/l	.01	0.00708	70.8	49-118	WG532047
2,4-Dichlorophenol	mg/l	.01	0.00734	73.4	46-115	WG532047
2,4-Dimethylphenol	mg/l	.01	0.00683	68.3	40-124	WG532047
2,4-Dinitrophenol	mg/l	.01	0.00386	38.6	10-125	WG532047
2,4-Dinitrotoluene	mg/l	.01	0.00869	86.9	56-128	WG532047

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

ESC
L·A·B S·C·I·E·N·C·E·S
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

AECOM Inc. - Fort Collins, CO
Mr. Dustin Krajewski
1601 Prospect Parkway

Fort Collins, CO 80525

Quality Assurance Report
Level II

L512036

May 09, 2011

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Toluene	< .005	mg/l			WG532957	04/27/11 11:09
Xylenes, Total	< .003	mg/l			WG532957	04/27/11 11:09
4-Bromofluorobenzene		% Rec.	107.3	75-128	WG532957	04/27/11 11:09
Dibromofluoromethane		% Rec.	104.2	79-125	WG532957	04/27/11 11:09
Toluene-d8		% Rec.	100.6	87-114	WG532957	04/27/11 11:09
a,a,a-Trifluorotoluene		% Rec.	104.8	84-114	WG532957	04/27/11 11:09

Duplicate

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
Nitrate	mg/l	1100	1100	1.83	20	L511942-05	WG531806
Nitrite	mg/l	0	0	0	20	L512044-05	WG531806
Nitrate	mg/l	0	0	0	20	L511975-01	WG531808
Nitrate	mg/l	0	0	0	20	L512031-04	WG531808
Sulfate	mg/l	49.0	49.0	0	20	L512259-01	WG532074
Ammonia Nitrogen	mg/l	0	0	0	20	L512036-02	WG532498
Ammonia Nitrogen	mg/l	4.70	4.10	14.1	20	L511998-01	WG532498
DOC	mg/l	16.0	17.0	5.50	20	L512036-01	WG532702

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Bromide	mg/l	40	40.9	102.	90-110	WG531806
Chloride	mg/l	40	40.9	102.	90-110	WG531806
Fluoride	mg/l	8	8.20	103.	90-110	WG531806
Nitrate	mg/l	8	8.32	104.	90-110	WG531806
Nitrite	mg/l	8	8.06	101.	90-110	WG531806
Bromide	mg/l	40	41.2	103.	90-110	WG531808
Chloride	mg/l	40	41.2	103.	90-110	WG531808
Fluoride	mg/l	8	8.24	103.	90-110	WG531808
Nitrate	mg/l	8	8.32	104.	90-110	WG531808
Nitrite	mg/l	8	8.19	102.	90-110	WG531808
Sulfate	mg/l	40	41.0	103.	90-110	WG532074
1,2,4-Trichlorobenzene	mg/l	.01	0.00749	74.9	26-103	WG531953
2,4,6-Trichlorophenol	mg/l	.01	0.00880	88.0	49-118	WG531953
2,4-Dichlorophenol	mg/l	.01	0.00802	80.2	46-115	WG531953
2,4-Dimethylphenol	mg/l	.01	0.00777	77.7	40-124	WG531953
2,4-Dinitrophenol	mg/l	.01	0.00686	68.6	10-125	WG531953
2,4-Dinitrotoluene	mg/l	.01	0.00960	96.0	56-128	WG531953
2,6-Dinitrotoluene	mg/l	.01	0.00904	90.4	56-121	WG531953
2-Chloronaphthalene	mg/l	.01	0.00862	86.2	44-110	WG531953
2-Chlorophenol	mg/l	.01	0.00710	71.0	38-114	WG531953
2-Nitrophenol	mg/l	.01	0.00882	88.2	35-118	WG531953
3,3-Dichlorobenzidine	mg/l	.01	0.00811	81.1	46-145	WG531953
4,6-Dinitro-2-methylphenol	mg/l	.01	0.00721	72.1	24-119	WG531953

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

ESC
L·A·B S·C·I·E·N·C·E·S
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

AECOM Inc. - Fort Collins, CO
Mr. Dustin Krajewski
1601 Prospect Parkway

Fort Collins, CO 80525

Quality Assurance Report
Level II

L512036

May 09, 2011

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/l	.025	0.0277	111.	51-149	WG532097
1,1-Dichloroethane	mg/l	.025	0.0250	100.	67-133	WG532097
1,1-Dichloroethene	mg/l	.025	0.0252	101.	60-130	WG532097
1,1-Dichloropropene	mg/l	.025	0.0239	95.5	68-132	WG532097
1,2,3-Trichlorobenzene	mg/l	.025	0.0253	101.	63-138	WG532097
1,2,3-Trichloropropane	mg/l	.025	0.0229	91.8	68-130	WG532097
1,2,3-Trimethylbenzene	mg/l	.025	0.0232	92.8	70-127	WG532097
1,2,4-Trichlorobenzene	mg/l	.025	0.0258	103.	65-137	WG532097
1,2,4-Trimethylbenzene	mg/l	.025	0.0240	96.1	72-135	WG532097
1,2-Dibromo-3-Chloropropane	mg/l	.025	0.0241	96.3	55-134	WG532097
1,2-Dibromoethane	mg/l	.025	0.0236	94.6	75-126	WG532097
1,2-Dichlorobenzene	mg/l	.025	0.0236	94.5	75-122	WG532097
1,2-Dichloroethane	mg/l	.025	0.0233	93.1	63-137	WG532097
1,2-Dichloropropane	mg/l	.025	0.0243	97.2	74-122	WG532097
1,3,5-Trimethylbenzene	mg/l	.025	0.0243	97.3	73-134	WG532097
1,3-Dichlorobenzene	mg/l	.025	0.0232	92.8	73-131	WG532097
1,3-Dichloropropane	mg/l	.025	0.0235	94.1	77-119	WG532097
1,4-Dichlorobenzene	mg/l	.025	0.0230	92.0	70-121	WG532097
2,2-Dichloropropane	mg/l	.025	0.0271	108.	46-151	WG532097
2-Butanone (MEK)	mg/l	.125	0.119	95.5	53-132	WG532097
2-Chloroethyl vinyl ether	mg/l	.125	0.0950	76.0	0-171	WG532097
2-Chlorotoluene	mg/l	.025	0.0229	91.6	74-128	WG532097
4-Chlorotoluene	mg/l	.025	0.0232	92.9	74-130	WG532097
4-Methyl-2-pentanone (MIBK)	mg/l	.125	0.120	95.8	60-142	WG532097
Acetone	mg/l	.125	0.121	96.8	48-134	WG532097
Acrolein	mg/l	.125	0.0950	76.0	6-182	WG532097
Acrylonitrile	mg/l	.125	0.126	101.	60-140	WG532097
Benzene	mg/l	.025	0.0231	92.3	67-126	WG532097
Bromobenzene	mg/l	.025	0.0226	90.5	76-123	WG532097
Bromodichloromethane	mg/l	.025	0.0224	89.5	68-133	WG532097
Bromoform	mg/l	.025	0.0240	95.8	60-139	WG532097
Bromomethane	mg/l	.025	0.0225	89.9	45-175	WG532097
Carbon tetrachloride	mg/l	.025	0.0232	92.6	64-141	WG532097
Chlorobenzene	mg/l	.025	0.0235	94.0	77-125	WG532097
Chlorodibromomethane	mg/l	.025	0.0229	91.7	73-138	WG532097
Chloroethane	mg/l	.025	0.0226	90.6	49-155	WG532097
Chloroform	mg/l	.025	0.0248	99.2	66-126	WG532097
Chloromethane	mg/l	.025	0.0219	87.7	45-152	WG532097
cis-1,2-Dichloroethene	mg/l	.025	0.0247	98.8	72-128	WG532097
cis-1,3-Dichloropropene	mg/l	.025	0.0234	93.7	73-131	WG532097
Di-isopropyl ether	mg/l	.025	0.0248	99.3	63-139	WG532097
Dibromomethane	mg/l	.025	0.0230	92.2	73-125	WG532097
Dichlorodifluoromethane	mg/l	.025	0.0244	97.7	39-189	WG532097
Ethylbenzene	mg/l	.025	0.0236	94.6	76-129	WG532097
Hexachloro-1,3-butadiene	mg/l	.025	0.0243	97.1	67-135	WG532097
Isopropylbenzene	mg/l	.025	0.0266	107.	73-132	WG532097
Methyl tert-butyl ether	mg/l	.025	0.0259	104.	51-142	WG532097
Methylene Chloride	mg/l	.025	0.0251	100.	64-125	WG532097
n-Butylbenzene	mg/l	.025	0.0248	99.2	63-142	WG532097
n-Propylbenzene	mg/l	.025	0.0237	94.7	71-132	WG532097
Naphthalene	mg/l	.025	0.0244	97.8	56-145	WG532097
p-Isopropyltoluene	mg/l	.025	0.0251	101.	68-138	WG532097
sec-Butylbenzene	mg/l	.025	0.0248	99.1	70-135	WG532097
Styrene	mg/l	.025	0.0176	70.6*	78-130	WG532097
tert-Butylbenzene	mg/l	.025	0.0248	99.3	72-134	WG532097
Tetrachloroethene	mg/l	.025	0.0229	91.6	67-135	WG532097
Toluene	mg/l	.025	0.0216	86.3	72-122	WG532097
trans-1,2-Dichloroethene	mg/l	.025	0.0230	92.1	67-129	WG532097
trans-1,3-Dichloropropene	mg/l	.025	0.0220	88.0	66-137	WG532097

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

ESC
L·A·B S·C·I·E·N·C·E·S
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

AECOM Inc. - Fort Collins, CO
Mr. Dustin Krajewski
1601 Prospect Parkway

Fort Collins, CO 80525

Quality Assurance Report
Level II

L512036

May 09, 2011

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
2,6-Dinitrotoluene	mg/l	.01	0.00853	85.3	56-121	WG532047
2-Chloronaphthalene	mg/l	.01	0.00751	75.1	44-110	WG532047
2-Chlorophenol	mg/l	.01	0.00647	64.7	38-114	WG532047
2-Nitrophenol	mg/l	.01	0.00711	71.1	35-118	WG532047
3,3-Dichlorobenzidine	mg/l	.01	0.00821	82.1	46-145	WG532047
4,6-Dinitro-2-methylphenol	mg/l	.01	0.00450	45.0	24-119	WG532047
4-Bromophenyl-phenylether	mg/l	.01	0.00909	90.9	45-105	WG532047
4-Chloro-3-methylphenol	mg/l	.01	0.00791	79.1	47-116	WG532047
4-Chlorophenyl-phenylether	mg/l	.01	0.00832	83.2	49-116	WG532047
4-Nitrophenol	mg/l	.01	0.00189	18.9	10-66	WG532047
Acenaphthene	mg/l	.01	0.00812	81.2	48-110	WG532047
Acenaphthylene	mg/l	.01	0.00877	87.7	48-113	WG532047
Anthracene	mg/l	.01	0.00947	94.7	55-127	WG532047
Benzidine	mg/l	.01	0.000108	1.08	0-46	WG532047
Benzo(a)anthracene	mg/l	.01	0.00911	91.1	57-115	WG532047
Benzo(a)pyrene	mg/l	.01	0.00931	93.1	63-125	WG532047
Benzo(b)fluoranthene	mg/l	.01	0.00900	90.0	50-123	WG532047
Benzo(g,h,i)perylene	mg/l	.01	0.00944	94.4	39-143	WG532047
Benzo(k)fluoranthene	mg/l	.01	0.00914	91.4	45-126	WG532047
Benzylbutyl phthalate	mg/l	.01	0.0104	104.	22-154	WG532047
Bis(2-chlorethoxy)methane	mg/l	.01	0.00972	97.2	42-116	WG532047
Bis(2-chloroethyl)ether	mg/l	.01	0.00838	83.8	26-115	WG532047
Bis(2-chloroisopropyl)ether	mg/l	.01	0.00792	79.2	32-115	WG532047
Bis(2-ethylhexyl)phthalate	mg/l	.01	0.00990	99.0	47-143	WG532047
Chrysene	mg/l	.01	0.00929	92.9	58-113	WG532047
Di-n-butyl phthalate	mg/l	.01	0.00997	99.7	51-131	WG532047
Di-n-octyl phthalate	mg/l	.01	0.00986	98.6	51-138	WG532047
Dibenz(a,h)anthracene	mg/l	.01	0.00929	92.9	39-144	WG532047
Diethyl phthalate	mg/l	.01	0.00959	95.9	36-128	WG532047
Dimethyl phthalate	mg/l	.01	0.00946	94.6	10-135	WG532047
Fluoranthene	mg/l	.01	0.00958	95.8	53-119	WG532047
Fluorene	mg/l	.01	0.00869	86.9	49-116	WG532047
Hexachloro-1,3-butadiene	mg/l	.01	0.00658	65.8	21-116	WG532047
Hexachlorobenzene	mg/l	.01	0.00874	87.4	51-121	WG532047
Hexachlorocyclopentadiene	mg/l	.01	0.00503	50.3	4-126	WG532047
Hexachloroethane	mg/l	.01	0.00573	57.3	15-109	WG532047
Indeno(1,2,3-cd)pyrene	mg/l	.01	0.00929	92.9	40-143	WG532047
Isophorone	mg/l	.01	0.00897	89.7	48-126	WG532047
n-Nitrosodi-n-propylamine	mg/l	.01	0.00887	88.7	47-122	WG532047
n-Nitrosodimethylamine	mg/l	.01	0.00549	54.9	11-69	WG532047
n-Nitrosodiphenylamine	mg/l	.01	0.00728	72.8	59-143	WG532047
Naphthalene	mg/l	.01	0.00731	73.1	29-103	WG532047
Nitrobenzene	mg/l	.01	0.00792	79.2	31-105	WG532047
Pentachlorophenol	mg/l	.01	0.00455	45.5	20-122	WG532047
Phenanthrene	mg/l	.01	0.00879	87.9	54-112	WG532047
Phenol	mg/l	.01	0.00392	39.2	17-52	WG532047
Pyrene	mg/l	.01	0.00920	92.0	46-130	WG532047
2,4,6-Tribromophenol				90.19	10-148	WG532047
2-Fluorobiphenyl				76.72	26-122	WG532047
2-Fluorophenol				41.24	10-87	WG532047
Nitrobenzene-d5				81.55	12-120	WG532047
Phenol-d5				38.59	10-67	WG532047
p-Terphenyl-d14				105.2	34-149	WG532047
1,1,1,2-Tetrachloroethane	mg/l	.025	0.0241	96.5	75-134	WG532097
1,1,1-Trichloroethane	mg/l	.025	0.0240	95.9	67-137	WG532097
1,1,2,2-Tetrachloroethane	mg/l	.025	0.0223	89.3	72-128	WG532097
1,1,2-Trichloroethane	mg/l	.025	0.0237	94.8	79-123	WG532097

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

ESC LAB SCIENCES
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

AECOM Inc. - Fort Collins, CO
Mr. Dustin Krajewski
1601 Prospect Parkway

Fort Collins, CO 80525

Quality Assurance Report
Level II

L512036

May 09, 2011

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
4,6-Dinitro-2-methylphenol	mg/l	0.00681	0.00721	68.0	24-119	5.79	50	WG531953
4-Bromophenyl-phenylether	mg/l	0.0105	0.0104	105.	45-105	0.830	26	WG531953
4-Chloro-3-methylphenol	mg/l	0.00748	0.00787	75.0	47-116	5.18	22	WG531953
4-Chlorophenyl-phenylether	mg/l	0.00999	0.00975	100.	49-116	2.47	26	WG531953
4-Nitrophenol	mg/l	0.00183	0.00188	18.0	10-66	2.64	37	WG531953
Acenaphthene	mg/l	0.00926	0.00928	92.0	48-110	0.218	26	WG531953
Acenaphthylene	mg/l	0.00953	0.00978	95.0	48-113	2.61	28	WG531953
Anthracene	mg/l	0.00972	0.0102	97.0	55-127	5.06	24	WG531953
Benzidine	mg/l	0.000119	0.000138	1.00	0-46	14.8	50	WG531953
Benzo(a)anthracene	mg/l	0.00936	0.00985	94.0	57-115	5.10	20	WG531953
Benzo(a)pyrene	mg/l	0.00929	0.00944	93.0	63-125	1.62	22	WG531953
Benzo(b)fluoranthene	mg/l	0.00980	0.00990	98.0	50-123	1.08	32	WG531953
Benzo(g,h,i)perylene	mg/l	0.00839	0.00865	84.0	39-143	3.03	31	WG531953
Benzo(k)fluoranthene	mg/l	0.00877	0.00974	88.0	45-126	10.4	37	WG531953
Benzylbutyl phthalate	mg/l	0.00432	0.00440	43.0	22-154	1.80	29	WG531953
Bis(2-chlorethoxy)methane	mg/l	0.0103	0.0103	103.	42-116	0.459	38	WG531953
Bis(2-chloroethyl)ether	mg/l	0.00943	0.00992	94.0	26-115	5.08	50	WG531953
Bis(2-chloroisopropyl)ether	mg/l	0.00945	0.00950	94.0	32-115	0.609	47	WG531953
Bis(2-ethylhexyl)phthalate	mg/l	0.0115	0.0121	114.	47-143	5.56	24	WG531953
Chrysene	mg/l	0.00921	0.00976	92.0	58-113	5.71	21	WG531953
Di-n-butyl phthalate	mg/l	0.00743	0.00801	74.0	51-131	7.57	22	WG531953
Di-n-octyl phthalate	mg/l	0.0109	0.0113	109.	51-138	3.60	22	WG531953
Dibenz(a,h)anthracene	mg/l	0.00830	0.00852	83.0	39-144	2.54	30	WG531953
Diethyl phthalate	mg/l	0.00489	0.00525	49.0	36-128	6.91	27	WG531953
Dimethyl phthalate	mg/l	0.00219	0.00208	22.0	10-135	5.20	33	WG531953
Fluoranthene	mg/l	0.00935	0.00973	94.0	53-119	3.93	28	WG531953
Fluorene	mg/l	0.00928	0.00925	93.0	49-116	0.359	25	WG531953
Hexachloro-1,3-butadiene	mg/l	0.00891	0.00863	89.0	21-116	3.21	50	WG531953
Hexachlorobenzene	mg/l	0.00963	0.00960	96.0	51-121	0.237	23	WG531953
Hexachlorocyclopentadiene	mg/l	0.00715	0.00691	71.0	4-126	3.38	50	WG531953
Hexachloroethane	mg/l	0.00766	0.00787	76.0	15-109	2.66	50	WG531953
Indeno(1,2,3-cd)pyrene	mg/l	0.00841	0.00872	84.0	40-143	3.67	30	WG531953
Isophorone	mg/l	0.00916	0.00927	92.0	48-126	1.17	31	WG531953
n-Nitrosodi-n-propylamine	mg/l	0.0100	0.0103	100.	47-122	2.77	33	WG531953
n-Nitrosodimethylamine	mg/l	0.00462	0.00525	46.0	11-69	12.7	50	WG531953
n-Nitrosodiphenylamine	mg/l	0.00833	0.00857	83.0	59-143	2.88	23	WG531953
Naphthalene	mg/l	0.00839	0.00819	84.0	29-103	2.36	45	WG531953
Nitrobenzene	mg/l	0.00874	0.00859	87.0	31-105	1.74	43	WG531953
Pentachlorophenol	mg/l	0.00621	0.00681	62.0	20-122	9.29	50	WG531953
Phenanthrene	mg/l	0.00910	0.00935	91.0	54-112	2.63	22	WG531953
Phenol	mg/l	0.00228	0.00302	23.0	17-52	28.0	33	WG531953
Pyrene	mg/l	0.00954	0.00972	95.0	46-130	1.86	28	WG531953
2,4,6-Tribromophenol				99.32	10-148			WG531953
2-Fluorobiphenyl				95.62	26-122			WG531953
2-Fluorophenol				40.89	10-87			WG531953
Nitrobenzene-d5				93.81	12-120			WG531953
Phenol-d5				27.13	10-67			WG531953
p-Terphenyl-d14				116.5	34-149			WG531953
TPH (GC/FID) Low Fraction	mg/l	5.37	5.57	98.0	70-124	3.65	20	WG531857
a,a,a-Trifluorotoluene(FID)				103.7	62-128			WG531857
1,2,4-Trichlorobenzene	mg/l	0.00586	0.00597	59.0	26-103	1.81	38	WG532047
2,4,6-Trichlorophenol	mg/l	0.00807	0.00708	81.0	49-118	13.1	28	WG532047
2,4-Dichlorophenol	mg/l	0.00799	0.00734	80.0	46-115	8.46	28	WG532047
2,4-Dimethylphenol	mg/l	0.00859	0.00683	86.0	40-124	22.8	36	WG532047
2,4-Dinitrophenol	mg/l	0.00617	0.00386	62.0	10-125	46.1	50	WG532047

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

ESC
L·A·B S·C·I·E·N·C·E·S
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

AECOM Inc. - Fort Collins, CO
Mr. Dustin Krajewski
1601 Prospect Parkway

Fort Collins, CO 80525

Quality Assurance Report
Level II

L512036

May 09, 2011

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Trichloroethene	mg/l	.025	0.0225	89.9	74-126	WG532097
Trichlorofluoromethane	mg/l	.025	0.0250	100.	54-156	WG532097
Vinyl chloride	mg/l	.025	0.0213	85.3	55-153	WG532097
Xylenes, Total	mg/l	.075	0.0709	94.6	75-128	WG532097
4-Bromofluorobenzene				102.4	75-128	WG532097
Dibromofluoromethane				102.8	79-125	WG532097
Toluene-d8				102.3	87-114	WG532097
a,a,a-Trifluorotoluene				103.9	84-114	WG532097
TPH (GC/FID) Low Fraction	mg/l	5.5	6.36	116.	70-124	WG532532
a,a,a-Trifluorotoluene(FID)				103.8	62-128	WG532532
Ammonia Nitrogen	mg/l	7.5	6.84	91.2	90-110	WG532498
DOC	mg/l	75	75.5	101.	85-115	WG532702
Acetone	mg/l	.125	0.0859	68.7	48-134	WG532957
Toluene	mg/l	.025	0.0202	80.7	72-122	WG532957
Xylenes, Total	mg/l	.075	0.0649	86.6	75-128	WG532957
4-Bromofluorobenzene				98.43	75-128	WG532957
Dibromofluoromethane				98.72	79-125	WG532957
Toluene-d8				99.98	87-114	WG532957
a,a,a-Trifluorotoluene				105.4	84-114	WG532957

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
Bromide	mg/l	41.3	40.9	103.	90-110	0.973	20	WG531806
Chloride	mg/l	41.4	40.9	104.	90-110	1.22	20	WG531806
Fluoride	mg/l	8.29	8.20	104.	90-110	1.09	20	WG531806
Nitrate	mg/l	8.41	8.32	105.	90-110	1.08	20	WG531806
Nitrite	mg/l	8.20	8.06	102.	90-110	1.72	20	WG531806
Bromide	mg/l	41.2	41.2	103.	90-110	0	20	WG531808
Chloride	mg/l	41.3	41.2	103.	90-110	0.242	20	WG531808
Fluoride	mg/l	8.36	8.24	104.	90-110	1.45	20	WG531808
Nitrate	mg/l	8.33	8.32	104.	90-110	0.120	20	WG531808
Nitrite	mg/l	8.20	8.19	102.	90-110	0.122	20	WG531808
Sulfate	mg/l	41.3	41.0	103.	90-110	0.729	20	WG532074
1,2,4-Trichlorobenzene	mg/l	0.00742	0.00749	74.0	26-103	0.913	38	WG531953
2,4,6-Trichlorophenol	mg/l	0.00802	0.00880	80.0	49-118	9.27	28	WG531953
2,4-Dichlorophenol	mg/l	0.00761	0.00802	76.0	46-115	5.30	28	WG531953
2,4-Dimethylphenol	mg/l	0.00772	0.00777	77.0	40-124	0.637	36	WG531953
2,4-Dinitrophenol	mg/l	0.00705	0.00686	70.0	10-125	2.70	50	WG531953
2,4-Dinitrotoluene	mg/l	0.00936	0.00960	94.0	56-128	2.54	24	WG531953
2,6-Dinitrotoluene	mg/l	0.00908	0.00904	91.0	56-121	0.426	23	WG531953
2-Chloronaphthalene	mg/l	0.00877	0.00862	88.0	44-110	1.77	30	WG531953
2-Chlorophenol	mg/l	0.00662	0.00710	66.0	38-114	6.98	36	WG531953
2-Nitrophenol	mg/l	0.00851	0.00882	85.0	35-118	3.60	35	WG531953
3,3-Dichlorobenzidine	mg/l	0.00799	0.00811	80.0	46-145	1.52	31	WG531953

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

ESC LAB SCIENCES
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

AECOM Inc. - Fort Collins, CO
Mr. Dustin Krajewski
1601 Prospect Parkway

Fort Collins, CO 80525

Quality Assurance Report
Level II

L512036

May 09, 2011

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
1,1,2-Trichloroethane	mg/l	0.0219	0.0237	88.0	79-123	8.00	20	WG532097
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/l	0.0242	0.0277	97.0	51-149	13.5	20	WG532097
1,1-Dichloroethane	mg/l	0.0231	0.0250	92.0	67-133	7.96	20	WG532097
1,1-Dichloroethene	mg/l	0.0223	0.0252	89.0	60-130	12.2	20	WG532097
1,1-Dichloropropene	mg/l	0.0214	0.0239	86.0	68-132	10.8	20	WG532097
1,2,3-Trichlorobenzene	mg/l	0.0227	0.0253	91.0	63-138	11.0	20	WG532097
1,2,3-Trichloropropane	mg/l	0.0211	0.0229	84.0	68-130	8.57	20	WG532097
1,2,3-Trimethylbenzene	mg/l	0.0214	0.0232	86.0	70-127	7.97	20	WG532097
1,2,4-Trichlorobenzene	mg/l	0.0229	0.0258	92.0	65-137	11.8	20	WG532097
1,2,4-Trimethylbenzene	mg/l	0.0218	0.0240	87.0	72-135	9.84	20	WG532097
1,2-Dibromo-3-Chloropropane	mg/l	0.0218	0.0241	87.0	55-134	9.95	20	WG532097
1,2-Dibromoethane	mg/l	0.0219	0.0236	88.0	75-126	7.76	20	WG532097
1,2-Dichlorobenzene	mg/l	0.0217	0.0236	87.0	75-122	8.47	20	WG532097
1,2-Dichloroethane	mg/l	0.0219	0.0233	88.0	63-137	6.07	20	WG532097
1,2-Dichloropropane	mg/l	0.0226	0.0243	90.0	74-122	7.26	20	WG532097
1,3,5-Trimethylbenzene	mg/l	0.0220	0.0243	88.0	73-134	10.0	20	WG532097
1,3-Dichlorobenzene	mg/l	0.0216	0.0232	86.0	73-131	7.29	20	WG532097
1,3-Dichloropropane	mg/l	0.0217	0.0235	87.0	77-119	8.00	20	WG532097
1,4-Dichlorobenzene	mg/l	0.0217	0.0230	87.0	70-121	5.75	20	WG532097
2,2-Dichloropropane	mg/l	0.0247	0.0271	99.0	46-151	9.27	20	WG532097
2-Butanone (MEK)	mg/l	0.108	0.119	86.0	53-132	10.3	20	WG532097
2-Chloroethyl vinyl ether	mg/l	0.0631	0.0950	50.0	0-171	40.4*	27	WG532097
2-Chlorotoluene	mg/l	0.0212	0.0229	85.0	74-128	7.84	20	WG532097
4-Chlorotoluene	mg/l	0.0218	0.0232	87.0	74-130	6.50	20	WG532097
4-Methyl-2-pentanone (MIBK)	mg/l	0.115	0.120	92.0	60-142	3.77	20	WG532097
Acetone	mg/l	0.113	0.121	90.0	48-134	6.63	20	WG532097
Acrolein	mg/l	0.0908	0.0950	73.0	6-182	4.45	39	WG532097
Acrylonitrile	mg/l	0.117	0.126	93.0	60-140	7.98	20	WG532097
Benzene	mg/l	0.0214	0.0231	86.0	67-126	7.45	20	WG532097
Bromobenzene	mg/l	0.0208	0.0226	83.0	76-123	8.24	20	WG532097
Bromodichloromethane	mg/l	0.0208	0.0224	83.0	68-133	7.53	20	WG532097
Bromoform	mg/l	0.0214	0.0240	86.0	60-139	11.1	20	WG532097
Bromomethane	mg/l	0.0209	0.0225	84.0	45-175	7.28	20	WG532097
Carbon tetrachloride	mg/l	0.0213	0.0232	85.0	64-141	8.15	20	WG532097
Chlorobenzene	mg/l	0.0212	0.0235	85.0	77-125	10.2	20	WG532097
Chlorodibromomethane	mg/l	0.0211	0.0229	84.0	73-138	8.22	20	WG532097
Chloroethane	mg/l	0.0211	0.0226	84.0	49-155	7.08	20	WG532097
Chloroform	mg/l	0.0226	0.0248	90.0	66-126	9.36	20	WG532097
Chloromethane	mg/l	0.0205	0.0219	82.0	45-152	6.91	20	WG532097
cis-1,2-Dichloroethene	mg/l	0.0233	0.0247	93.0	72-128	5.71	20	WG532097
cis-1,3-Dichloropropene	mg/l	0.0226	0.0234	90.0	73-131	3.58	20	WG532097
Di-isopropyl ether	mg/l	0.0236	0.0248	94.0	63-139	5.05	20	WG532097
Dibromomethane	mg/l	0.0221	0.0230	88.0	73-125	4.02	20	WG532097
Dichlorodifluoromethane	mg/l	0.0213	0.0244	85.0	39-189	13.7	24	WG532097
Ethylbenzene	mg/l	0.0220	0.0236	88.0	76-129	7.31	20	WG532097
Hexachloro-1,3-butadiene	mg/l	0.0206	0.0243	82.0	67-135	16.2	20	WG532097
Isopropylbenzene	mg/l	0.0238	0.0266	95.0	73-132	11.3	20	WG532097
Methyl tert-butyl ether	mg/l	0.0241	0.0259	96.0	51-142	7.26	20	WG532097
Methylene Chloride	mg/l	0.0227	0.0251	91.0	64-125	9.92	20	WG532097
n-Butylbenzene	mg/l	0.0220	0.0248	88.0	63-142	11.8	20	WG532097
n-Propylbenzene	mg/l	0.0216	0.0237	86.0	71-132	9.37	20	WG532097
Naphthalene	mg/l	0.0218	0.0244	87.0	56-145	11.3	20	WG532097
p-Isopropyltoluene	mg/l	0.0226	0.0251	90.0	68-138	10.5	20	WG532097
sec-Butylbenzene	mg/l	0.0221	0.0248	88.0	70-135	11.5	20	WG532097
Styrene	mg/l	0.0162	0.0176	65*	78-130	8.45	20	WG532097
tert-Butylbenzene	mg/l	0.0221	0.0248	88.0	72-134	11.9	20	WG532097
Tetrachloroethene	mg/l	0.0198	0.0229	79.0	67-135	14.4	20	WG532097
Toluene	mg/l	0.0203	0.0216	81.0	72-122	6.06	20	WG532097
trans-1,2-Dichloroethene	mg/l	0.0211	0.0230	84.0	67-129	8.69	20	WG532097

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

ESC LAB SCIENCES
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

AECOM Inc. - Fort Collins, CO
Mr. Dustin Krajewski
1601 Prospect Parkway

Fort Collins, CO 80525

Quality Assurance Report
Level II

L512036

May 09, 2011

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
2,4-Dinitrotoluene	mg/l	0.00895	0.00869	90.0	56-128	3.01	24	WG532047
2,6-Dinitrotoluene	mg/l	0.00851	0.00853	85.0	56-121	0.273	23	WG532047
2-Chloronaphthalene	mg/l	0.00765	0.00751	76.0	44-110	1.75	30	WG532047
2-Chlorophenol	mg/l	0.00726	0.00647	73.0	38-114	11.5	36	WG532047
2-Nitrophenol	mg/l	0.00716	0.00711	72.0	35-118	0.756	35	WG532047
3,3-Dichlorobenzidine	mg/l	0.00902	0.00821	90.0	46-145	9.40	31	WG532047
4,6-Dinitro-2-methylphenol	mg/l	0.00574	0.00450	57.0	24-119	24.3	50	WG532047
4-Bromophenyl-phenylether	mg/l	0.00905	0.00909	90.0	45-105	0.455	26	WG532047
4-Chloro-3-methylphenol	mg/l	0.00849	0.00791	85.0	47-116	7.04	22	WG532047
4-Chlorophenyl-phenylether	mg/l	0.00836	0.00832	84.0	49-116	0.380	26	WG532047
4-Nitrophenol	mg/l	0.00340	0.00189	34.0	10-66	57.0*	37	WG532047
Acenaphthene	mg/l	0.00785	0.00812	78.0	48-110	3.41	26	WG532047
Acenaphthylene	mg/l	0.00846	0.00877	85.0	48-113	3.57	28	WG532047
Anthracene	mg/l	0.00905	0.00947	90.0	55-127	4.58	24	WG532047
Benzidine	mg/l	0.000918	0.000108	9.00	0-46	158.*	50	WG532047
Benzo(a)anthracene	mg/l	0.00907	0.00911	91.0	57-115	0.381	20	WG532047
Benzo(a)pyrene	mg/l	0.00950	0.00931	95.0	63-125	1.99	22	WG532047
Benzo(b)fluoranthene	mg/l	0.00932	0.00900	93.0	50-123	3.55	32	WG532047
Benzo(g,h,i)perylene	mg/l	0.00950	0.00944	95.0	39-143	0.625	31	WG532047
Benzo(k)fluoranthene	mg/l	0.00929	0.00914	93.0	45-126	1.69	37	WG532047
Benzylbutyl phthalate	mg/l	0.0102	0.0104	102.	22-154	2.09	29	WG532047
Bis(2-chlorethoxy)methane	mg/l	0.00950	0.00972	95.0	42-116	2.35	38	WG532047
Bis(2-chloroethyl)ether	mg/l	0.00905	0.00838	90.0	26-115	7.72	50	WG532047
Bis(2-chloroisopropyl)ether	mg/l	0.00846	0.00792	85.0	32-115	6.68	47	WG532047
Bis(2-ethylhexyl)phthalate	mg/l	0.00990	0.00990	99.0	47-143	0.0460	24	WG532047
Chrysene	mg/l	0.00933	0.00929	93.0	58-113	0.477	21	WG532047
Di-n-butyl phthalate	mg/l	0.00990	0.00997	99.0	51-131	0.783	22	WG532047
Di-n-octyl phthalate	mg/l	0.00983	0.00986	98.0	51-138	0.236	22	WG532047
Dibenz(a,h)anthracene	mg/l	0.00931	0.00929	93.0	39-144	0.291	30	WG532047
Diethyl phthalate	mg/l	0.00950	0.00959	95.0	36-128	0.986	27	WG532047
Dimethyl phthalate	mg/l	0.00940	0.00946	94.0	10-135	0.645	33	WG532047
Fluoranthene	mg/l	0.00922	0.00958	92.0	53-119	3.88	28	WG532047
Fluorene	mg/l	0.00853	0.00869	85.0	49-116	1.87	25	WG532047
Hexachloro-1,3-butadiene	mg/l	0.00669	0.00658	67.0	21-116	1.53	50	WG532047
Hexachlorobenzene	mg/l	0.00855	0.00874	86.0	51-121	2.14	23	WG532047
Hexachlorocyclopentadiene	mg/l	0.00494	0.00503	49.0	4-126	1.87	50	WG532047
Hexachloroethane	mg/l	0.00589	0.00573	59.0	15-109	2.64	50	WG532047
Indeno(1,2,3-cd)pyrene	mg/l	0.00937	0.00929	94.0	40-143	0.916	30	WG532047
Isophorone	mg/l	0.00867	0.00897	87.0	48-126	3.35	31	WG532047
n-Nitrosodi-n-propylamine	mg/l	0.00969	0.00887	97.0	47-122	8.86	33	WG532047
n-Nitrosodimethylamine	mg/l	0.00531	0.00549	53.0	11-69	3.35	50	WG532047
n-Nitrosodiphenylamine	mg/l	0.00788	0.00728	79.0	59-143	7.90	23	WG532047
Naphthalene	mg/l	0.00709	0.00731	71.0	29-103	3.04	45	WG532047
Nitrobenzene	mg/l	0.00800	0.00792	80.0	31-105	1.07	43	WG532047
Pentachlorophenol	mg/l	0.00553	0.00455	55.0	20-122	19.4	50	WG532047
Phenanthrene	mg/l	0.00865	0.00879	86.0	54-112	1.55	22	WG532047
Phenol	mg/l	0.00442	0.00392	44.0	17-52	12.0	33	WG532047
Pyrene	mg/l	0.00901	0.00920	90.0	46-130	2.05	28	WG532047
2,4,6-Tribromophenol				93.84	10-148			WG532047
2-Fluorobiphenyl				73.99	26-122			WG532047
2-Fluorophenol				54.16	10-87			WG532047
Nitrobenzene-d5				79.93	12-120			WG532047
Phenol-d5				46.01	10-67			WG532047
p-Terphenyl-d14				102.8	34-149			WG532047
1,1,1,2-Tetrachloroethane	mg/l	0.0215	0.0241	86.0	75-134	11.3	20	WG532097
1,1,1-Trichloroethane	mg/l	0.0222	0.0240	89.0	67-137	7.86	20	WG532097
1,1,2,2-Tetrachloroethane	mg/l	0.0209	0.0223	84.0	72-128	6.52	20	WG532097

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

ESC
L·A·B S·C·I·E·N·C·E·S
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

AECOM Inc. - Fort Collins, CO
Mr. Dustin Krajewski
1601 Prospect Parkway

Fort Collins, CO 80525

Quality Assurance Report
Level II

L512036

May 09, 2011

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Benzo(a)anthracene	mg/l	0.00936	0	.01	93.6	43-117	L512116-03	WG531953
Benzo(a)pyrene	mg/l	0.00953	0	.01	95.2	33-137	L512116-03	WG531953
Benzo(b)fluoranthene	mg/l	0.0102	0	.01	102.	35-128	L512116-03	WG531953
Benzo(g,h,i)perylene	mg/l	0.00750	0	.01	75.0	10-139	L512116-03	WG531953
Benzo(k)fluoranthene	mg/l	0.00934	0	.01	93.4	36-119	L512116-03	WG531953
Benzylbutyl phthalate	mg/l	0.00892	0	.01	89.2	47-121	L512116-03	WG531953
Bis(2-chlorethoxy)methane	mg/l	0.00992	0	.01	99.2	21-135	L512116-03	WG531953
Bis(2-chloroethyl)ether	mg/l	0.00927	0	.01	92.7	10-134	L512116-03	WG531953
Bis(2-chloroisopropyl)ether	mg/l	0.00882	0	.01	88.2	14-124	L512116-03	WG531953
Bis(2-ethylhexyl)phthalate	mg/l	0.0105	0.000899	.01	96.0	10-115	L512116-03	WG531953
Chrysene	mg/l	0.00941	0	.01	94.1	41-117	L512116-03	WG531953
Di-n-butyl phthalate	mg/l	0.0101	0	.01	101.	46-121	L512116-03	WG531953
Di-n-octyl phthalate	mg/l	0.00925	0	.01	92.5	22-109	L512116-03	WG531953
Dibenz(a,h)anthracene	mg/l	0.00773	0	.01	77.3	10-145	L512116-03	WG531953
Diethyl phthalate	mg/l	0.00890	0	.01	89.0	23-132	L512116-03	WG531953
Dimethyl phthalate	mg/l	0.00713	0	.01	71.3	42-107	L512116-03	WG531953
Fluoranthene	mg/l	0.00963	0	.01	96.3	36-130	L512116-03	WG531953
Fluorene	mg/l	0.00909	0	.01	90.9	37-120	L512116-03	WG531953
Hexachloro-1,3-butadiene	mg/l	0.00826	0	.01	82.6	16-118	L512116-03	WG531953
Hexachlorobenzene	mg/l	0.00922	0	.01	92.2	41-114	L512116-03	WG531953
Hexachlorocyclopentadiene	mg/l	0.00607	0	.01	60.7	0-132	L512116-03	WG531953
Hexachloroethane	mg/l	0.00711	0	.01	71.1	10-125	L512116-03	WG531953
Indeno(1,2,3-cd)pyrene	mg/l	0.00800	0	.01	80.0	10-138	L512116-03	WG531953
Isophorone	mg/l	0.00853	0	.01	85.3	32-131	L512116-03	WG531953
n-Nitrosodi-n-propylamine	mg/l	0.00954	0	.01	95.4	20-145	L512116-03	WG531953
n-Nitrosodimethylamine	mg/l	0.00461	0	.01	46.0	0-75	L512116-03	WG531953
n-Nitrosodiphenylamine	mg/l	0.00822	0	.01	82.2	10-171	L512116-03	WG531953
Naphthalene	mg/l	0.00760	0	.01	76.0	14-114	L512116-03	WG531953
Nitrobenzene	mg/l	0.00795	0	.01	79.5	14-122	L512116-03	WG531953
Pentachlorophenol	mg/l	0.00843	0	.01	84.3	0-137	L512116-03	WG531953
Phenanthrene	mg/l	0.00976	0	.01	97.6	38-121	L512116-03	WG531953
Phenol	mg/l	0.00273	0	.01	27.2	10-68	L512116-03	WG531953
Pyrene	mg/l	0.00929	0	.01	92.9	27-136	L512116-03	WG531953
2,4,6-Tribromophenol					103.2	10-148		WG531953
2-Fluorobiphenyl					88.56	26-122		WG531953
2-Fluorophenol					38.29	10-87		WG531953
Nitrobenzene-d5					85.36	12-120		WG531953
Phenol-d5					27.71	10-67		WG531953
p-Terphenyl-d14					110.3	34-149		WG531953
TPH (GC/FID) Low Fraction	mg/l	5.65	0.0581	5.5	102.	55-109	L512031-01	WG531857
a,a,a-Trifluorotoluene(FID)					104.1	62-128		WG531857
1,1,1,2-Tetrachloroethane	mg/l	0.0227	0	.025	90.8	45-152	L512031-03	WG532097
1,1,1-Trichloroethane	mg/l	0.0223	0	.025	89.0	31-161	L512031-03	WG532097
1,1,2,2-Tetrachloroethane	mg/l	0.0230	0	.025	92.0	49-149	L512031-03	WG532097
1,1,2-Trichloroethane	mg/l	0.0233	0	.025	93.2	46-145	L512031-03	WG532097
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/l	0.0234	0	.025	93.6	14-168	L512031-03	WG532097
1,1-Dichloroethane	mg/l	0.0221	0	.025	88.6	30-159	L512031-03	WG532097
1,1-Dichloroethene	mg/l	0.0185	0	.025	74.0	10-162	L512031-03	WG532097
1,1-Dichloropropene	mg/l	0.0184	0	.025	73.7	14-162	L512031-03	WG532097
1,2,3-Trichlorobenzene	mg/l	0.0250	0	.025	100.	32-143	L512031-03	WG532097
1,2,3-Trichloropropane	mg/l	0.0223	0	.025	89.4	48-148	L512031-03	WG532097
1,2,3-Trimethylbenzene	mg/l	0.0229	0	.025	91.5	36-141	L512031-03	WG532097
1,2,4-Trichlorobenzene	mg/l	0.0255	0	.025	102.	27-142	L512031-03	WG532097
1,2,4-Trimethylbenzene	mg/l	0.0225	0	.025	90.0	29-153	L512031-03	WG532097
1,2-Dibromo-3-Chloropropane	mg/l	0.0264	0	.025	105.	37-148	L512031-03	WG532097

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

ESC LAB SCIENCES
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

AECOM Inc. - Fort Collins, CO
Mr. Dustin Krajewski
1601 Prospect Parkway

Fort Collins, CO 80525

Quality Assurance Report
Level II

L512036

May 09, 2011

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
trans-1,3-Dichloropropene	mg/l	0.0210	0.0220	84.0	66-137	4.88	20	WG532097
Trichloroethene	mg/l	0.0203	0.0225	81.0	74-126	10.0	20	WG532097
Trichlorofluoromethane	mg/l	0.0222	0.0250	89.0	54-156	12.1	20	WG532097
Vinyl chloride	mg/l	0.0192	0.0213	77.0	55-153	10.4	20	WG532097
Xylenes, Total	mg/l	0.0655	0.0709	87.0	75-128	7.95	20	WG532097
4-Bromofluorobenzene				100.5	75-128			WG532097
Dibromofluoromethane				101.2	79-125			WG532097
Toluene-d8				102.3	87-114			WG532097
a,a,a-Trifluorotoluene				102.3	84-114			WG532097
TPH (GC/FID) Low Fraction	mg/l	6.58	6.36	120.	70-124	3.43	20	WG532532
a,a,a-Trifluorotoluene(FID)				104.0	62-128			WG532532
Ammonia Nitrogen	mg/l	7.10	6.84	95.0	90-110	3.73	20	WG532498
DOC	mg/l	75.9	75.5	101.	85-115	0.568	20	WG532702
Acetone	mg/l	0.0862	0.0859	69.0	48-134	0.420	20	WG532957
Toluene	mg/l	0.0202	0.0202	81.0	72-122	0.210	20	WG532957
Xylenes, Total	mg/l	0.0656	0.0649	87.0	75-128	1.03	20	WG532957
4-Bromofluorobenzene				104.8	75-128			WG532957
Dibromofluoromethane				97.52	79-125			WG532957
Toluene-d8				101.6	87-114			WG532957
a,a,a-Trifluorotoluene				105.6	84-114			WG532957

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Nitrate	mg/l	5.39	0.470	5	98.4	80-120	L512043-03	WG531806
Nitrite	mg/l	5.10	0	5	102.	80-120	L512043-03	WG531806
Nitrate	mg/l	5.09	0.170	5	98.4	80-120	L511975-02	WG531808
1,2,4-Trichlorobenzene	mg/l	0.00683	0	.01	68.3	18-105	L512116-03	WG531953
2,4,6-Trichlorophenol	mg/l	0.00797	0	.01	79.7	10-137	L512116-03	WG531953
2,4-Dichlorophenol	mg/l	0.00743	0	.01	74.3	10-133	L512116-03	WG531953
2,4-Dimethylphenol	mg/l	0.00777	0	.01	77.7	10-142	L512116-03	WG531953
2,4-Dinitrophenol	mg/l	0.00789	0	.01	78.9	10-150	L512116-03	WG531953
2,4-Dinitrotoluene	mg/l	0.00931	0	.01	93.1	32-137	L512116-03	WG531953
2,6-Dinitrotoluene	mg/l	0.00862	0	.01	86.2	35-123	L512116-03	WG531953
2-Chloronaphthalene	mg/l	0.00837	0	.01	83.7	33-109	L512116-03	WG531953
2-Chlorophenol	mg/l	0.00638	0	.01	63.8	10-155	L512116-03	WG531953
2-Nitrophenol	mg/l	0.00813	0	.01	81.3	12-121	L512116-03	WG531953
3,3-Dichlorobenzidine	mg/l	0.000580	0	.01	5.80*	10-135	L512116-03	WG531953
4,6-Dinitro-2-methylphenol	mg/l	0.00677	0	.01	67.7	0-138	L512116-03	WG531953
4-Bromophenyl-phenylether	mg/l	0.00991	0	.01	99.1	35-102	L512116-03	WG531953
4-Chloro-3-methylphenol	mg/l	0.00758	0	.01	75.8	10-136	L512116-03	WG531953
4-Chlorophenyl-phenylether	mg/l	0.00957	0	.01	95.6	39-116	L512116-03	WG531953
4-Nitrophenol	mg/l	0.00210	0	.01	21.0	13-59	L512116-03	WG531953
Acenaphthene	mg/l	0.00895	0	.01	89.5	39-112	L512116-03	WG531953
Acenaphthylene	mg/l	0.00918	0	.01	91.8	37-114	L512116-03	WG531953
Anthracene	mg/l	0.00873	0	.01	87.3	44-136	L512116-03	WG531953
Benzidine	mg/l	0	0	.01	0	0-25	L512116-03	WG531953

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

ESC LAB SCIENCES
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

AECOM Inc. - Fort Collins, CO
Mr. Dustin Krajewski
1601 Prospect Parkway

Fort Collins, CO 80525

Quality Assurance Report
Level II

L512036

May 09, 2011

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Ammonia Nitrogen	mg/l	4.99	0.130	5	97.2	90-110	L511997-01	WG532498
TPH (GC/FID) Low Fraction	mg/l	5.24	0.0891	5.5	93.6	55-109	L512749-02	WG532532
a,a,a-Trifluorotoluene(FID)					103.1	62-128		WG532532
DOC	mg/l	130.	68.0	50	124.*	80-120	L512036-02	WG532702
Acetone	mg/l	0.0861	0	.125	68.8	25-157	L512995-01	WG532957
Toluene	mg/l	0.0229	0	.025	91.7	22-152	L512995-01	WG532957
Xylenes, Total	mg/l	0.0690	0	.075	92.1	27-151	L512995-01	WG532957
4-Bromofluorobenzene					102.3	75-128		WG532957
Dibromofluoromethane					100.2	79-125		WG532957
Toluene-d8					98.31	87-114		WG532957
a,a,a-Trifluorotoluene					102.8	84-114		WG532957

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Nitrate	mg/l	5.46	5.39	99.8	80-120	1.29	20	L512043-03	WG531806
Nitrite	mg/l	5.17	5.10	103.	80-120	1.36	20	L512043-03	WG531806
Nitrate	mg/l	5.10	5.09	98.6	80-120	0.196	20	L511975-02	WG531808
1,2,4-Trichlorobenzene	mg/l	0.00678	0.00683	67.8	18-105	0.723	50	L512116-03	WG531953
2,4,6-Trichlorophenol	mg/l	0.00770	0.00797	77.0	10-137	3.49	42	L512116-03	WG531953
2,4-Dichlorophenol	mg/l	0.00702	0.00743	70.2	10-133	5.57	50	L512116-03	WG531953
2,4-Dimethylphenol	mg/l	0.00711	0.00777	71.1	10-142	8.91	36	L512116-03	WG531953
2,4-Dinitrophenol	mg/l	0.00776	0.00789	77.6	10-150	1.73	50	L512116-03	WG531953
2,4-Dinitrotoluene	mg/l	0.00944	0.00931	94.4	32-137	1.43	36	L512116-03	WG531953
2,6-Dinitrotoluene	mg/l	0.00836	0.00862	83.6	35-123	3.02	37	L512116-03	WG531953
2-Chloronaphthalene	mg/l	0.00829	0.00837	82.9	33-109	0.960	39	L512116-03	WG531953
2-Chlorophenol	mg/l	0.00577	0.00638	57.7	10-155	10.1	50	L512116-03	WG531953
2-Nitrophenol	mg/l	0.00756	0.00813	75.6	12-121	7.25	48	L512116-03	WG531953
3,3-Dichlorobenzidine	mg/l	0.000805	0.000580	8.05*	10-135	32.4	40	L512116-03	WG531953
4,6-Dinitro-2-methylphenol	mg/l	0.00655	0.00677	65.5	0-138	3.22	50	L512116-03	WG531953
4-Bromophenyl-phenylether	mg/l	0.00990	0.00991	99.0	35-102	0.181	23	L512116-03	WG531953
4-Chloro-3-methylphenol	mg/l	0.00709	0.00758	70.9	10-136	6.65	29	L512116-03	WG531953
4-Chlorophenyl-phenylether	mg/l	0.00954	0.00957	95.4	39-116	0.272	32	L512116-03	WG531953
4-Nitrophenol	mg/l	0.00194	0.00210	19.4	13-59	7.76	50	L512116-03	WG531953
Acenaphthene	mg/l	0.00903	0.00895	90.3	39-112	0.831	37	L512116-03	WG531953
Acenaphthylene	mg/l	0.00908	0.00918	90.8	37-114	1.16	35	L512116-03	WG531953
Anthracene	mg/l	0.00856	0.00873	85.6	44-136	2.03	24	L512116-03	WG531953
Benzidine	mg/l	0	0	0.00	0-25	0	50	L512116-03	WG531953
Benzo(a)anthracene	mg/l	0.00918	0.00936	91.8	43-117	2.00	25	L512116-03	WG531953
Benzo(a)pyrene	mg/l	0.00966	0.00953	96.6	33-137	1.41	34	L512116-03	WG531953
Benzo(b)fluoranthene	mg/l	0.00972	0.0102	97.2	35-128	5.21	50	L512116-03	WG531953
Benzo(g,h,i)perylene	mg/l	0.00720	0.00750	72.0	10-139	4.04	50	L512116-03	WG531953
Benzo(k)fluoranthene	mg/l	0.00969	0.00934	96.8	36-119	3.59	40	L512116-03	WG531953
Benzylbutyl phthalate	mg/l	0.00868	0.00892	86.8	47-121	2.79	28	L512116-03	WG531953
Bis(2-chlorethoxy)methane	mg/l	0.00966	0.00992	96.6	21-135	2.70	39	L512116-03	WG531953
Bis(2-chloroethyl)ether	mg/l	0.00873	0.00927	87.3	10-134	5.97	50	L512116-03	WG531953
Bis(2-chloroisopropyl)ether	mg/l	0.00858	0.00882	85.8	14-124	2.67	40	L512116-03	WG531953
Bis(2-ethylhexyl)phthalate	mg/l	0.00965	0.0105	87.5	10-115	8.51	33	L512116-03	WG531953
Chrysene	mg/l	0.00891	0.00941	89.1	41-117	5.47	24	L512116-03	WG531953

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

ESC
L·A·B S·C·I·E·N·C·E·S
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

AECOM Inc. - Fort Collins, CO
Mr. Dustin Krajewski
1601 Prospect Parkway

Fort Collins, CO 80525

Quality Assurance Report
Level II

L512036

May 09, 2011

Analyte	Units	MS Res	Matrix Spike Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,2-Dibromoethane	mg/l	0.0221	0	.025	88.2	41-149	L512031-03	WG532097
1,2-Dichlorobenzene	mg/l	0.0229	0	.025	91.5	40-139	L512031-03	WG532097
1,2-Dichloroethane	mg/l	0.0215	0	.025	86.1	29-167	L512031-03	WG532097
1,2-Dichloropropane	mg/l	0.0221	0	.025	88.4	39-148	L512031-03	WG532097
1,3,5-Trimethylbenzene	mg/l	0.0232	0	.025	93.0	33-149	L512031-03	WG532097
1,3-Dichlorobenzene	mg/l	0.0221	0	.025	88.4	32-148	L512031-03	WG532097
1,3-Dichloropropane	mg/l	0.0223	0	.025	89.1	44-142	L512031-03	WG532097
1,4-Dichlorobenzene	mg/l	0.0225	0	.025	89.9	32-136	L512031-03	WG532097
2,2-Dichloropropane	mg/l	0.0263	0	.025	105.	14-158	L512031-03	WG532097
2-Butanone (MEK)	mg/l	0.111	0	.125	88.6	32-151	L512031-03	WG532097
2-Chloroethyl vinyl ether	mg/l	0.0263	0	.125	21.0	0-175	L512031-03	WG532097
2-Chlorotoluene	mg/l	0.0221	0	.025	88.3	35-147	L512031-03	WG532097
4-Chlorotoluene	mg/l	0.0220	0	.025	88.2	33-147	L512031-03	WG532097
4-Methyl-2-pentanone (MIBK)	mg/l	0.126	0	.125	100.	40-160	L512031-03	WG532097
Acetone	mg/l	0.111	0.0151	.125	76.5	25-157	L512031-03	WG532097
Acrolein	mg/l	0.0902	0	.125	72.2	0-179	L512031-03	WG532097
Acrylonitrile	mg/l	0.133	0	.125	107.	37-162	L512031-03	WG532097
Benzene	mg/l	0.0195	0	.025	77.9	16-158	L512031-03	WG532097
Bromobenzene	mg/l	0.0212	0	.025	85.0	37-147	L512031-03	WG532097
Bromodichloromethane	mg/l	0.0215	0	.025	85.9	45-147	L512031-03	WG532097
Bromoform	mg/l	0.0234	0	.025	93.6	38-152	L512031-03	WG532097
Bromomethane	mg/l	0.0131	0	.025	52.5	0-191	L512031-03	WG532097
Carbon tetrachloride	mg/l	0.0207	0	.025	83.0	22-168	L512031-03	WG532097
Chlorobenzene	mg/l	0.0215	0	.025	86.1	33-148	L512031-03	WG532097
Chlorodibromomethane	mg/l	0.0220	0	.025	87.9	48-151	L512031-03	WG532097
Chloroethane	mg/l	0.0156	0	.025	62.3	4-176	L512031-03	WG532097
Chloroform	mg/l	0.0229	0	.025	91.8	37-147	L512031-03	WG532097
Chloromethane	mg/l	0.0121	0	.025	48.2	10-174	L512031-03	WG532097
cis-1,2-Dichloroethene	mg/l	0.0217	0	.025	86.9	29-156	L512031-03	WG532097
cis-1,3-Dichloropropene	mg/l	0.0209	0	.025	83.4	35-148	L512031-03	WG532097
Di-isopropyl ether	mg/l	0.0244	0	.025	97.5	39-160	L512031-03	WG532097
Dibromomethane	mg/l	0.0216	0	.025	86.5	36-152	L512031-03	WG532097
Dichlorodifluoromethane	mg/l	0.0169	0	.025	67.5	0-200	L512031-03	WG532097
Ethylbenzene	mg/l	0.0220	0	.025	88.1	29-150	L512031-03	WG532097
Hexachloro-1,3-butadiene	mg/l	0.0232	0	.025	92.7	28-144	L512031-03	WG532097
Isopropylbenzene	mg/l	0.0254	0	.025	102.	35-147	L512031-03	WG532097
Methyl tert-butyl ether	mg/l	0.0263	0	.025	105.	24-167	L512031-03	WG532097
Methylene Chloride	mg/l	0.0202	0.000500	.025	78.7	23-151	L512031-03	WG532097
n-Butylbenzene	mg/l	0.0246	0	.025	98.5	22-151	L512031-03	WG532097
n-Propylbenzene	mg/l	0.0225	0	.025	90.1	26-150	L512031-03	WG532097
Naphthalene	mg/l	0.0250	0	.025	100.	24-160	L512031-03	WG532097
p-Isopropyltoluene	mg/l	0.0243	0	.025	97.0	28-151	L512031-03	WG532097
sec-Butylbenzene	mg/l	0.0241	0	.025	96.2	32-149	L512031-03	WG532097
Styrene	mg/l	0.0167	0	.025	66.9	38-149	L512031-03	WG532097
tert-Butylbenzene	mg/l	0.0243	0	.025	97.4	36-149	L512031-03	WG532097
Tetrachloroethene	mg/l	0.0195	0	.025	78.1	13-157	L512031-03	WG532097
Toluene	mg/l	0.0191	0	.025	76.2	22-152	L512031-03	WG532097
trans-1,2-Dichloroethene	mg/l	0.0165	0	.025	66.1	11-160	L512031-03	WG532097
trans-1,3-Dichloropropene	mg/l	0.0202	0	.025	80.8	33-153	L512031-03	WG532097
Trichloroethene	mg/l	0.0188	0	.025	75.3	18-163	L512031-03	WG532097
Trichlorofluoromethane	mg/l	0.0192	0	.025	76.8	10-177	L512031-03	WG532097
Vinyl chloride	mg/l	0.0132	0	.025	52.8	0-179	L512031-03	WG532097
Xylenes, Total	mg/l	0.0654	0	.075	87.2	27-151	L512031-03	WG532097
4-Bromofluorobenzene					96.70	75-128		WG532097
Dibromofluoromethane					106.8	79-125		WG532097
Toluene-d8					100.2	87-114		WG532097
a,a,a-Trifluorotoluene					102.5	84-114		WG532097

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

ESC LAB SCIENCES
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

AECOM Inc. - Fort Collins, CO
Mr. Dustin Krajewski
1601 Prospect Parkway

Fort Collins, CO 80525

Quality Assurance Report
Level II

L512036

May 09, 2011

Analyte	Units	Matrix Spike MSD	Ref	Duplicate %Rec	Limit	RPD	Limit	Ref Samp	Batch
2-Chlorotoluene	mg/l	0.0211	0.0221	84.4	35-147	4.48	24	L512031-03	WG532097
4-Chlorotoluene	mg/l	0.0212	0.0220	85.0	33-147	3.67	25	L512031-03	WG532097
4-Methyl-2-pentanone (MIBK)	mg/l	0.131	0.126	105.	40-160	4.31	28	L512031-03	WG532097
Acetone	mg/l	0.105	0.111	72.2	25-157	4.91	26	L512031-03	WG532097
Acrolein	mg/l	0.0911	0.0902	72.9	0-179	1.03	39	L512031-03	WG532097
Acrylonitrile	mg/l	0.128	0.133	103.	37-162	3.90	24	L512031-03	WG532097
Benzene	mg/l	0.0189	0.0195	75.6	16-158	2.98	21	L512031-03	WG532097
Bromobenzene	mg/l	0.0214	0.0212	85.6	37-147	0.730	23	L512031-03	WG532097
Bromodichloromethane	mg/l	0.0214	0.0215	85.7	45-147	0.170	20	L512031-03	WG532097
Bromoform	mg/l	0.0234	0.0234	93.5	38-152	0.0600	20	L512031-03	WG532097
Bromomethane	mg/l	0.0124	0.0131	49.8	0-191	5.41	35	L512031-03	WG532097
Carbon tetrachloride	mg/l	0.0190	0.0207	75.9	22-168	8.90	24	L512031-03	WG532097
Chlorobenzene	mg/l	0.0212	0.0215	84.6	33-148	1.79	22	L512031-03	WG532097
Chlorodibromomethane	mg/l	0.0221	0.0220	88.4	48-151	0.540	21	L512031-03	WG532097
Chloroethane	mg/l	0.0143	0.0156	57.2	4-176	8.44	27	L512031-03	WG532097
Chloroform	mg/l	0.0225	0.0229	90.1	37-147	1.89	21	L512031-03	WG532097
Chloromethane	mg/l	0.0114	0.0121	45.5	10-174	5.94	28	L512031-03	WG532097
cis-1,2-Dichloroethene	mg/l	0.0207	0.0217	82.7	29-156	4.95	22	L512031-03	WG532097
cis-1,3-Dichloropropene	mg/l	0.0214	0.0209	85.4	35-148	2.32	21	L512031-03	WG532097
Di-isopropyl ether	mg/l	0.0246	0.0244	98.3	39-160	0.750	21	L512031-03	WG532097
Dibromomethane	mg/l	0.0216	0.0216	86.5	36-152	0.0100	20	L512031-03	WG532097
Dichlorodifluoromethane	mg/l	0.0145	0.0169	58.1	0-200	14.9	26	L512031-03	WG532097
Ethylbenzene	mg/l	0.0214	0.0220	85.8	29-150	2.68	24	L512031-03	WG532097
Hexachloro-1,3-butadiene	mg/l	0.0219	0.0232	87.6	28-144	5.70	33	L512031-03	WG532097
Isopropylbenzene	mg/l	0.0238	0.0254	95.4	35-147	6.37	25	L512031-03	WG532097
Methyl tert-butyl ether	mg/l	0.0250	0.0263	100.	24-167	4.86	22	L512031-03	WG532097
Methylene Chloride	mg/l	0.0191	0.0202	74.6	23-151	5.29	21	L512031-03	WG532097
n-Butylbenzene	mg/l	0.0231	0.0246	92.3	22-151	6.47	29	L512031-03	WG532097
n-Propylbenzene	mg/l	0.0216	0.0225	86.4	26-150	4.11	25	L512031-03	WG532097
Naphthalene	mg/l	0.0238	0.0250	95.0	24-160	5.28	37	L512031-03	WG532097
p-Isopropyltoluene	mg/l	0.0227	0.0243	90.7	28-151	6.72	27	L512031-03	WG532097
sec-Butylbenzene	mg/l	0.0222	0.0241	88.8	32-149	7.97	26	L512031-03	WG532097
Styrene	mg/l	0.0167	0.0167	66.8	38-149	0.190	23	L512031-03	WG532097
tert-Butylbenzene	mg/l	0.0227	0.0243	90.8	36-149	7.05	26	L512031-03	WG532097
Tetrachloroethene	mg/l	0.0180	0.0195	71.9	13-157	8.23	24	L512031-03	WG532097
Toluene	mg/l	0.0192	0.0191	76.6	22-152	0.520	22	L512031-03	WG532097
trans-1,2-Dichloroethene	mg/l	0.0156	0.0165	62.3	11-160	5.99	23	L512031-03	WG532097
trans-1,3-Dichloropropene	mg/l	0.0215	0.0202	85.9	33-153	6.15	22	L512031-03	WG532097
Trichloroethene	mg/l	0.0181	0.0188	72.4	18-163	3.94	21	L512031-03	WG532097
Trichlorofluoromethane	mg/l	0.0178	0.0192	71.1	10-177	7.73	24	L512031-03	WG532097
Vinyl chloride	mg/l	0.0123	0.0132	49.0	0-179	7.45	26	L512031-03	WG532097
Xylenes, Total	mg/l	0.0637	0.0654	84.9	27-151	2.67	23	L512031-03	WG532097
4-Bromofluorobenzene				95.11	75-128				WG532097
Dibromofluoromethane				104.0	79-125				WG532097
Toluene-d8				102.8	87-114				WG532097
a,a,a-Trifluorotoluene				103.9	84-114				WG532097
Ammonia Nitrogen	mg/l	5.03	4.99	98.0	90-110	0.798	20	L511997-01	WG532498
TPH (GC/FID) Low Fraction	mg/l	5.52	5.24	98.7	55-109	5.24	20	L512749-02	WG532532
a,a,a-Trifluorotoluene(FID)				103.5	62-128				WG532532
DOC	mg/l	133.	130.	129.*	80-120	2.08	20	L512036-02	WG532702
Acetone	mg/l	0.0803	0.0861	64.2	25-157	6.99	26	L512995-01	WG532957

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

ESC
L·A·B S·C·I·E·N·C·E·S
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

AECOM Inc. - Fort Collins, CO
Mr. Dustin Krajewski
1601 Prospect Parkway

Fort Collins, CO 80525

Quality Assurance Report
Level II

L512036

May 09, 2011

Analyte	Units	Matrix Spike MSD	Ref	Duplicate %Rec	Limit	RPD	Limit	Ref Samp	Batch
Di-n-butyl phthalate	mg/l	0.00916	0.0101	91.6	46-121	9.73	27	L512116-03	WG531953
Di-n-octyl phthalate	mg/l	0.00901	0.00925	90.1	22-109	2.62	31	L512116-03	WG531953
Dibenz(a,h)anthracene	mg/l	0.00736	0.00773	73.6	10-145	4.92	50	L512116-03	WG531953
Diethyl phthalate	mg/l	0.00844	0.00890	84.4	23-132	5.33	35	L512116-03	WG531953
Dimethyl phthalate	mg/l	0.00706	0.00713	70.6	42-107	0.887	27	L512116-03	WG531953
Fluoranthene	mg/l	0.00954	0.00963	95.4	36-130	0.872	27	L512116-03	WG531953
Fluorene	mg/l	0.00895	0.00909	89.5	37-120	1.58	30	L512116-03	WG531953
Hexachloro-1,3-butadiene	mg/l	0.00815	0.00826	81.5	16-118	1.27	50	L512116-03	WG531953
Hexachlorobenzene	mg/l	0.00911	0.00922	91.1	41-114	1.17	28	L512116-03	WG531953
Hexachlorocyclopentadiene	mg/l	0.00567	0.00607	56.7	0-132	6.82	50	L512116-03	WG531953
Hexachloroethane	mg/l	0.00699	0.00711	69.9	10-125	1.75	50	L512116-03	WG531953
Indeno(1,2,3-cd)pyrene	mg/l	0.00749	0.00800	74.8	10-138	6.65	50	L512116-03	WG531953
Isophorone	mg/l	0.00855	0.00853	85.5	32-131	0.252	38	L512116-03	WG531953
n-Nitrosodi-n-propylamine	mg/l	0.00913	0.00954	91.3	20-145	4.32	43	L512116-03	WG531953
n-Nitrosodimethylamine	mg/l	0.00431	0.00461	43.1	0-75	6.69	50	L512116-03	WG531953
n-Nitrosodiphenylamine	mg/l	0.00819	0.00822	81.9	10-171	0.332	34	L512116-03	WG531953
Naphthalene	mg/l	0.00752	0.00760	75.2	14-114	1.01	50	L512116-03	WG531953
Nitrobenzene	mg/l	0.00795	0.00795	79.5	14-122	0.00498	46	L512116-03	WG531953
Pentachlorophenol	mg/l	0.00748	0.00843	74.8	0-137	11.9	50	L512116-03	WG531953
Phenanthrene	mg/l	0.00942	0.00976	94.2	38-121	3.47	26	L512116-03	WG531953
Phenol	mg/l	0.00268	0.00273	26.8	10-68	1.50	32	L512116-03	WG531953
Pyrene	mg/l	0.00877	0.00929	87.7	27-136	5.75	33	L512116-03	WG531953
2,4,6-Tribromophenol				94.43	10-148				WG531953
2-Fluorobiphenyl				88.58	26-122				WG531953
2-Fluorophenol				34.08	10-87				WG531953
Nitrobenzene-d5				85.23	12-120				WG531953
Phenol-d5				24.12	10-67				WG531953
p-Terphenyl-d14				103.6	34-149				WG531953
TPH (GC/FID) Low Fraction	mg/l	5.55	5.65	99.8	55-109	1.87	20	L512031-01	WG531857
a,a,a-Trifluorotoluene(FID)				104.4	62-128				WG531857
1,1,1,2-Tetrachloroethane	mg/l	0.0224	0.0227	89.4	45-152	1.52	21	L512031-03	WG532097
1,1,1-Trichloroethane	mg/l	0.0208	0.0223	83.0	31-161	6.96	23	L512031-03	WG532097
1,1,2,2-Tetrachloroethane	mg/l	0.0228	0.0230	91.1	49-149	0.930	22	L512031-03	WG532097
1,1,2-Trichloroethane	mg/l	0.0227	0.0233	90.7	46-145	2.71	20	L512031-03	WG532097
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/l	0.0213	0.0234	85.2	14-168	9.42	24	L512031-03	WG532097
1,1-Dichloroethane	mg/l	0.0217	0.0221	86.7	30-159	2.08	21	L512031-03	WG532097
1,1-Dichloroethene	mg/l	0.0169	0.0185	67.7	10-162	8.91	23	L512031-03	WG532097
1,1-Dichloropropene	mg/l	0.0174	0.0184	69.7	14-162	5.58	23	L512031-03	WG532097
1,2,3-Trichlorobenzene	mg/l	0.0239	0.0250	95.6	32-143	4.52	33	L512031-03	WG532097
1,2,3-Trichloropropane	mg/l	0.0218	0.0223	87.3	48-148	2.39	23	L512031-03	WG532097
1,2,3-Trimethylbenzene	mg/l	0.0223	0.0229	89.2	36-141	2.60	25	L512031-03	WG532097
1,2,4-Trichlorobenzene	mg/l	0.0244	0.0255	97.5	27-142	4.34	30	L512031-03	WG532097
1,2,4-Trimethylbenzene	mg/l	0.0216	0.0225	86.3	29-153	4.24	27	L512031-03	WG532097
1,2-Dibromo-3-Chloropropane	mg/l	0.0238	0.0264	95.3	37-148	10.0	27	L512031-03	WG532097
1,2-Dibromoethane	mg/l	0.0213	0.0221	85.3	41-149	3.37	21	L512031-03	WG532097
1,2-Dichlorobenzene	mg/l	0.0229	0.0229	91.7	40-139	0.230	23	L512031-03	WG532097
1,2-Dichloroethane	mg/l	0.0211	0.0215	84.2	29-167	2.26	21	L512031-03	WG532097
1,2-Dichloropropane	mg/l	0.0224	0.0221	89.7	39-148	1.45	20	L512031-03	WG532097
1,3,5-Trimethylbenzene	mg/l	0.0224	0.0232	89.7	33-149	3.53	26	L512031-03	WG532097
1,3-Dichlorobenzene	mg/l	0.0217	0.0221	86.7	32-148	1.94	24	L512031-03	WG532097
1,3-Dichloropropane	mg/l	0.0219	0.0223	87.7	44-142	1.51	20	L512031-03	WG532097
1,4-Dichlorobenzene	mg/l	0.0227	0.0225	90.8	32-136	0.970	23	L512031-03	WG532097
2,2-Dichloropropane	mg/l	0.0240	0.0263	95.9	14-158	9.24	23	L512031-03	WG532097
2-Butanone (MEK)	mg/l	0.113	0.111	90.1	32-151	1.75	26	L512031-03	WG532097
2-Chloroethyl vinyl ether	mg/l	0.0106	0.0263	8.50	0-175	84.9*	75	L512031-03	WG532097

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

ESC
L·A·B S·C·I·E·N·C·E·S
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

AECOM Inc. - Fort Collins, CO
Mr. Dustin Krajewski
1601 Prospect Parkway

Fort Collins, CO 80525

Quality Assurance Report
Level II

L512036

May 09, 2011

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

AECOM Inc. - Fort Collins, CO
Mr. Dustin Krajewski
1601 Prospect Parkway

Fort Collins, CO 80525

Quality Assurance Report
Level II

L512036

May 09, 2011

Analyte	Units	MSD	Matrix Spike Ref	Duplicate %Rec	Limit	RPD	Limit	Ref Samp	Batch
Toluene	mg/l	0.0218	0.0229	87.0	22-152	5.18	22	L512995-01	WG532957
Xylenes, Total	mg/l	0.0672	0.0690	89.6	27-151	2.72	23	L512995-01	WG532957
4-Bromofluorobenzene				105.0	75-128				WG532957
Dibromofluoromethane				99.56	79-125				WG532957
Toluene-d8				101.5	87-114				WG532957
a,a,a-Trifluorotoluene				106.5	84-114				WG532957

Batch number /Run number / Sample number cross reference

WG531806: R1657990: L512036-02 03 04 05
WG531808: R1658109: L512036-01
WG532074: R1658829: L512036-01 02 03 04 05
WG531966: R1659971: L512036-01 02 03 04 05
WG531953: R1660670: L512036-01 02 03 04
WG531857: R1660789: L512036-02 03 04 05
WG532047: R1660831: L512036-05
WG532097: R1663414: L512036-01 02 03 04 05 06 07
WG532532: R1663430: L512036-01
WG532498: R1663469: L512036-01 02 03 04 05
WG532702: R1664913: L512036-01 02 03 04 05
WG532957: R1665142: L512036-05

* * Calculations are performed prior to rounding of reported values.
* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

May 27, 2011

Dustin Krajewski
AECOM
1601 Prospect Parkway
Fort Collins, CO 80525

RE: Project: ENCANA
Pace Project No.: 6097391

Dear Dustin Krajewski:
Enclosed are the analytical results for sample(s) received by the laboratory on April 20, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Colleen Koporc

colleen.koporc@pacelabs.com
Project Manager

Enclosures

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: ENCANA
Pace Project No.: 6097391

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Idaho Certification #: MN00064
Illinois Certification #: 200011
Iowa Certification #: 368
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nebraska Certification #: Pace
Nevada Certification #: MN_00064
New Jersey Certification #: MN-002
New Mexico Certification #: Pace
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: D9921
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Washington Certification #: C754
Wisconsin Certification #: 999407970

Indiana Certification IDs
7726 Moller Road, Indianapolis, IN 46268
Illinois/NELAC Certification #: 100418
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Louisiana Certification #: 04076
Ohio VAP: CL0065
Pennsylvania: 68-00791
West Virginia Certification #: 330

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 05-008-0
Illinois Certification #: 001191
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-08-TX
Utah Certification #: 9135995665

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: ENCANA
Pace Project No.: 6097391

Lab ID	Sample ID	Matrix	Date Collected	Date Received
6097391001	PGDW-21	Water	04/18/11 12:30	04/20/11 09:30

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: ENCANA
Pace Project No.: 6097391

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
6097391001	**PGDW-21**	EPA 6010	JDH	18	PASI-K
		EPA 6020	RJS	10	PASI-M
		EPA 7470	SMW	1	PASI-K
		EPA 8015 Modified	LLB	2	PASI-I

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

PROJECT NARRATIVE

Project: ENCANA
Pace Project No.: 6097391

Method: **EPA 6010**
Description: 6010 MET ICP
Client: AECOM Colorado
Date: May 27, 2011

General Information:
5 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

PROJECT NARRATIVE

Project: ENCANA
Pace Project No.: 6097391

Method: **EPA 6020**
Description: 6020 MET ICPMS
Client: AECOM Colorado
Date: May 27, 2011

General Information:
5 samples were analyzed for EPA 6020. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

PROJECT NARRATIVE

Project: ENCANA
Pace Project No.: 6097391

Method: **EPA 7470**
Description: 7470 Mercury
Client: AECOM Colorado
Date: May 27, 2011

General Information:
5 samples were analyzed for EPA 7470. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7470 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

PROJECT NARRATIVE

Project: ENCANA
Pace Project No.: 6097391

Method: **EPA 8015 Modified**
Description: 8015M Alcohols
Client: AECOM Colorado
Date: May 27, 2011

General Information:
5 samples were analyzed for EPA 8015 Modified. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: ENCANA
Pace Project No.: 6097391

Sample: PGDW-21 **Lab ID: 6097391001** Collected: 04/18/11 12:30 Received: 04/20/11 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Aluminum	**53.2J**	ug/L	75.0	18.2	1	04/21/11 10:15	04/21/11 17:53	7429-90-5	
Antimony	ND	ug/L	10.0	2.3	1	04/21/11 10:15	04/21/11 17:53	7440-36-0	
Barium	**8.5J**	ug/L	10.0	0.30	1	04/21/11 10:15	04/21/11 17:53	7440-39-3	
Beryllium	ND	ug/L	1.0	0.20	1	04/21/11 10:15	04/21/11 17:53	7440-41-7	
Boron	**160**	ug/L	100	2.3	1	04/21/11 10:15	04/21/11 17:53	7440-42-8	
Calcium	**62700**	ug/L	100	7.1	1	04/21/11 10:15	04/21/11 17:53	7440-70-2	
Cobalt	ND	ug/L	5.0	0.60	1	04/21/11 10:15	04/21/11 17:53	7440-48-4	
Iron	**152**	ug/L	50.0	6.0	1	04/21/11 10:15	04/21/11 17:53	7439-89-6	
Magnesium	**7860**	ug/L	50.0	10.0	1	04/21/11 10:15	04/21/11 17:53	7439-95-4	
Manganese	**28.5**	ug/L	5.0	0.90	1	04/21/11 10:15	04/21/11 17:53	7439-96-5	
Molybdenum	**5.2J**	ug/L	20.0	0.50	1	04/21/11 10:15	04/21/11 17:53	7439-98-7	
Potassium	**857**	ug/L	500	63.4	1	04/21/11 10:15	04/21/11 17:53	7440-09-7	
Silver	ND	ug/L	7.0	1.1	1	04/21/11 10:15	04/21/11 17:53	7440-22-4	
Sodium	**372000**	ug/L	500	14.2	1	04/21/11 10:15	04/21/11 17:53	7440-23-5	
Strontium	**876**	ug/L	10.0	0.10	1	04/21/11 10:15	04/21/11 17:53	7440-24-6	
Titanium	**0.85J**	ug/L	10.0	0.60	1	04/21/11 10:15	04/21/11 17:53	7440-32-6	
Vanadium	**0.72J**	ug/L	10.0	0.70	1	04/21/11 10:15	04/21/11 17:53	7440-62-2	
Zinc	**78.2**	ug/L	50.0	1.5	1	04/21/11 10:15	04/21/11 17:53	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020								
Arsenic	**0.28J**	ug/L	0.50	0.090	1	04/27/11 18:17	05/02/11 17:44	7440-38-2	
Cadmium	ND	ug/L	0.080	0.030	1	04/27/11 18:17	05/02/11 17:44	7440-43-9	
Chromium	**0.64**	ug/L	0.50	0.10	1	04/27/11 18:17	05/02/11 17:44	7440-47-3	
Copper	**4.8**	ug/L	0.50	0.070	1	04/27/11 18:17	05/02/11 17:44	7440-50-8	
Lead	**0.77**	ug/L	0.10	0.050	1	04/27/11 18:17	05/02/11 17:44	7439-92-1	
Nickel	**0.15J**	ug/L	0.50	0.070	1	04/27/11 18:17	05/02/11 17:44	7440-02-0	
Selenium	ND	ug/L	0.50	0.22	1	04/27/11 18:17	05/02/11 17:44	7782-49-2	
Silicon	**5490**	ug/L	250	125	10	04/27/11 18:17	05/02/11 17:49	7440-21-3	
Thallium	ND	ug/L	0.10	0.050	1	04/27/11 18:17	05/02/11 17:44	7440-28-0	
Uranium-238	ND	ug/L	0.50	0.25	1	04/27/11 18:17	05/02/11 17:44	7440-61-1	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.049	1	05/03/11 09:33	05/03/11 17:07	7439-97-6	
8015M Alcohols	Analytical Method: EPA 8015 Modified								
Ethylene glycol	ND	mg/L	10.0	5.0	1		04/29/11 15:00	107-21-1	
Propylene glycol	ND	mg/L	5.0	2.5	1		04/29/11 15:00	57-55-6	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: ENCANA
Pace Project No.: 6097391

QC Batch: MPRP/13993 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 6097391001, 6097391002, 6097391003, 6097391004, 6097391005

METHOD BLANK: 801935 Matrix: Water
Associated Lab Samples: 6097391001, 6097391002, 6097391003, 6097391004, 6097391005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	04/21/11 17:37	
Antimony	ug/L	ND	10.0	04/21/11 17:37	
Barium	ug/L	0.34J	10.0	04/21/11 17:37	
Beryllium	ug/L	ND	1.0	04/21/11 17:37	
Boron	ug/L	ND	100	04/21/11 17:37	
Calcium	ug/L	ND	100	04/21/11 17:37	
Cobalt	ug/L	ND	5.0	04/21/11 17:37	
Iron	ug/L	8.4J	50.0	04/21/11 17:37	
Magnesium	ug/L	ND	50.0	04/21/11 17:37	
Manganese	ug/L	ND	5.0	04/21/11 17:37	
Molybdenum	ug/L	0.56J	20.0	04/21/11 17:37	
Potassium	ug/L	ND	500	04/21/11 17:37	
Silver	ug/L	ND	7.0	04/21/11 17:37	
Sodium	ug/L	ND	500	04/21/11 17:37	
Strontium	ug/L	ND	10.0	04/21/11 17:37	
Titanium	ug/L	ND	10.0	04/21/11 17:37	
Vanadium	ug/L	ND	10.0	04/21/11 17:37	
Zinc	ug/L	ND	50.0	04/21/11 17:37	

LABORATORY CONTROL SAMPLE: 801936

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9200	92	80-120	
Antimony	ug/L	1000	878	88	80-120	
Barium	ug/L	1000	913	91	80-120	
Beryllium	ug/L	1000	980	98	80-120	
Boron	ug/L	1000	973	97	80-120	
Calcium	ug/L	10000	10100	101	80-120	
Cobalt	ug/L	1000	952	95	80-120	
Iron	ug/L	10000	9200	92	80-120	
Magnesium	ug/L	10000	11000	110	80-120	
Manganese	ug/L	1000	1040	104	80-120	
Molybdenum	ug/L	1000	969	97	80-120	
Potassium	ug/L	10000	10100	101	80-120	
Silver	ug/L	500	503	101	80-120	
Sodium	ug/L	10000	9960	100	80-120	
Strontium	ug/L	1000	967	97	80-120	
Titanium	ug/L	1000	998	100	80-120	
Vanadium	ug/L	1000	1010	101	80-120	
Zinc	ug/L	1000	1070	107	80-120	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: ENCANA
Pace Project No.: 6097391

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 801937 801938

Parameter	Units	6097416001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	94.9	10000	10000	9320	9240	92	92	75-125	1	20	
Antimony	ug/L	ND	1000	1000	885	872	88	87	75-125	1	20	
Barium	ug/L	220	1000	1000	1130	1120	91	90	75-125	1	20	
Beryllium	ug/L	ND	1000	1000	990	984	99	98	75-125	1	20	
Boron	ug/L	ND	1000	1000	1090	1100	101	101	75-125	1	20	
Calcium	ug/L	86000	10000	10000	96700	95000	107	90	75-125	2	20	
Cobalt	ug/L	ND	1000	1000	930	926	93	92	75-125	0	20	
Iron	ug/L	730	10000	10000	9920	9840	92	91	75-125	1	20	
Magnesium	ug/L	15700	10000	10000	27000	27300	113	116	75-125	1	20	
Manganese	ug/L	103	1000	1000	1140	1150	104	104	75-125	1	20	
Molybdenum	ug/L	ND	1000	1000	979	975	97	96	75-125	0	20	
Potassium	ug/L	8990	10000	10000	19200	19000	103	100	75-125	1	20	
Silver	ug/L	ND	500	500	513	514	103	103	75-125	0	20	
Sodium	ug/L				189000	188000				0	20	
Strontium	ug/L	484	1000	1000	1440	1420	96	94	75-125	1	20	
Titanium	ug/L	ND	1000	1000	1020	1020	102	102	75-125	0	20	
Vanadium	ug/L	ND	1000	1000	1040	1050	104	105	75-125	1	20	
Zinc	ug/L	ND	1000	1000	1110	1110	109	109	75-125	1	20	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: ENCANA
Pace Project No.: 6097391

QC Batch: ICPM/25799 Analysis Method: EPA 6020
QC Batch Method: EPA 6020 Analysis Description: 6020 MET
Associated Lab Samples: 6097391001, 6097391002, 6097391003, 6097391004, 6097391005

METHOD BLANK: 966837 Matrix: Water
Associated Lab Samples: 6097391001, 6097391002, 6097391003, 6097391004, 6097391005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	ND	0.50	05/02/11 17:17	
Cadmium	ug/L	ND	0.080	05/02/11 17:17	
Chromium	ug/L	ND	0.50	05/02/11 17:17	
Copper	ug/L	0.070J	0.50	05/02/11 17:17	
Lead	ug/L	ND	0.10	05/02/11 17:17	
Nickel	ug/L	ND	0.50	05/02/11 17:17	
Selenium	ug/L	ND	0.50	05/02/11 17:17	
Silicon	ug/L	ND	25.0	05/02/11 17:17	
Thallium	ug/L	ND	0.10	05/02/11 17:17	
Uranium-238	ug/L	ND	0.50	05/02/11 17:17	

LABORATORY CONTROL SAMPLE: 966838

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	80	81.0	101	80-120	
Cadmium	ug/L	80	80.4	100	80-120	
Chromium	ug/L	80	79.3	99	80-120	
Copper	ug/L	80	80.0	100	80-120	
Lead	ug/L	80	78.1	98	80-120	
Nickel	ug/L	80	81.7	102	80-120	
Selenium	ug/L	80	79.8	100	80-120	
Silicon	ug/L	1000	1010	101	80-120	
Thallium	ug/L	80	89.2	112	80-120	
Uranium-238	ug/L	80	69.3	87	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 966839 966840

Parameter	Units	6097485004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	ND	80	80	78.5	78.2	98	98	75-125	.4	20	
Cadmium	ug/L	ND	80	80	78.3	80.3	98	100	75-125	3	20	
Chromium	ug/L	0.28J	80	80	77.4	77.8	96	97	75-125	.6	20	
Copper	ug/L	0.44J	80	80	78.1	78.6	97	98	75-125	.7	20	
Lead	ug/L	ND	80	80	76.8	77.2	96	96	75-125	.4	20	
Nickel	ug/L	0.081J	80	80	78.6	79.5	98	99	75-125	1	20	
Selenium	ug/L	ND	80	80	80.1	78.0	100	97	75-125	3	20	
Silicon	ug/L	234	1000	1000	1250	1240	101	101	75-125	.3	20	
Thallium	ug/L	ND	80	80	87.5	88.2	109	110	75-125	.9	20	
Uranium-238	ug/L	ND	80	80	71.2	70.4	89	88	75-125	1	20	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: ENCANA
Pace Project No.: 6097391

QC Batch: MERP/5125 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 6097391001, 6097391002, 6097391003, 6097391004, 6097391005

METHOD BLANK: 806322 Matrix: Water
Associated Lab Samples: 6097391001, 6097391002, 6097391003, 6097391004, 6097391005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	05/03/11 16:34	

LABORATORY CONTROL SAMPLE: 806323

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.1	82	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 806324 806325

Parameter	Units	6097449002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.4	4.4	87	87	75-125	0	20	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: ENCANA
Pace Project No.: 6097391

QC Batch: WET/7626 Analysis Method: EPA 8015 Modified
QC Batch Method: EPA 8015 Modified Analysis Description: EPA 8015 Modified
Associated Lab Samples: 6097391001, 6097391002, 6097391003, 6097391004, 6097391005

METHOD BLANK: 565513 Matrix: Water
Associated Lab Samples: 6097391001, 6097391002, 6097391003, 6097391004, 6097391005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylene glycol	mg/L	ND	10.0	04/29/11 14:07	
Propylene glycol	mg/L	ND	5.0	04/29/11 14:07	

LABORATORY CONTROL SAMPLE: 565514

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ethylene glycol	mg/L	276	289	105	78-118	
Propylene glycol	mg/L	259	280	108	80-127	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 565515 565516

Parameter	Units	6097391001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Ethylene glycol	mg/L	ND	276	276	281	285	101	102	51-135	1	20	
Propylene glycol	mg/L	ND	259	259	271	272	105	105	53-135	.1	20	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALIFIERS

Project: ENCANA
Pace Project No.: 6097391

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-I	Pace Analytical Services - Indianapolis
PASI-K	Pace Analytical Services - Kansas City
PASI-M	Pace Analytical Services - Minneapolis

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ENCANA
Pace Project No.: 6097391

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
6097391001	PGDW-21	EPA 3010	MPRP/13993	EPA 6010	ICP/12158
6097391001	PGDW-21	EPA 6020	ICPM/25799	EPA 6020	ICPM/10542
6097391001	PGDW-21	EPA 7470	MERP/5125	EPA 7470	MERC/5103
6097391001	PGDW-21	EPA 8015 Modified	WET/7626		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..