

**APPENDIX D**

**Laboratory Analytical Reports and Chain-of-Custody Documents  
October 2011 Semiannual Event**



Environmental & Marine Chemistry Laboratories



# CALSCIENCE

## WORK ORDER NUMBER: 11-10-0708

*The difference is service*



AIR | SOIL | WATER | MARINE CHEMISTRY

### Analytical Report For

**Client:** Parsons, Inc.

**Client Project Name:** NORWALK GWM

**Attention:** Mary Lucas  
100 West Walnut Street  
Pasadena, CA 91124-0002

*Ranjit K. Clarke*

Approved for release on 10/17/2011 by:  
Ranjit Clarke  
Project Manager

ResultLink ▶

Email your PM ▶



Calscience Environmental Laboratories certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety. Note that the Chain-of-Custody Record and Sample Receipt Form are integral parts of this report.





Environmental &amp; Marine Chemistry Laboratories

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Client Project Name: NORWALK GWM

Work Order Number: 11-10-0708

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Parsons, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: 10/10/11  
 Work Order No: 11-10-0708  
 Preparation: EPA 3510C  
 Method: EPA 8015B (M)

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EXP-3	11-10-0708-2-G	10/10/11 08:13	Aqueous	GC 47	10/12/11	10/13/11 12:46	111012B12

Parameter	Result	RL	DF	Qual	Units
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	100	68-140			

EXP-1	11-10-0708-3-G	10/10/11 08:59	Aqueous	GC 47	10/12/11	10/13/11 13:01	111012B12
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Parameter	Result	RL	DF	Qual	Units
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	99	68-140			

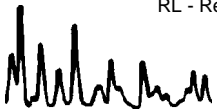
EXP-2	11-10-0708-4-G	10/10/11 09:55	Aqueous	GC 47	10/12/11	10/13/11 13:16	111012B12
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Parameter	Result	RL	DF	Qual	Units
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	104	68-140			

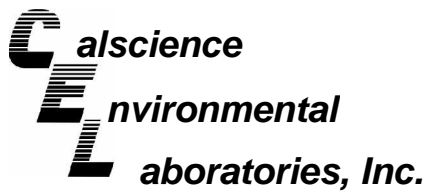
GMW-6	11-10-0708-5-D	10/10/11 10:39	Aqueous	GC 47	10/12/11	10/13/11 13:31	111012B12
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Parameter	Result	RL	DF	Qual	Units
TPH as JP5	290	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	110	68-140			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 10/10/11  
Work Order No: 11-10-0708  
Preparation: EPA 3510C  
Method: EPA 8015B (M)

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>GMW-15</b>	<b>11-10-0708-6-D</b>	<b>10/10/11 11:18</b>	<b>Aqueous</b>	<b>GC 47</b>	<b>10/12/11</b>	<b>10/13/11 13:47</b>	<b>111012B12</b>

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	170	100	1		ug/L

<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>
Decachlorobiphenyl	102	68-140	

<b>GMW-12</b>	<b>11-10-0708-7-D</b>	<b>10/10/11 12:08</b>	<b>Aqueous</b>	<b>GC 47</b>	<b>10/12/11</b>	<b>10/13/11 14:02</b>	<b>111012B12</b>
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	ND	100	1		ug/L

<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>
Decachlorobiphenyl	106	68-140	

<b>GMW-16</b>	<b>11-10-0708-8-D</b>	<b>10/10/11 12:45</b>	<b>Aqueous</b>	<b>GC 47</b>	<b>10/12/11</b>	<b>10/13/11 14:17</b>	<b>111012B12</b>
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	ND	100	1		ug/L

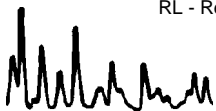
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>
Decachlorobiphenyl	99	68-140	

<b>GMW-17</b>	<b>11-10-0708-9-G</b>	<b>10/10/11 13:21</b>	<b>Aqueous</b>	<b>GC 47</b>	<b>10/12/11</b>	<b>10/13/11 14:32</b>	<b>111012B12</b>
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	1100	100	1		ug/L

<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>
Decachlorobiphenyl	101	68-140	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Parsons, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: 10/10/11  
 Work Order No: 11-10-0708  
 Preparation: EPA 3510C  
 Method: EPA 8015B (M)

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>GMW-17dup</b>	<b>11-10-0708-10-D</b>	<b>10/10/11 00:00</b>	<b>Aqueous</b>	<b>GC 47</b>	<b>10/12/11</b>	<b>10/13/11 14:47</b>	<b>111012B12</b>

Parameter	Result	RL	DF	Qual	Units
TPH as JP5	1200	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	104	68-140			

<b>GMW-19</b>	<b>11-10-0708-11-D</b>	<b>10/10/11 14:05</b>	<b>Aqueous</b>	<b>GC 47</b>	<b>10/12/11</b>	<b>10/13/11 15:03</b>	<b>111012B12</b>
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Parameter	Result	RL	DF	Qual	Units
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	108	68-140			

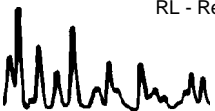
<b>GMW-31</b>	<b>11-10-0708-12-D</b>	<b>10/10/11 14:46</b>	<b>Aqueous</b>	<b>GC 47</b>	<b>10/12/11</b>	<b>10/13/11 15:33</b>	<b>111012B12</b>
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Parameter	Result	RL	DF	Qual	Units
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	115	68-140			

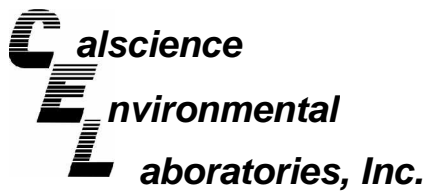
<b>Method Blank</b>	<b>099-12-366-86</b>	<b>N/A</b>	<b>Aqueous</b>	<b>GC 47</b>	<b>10/12/11</b>	<b>10/13/11 12:01</b>	<b>111012B12</b>
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Parameter	Result	RL	DF	Qual	Units
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	89	68-140			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 10/10/11  
Work Order No: 11-10-0708  
Preparation: EPA 5030C  
Method: EPA 8015B (M)

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EXP-3	11-10-0708-2-F	10/10/11 08:13	Aqueous	GC 29	10/11/11	10/11/11 17:15	111011B01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	78	38-134			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EXP-1	11-10-0708-3-F	10/10/11 08:59	Aqueous	GC 29	10/11/11	10/11/11 17:50	111011B01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	84	38-134			

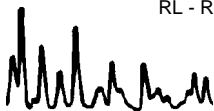
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EXP-2	11-10-0708-4-F	10/10/11 09:55	Aqueous	GC 29	10/11/11	10/11/11 18:25	111011B01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	93	38-134			

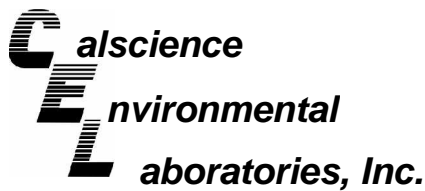
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-17	11-10-0708-9-F	10/10/11 13:21	Aqueous	GC 29	10/11/11	10/11/11 19:00	111011B01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	1100	100	1	HD	ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	137	38-134		2,7	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 10/10/11  
Work Order No: 11-10-0708  
Preparation: EPA 5030C  
Method: EPA 8015B (M)

Project: NORWALK GWM

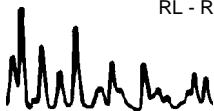
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-247-5,444	N/A	Aqueous	GC 29	10/11/11	10/11/11 16:40	111011B01

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as Gasoline	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	92	38-134			

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers







Parsons, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: 10/10/11  
 Work Order No: 11-10-0708  
 Preparation: EPA 5030C  
 Method: EPA 8260B  
 Units: ug/L

Project: NORWALK GWM

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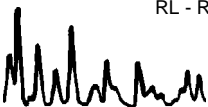
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB-01	11-10-0708-1-A	10/10/11 08:00	Aqueous	GC/MS UU	10/13/11	10/13/11 16:09	111013L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	0.93	5.0	0.64	1	J
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	95	80-120		Dibromofluoromethane	105	80-126	
1,2-Dichloroethane-d4	111	80-134		Toluene-d8	103	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Parsons, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: 10/10/11  
 Work Order No: 11-10-0708  
 Preparation: EPA 5030C  
 Method: EPA 8260B  
 Units: ug/L

Project: NORWALK GWM

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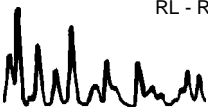
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EXP-3	11-10-0708-2-A	10/10/11 08:13	Aqueous	GC/MS UU	10/13/11	10/13/11 16:36	111013L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

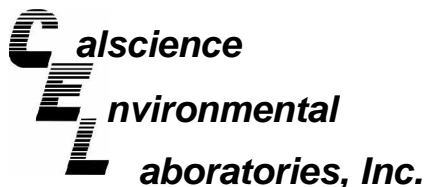
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	8.7	10	4.6	1	J
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	90	80-120		Dibromofluoromethane	104	80-126	
1,2-Dichloroethane-d4	109	80-134		Toluene-d8	100	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 10/10/11  
Work Order No: 11-10-0708  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EXP-1	11-10-0708-3-A	10/10/11 08:59	Aqueous	GC/MS UU	10/13/11	10/13/11 17:04	111013L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

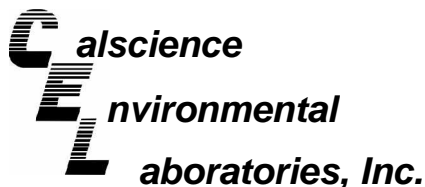
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	90	80-120		Dibromofluoromethane	106	80-126	
1,2-Dichloroethane-d4	109	80-134		Toluene-d8	101	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 10/10/11  
Work Order No: 11-10-0708  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EXP-2	11-10-0708-4-A	10/10/11 09:55	Aqueous	GC/MS UU	10/13/11	10/13/11 17:31	111013L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

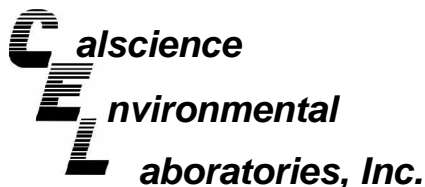
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	90	80-120		Dibromofluoromethane	106	80-126	
1,2-Dichloroethane-d4	111	80-134		Toluene-d8	99	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 10/10/11  
Work Order No: 11-10-0708  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: NORWALK GWM

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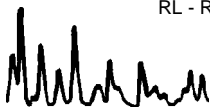
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-6	11-10-0708-5-A	10/10/11 10:39	Aqueous	GC/MS UU	10/13/11	10/13/11 17:58	111013L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

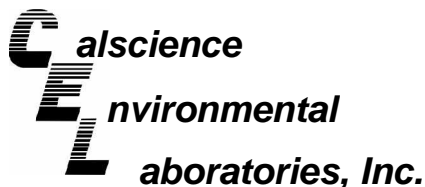
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	0.73	1.0	0.28	1	J	p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	1.8	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	220	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	91	80-120		Dibromofluoromethane	105	80-126	
1,2-Dichloroethane-d4	109	80-134		Toluene-d8	103	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 10/10/11  
Work Order No: 11-10-0708  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-15	11-10-0708-6-A	10/10/11 11:18	Aqueous	GC/MS UU	10/13/11	10/13/11 18:26	111013L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

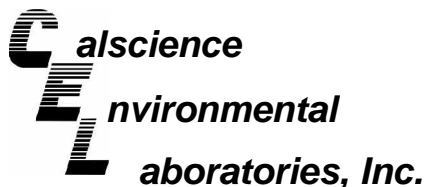
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	89	80-120		Dibromofluoromethane	108	80-126	
1,2-Dichloroethane-d4	113	80-134		Toluene-d8	104	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 10/10/11  
Work Order No: 11-10-0708  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: NORWALK GWM

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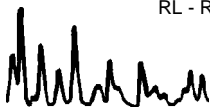
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-12	11-10-0708-7-A	10/10/11 12:08	Aqueous	GC/MS UU	10/13/11	10/13/11 18:53	111013L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

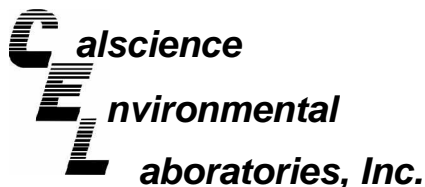
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	89	80-120		Dibromofluoromethane	108	80-126	
1,2-Dichloroethane-d4	114	80-134		Toluene-d8	100	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 10/10/11  
Work Order No: 11-10-0708  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-16	11-10-0708-8-A	10/10/11 12:45	Aqueous	GC/MS UU	10/13/11	10/13/11 19:20	111013L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	90	80-120		Dibromofluoromethane	110	80-126	
1,2-Dichloroethane-d4	112	80-134		Toluene-d8	102	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Parsons, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: 10/10/11  
 Work Order No: 11-10-0708  
 Preparation: EPA 5030C  
 Method: EPA 8260B  
 Units: ug/L

Project: NORWALK GWM

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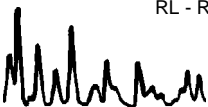
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-17	11-10-0708-9-A	10/10/11 13:21	Aqueous	GC/MS UU	10/13/11	10/13/11 19:48	111013L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	50	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	28	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	20	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	0.38	1.0	0.23	1	J	Naphthalene	25	10	2.5	1	
sec-Butylbenzene	1.5	1.0	0.25	1		n-Propylbenzene	19	1.0	0.17	1	
tert-Butylbenzene	0.39	1.0	0.28	1	J	Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	0.77	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	0.74	1.0	0.36	1	J
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	0.37	1.0	0.28	1	J
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	6.2	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	0.27	0.50	0.23	1	J
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	100	80-120		Dibromofluoromethane	109	80-126	
1,2-Dichloroethane-d4	113	80-134		Toluene-d8	101	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Return to Contents



Parsons, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: 10/10/11  
 Work Order No: 11-10-0708  
 Preparation: EPA 5030C  
 Method: EPA 8260B  
 Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-17dup	11-10-0708-10-A	10/10/11 00:00	Aqueous	GC/MS UU	10/13/11	10/13/11 20:15	111013L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

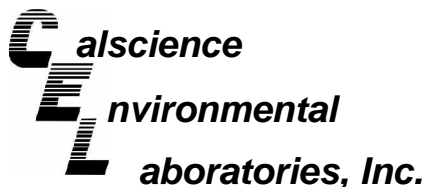
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	51	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	28	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	20	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	0.36	1.0	0.23	1	J	Naphthalene	24	10	2.5	1	
sec-Butylbenzene	1.6	1.0	0.25	1		n-Propylbenzene	18	1.0	0.17	1	
tert-Butylbenzene	0.40	1.0	0.28	1	J	Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	0.78	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	0.79	1.0	0.36	1	J
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	0.39	1.0	0.28	1	J
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	6.2	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	0.25	0.50	0.23	1	J
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	96	80-120		Dibromofluoromethane	103	80-126	
1,2-Dichloroethane-d4	107	80-134		Toluene-d8	104	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 10/10/11  
Work Order No: 11-10-0708  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-19	11-10-0708-11-A	10/10/11 14:05	Aqueous	GC/MS UU	10/13/11	10/13/11 20:43	111013L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

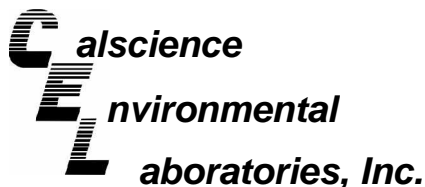
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	93	80-120		Dibromofluoromethane	103	80-126	
1,2-Dichloroethane-d4	106	80-134		Toluene-d8	101	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 10/10/11  
Work Order No: 11-10-0708  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-31	11-10-0708-12-A	10/10/11 14:46	Aqueous	GC/MS V V	10/13/11	10/13/11 15:46	111013L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

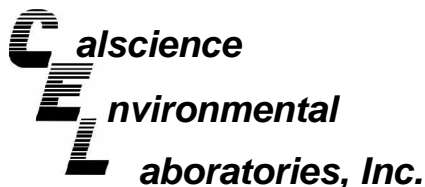
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	0.68	5.0	0.64	1	J
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	97	80-120		Dibromofluoromethane	100	80-126	
1,2-Dichloroethane-d4	101	80-134		Toluene-d8	100	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 10/10/11  
Work Order No: 11-10-0708  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: NORWALK GWM

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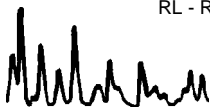
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-14-001-5,951	N/A	Aqueous	GC/MS V V	10/13/11	10/13/11 12:32	111013L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	1.0	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	10	3.9	1		Methylene Chloride	ND	10	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	0.25	1.0	0.24	1	J
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	10	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	1.0	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	1.0	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	97	80-120		Dibromofluoromethane	101	80-126	
1,2-Dichloroethane-d4	102	80-134		Toluene-d8	101	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Return to Contents



Parsons, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: 10/10/11  
 Work Order No: 11-10-0708  
 Preparation: EPA 5030C  
 Method: EPA 8260B  
 Units: ug/L

Project: NORWALK GWM

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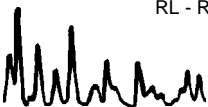
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-14-001-5,958	N/A	Aqueous	GC/MS UU	10/13/11	10/13/11 13:24	111013L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

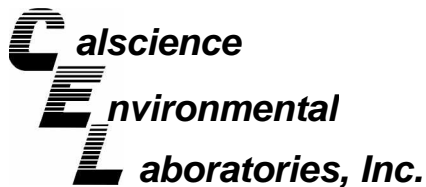
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	1.0	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	10	3.9	1		Methylene Chloride	ND	10	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	1.0	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	10	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	1.0	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	1.0	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	93	80-120		Dibromofluoromethane	103	80-126	
1,2-Dichloroethane-d4	105	80-134		Toluene-d8	97	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Return to Contents



Quality Control - Spike/Spike Duplicate



Parsons, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: 10/10/11  
 Work Order No: 11-10-0708  
 Preparation: EPA 5030C  
 Method: EPA 8015B (M)

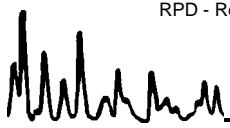
Project NORWALK GWM

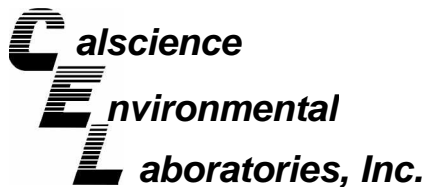
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
11-10-0703-2	Aqueous	GC 29	10/11/11	10/11/11	111011S01

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	2000	87	82	68-122	5	0-18	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - Spike/Spike Duplicate



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 10/10/11  
Work Order No: 11-10-0708  
Preparation: EPA 5030C  
Method: EPA 8260B

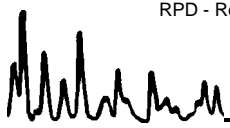
Project NORWALK GWM

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
11-10-0827-2	Aqueous	GC/MS V V	10/13/11	10/13/11	111013S01

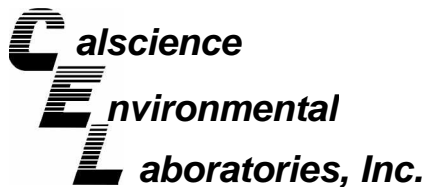
Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	50.00	95	98	78-120	3	0-20	
Carbon Tetrachloride	50.00	91	93	67-139	3	0-20	
Chlorobenzene	50.00	101	102	80-120	1	0-20	
1,2-Dibromoethane	50.00	100	102	80-123	2	0-20	
1,2-Dichlorobenzene	50.00	100	103	76-120	3	0-20	
1,2-Dichloroethane	50.00	100	102	76-130	2	0-20	
1,1-Dichloroethene	50.00	113	114	70-130	1	0-27	
Ethylbenzene	50.00	101	102	73-127	1	0-20	
Toluene	50.00	99	102	72-126	3	0-20	
Trichloroethene	50.00	98	99	74-122	2	0-20	
Vinyl Chloride	50.00	127	125	65-131	1	0-24	
Methyl-t-Butyl Ether (MTBE)	50.00	108	112	69-123	3	0-20	
Tert-Butyl Alcohol (TBA)	250.0	95	96	65-131	1	0-22	
Diisopropyl Ether (DIPE)	50.00	106	109	68-128	4	0-22	
Ethyl-t-Butyl Ether (ETBE)	50.00	99	116	69-123	16	0-21	
Tert-Amyl-Methyl Ether (TAME)	50.00	87	90	70-124	3	0-20	
Ethanol	500.0	100	101	41-155	1	0-35	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit







Quality Control - Spike/Spike Duplicate



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 10/10/11  
Work Order No: 11-10-0708  
Preparation: EPA 5030C  
Method: LUFT GC/MS / EPA 8260B

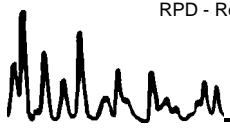
Project NORWALK GWM

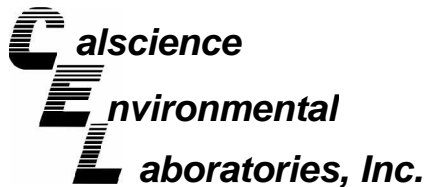
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
11-10-0757-4	Aqueous	GC/MS UU	10/13/11	10/13/11	111013S01

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	50.00	104	102	78-120	2	0-20	
Carbon Tetrachloride	50.00	107	104	67-139	2	0-20	
Chlorobenzene	50.00	101	101	80-120	0	0-20	
1,2-Dibromoethane	50.00	108	107	80-123	2	0-20	
1,2-Dichlorobenzene	50.00	104	102	76-120	2	0-20	
1,2-Dichloroethane	50.00	102	99	76-130	3	0-20	
1,1-Dichloroethene	50.00	102	102	70-130	1	0-27	
Ethylbenzene	50.00	109	107	73-127	1	0-20	
Toluene	50.00	100	103	72-126	2	0-20	
Trichloroethene	50.00	101	102	74-122	1	0-20	
Vinyl Chloride	50.00	112	111	65-131	1	0-24	
Methyl-t-Butyl Ether (MTBE)	50.00	103	102	69-123	1	0-20	
Tert-Butyl Alcohol (TBA)	250.0	57	74	65-131	4	0-22	3
Diisopropyl Ether (DIPE)	50.00	107	106	68-128	0	0-22	
Ethyl-t-Butyl Ether (ETBE)	50.00	102	101	69-123	2	0-21	
Tert-Amyl-Methyl Ether (TAME)	50.00	101	102	70-124	1	0-20	
Ethanol	500.0	111	110	41-155	1	0-35	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: N/A  
Work Order No: 11-10-0708  
Preparation: EPA 3510C  
Method: EPA 8015B (M)

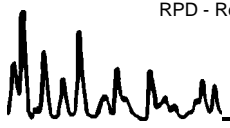
Project: NORWALK GWM

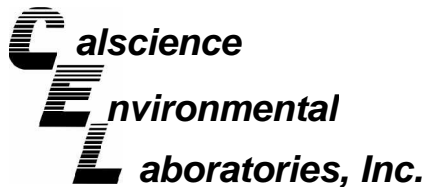
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-366-86	Aqueous	GC 47	10/12/11	10/13/11	111012B12

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as JP5	4000	91	89	75-117	2	0-13	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: N/A  
Work Order No: 11-10-0708  
Preparation: EPA 5030C  
Method: EPA 8015B (M)

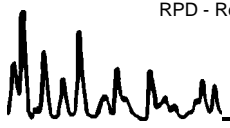
Project: NORWALK GWM

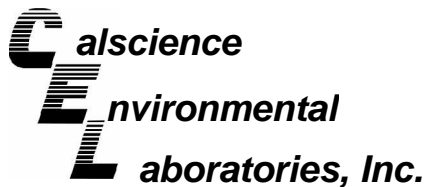
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-247-5,444	Aqueous	GC 29	10/11/11	10/11/11	111011B01

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	2000	87	89	78-120	2	0-10	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: N/A  
Work Order No: 11-10-0708  
Preparation: EPA 5030C  
Method: EPA 8260B

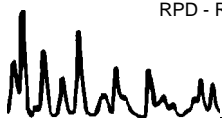
Project: NORWALK GWM

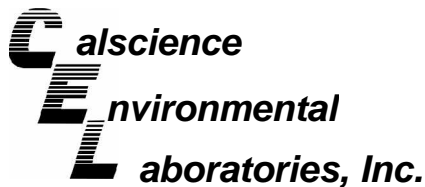
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number			
099-14-001-5,951	Aqueous	GC/MS V V	10/13/11	10/13/11	111013L01			
Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	99	100	80-120	73-127	0	0-20	
Carbon Tetrachloride	50.00	100	98	66-138	54-150	2	0-20	
Chlorobenzene	50.00	105	104	80-120	73-127	1	0-20	
1,2-Dibromoethane	50.00	105	103	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	50.00	104	104	80-120	73-127	1	0-20	
1,2-Dichloroethane	50.00	103	102	80-129	72-137	1	0-20	
1,1-Dichloroethene	50.00	116	115	71-131	61-141	1	0-20	
Ethylbenzene	50.00	104	103	80-123	73-130	1	0-20	
Toluene	50.00	103	103	79-121	72-128	0	0-20	
Trichloroethene	50.00	102	102	80-120	73-127	0	0-20	
Vinyl Chloride	50.00	121	120	70-136	59-147	1	0-20	
Methyl-t-Butyl Ether (MTBE)	50.00	110	109	72-126	63-135	1	0-22	
Tert-Butyl Alcohol (TBA)	250.0	94	95	71-125	62-134	1	0-25	
Diisopropyl Ether (DIPE)	50.00	107	105	69-129	59-139	2	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	120	117	69-129	59-139	3	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	94	93	67-133	56-144	1	0-20	
Ethanol	500.0	95	105	47-155	29-173	10	0-36	

Total number of LCS compounds : 17  
 Total number of ME compounds : 0  
 Total number of ME compounds allowed : 1  
 LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: N/A  
Work Order No: 11-10-0708  
Preparation: EPA 5030C  
Method: EPA 8260B

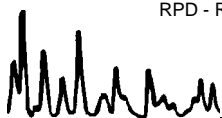
Project: NORWALK GWM

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number			
099-14-001-5,958	Aqueous	GC/MS UU	10/13/11	10/13/11	111013L02			
Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	106	103	80-120	73-127	3	0-20	
Carbon Tetrachloride	50.00	111	110	66-138	54-150	1	0-20	
Chlorobenzene	50.00	103	102	80-120	73-127	1	0-20	
1,2-Dibromoethane	50.00	110	106	80-120	73-127	3	0-20	
1,2-Dichlorobenzene	50.00	102	102	80-120	73-127	0	0-20	
1,2-Dichloroethane	50.00	103	100	80-129	72-137	3	0-20	
1,1-Dichloroethene	50.00	108	105	71-131	61-141	3	0-20	
Ethylbenzene	50.00	110	106	80-123	73-130	3	0-20	
Toluene	50.00	103	100	79-121	72-128	3	0-20	
Trichloroethene	50.00	102	103	80-120	73-127	1	0-20	
Vinyl Chloride	50.00	111	111	70-136	59-147	0	0-20	
Methyl-t-Butyl Ether (MTBE)	50.00	102	103	72-126	63-135	1	0-22	
Tert-Butyl Alcohol (TBA)	250.0	98	97	71-125	62-134	1	0-25	
Diisopropyl Ether (DIPE)	50.00	112	110	69-129	59-139	2	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	109	104	69-129	59-139	5	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	105	101	67-133	56-144	5	0-20	
Ethanol	500.0	112	108	47-155	29-173	4	0-36	

Total number of LCS compounds : 17  
 Total number of ME compounds : 0  
 Total number of ME compounds allowed : 1  
 LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

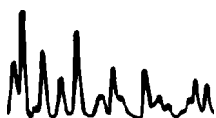


Work Order Number: 11-10-0708
 

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<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS/LCSD Recovery Percentage is within Marginal Exceedance (ME) Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.



10/2

**BLAINE**

1680 ROGERS AVENUE  
SAN JOSE, CALIFORNIA 95112-1105  
FAX (408) 573-7771  
PHONE (408) 573-0555

TECH SERVICES, INC.

LAB: Calscience PM: Ranjit Clark  
ALL ANALYSES MUST MEET

EPA  
 LIA  
 OTHER  
 RWQCB REGION  
**11-10-0708**

DHS #

CHAIN OF CUSTODY

CLIENT **Parsons**

SITE **Norwalk GWM**

SPECIAL INSTRUCTIONS

Invoice and Report to:  
Parsons - Mary Lucas (mary.lucas@parsons.com)  
100 W Walnut St., Pasadena, CA 91124 (626) 440-6032  
Project # 746442

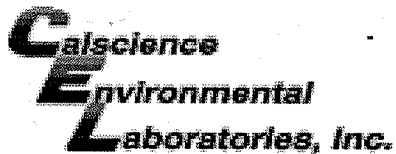
CONDUCT ANALYSIS TO DETECT	VOCs (including BTEX, MTBE, TBA, EPA 8260)		TPH as JPS (8015)	TPHg (8015)
	X	X		
	X	X	X	
	X	X	X	
	X	X	X	
	X	X	X	
	X	X	X	
	X	X	X	
	X	X	X	
	X	X	X	
	X	X	X	
	X	X	X	
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	X	X	X	
	X	X	X	
	X	X	X	
	X	X	X	
	X	X	X	
	X	X	X	

SAMPLE I.D.	DATE	TIME	MATRIX	CONTAINERS		SAMPLING PERFORMED BY
				SO <sub>2</sub>	W = H <sub>2</sub> O	
TS-01	10/10/11	0800	W	2	VOA	
EXP-3		0813		7	voal sample	
EXP-1		0859		7		
EXP-2		0955		7		
GMLW-6		1039		4		
GMLW-15		1118		4		
GMLW-12		1100		4		
GMLW-16		1245		4		
GMLW-17		1321		7		
GMLW-17dup		-		4		

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	RECEIVED BY		RESULTS NEEDED NO LATER THAN
				DATE	TIME	
	10/10/11	1600	M. Hansen	10/10/11	1600	Standard
				Nicole (Sample Custodian)	10/10/11	1600
				AR25	1640	
				Nicole	1750	
				Dannyle	1730	







WORK ORDER #: 11-10-0708

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: B.T.S.

DATE: 10/10/11

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0°C - 6.0°C, not frozen)

Temperature 3.4°C + 0.5°C (CF) = 3.9°C [X] Blank [ ] Sample

[ ] Sample(s) outside temperature criteria (PM/APM contacted by: \_\_\_\_\_).

[ ] Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

[ ] Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: [ ] Air [ ] Filter

Initial: [Signature]

CUSTODY SEALS INTACT:

[ ] Cooler [ ] \_\_\_\_\_ [ ] No (Not Intact) [X] Not Present [ ] N/A

Initial: [Signature]

[ ] Sample [ ] \_\_\_\_\_ [ ] No (Not Intact) [X] Not Present

Initial: PT

SAMPLE CONDITION:

Table with 4 columns: Item, Yes, No, N/A. Rows include Chain-Of-Custody (COC) document(s) received with samples, COC document(s) received complete, Sampler's name indicated on COC, Sample container label(s) consistent with COC, etc.

CONTAINER TYPE:

Solid: [ ] 4ozCGJ [ ] 8ozCGJ [ ] 16ozCGJ [ ] Sleeve (\_\_\_\_) [ ] EnCores® [ ] TerraCores® [ ] \_\_\_\_\_
Water: [X] VOA [ ] VOAh [ ] VOAna2 [ ] 125AGB [ ] 125AGBh [ ] 125AGBp [ ] 1AGB [ ] 1AGBna2 [ ] 1AGBs
[ ] 500AGB [X] 500AGJ [ ] 500AGJs [ ] 250AGB [ ] 250CGB [ ] 250CGBs [ ] 1PB [ ] 1PBna [ ] 500PB
[ ] 250PB [ ] 250PBn [ ] 125PB [ ] 125PBzanna [ ] 100PJ [ ] 100PJna2 [ ] \_\_\_\_\_ [ ] \_\_\_\_\_ [ ] \_\_\_\_\_

Air: [ ] Tedlar® [ ] Summa® Other: [ ] \_\_\_\_\_ Trip Blank Lot#: 111003B Labeled/Checked by: PT

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: [Signature]

Preservative: h: HCL n: HNO3 na2:Na2S2O3 na: NaOH p: H3PO4 s: H2SO4 u: Ultra-pure zna: ZnAc2+NaOH f: Filtered Scanned by: [Signature]



WORK ORDER #: 11-10-0708

## SAMPLE ANOMALY FORM

**SAMPLES - CONTAINERS & LABELS:**

**Comments:**

- Sample(s) NOT RECEIVED but listed on COC
- Sample(s) received but NOT LISTED on COC
- Holding time expired – list sample ID(s) and test
- Insufficient quantities for analysis – list test
- Improper container(s) used – list test
- Improper preservative used – list test
- No preservative noted on COC or label – list test & notify lab
- Sample labels illegible – note test/container type
- Sample label(s) do not match COC – Note in comments
  - Sample ID
  - Date and/or Time Collected
  - Project Information
  - # of Container(s)
  - Analysis
- Sample container(s) compromised – Note in comments
  - Water present in sample container
  - Broken
- Sample container(s) not labeled
- Air sample container(s) compromised – Note in comments
  - Flat
  - Very low in volume
  - Leaking (Not transferred - duplicate bag submitted)
  - Leaking (transferred into Calscience Tedlar® Bag\*)
  - Leaking (transferred into Client's Tedlar® Bag\*)
- Other: \_\_\_\_\_

*(1-15) all vials received unpreserved.*

**HEADSPACE – Containers with Bubble > 6mm or ¼ inch:**

Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Cont. received	Analysis

Comments: \_\_\_\_\_

\*Transferred at Client's request.

Initial / Date: PT 10/10/11



**Ranjit Clarke**

---

**From:** Bart Gebbie [bgebbie@blainetech.com]  
**Sent:** Tuesday, October 11, 2011 9:31 AM  
**To:** Ranjit Clarke  
**Cc:** Matt Houser  
**Subject:** RE: Norwalk COC - GWM (10/10/11)  
**Attachments:** COC revision.pdf

Ranjit,

See the attached revised COC. No TPH-G needed on the TB.

Thanks,

Bart Gebbie  
Director of Client Services  
Blaine Tech Services, Inc.  
20735 Belshaw Ave.  
Carson, CA 90746  
Office: (310)885-4455 ext. 103  
Cell: (310)628-1116  
Fax: (310)637-5802  
BlaineTech.com

---

From: Ranjit Clarke [mailto:rclarke@calscience.com]  
Sent: Tuesday, October 11, 2011 9:18 AM  
To: Matt Houser  
Cc: Bart Gebbie  
Subject: RE: Norwalk COC - GWM (10/10/11)

Matt,

The first sample on the COC, **TB-01**, has VOCs and TPH-g requested. Historically the "Trip Blank" samples only have VOCs. Is this an error or do you indeed require TPH-g on the trip blank?

Ranjit Clarke  
Project Manager  
Calscience Environmental Laboratories, Inc.  
7440 Lincoln Way  
Garden Grove, CA 92841-1427  
Phone: 714-895-5494 x222  
Fax: 714-894-7501  
[rclarke@calscience.com](mailto:rclarke@calscience.com)

---

From: Matt Houser [mailto:mhouser@blainetech.com]  
Sent: Monday, October 10, 2011 4:55 PM  
To: Ranjit Clarke



10/2

DHS #

LAB: Calscience PM: Ranjit Clark

ALL ANALYSES MUST MEET

- EPA
- LIA
- OTHER
- RWQCB REGION

**11-10-0708**

SPECIAL INSTRUCTIONS

Invoice and Report to:

Parsons - Mary Lucas (mary.lucas@parsons.com)

100 W Walnut St., Pasadena, CA 91124 (626) 440-6032

Project # 746442

CONDUCT ANALYSIS TO DETECT

CONDUCT ANALYSIS TO DETECT	TPH as JPS (8015)	TPHg (8015)	VOCs (including BTEX, MTBE, TBA, EPA 8260)	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
	X	X	X	NO TPH-G			1
	X	X	X				2
	X	X	X	EXP-1			3
	X	X	X				4
	X	X	X				5
	X	X	X				6
	X	X	X				7
	X	X	X				8
	X	X	X				9
	X	X	X				10

RESULTS NEEDED NO LATER THAN

Standard

1680 ROGERS AVENUE  
SAN JOSE, CALIFORNIA 95112-1105  
FAX (408) 573-7771  
PHONE (408) 573-0555

**BLAINE**

TECH SERVICES, INC.

CHAIN OF CUSTODY

CLIENT: Parsons

SITE: Norwalk GWM

SAMPLE I.D.	DATE	TIME	MATRIX	CONTAINERS	TOTAL
TK-01	10/10/11	0800	W	VOA	2
GP-3		0813		VOA/Amble	7
EXP-1		0859			7
EXP-2		0955			7
GMW-6		1039			4
GMW-15		1103			4
GMW-12		1100			4
GMW-10		1245			4
GMW-17		1321			7
GMW-17dup					4

SAMPLING PERFORMED BY: M. HARRIS

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
M. Harris	10/10/11	1600	Nicole (Sample Custodian)	10/10/11	1600
M. Harris	10/10/11	1640	ADD	10/10/11	1640
M. Harris	10/10/11	1750	DANNY	10/10/11	1750

SHIPPED VIA

0708 2012

LAB: Calciscience PM: Ranjit Clark  
 ALL ANALYSES MUST MEET  
 EPA  RWQCB REGION  
 LIA  
 OTHER

1680 ROGERS AVENUE  
 SAN JOSE, CALIFORNIA 95112-1105  
 FAX (408) 573-7771  
 PHONE (408) 573-0555

**BLAINE**  
 TECH SERVICES, INC.

LAB: Calciscience PM: Ranjit Clark

ALL ANALYSES MUST MEET

1680 ROGERS AVENUE  
 SAN JOSE, CALIFORNIA 95112-1105  
 FAX (408) 573-7771  
 PHONE (408) 573-0555

**BLAINE**  
 TECH SERVICES, INC.

SPECIAL INSTRUCTIONS

Invoice and Report to:  
 Parsons - Mary Lucas (mary.lucas@parsons.com)

100 W Walnut St., Pasadena, CA 91124 (626) 440-6032  
 Project # 746442

CHAIN OF  
 CLIENT Parsons  
 SITE Norwalk GWM

SPECIAL INSTRUCTIONS

Invoice and Report to:

Parsons - Mary Lucas (mary.lucas@parsons.com)  
 100 W Walnut St., Pasadena, CA 91124 (626) 440-6032  
 Project # 746442

SAMPLE I.D.	DATE	TIME	MATRIX S = Soil W = H2O	CONTAINERS TOTAL	VOCs (including BTEX, MTBE, TBA, EPA 8260)	TPH as JP6 (8015)	TPHg (8015)	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
GMW-19	10/10/11	1405	W	4	X			NOA Analytical			11
GMW-31	10/10/11	1446	W	4	X			↓			12

SAMPLING COMPLETED 10/10/11  
 RELEASED BY *Mathouse* DATE 10/10/11  
 RECEIVED BY *Nicole (Sample Custodian)* DATE 10/10/11  
 RESULTS NEEDED NO LATER THAN Standard

RECEIVED BY *Nicole (Sample Custodian)* DATE 10/10/11  
 TIME 16:00

RECEIVED BY *STR* DATE 10/10/11  
 TIME 1640

RECEIVED BY *DANNY* DATE 10/10/11  
 TIME 17:50

SHIPPED VIA



Environmental & Marine Chemistry Laboratories



# CALSCIENCE

## WORK ORDER NUMBER: 11-10-0827

*The difference is service*



AIR | SOIL | WATER | MARINE CHEMISTRY

### Analytical Report For

**Client:** Parsons, Inc.

**Client Project Name:** NORWALK GWM

**Attention:** Mary Lucas  
100 West Walnut Street  
Pasadena, CA 91124-0002

Approved for release on 10/19/2011 by:  
Ranjit Clarke  
Project Manager

ResultLink ▶

Email your PM ▶



Calscience Environmental Laboratories certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety. Note that the Chain-of-Custody Record and Sample Receipt Form are integral parts of this report.





Environmental &amp; Marine Chemistry Laboratories

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Client Project Name: NORWALK GWM

Work Order Number: 11-10-0827

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Parsons, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: 10/12/11  
 Work Order No: 11-10-0827  
 Preparation: EPA 3510C  
 Method: EPA 8015B (M)

Project: NORWALK GWM

Page 1 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>GMW-41</b>	<b>11-10-0827-2-D</b>	<b>10/11/11 07:49</b>	<b>Aqueous</b>	<b>GC 27</b>	<b>10/13/11</b>	<b>10/15/11 14:32</b>	<b>111013B16</b>

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	ND	100	1		ug/L

<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>
Decachlorobiphenyl	97	68-140	

<b>GMW-43</b>	<b>11-10-0827-3-D</b>	<b>10/11/11 08:24</b>	<b>Aqueous</b>	<b>GC 27</b>	<b>10/13/11</b>	<b>10/15/11 14:50</b>	<b>111013B16</b>
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	ND	100	1		ug/L

<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>
Decachlorobiphenyl	101	68-140	

<b>GMW-44</b>	<b>11-10-0827-4-D</b>	<b>10/11/11 08:54</b>	<b>Aqueous</b>	<b>GC 27</b>	<b>10/13/11</b>	<b>10/15/11 15:08</b>	<b>111013B16</b>
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	ND	100	1		ug/L

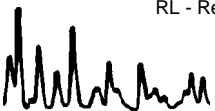
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>
Decachlorobiphenyl	103	68-140	

<b>GMW-45</b>	<b>11-10-0827-5-D</b>	<b>10/11/11 09:30</b>	<b>Aqueous</b>	<b>GC 27</b>	<b>10/13/11</b>	<b>10/15/11 15:26</b>	<b>111013B16</b>
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	1600	100	1	HD	ug/L

<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>
Decachlorobiphenyl	103	68-140	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers







Parsons, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: 10/12/11  
 Work Order No: 11-10-0827  
 Preparation: EPA 3510C  
 Method: EPA 8015B (M)

Project: NORWALK GWM

Page 2 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>GMW-47</b>	<b>11-10-0827-6-D</b>	<b>10/11/11 10:17</b>	<b>Aqueous</b>	<b>GC 27</b>	<b>10/13/11</b>	<b>10/15/11 15:44</b>	<b>111013B16</b>

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	3900	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	109	68-140			

<b>GMW-57</b>	<b>11-10-0827-7-D</b>	<b>10/11/11 10:57</b>	<b>Aqueous</b>	<b>GC 27</b>	<b>10/13/11</b>	<b>10/15/11 16:02</b>	<b>111013B16</b>
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	107	68-140			

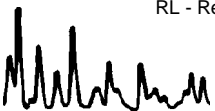
<b>GMW-58</b>	<b>11-10-0827-8-D</b>	<b>10/11/11 12:07</b>	<b>Aqueous</b>	<b>GC 27</b>	<b>10/13/11</b>	<b>10/15/11 16:21</b>	<b>111013B16</b>
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	350	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	107	68-140			

<b>GMW-59</b>	<b>11-10-0827-9-G</b>	<b>10/11/11 12:39</b>	<b>Aqueous</b>	<b>GC 27</b>	<b>10/13/11</b>	<b>10/15/11 16:39</b>	<b>111013B16</b>
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	2500	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	98	68-140			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Parsons, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: 10/12/11  
 Work Order No: 11-10-0827  
 Preparation: EPA 3510C  
 Method: EPA 8015B (M)

Project: NORWALK GWM

Page 3 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>GMW-59 DUP</b>	<b>11-10-0827-10-D</b>	<b>10/11/11 00:00</b>	<b>Aqueous</b>	<b>GC 27</b>	<b>10/13/11</b>	<b>10/15/11 16:57</b>	<b>111013B16</b>

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	2400	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	98	68-140			

<b>GMW-60</b>	<b>11-10-0827-11-G</b>	<b>10/11/11 13:59</b>	<b>Aqueous</b>	<b>GC 27</b>	<b>10/13/11</b>	<b>10/15/11 17:15</b>	<b>111013B16</b>
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	1500	100	1	HD	ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	95	68-140			

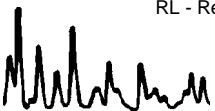
<b>GMW-61</b>	<b>11-10-0827-12-G</b>	<b>10/11/11 14:35</b>	<b>Aqueous</b>	<b>GC 27</b>	<b>10/13/11</b>	<b>10/15/11 17:52</b>	<b>111013B16</b>
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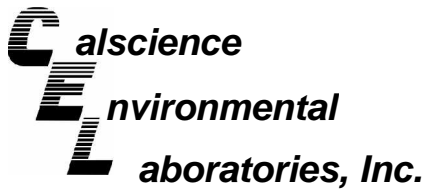
<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	96	68-140			

<b>GMW-61 DUP</b>	<b>11-10-0827-13-D</b>	<b>10/11/11 00:00</b>	<b>Aqueous</b>	<b>GC 27</b>	<b>10/13/11</b>	<b>10/15/11 18:10</b>	<b>111013B16</b>
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	107	68-140			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 10/12/11  
Work Order No: 11-10-0827  
Preparation: EPA 3510C  
Method: EPA 8015B (M)

Project: NORWALK GWM

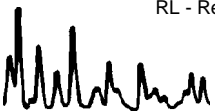
Page 4 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-366-87	N/A	Aqueous	GC 27	10/13/11	10/15/11 13:38	111013B16

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	104	68-140			

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Parsons, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: 10/12/11  
 Work Order No: 11-10-0827  
 Preparation: EPA 5030C  
 Method: EPA 8015B (M)

Project: NORWALK GWM

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>GMW-59</b>	<b>11-10-0827-9-E</b>	<b>10/11/11 12:39</b>	<b>Aqueous</b>	<b>GC 29</b>	<b>10/14/11</b>	<b>10/14/11 13:41</b>	<b>111014B01</b>

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as Gasoline	1800	100	1	HD	ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	156	38-134		2,7	

<b>GMW-60</b>	<b>11-10-0827-11-D</b>	<b>10/11/11 13:59</b>	<b>Aqueous</b>	<b>GC 29</b>	<b>10/13/11</b>	<b>10/13/11 14:32</b>	<b>111013B01</b>
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as Gasoline	2300	500	5	HD	ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	121	38-134			

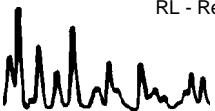
<b>GMW-61</b>	<b>11-10-0827-12-D</b>	<b>10/11/11 14:35</b>	<b>Aqueous</b>	<b>GC 29</b>	<b>10/13/11</b>	<b>10/13/11 13:22</b>	<b>111013B01</b>
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as Gasoline	140	100	1	HD	ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	96	38-134			

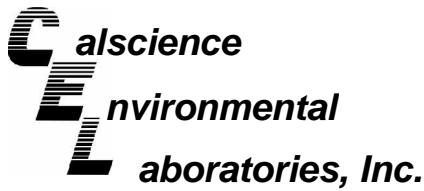
<b>Method Blank</b>	<b>099-12-247-5,454</b>	<b>N/A</b>	<b>Aqueous</b>	<b>GC 29</b>	<b>10/13/11</b>	<b>10/13/11 11:38</b>	<b>111013B01</b>
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as Gasoline	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	89	38-134			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Return to Contents



Analytical Report



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 10/12/11  
Work Order No: 11-10-0827  
Preparation: EPA 5030C  
Method: EPA 8015B (M)

Project: NORWALK GWM

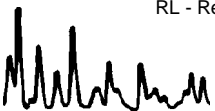
Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-247-5,457	N/A	Aqueous	GC 29	10/14/11	10/14/11 13:07	111014B01

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as Gasoline	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	94	38-134			

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Parsons, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: 10/12/11  
 Work Order No: 11-10-0827  
 Preparation: EPA 5030C  
 Method: EPA 8260B  
 Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB-02	11-10-0827-1-A	10/11/11 07:30	Aqueous	GC/MS V V	10/13/11	10/13/11 13:00	111013L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

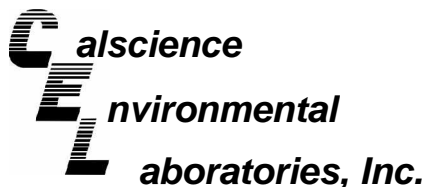
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	1.1	5.0	0.64	1	J
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	96	80-120		Dibromofluoromethane	100	80-126	
1,2-Dichloroethane-d4	101	80-134		Toluene-d8	99	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 10/12/11  
Work Order No: 11-10-0827  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: NORWALK GWM

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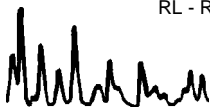
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-41	11-10-0827-2-A	10/11/11 07:49	Aqueous	GC/MS V V	10/13/11	10/13/11 13:28	111013L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

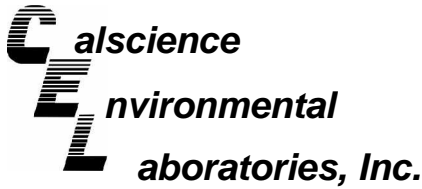
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	0.66	5.0	0.64	1	J
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	95	80-120		Dibromofluoromethane	100	80-126	
1,2-Dichloroethane-d4	101	80-134		Toluene-d8	100	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 10/12/11  
Work Order No: 11-10-0827  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: NORWALK GWM

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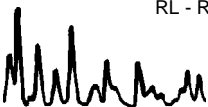
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-43	11-10-0827-3-A	10/11/11 08:24	Aqueous	GC/MS V V	10/13/11	10/13/11 15:19	111013L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	0.69	5.0	0.64	1	J
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

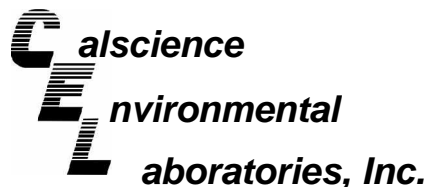
Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	96	80-120		Dibromofluoromethane	100	80-126	
1,2-Dichloroethane-d4	100	80-134		Toluene-d8	100	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 10/12/11  
Work Order No: 11-10-0827  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-44	11-10-0827-4-A	10/11/11 08:54	Aqueous	GC/MS V V	10/13/11	10/13/11 16:14	111013L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	0.85	5.0	0.64	1	J
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	97	80-120		Dibromofluoromethane	99	80-126	
1,2-Dichloroethane-d4	101	80-134		Toluene-d8	100	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Parsons, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: 10/12/11  
 Work Order No: 11-10-0827  
 Preparation: EPA 5030C  
 Method: EPA 8260B  
 Units: ug/L

Project: NORWALK GWM

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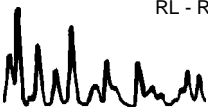
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>GMW-45</b>	<b>11-10-0827-5-A</b>	<b>10/11/11 09:30</b>	<b>Aqueous</b>	<b>GC/MS V V</b>	<b>10/13/11</b>	<b>10/13/11 16:42</b>	<b>111013L01</b>

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	43	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	1.8	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	87	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	0.68	5.0	0.64	1	J
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	1.8	1.0	0.23	1		Naphthalene	160	10	2.5	1	
sec-Butylbenzene	13	1.0	0.25	1		n-Propylbenzene	89	1.0	0.17	1	
tert-Butylbenzene	1.5	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	0.33	0.50	0.24	1	B,J
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	0.47	1.0	0.28	1	J	p/m-Xylene	0.29	0.50	0.24	1	J
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	41	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	106	80-120		Dibromofluoromethane	99	80-126	
1,2-Dichloroethane-d4	100	80-134		Toluene-d8	102	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Parsons, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: 10/12/11  
 Work Order No: 11-10-0827  
 Preparation: EPA 5030C  
 Method: EPA 8260B  
 Units: ug/L

Project: NORWALK GWM

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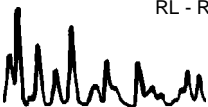
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-47	11-10-0827-6-A	10/11/11 10:17	Aqueous	GC/MS V V	10/13/11	10/13/11 17:10	111013L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

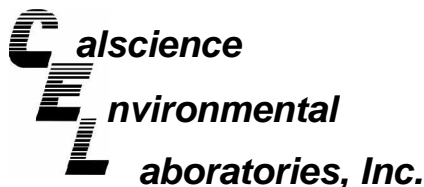
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	0.55	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	0.99	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	30	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	0.38	1.0	0.23	1	J	Naphthalene	2.8	10	2.5	1	J
sec-Butylbenzene	4.4	1.0	0.25	1		n-Propylbenzene	1.4	1.0	0.17	1	
tert-Butylbenzene	1.1	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	0.63	1.0	0.28	1	J	p/m-Xylene	0.32	0.50	0.24	1	J
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	6.1	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	46	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	102	80-120		Dibromofluoromethane	101	80-126	
1,2-Dichloroethane-d4	100	80-134		Toluene-d8	100	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 10/12/11  
Work Order No: 11-10-0827  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-57	11-10-0827-7-A	10/11/11 10:57	Aqueous	GC/MS V V	10/13/11	10/13/11 17:38	111013L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

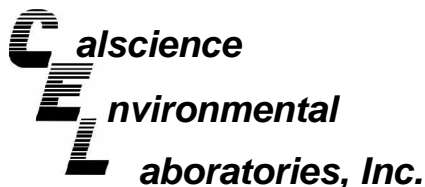
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	1.6	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	3.0	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	0.36	1.0	0.17	1	J
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	0.32	1.0	0.28	1	J
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	0.36	1.0	0.28	1	J	p/m-Xylene	0.48	0.50	0.24	1	J
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	96	80-120		Dibromofluoromethane	98	80-126	
1,2-Dichloroethane-d4	100	80-134		Toluene-d8	99	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 10/12/11  
Work Order No: 11-10-0827  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: NORWALK GWM

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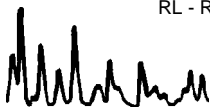
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-58	11-10-0827-8-A	10/11/11 12:07	Aqueous	GC/MS V V	10/13/11	10/13/11 18:05	111013L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	27	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	2.4	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	0.26	1.0	0.25	1	J	n-Propylbenzene	0.69	1.0	0.17	1	J
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	0.50	1.0	0.28	1	J	p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	0.65	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	97	80-120		Dibromofluoromethane	98	80-126	
1,2-Dichloroethane-d4	100	80-134		Toluene-d8	100	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Parsons, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: 10/12/11  
 Work Order No: 11-10-0827  
 Preparation: EPA 5030C  
 Method: EPA 8260B  
 Units: ug/L

Project: NORWALK GWM

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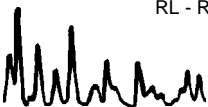
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-59	11-10-0827-9-A	10/11/11 12:39	Aqueous	GC/MS V V	10/13/11	10/13/11 18:33	111013L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	130	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	0.78	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	27	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	1.1	1.0	0.23	1		Naphthalene	21	10	2.5	1	
sec-Butylbenzene	3.3	1.0	0.25	1		n-Propylbenzene	21	1.0	0.17	1	
tert-Butylbenzene	0.78	1.0	0.28	1	J	Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	0.24	0.50	0.24	1	B,J
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	2.1	0.50	0.31	1	
c-1,2-Dichloroethene	0.77	1.0	0.48	1	J	Tert-Butyl Alcohol (TBA)	13	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	101	80-120		Dibromofluoromethane	98	80-126	
1,2-Dichloroethane-d4	100	80-134		Toluene-d8	99	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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**Analytical Report**



Parsons, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: 10/12/11  
 Work Order No: 11-10-0827  
 Preparation: EPA 5030C  
 Method: EPA 8260B  
 Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-59 DUP	11-10-0827-10-A	10/11/11 00:00	Aqueous	GC/MS V V	10/13/11	10/13/11 19:01	111013L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	120	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	0.80	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	27	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	1.3	1.0	0.23	1		Naphthalene	22	10	2.5	1	
sec-Butylbenzene	3.4	1.0	0.25	1		n-Propylbenzene	21	1.0	0.17	1	
tert-Butylbenzene	0.78	1.0	0.28	1	J	Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	0.24	0.50	0.24	1	B,J
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	2.1	0.50	0.31	1	
c-1,2-Dichloroethene	0.75	1.0	0.48	1	J	Tert-Butyl Alcohol (TBA)	25	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	101	80-120		Dibromofluoromethane	98	80-126	
1,2-Dichloroethane-d4	101	80-134		Toluene-d8	100	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Parsons, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: 10/12/11  
 Work Order No: 11-10-0827  
 Preparation: EPA 5030C  
 Method: EPA 8260B  
 Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-60	11-10-0827-11-C	10/11/11 13:59	Aqueous	GC/MS WW	10/18/11	10/18/11 18:11	111018L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	510	2.5	0.71	5		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	9.1	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	89	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	3.3	1.0	0.23	1		Naphthalene	110	10	2.5	1	
sec-Butylbenzene	9.4	1.0	0.25	1		n-Propylbenzene	90	1.0	0.17	1	
tert-Butylbenzene	1.3	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	0.53	10	0.41	1	J	1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	0.38	0.50	0.24	1	J
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	111	80-120		Dibromofluoromethane	105	80-126	
1,2-Dichloroethane-d4	102	80-134		Toluene-d8	100	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Parsons, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: 10/12/11  
 Work Order No: 11-10-0827  
 Preparation: EPA 5030C  
 Method: EPA 8260B  
 Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-61	11-10-0827-12-A	10/11/11 14:35	Aqueous	GC/MS V V	10/13/11	10/13/11 19:56	111013L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	1.3	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	0.70	1.0	0.25	1	J	n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	0.29	1.0	0.28	1	J	Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	0.70	0.50	0.24	1	B
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	96	80-120		Dibromofluoromethane	98	80-126	
1,2-Dichloroethane-d4	100	80-134		Toluene-d8	100	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Parsons, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: 10/12/11  
 Work Order No: 11-10-0827  
 Preparation: EPA 5030C  
 Method: EPA 8260B  
 Units: ug/L

Project: NORWALK GWM

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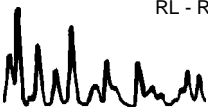
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-61 DUP	11-10-0827-13-A	10/11/11 00:00	Aqueous	GC/MS V V	10/13/11	10/13/11 20:24	111013L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

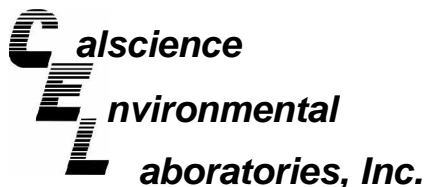
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	1.2	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	0.69	1.0	0.25	1	J	n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	0.75	0.50	0.24	1	B
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	96	80-120		Dibromofluoromethane	96	80-126	
1,2-Dichloroethane-d4	100	80-134		Toluene-d8	100	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 10/12/11  
Work Order No: 11-10-0827  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-14-001-5,951	N/A	Aqueous	GC/MS V V	10/13/11	10/13/11 12:32	111013L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	1.0	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	10	3.9	1		Methylene Chloride	ND	10	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	0.25	1.0	0.24	1	J
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	10	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	1.0	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	1.0	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	97	80-120		Dibromofluoromethane	101	80-126	
1,2-Dichloroethane-d4	102	80-134		Toluene-d8	101	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Return to Contents



Parsons, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: 10/12/11  
 Work Order No: 11-10-0827  
 Preparation: EPA 5030C  
 Method: EPA 8260B  
 Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-14-001-5,963	N/A	Aqueous	GC/MS V V	10/14/11	10/14/11 12:44	111014L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	1.0	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	10	3.9	1		Methylene Chloride	ND	10	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	1.0	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	10	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	1.0	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	1.0	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	95	80-120		Dibromofluoromethane	101	80-126	
1,2-Dichloroethane-d4	101	80-134		Toluene-d8	101	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Parsons, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: 10/12/11  
 Work Order No: 11-10-0827  
 Preparation: EPA 5030C  
 Method: EPA 8260B  
 Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-14-001-5,988	N/A	Aqueous	GC/MS WW	10/18/11	10/18/11 14:03	111018L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

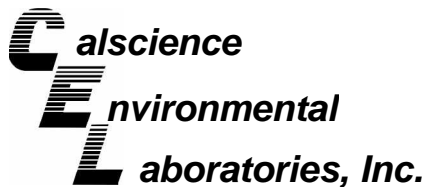
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	1.0	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	10	3.9	1		Methylene Chloride	ND	10	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	1.0	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	10	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	1.0	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	1.0	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	103	80-120		Dibromofluoromethane	102	80-126	
1,2-Dichloroethane-d4	111	80-134		Toluene-d8	103	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Quality Control - Spike/Spike Duplicate



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 10/12/11  
Work Order No: 11-10-0827  
Preparation: EPA 5030C  
Method: EPA 8015B (M)

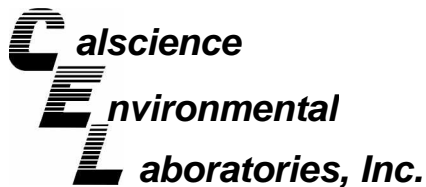
Project NORWALK GWM

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
11-10-0841-1	Aqueous	GC 29	10/13/11	10/13/11	111013S01

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	2000	111	112	68-122	2	0-18	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



Parsons, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: 10/12/11  
 Work Order No: 11-10-0827  
 Preparation: EPA 5030C  
 Method: EPA 8015B (M)

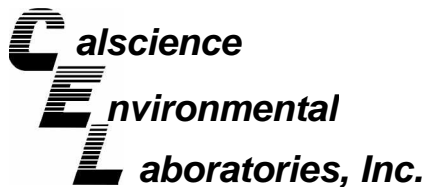
Project NORWALK GWM

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
11-10-0997-5	Aqueous	GC 29	10/14/11	10/14/11	111014S01

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	2000	123	116	68-122	6	0-18	3

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 10/12/11  
Work Order No: 11-10-0827  
Preparation: EPA 5030C  
Method: EPA 8260B

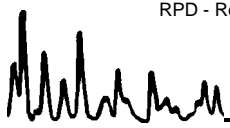
Project NORWALK GWM

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
GMW-41	Aqueous	GC/MS V V	10/13/11	10/13/11	111013S01

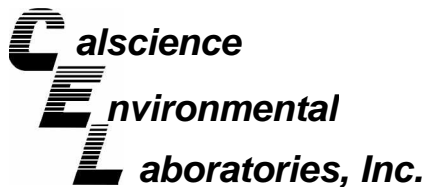
Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	50.00	95	98	78-120	3	0-20	
Carbon Tetrachloride	50.00	91	93	67-139	3	0-20	
Chlorobenzene	50.00	101	102	80-120	1	0-20	
1,2-Dibromoethane	50.00	100	102	80-123	2	0-20	
1,2-Dichlorobenzene	50.00	100	103	76-120	3	0-20	
1,2-Dichloroethane	50.00	100	102	76-130	2	0-20	
1,1-Dichloroethene	50.00	113	114	70-130	1	0-27	
Ethylbenzene	50.00	101	102	73-127	1	0-20	
Toluene	50.00	99	102	72-126	3	0-20	
Trichloroethene	50.00	98	99	74-122	2	0-20	
Vinyl Chloride	50.00	127	125	65-131	1	0-24	
Methyl-t-Butyl Ether (MTBE)	50.00	108	112	69-123	3	0-20	
Tert-Butyl Alcohol (TBA)	250.0	95	96	65-131	1	0-22	
Diisopropyl Ether (DIPE)	50.00	106	109	68-128	4	0-22	
Ethyl-t-Butyl Ether (ETBE)	50.00	99	116	69-123	16	0-21	
Tert-Amyl-Methyl Ether (TAME)	50.00	87	90	70-124	3	0-20	
Ethanol	500.0	100	101	41-155	1	0-35	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit







Quality Control - Spike/Spike Duplicate



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 10/12/11  
Work Order No: 11-10-0827  
Preparation: EPA 5030C  
Method: EPA 8260B

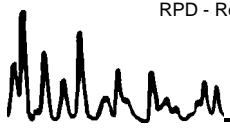
Project NORWALK GWM

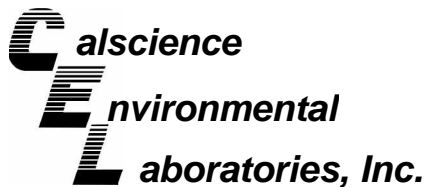
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
11-10-0996-1	Aqueous	GC/MS V V	10/14/11	10/14/11	111014S01

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	50.00	100	99	78-120	1	0-20	
Carbon Tetrachloride	50.00	74	80	67-139	7	0-20	
Chlorobenzene	50.00	104	103	80-120	1	0-20	
1,2-Dibromoethane	50.00	99	100	80-123	1	0-20	
1,2-Dichlorobenzene	50.00	102	102	76-120	0	0-20	
1,2-Dichloroethane	50.00	103	101	76-130	2	0-20	
1,1-Dichloroethene	50.00	121	118	70-130	2	0-27	
Ethylbenzene	50.00	105	104	73-127	1	0-20	
Toluene	50.00	105	102	72-126	2	0-20	
Trichloroethene	50.00	102	99	74-122	3	0-20	
Vinyl Chloride	50.00	132	128	65-131	3	0-24	3
Methyl-t-Butyl Ether (MTBE)	50.00	113	111	69-123	3	0-20	
Tert-Butyl Alcohol (TBA)	250.0	92	94	65-131	2	0-22	
Diisopropyl Ether (DIPE)	50.00	111	108	68-128	3	0-22	
Ethyl-t-Butyl Ether (ETBE)	50.00	122	88	69-123	32	0-21	4
Tert-Amyl-Methyl Ether (TAME)	50.00	87	87	70-124	0	0-20	
Ethanol	500.0	95	102	41-155	7	0-35	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





**Quality Control - Spike/Spike Duplicate**



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 10/12/11  
Work Order No: 11-10-0827  
Preparation: EPA 5030C  
Method: EPA 8260B

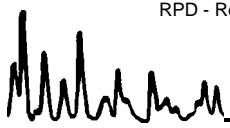
Project NORWALK GWM

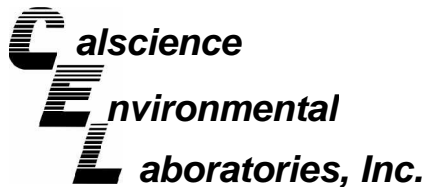
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
11-10-0703-4	Aqueous	GC/MS WW	10/18/11	10/18/11	111018S01

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	50.00	97	96	78-120	1	0-20	
Carbon Tetrachloride	50.00	112	109	67-139	2	0-20	
Chlorobenzene	50.00	109	108	80-120	1	0-20	
1,2-Dibromoethane	50.00	106	106	80-123	0	0-20	
1,2-Dichlorobenzene	50.00	92	93	76-120	1	0-20	
1,2-Dichloroethane	50.00	115	112	76-130	2	0-20	
1,1-Dichloroethene	50.00	96	96	70-130	1	0-27	
Ethylbenzene	50.00	109	108	73-127	1	0-20	
Toluene	50.00	98	97	72-126	2	0-20	
Trichloroethene	50.00	102	101	74-122	1	0-20	
Vinyl Chloride	50.00	90	96	65-131	6	0-24	
Methyl-t-Butyl Ether (MTBE)	50.00	76	79	69-123	4	0-20	
Tert-Butyl Alcohol (TBA)	250.0	98	102	65-131	4	0-22	
Diisopropyl Ether (DIPE)	50.00	71	72	68-128	2	0-22	
Ethyl-t-Butyl Ether (ETBE)	50.00	68	70	69-123	3	0-21	3
Tert-Amyl-Methyl Ether (TAME)	50.00	83	84	70-124	1	0-20	
Ethanol	500.0	120	122	41-155	1	0-35	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: N/A  
Work Order No: 11-10-0827  
Preparation: EPA 3510C  
Method: EPA 8015B (M)

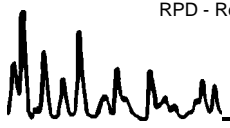
Project: NORWALK GWM

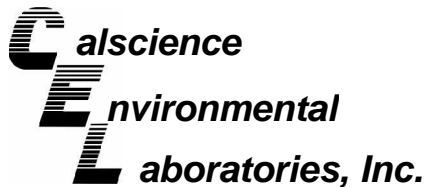
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-366-87	Aqueous	GC 27	10/13/11	10/15/11	111013B16

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as JP5	4000	94	97	75-117	2	0-13	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



Parsons, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: N/A  
 Work Order No: 11-10-0827  
 Preparation: EPA 5030C  
 Method: EPA 8015B (M)

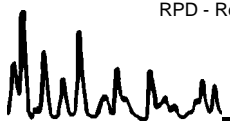
Project: NORWALK GWM

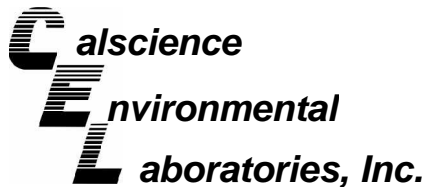
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-247-5,454	Aqueous	GC 29	10/13/11	10/13/11	111013B01

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	2000	115	120	78-120	4	0-10	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



Parsons, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: N/A  
 Work Order No: 11-10-0827  
 Preparation: EPA 5030C  
 Method: EPA 8015B (M)

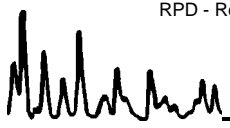
Project: NORWALK GWM

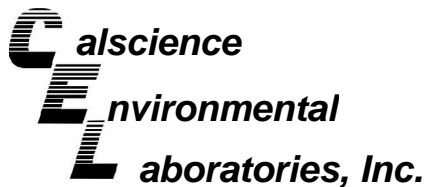
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-247-5,457	Aqueous	GC 29	10/14/11	10/14/11	111014B01

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	2000	118	118	78-120	0	0-10	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: N/A  
Work Order No: 11-10-0827  
Preparation: EPA 5030C  
Method: EPA 8260B

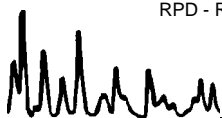
Project: NORWALK GWM

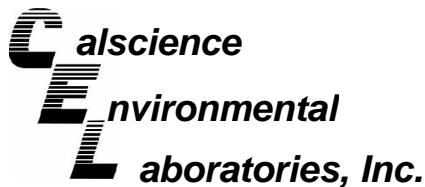
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number			
099-14-001-5,951	Aqueous	GC/MS V V	10/13/11	10/13/11	111013L01			
Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	99	100	80-120	73-127	0	0-20	
Carbon Tetrachloride	50.00	100	98	66-138	54-150	2	0-20	
Chlorobenzene	50.00	105	104	80-120	73-127	1	0-20	
1,2-Dibromoethane	50.00	105	103	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	50.00	104	104	80-120	73-127	1	0-20	
1,2-Dichloroethane	50.00	103	102	80-129	72-137	1	0-20	
1,1-Dichloroethene	50.00	116	115	71-131	61-141	1	0-20	
Ethylbenzene	50.00	104	103	80-123	73-130	1	0-20	
Toluene	50.00	103	103	79-121	72-128	0	0-20	
Trichloroethene	50.00	102	102	80-120	73-127	0	0-20	
Vinyl Chloride	50.00	121	120	70-136	59-147	1	0-20	
Methyl-t-Butyl Ether (MTBE)	50.00	110	109	72-126	63-135	1	0-22	
Tert-Butyl Alcohol (TBA)	250.0	94	95	71-125	62-134	1	0-25	
Diisopropyl Ether (DIPE)	50.00	107	105	69-129	59-139	2	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	120	117	69-129	59-139	3	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	94	93	67-133	56-144	1	0-20	
Ethanol	500.0	95	105	47-155	29-173	10	0-36	

Total number of LCS compounds : 17  
 Total number of ME compounds : 0  
 Total number of ME compounds allowed : 1  
 LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: N/A  
Work Order No: 11-10-0827  
Preparation: EPA 5030C  
Method: EPA 8260B

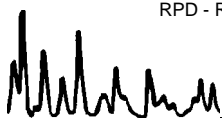
Project: NORWALK GWM

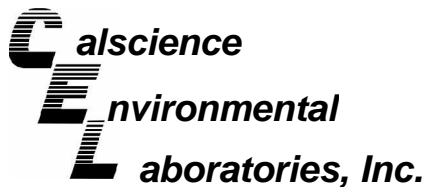
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number			
099-14-001-5,963	Aqueous	GC/MS V V	10/14/11	10/14/11	111014L01			
Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	100	102	80-120	73-127	2	0-20	
Carbon Tetrachloride	50.00	89	90	66-138	54-150	1	0-20	
Chlorobenzene	50.00	106	105	80-120	73-127	0	0-20	
1,2-Dibromoethane	50.00	101	102	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	50.00	105	105	80-120	73-127	0	0-20	
1,2-Dichloroethane	50.00	102	104	80-129	72-137	2	0-20	
1,1-Dichloroethene	50.00	122	128	71-131	61-141	5	0-20	
Ethylbenzene	50.00	106	107	80-123	73-130	1	0-20	
Toluene	50.00	104	106	79-121	72-128	2	0-20	
Trichloroethene	50.00	104	106	80-120	73-127	1	0-20	
Vinyl Chloride	50.00	128	132	70-136	59-147	3	0-20	
Methyl-t-Butyl Ether (MTBE)	50.00	108	114	72-126	63-135	5	0-22	
Tert-Butyl Alcohol (TBA)	250.0	92	96	71-125	62-134	5	0-25	
Diisopropyl Ether (DIPE)	50.00	105	109	69-129	59-139	4	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	113	118	69-129	59-139	5	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	89	90	67-133	56-144	0	0-20	
Ethanol	500.0	96	101	47-155	29-173	5	0-36	

Total number of LCS compounds : 17  
 Total number of ME compounds : 0  
 Total number of ME compounds allowed : 1  
 LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: N/A  
Work Order No: 11-10-0827  
Preparation: EPA 5030C  
Method: EPA 8260B

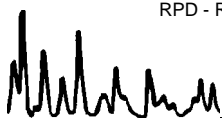
Project: NORWALK GWM

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number			
099-14-001-5,988	Aqueous	GC/MS WW	10/18/11	10/18/11	111018L01			
Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	97	97	80-120	73-127	0	0-20	
Carbon Tetrachloride	50.00	112	110	66-138	54-150	2	0-20	
Chlorobenzene	50.00	108	109	80-120	73-127	1	0-20	
1,2-Dibromoethane	50.00	107	111	80-120	73-127	3	0-20	
1,2-Dichlorobenzene	50.00	92	95	80-120	73-127	3	0-20	
1,2-Dichloroethane	50.00	115	117	80-129	72-137	1	0-20	
1,1-Dichloroethene	50.00	100	96	71-131	61-141	4	0-20	
Ethylbenzene	50.00	108	109	80-123	73-130	1	0-20	
Toluene	50.00	98	98	79-121	72-128	0	0-20	
Trichloroethene	50.00	105	104	80-120	73-127	1	0-20	
Vinyl Chloride	50.00	99	97	70-136	59-147	2	0-20	
Methyl-t-Butyl Ether (MTBE)	50.00	80	82	72-126	63-135	3	0-22	
Tert-Butyl Alcohol (TBA)	250.0	96	98	71-125	62-134	2	0-25	
Diisopropyl Ether (DIPE)	50.00	73	73	69-129	59-139	0	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	71	72	69-129	59-139	1	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	87	89	67-133	56-144	2	0-20	
Ethanol	500.0	108	108	47-155	29-173	0	0-36	

Total number of LCS compounds : 17  
 Total number of ME compounds : 0  
 Total number of ME compounds allowed : 1  
 LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit



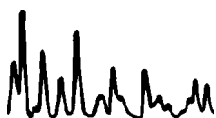


Work Order Number: 11-10-0827
 

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<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS/LCSD Recovery Percentage is within Marginal Exceedance (ME) Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.



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1680 ROGERS AVENUE  
 SAN JOSE, CALIFORNIA 95112-1105  
 FAX (408) 573-7771  
 PHONE (408) 573-0555

**BLAINE**  
 TECH SERVICES, INC.

LAB: Calcscience PM: Ranjit Clark  
 ALL ANALYSES MUST MEET

- EPA
- LIA
- OTHER
- RWQCB REGION

CHAIN OF CUSTODY

CLIENT: Parsons  
 SITE: Norwalk GWM

SPECIAL INSTRUCTIONS  
**11-10-0827**  
 Invoice and Report to:  
 Parsons - Mary Lucas (mary.lucas@parsons.com)  
 100 W Walnut St., Pasadena, CA 91124 (626) 440-6032  
 Project # 746442

SAMPLE I.D.	DATE	TIME	CONTAINERS	
			MATRIX	TOTAL
TR502	10/11/11	0730	W	2
GMLW-41		0749	W	4
GMLW-43		0824	W	4
GMLW-44		0854	W	4
GMLW-45		0930	W	4
GMLW-47		1017	W	4
GMLW-54		1054	W	4
GMLW-56		1207	W	4
GMLW-59		1239	W	7
GMLW-90dup	10/11/11	1500	W	4

CONDUCT ANALYSIS TO DETECT			VOC's (including BTEX, MTBE, TBA, EPA 8260)	TPH as JP5 (8015)	TPHg (8015)	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
X			X	X					1
X			X	X					2
X			X	X					3
X			X	X					4
X			X	X					5
X			X	X					6
X			X	X					7
X			X	X					8
X			X	X					9
X			X	X					10

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	RESULTS NEEDED NO LATER THAN	Standard
RELEASED BY	10/11/11	1530	RECEIVED BY	DATE	TIME
RELEASED BY	10/11/11	1530	RECEIVED BY	10/11/11	1530
RELEASED BY	10/12/11	1137	RECEIVED BY	10/12/11	10:00
SHIPPED VIA	10/12/11	1137	RECEIVED BY	10/12/11	1100

of 39



# BLAINE

1680 ROGERS AVENUE  
 SAN JOSE, CALIFORNIA 95112-1105  
 FAX (408) 573-7771  
 PHONE (408) 573-0555

TECH SERVICES, INC.

CHAIN OF CUSTODY

CLIENT: Parsons

SITE: Norwalk GWM

SAMPLE I.D.	DATE	TIME	MATRIX		TOTAL	CONTAINERS
			Soil	H <sub>2</sub> O		
G1M5-600	10/11/11	1359	W	W	7	VOO/ AMBER
G1M5-101	↓	1435	W	W	7	↓
G1M5-101d1p	↓	—	W	W	4	↓

2012

LAB: Calscience PM: Ranjit Clark

ALL ANALYSES MUST MEET

EPA  RWQCB REGION

LIA

OTHER

0827

SPECIAL INSTRUCTIONS

Invoice and Report to:

Parsons - Mary Lucas (mary.lucas@parsons.com)

100 W Walnut St., Pasadena, CA 91124 (626) 440-6032

Project # 746442

CONDUCT ANALYSIS TO DETECT		STATUS	CONDITION	LAB SAMPLE #
VOC's (including BTEX, MTBE, TBA, EPA 8260)	TPH as JPS (8015)			
X	X			11
X	X			12
X	X			13

RESULTS NEEDED: Standard

NO LATER THAN

RECEIVED BY: Nicole (Sample Custodian) 10/11/11 1530

RECEIVED BY: [Signature] 10/12/11 1000

RECEIVED BY: [Signature] 10/12/11 1100

SHIPPED VIA: [Signature]

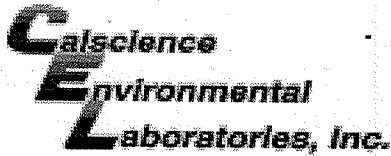
DATE SENT: 10/11/11

TIME SENT: 1530

DATE SENT: 10/12/11

TIME SENT: 1137

COOLER #



WORK ORDER #: 11-10-0827

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: PARSONS

DATE: 10/12/11

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 1.3 °C + 0.5 °C (CF) = 1.8 °C [X] Blank [ ] Sample

[ ] Sample(s) outside temperature criteria (PM/APM contacted by: \_\_\_\_\_).

[ ] Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

[ ] Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: [ ] Air [ ] Filter

Initial: [Signature]

CUSTODY SEALS INTACT:

[ ] Cooler [ ] \_\_\_\_\_ [ ] No (Not Intact) [X] Not Present [ ] N/A

Initial: [Signature]

[ ] Sample [ ] \_\_\_\_\_ [ ] No (Not Intact) [X] Not Present

Initial: TC

SAMPLE CONDITION:

Table with 4 columns: Item, Yes, No, N/A. Rows include Chain-Of-Custody (COC) document(s) received with samples, COC document(s) received complete, Sampler's name indicated on COC, Sample container label(s) consistent with COC, etc.

CONTAINER TYPE:

Solid: [ ] 4ozCGJ [ ] 8ozCGJ [ ] 16ozCGJ [ ] Sleeve (\_\_\_\_) [ ] EnCores® [ ] TerraCores® [ ] \_\_\_\_\_
Water: [ ] VOA [X] VOAh [ ] VOAna2 [ ] 125AGB [ ] 125AGBh [ ] 125AGBp [ ] 1AGB [ ] 1AGBna2 [ ] 1AGBs
[ ] 500AGB [X] 500AGJ [ ] 500AGJs [ ] 250AGB [ ] 250CGB [ ] 250CGBs [ ] 1PB [ ] 1PBna [ ] 500PB
[ ] 250PB [ ] 250PBn [ ] 125PB [ ] 125PBzanna [ ] 100PJ [ ] 100PJna2 [ ] \_\_\_\_\_ [ ] \_\_\_\_\_ [ ] \_\_\_\_\_

Air: [ ] Tedlar® [ ] Summa® Other: [ ] \_\_\_\_\_ Trip Blank Lot#: \_\_\_\_\_ Labeled/Checked by: TC

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: [Signature]

Preservative: h: HCL n: HNO3 na2:Na2S2O3 na: NaOH p: H3PO4 s: H2SO4 u: Ultra-pure zna: ZnAc2+NaOH f: Filtered Scanned by: [Signature]

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Environmental & Marine Chemistry Laboratories



# CALSCIENCE

## WORK ORDER NUMBER: 11-10-0888

*The difference is service*



AIR | SOIL | WATER | MARINE CHEMISTRY

### Analytical Report For

**Client:** Parsons, Inc.

**Client Project Name:** DFSP NORWALK GWM / 746442

**Attention:** Mary Lucas  
100 West Walnut Street  
Pasadena, CA 91124-0002

Approved for release on 10/18/2011 by:  
Ranjit Clarke  
Project Manager

ResultLink ▶

Email your PM ▶



Calscience Environmental Laboratories certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety. Note that the Chain-of-Custody Record and Sample Receipt Form are integral parts of this report.





Environmental &amp; Marine Chemistry Laboratories

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Client Project Name: DFSP NORWALK GWM / 746442

Work Order Number: 11-10-0888

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Parsons, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: 10/12/11  
 Work Order No: 11-10-0888  
 Preparation: EPA 3510C  
 Method: EPA 8015B (M)

Project: DFSP NORWALK GWM / 746442

Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>GMW-65</b>	<b>11-10-0888-2-D</b>	<b>10/12/11 08:05</b>	<b>Aqueous</b>	<b>GC 27</b>	<b>10/15/11</b>	<b>10/15/11 19:22</b>	<b>111015B13</b>

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	99	68-140			

<b>GMW-64</b>	<b>11-10-0888-3-D</b>	<b>10/12/11 08:39</b>	<b>Aqueous</b>	<b>GC 27</b>	<b>10/15/11</b>	<b>10/15/11 19:40</b>	<b>111015B13</b>
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	117	68-140			

<b>GMW-63</b>	<b>11-10-0888-4-D</b>	<b>10/12/11 09:06</b>	<b>Aqueous</b>	<b>GC 27</b>	<b>10/15/11</b>	<b>10/15/11 19:59</b>	<b>111015B13</b>
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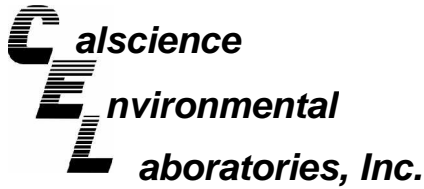
<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	107	68-140			

<b>GMW-66</b>	<b>11-10-0888-5-D</b>	<b>10/12/11 09:58</b>	<b>Aqueous</b>	<b>GC 27</b>	<b>10/15/11</b>	<b>10/15/11 20:17</b>	<b>111015B13</b>
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	106	68-140			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Analytical Report



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 10/12/11  
Work Order No: 11-10-0888  
Preparation: EPA 3510C  
Method: EPA 8015B (M)

Project: DFSP NORWALK GWM / 746442

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
<b>GW-6</b>	<b>11-10-0888-6-D</b>	<b>10/12/11 10:56</b>	<b>Aqueous</b>	<b>GC 27</b>	<b>10/15/11</b>	<b>10/15/11 20:35</b>	<b>111015B13</b>

Parameter	Result	RL	DF	Qual	Units
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	106	68-140			

<b>MW-13</b>	<b>11-10-0888-7-D</b>	<b>10/12/11 12:03</b>	<b>Aqueous</b>	<b>GC 27</b>	<b>10/15/11</b>	<b>10/15/11 20:53</b>	<b>111015B13</b>
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Parameter	Result	RL	DF	Qual	Units
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	113	68-140			

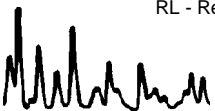
<b>MW-14</b>	<b>11-10-0888-8-D</b>	<b>10/12/11 12:39</b>	<b>Aqueous</b>	<b>GC 27</b>	<b>10/15/11</b>	<b>10/15/11 21:12</b>	<b>111015B13</b>
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Parameter	Result	RL	DF	Qual	Units
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	94	68-140			

<b>MW-16</b>	<b>11-10-0888-9-D</b>	<b>10/12/11 13:31</b>	<b>Aqueous</b>	<b>GC 27</b>	<b>10/15/11</b>	<b>10/15/11 21:30</b>	<b>111015B13</b>
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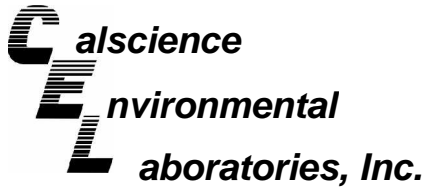
Parameter	Result	RL	DF	Qual	Units
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	104	68-140			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 10/12/11  
Work Order No: 11-10-0888  
Preparation: EPA 3510C  
Method: EPA 8015B (M)

Project: DFSP NORWALK GWM / 746442

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-32	11-10-0888-10-D	10/12/11 14:31	Aqueous	GC 27	10/15/11	10/15/11 22:06	111015B13

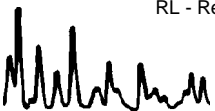
Parameter	Result	RL	DF	Qual	Units
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	102	68-140			

Method Blank	099-12-366-88	N/A	Aqueous	GC 27	10/15/11	10/15/11 18:28	111015B13
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Parameter	Result	RL	DF	Qual	Units
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	105	68-140			

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Parsons, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: 10/12/11  
 Work Order No: 11-10-0888  
 Preparation: EPA 5030C  
 Method: EPA 8260B  
 Units: ug/L

Project: DFSP NORWALK GWM / 746442

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB-03	11-10-0888-1-A	10/12/11 08:00	Aqueous	GC/MS V V	10/13/11	10/14/11 01:00	111013L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	0.94	5.0	0.64	1	J
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	96	80-120		Dibromofluoromethane	98	80-126	
1,2-Dichloroethane-d4	99	80-134		Toluene-d8	100	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Return to Contents



Parsons, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: 10/12/11  
 Work Order No: 11-10-0888  
 Preparation: EPA 5030C  
 Method: EPA 8260B  
 Units: ug/L

Project: DFSP NORWALK GWM / 746442

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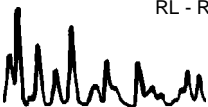
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-65	11-10-0888-2-A	10/12/11 08:05	Aqueous	GC/MS V V	10/13/11	10/14/11 01:28	111013L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	94	80-120		Dibromofluoromethane	100	80-126	
1,2-Dichloroethane-d4	100	80-134		Toluene-d8	100	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Parsons, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: 10/12/11  
 Work Order No: 11-10-0888  
 Preparation: EPA 5030C  
 Method: EPA 8260B  
 Units: ug/L

Project: DFSP NORWALK GWM / 746442

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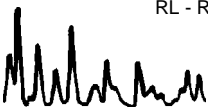
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-64	11-10-0888-3-A	10/12/11 08:39	Aqueous	GC/MS V V	10/13/11	10/14/11 03:18	111013L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	95	80-120		Dibromofluoromethane	99	80-126	
1,2-Dichloroethane-d4	101	80-134		Toluene-d8	101	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Parsons, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: 10/12/11  
 Work Order No: 11-10-0888  
 Preparation: EPA 5030C  
 Method: EPA 8260B  
 Units: ug/L

Project: DFSP NORWALK GWM / 746442

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-63	11-10-0888-4-A	10/12/11 09:06	Aqueous	GC/MS V V	10/13/11	10/14/11 03:46	111013L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

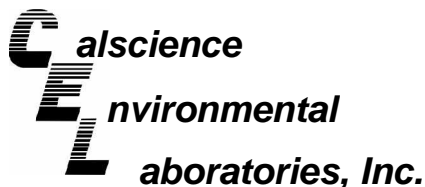
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	0.68	5.0	0.64	1	J
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	95	80-120		Dibromofluoromethane	100	80-126	
1,2-Dichloroethane-d4	100	80-134		Toluene-d8	100	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 10/12/11  
Work Order No: 11-10-0888  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: DFSP NORWALK GWM / 746442

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-66	11-10-0888-5-A	10/12/11 09:58	Aqueous	GC/MS V V	10/13/11	10/14/11 04:13	111013L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

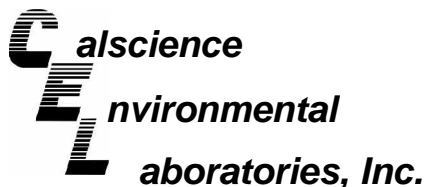
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	95	80-120		Dibromofluoromethane	99	80-126	
1,2-Dichloroethane-d4	100	80-134		Toluene-d8	102	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 10/12/11  
Work Order No: 11-10-0888  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: DFSP NORWALK GWM / 746442

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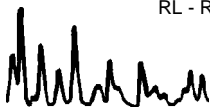
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GW-6	11-10-0888-6-A	10/12/11 10:56	Aqueous	GC/MS V V	10/13/11	10/14/11 04:41	111013L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

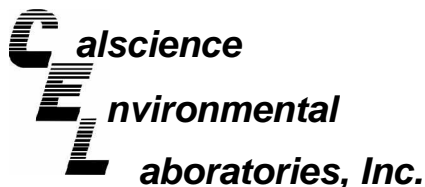
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	0.51	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	96	80-120		Dibromofluoromethane	99	80-126	
1,2-Dichloroethane-d4	100	80-134		Toluene-d8	100	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 10/12/11  
Work Order No: 11-10-0888  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: DFSP NORWALK GWM / 746442

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-13	11-10-0888-7-A	10/12/11 12:03	Aqueous	GC/MS V V	10/13/11	10/14/11 05:09	111013L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

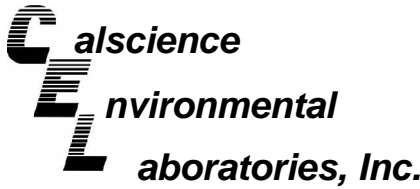
Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	94	80-120		Dibromofluoromethane	98	80-126	
1,2-Dichloroethane-d4	100	80-134		Toluene-d8	100	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 10/12/11  
Work Order No: 11-10-0888  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: DFSP NORWALK GWM / 746442

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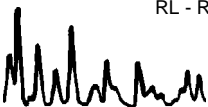
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-14	11-10-0888-8-A	10/12/11 12:39	Aqueous	GC/MS V V	10/13/11	10/13/11 20:52	111013L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

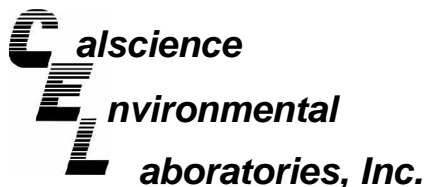
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	2.1	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	2.7	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	0.83	2.0	0.33	1	J
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	96	80-120		Dibromofluoromethane	95	80-126	
1,2-Dichloroethane-d4	99	80-134		Toluene-d8	101	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 10/12/11  
Work Order No: 11-10-0888  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: DFSP NORWALK GWM / 746442

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-16	11-10-0888-9-A	10/12/11 13:31	Aqueous	GC/MS V V	10/13/11	10/13/11 21:19	111013L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

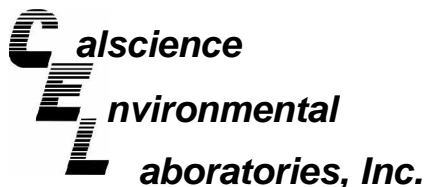
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	94	80-120		Dibromofluoromethane	96	80-126	
1,2-Dichloroethane-d4	100	80-134		Toluene-d8	100	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 10/12/11  
Work Order No: 11-10-0888  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: DFSP NORWALK GWM / 746442

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GMW-32	11-10-0888-10-A	10/12/11 14:31	Aqueous	GC/MS V V	10/13/11	10/13/11 21:47	111013L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

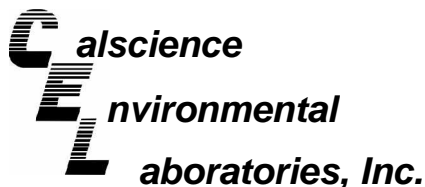
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	97	80-120		Dibromofluoromethane	95	80-126	
1,2-Dichloroethane-d4	98	80-134		Toluene-d8	101	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 10/12/11  
Work Order No: 11-10-0888  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: DFSP NORWALK GWM / 746442

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-14-001-5,951	N/A	Aqueous	GC/MS V V	10/13/11	10/13/11 12:32	111013L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

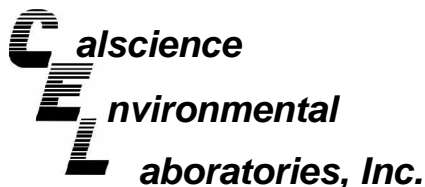
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	1.0	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	10	3.9	1		Methylene Chloride	ND	10	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	0.25	1.0	0.24	1	J
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	10	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	1.0	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	1.0	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	97	80-120		Dibromofluoromethane	101	80-126	
1,2-Dichloroethane-d4	102	80-134		Toluene-d8	101	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 10/12/11  
Work Order No: 11-10-0888  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: DFSP NORWALK GWM / 746442

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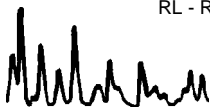
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-14-001-5,961	N/A	Aqueous	GC/MS V V	10/13/11	10/14/11 00:32	111013L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

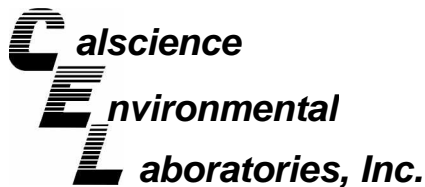
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	1.0	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	10	3.9	1		Methylene Chloride	ND	10	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	1.0	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	10	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	1.0	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	1.0	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	95	80-120		Dibromofluoromethane	99	80-126	
1,2-Dichloroethane-d4	100	80-134		Toluene-d8	101	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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**Quality Control - Spike/Spike Duplicate**



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 10/12/11  
Work Order No: 11-10-0888  
Preparation: EPA 5030C  
Method: EPA 8260B

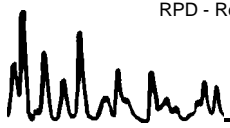
Project DFSP NORWALK GWM / 746442

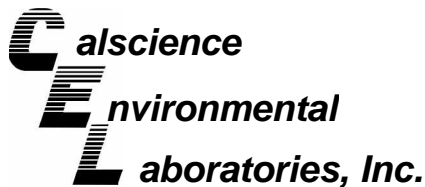
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
11-10-0827-2	Aqueous	GC/MS V V	10/13/11	10/13/11	111013S01

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	50.00	95	98	78-120	3	0-20	
Carbon Tetrachloride	50.00	91	93	67-139	3	0-20	
Chlorobenzene	50.00	101	102	80-120	1	0-20	
1,2-Dibromoethane	50.00	100	102	80-123	2	0-20	
1,2-Dichlorobenzene	50.00	100	103	76-120	3	0-20	
1,2-Dichloroethane	50.00	100	102	76-130	2	0-20	
1,1-Dichloroethene	50.00	113	114	70-130	1	0-27	
Ethylbenzene	50.00	101	102	73-127	1	0-20	
Toluene	50.00	99	102	72-126	3	0-20	
Trichloroethene	50.00	98	99	74-122	2	0-20	
Vinyl Chloride	50.00	127	125	65-131	1	0-24	
Methyl-t-Butyl Ether (MTBE)	50.00	108	112	69-123	3	0-20	
Tert-Butyl Alcohol (TBA)	250.0	95	96	65-131	1	0-22	
Diisopropyl Ether (DIPE)	50.00	106	109	68-128	4	0-22	
Ethyl-t-Butyl Ether (ETBE)	50.00	99	116	69-123	16	0-21	
Tert-Amyl-Methyl Ether (TAME)	50.00	87	90	70-124	3	0-20	
Ethanol	500.0	100	101	41-155	1	0-35	

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RPD - Relative Percent Difference , CL - Control Limit





Quality Control - Spike/Spike Duplicate



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 10/12/11  
Work Order No: 11-10-0888  
Preparation: EPA 5030C  
Method: EPA 8260B

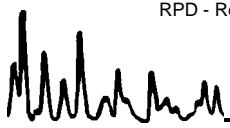
Project DFSP NORWALK GWM / 746442

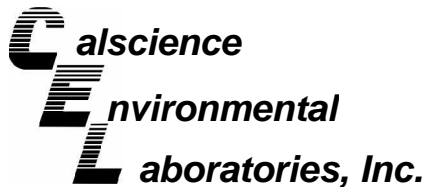
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
GMW-65	Aqueous	GC/MS V V	10/13/11	10/14/11	111013S02

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	50.00	97	97	78-120	1	0-20	
Carbon Tetrachloride	50.00	59	66	67-139	11	0-20	3
Chlorobenzene	50.00	101	102	80-120	1	0-20	
1,2-Dibromoethane	50.00	96	99	80-123	3	0-20	
1,2-Dichlorobenzene	50.00	97	99	76-120	2	0-20	
1,2-Dichloroethane	50.00	101	101	76-130	0	0-20	
1,1-Dichloroethene	50.00	120	117	70-130	2	0-27	
Ethylbenzene	50.00	100	102	73-127	1	0-20	
Toluene	50.00	100	100	72-126	0	0-20	
Trichloroethene	50.00	98	97	74-122	0	0-20	
Vinyl Chloride	50.00	123	123	65-131	0	0-24	
Methyl-t-Butyl Ether (MTBE)	50.00	75	111	69-123	39	0-20	4
Tert-Butyl Alcohol (TBA)	250.0	90	95	65-131	6	0-22	
Diisopropyl Ether (DIPE)	50.00	91	108	68-128	17	0-22	
Ethyl-t-Butyl Ether (ETBE)	50.00	84	103	69-123	20	0-21	
Tert-Amyl-Methyl Ether (TAME)	50.00	84	85	70-124	1	0-20	
Ethanol	500.0	138	111	41-155	22	0-35	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



Parsons, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: N/A  
 Work Order No: 11-10-0888  
 Preparation: EPA 3510C  
 Method: EPA 8015B (M)

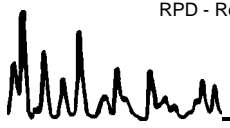
Project: DFSP NORWALK GWM / 746442

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-366-88	Aqueous	GC 27	10/15/11	10/15/11	111015B13

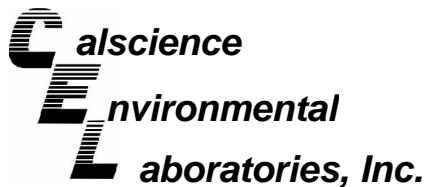
Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as JP5	4000	88	88	75-117	0	0-13	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit







Quality Control - LCS/LCS Duplicate



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: N/A  
Work Order No: 11-10-0888  
Preparation: EPA 5030C  
Method: EPA 8260B

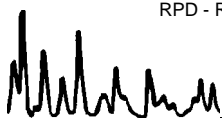
Project: DFSP NORWALK GWM / 746442

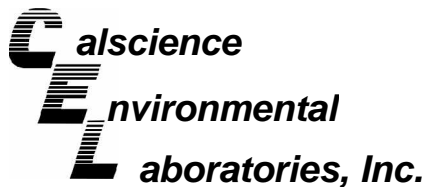
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number			
099-14-001-5,951	Aqueous	GC/MS V V	10/13/11	10/13/11	111013L01			
Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	99	100	80-120	73-127	0	0-20	
Carbon Tetrachloride	50.00	100	98	66-138	54-150	2	0-20	
Chlorobenzene	50.00	105	104	80-120	73-127	1	0-20	
1,2-Dibromoethane	50.00	105	103	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	50.00	104	104	80-120	73-127	1	0-20	
1,2-Dichloroethane	50.00	103	102	80-129	72-137	1	0-20	
1,1-Dichloroethene	50.00	116	115	71-131	61-141	1	0-20	
Ethylbenzene	50.00	104	103	80-123	73-130	1	0-20	
Toluene	50.00	103	103	79-121	72-128	0	0-20	
Trichloroethene	50.00	102	102	80-120	73-127	0	0-20	
Vinyl Chloride	50.00	121	120	70-136	59-147	1	0-20	
Methyl-t-Butyl Ether (MTBE)	50.00	110	109	72-126	63-135	1	0-22	
Tert-Butyl Alcohol (TBA)	250.0	94	95	71-125	62-134	1	0-25	
Diisopropyl Ether (DIPE)	50.00	107	105	69-129	59-139	2	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	120	117	69-129	59-139	3	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	94	93	67-133	56-144	1	0-20	
Ethanol	500.0	95	105	47-155	29-173	10	0-36	

Total number of LCS compounds : 17  
 Total number of ME compounds : 0  
 Total number of ME compounds allowed : 1  
 LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: N/A  
Work Order No: 11-10-0888  
Preparation: EPA 5030C  
Method: EPA 8260B

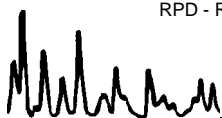
Project: DFSP NORWALK GWM / 746442

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number			
099-14-001-5,961	Aqueous	GC/MS V V	10/13/11	10/13/11	111013L02			
Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	97	98	80-120	73-127	1	0-20	
Carbon Tetrachloride	50.00	62	69	66-138	54-150	10	0-20	ME
Chlorobenzene	50.00	102	102	80-120	73-127	0	0-20	
1,2-Dibromoethane	50.00	98	101	80-120	73-127	3	0-20	
1,2-Dichlorobenzene	50.00	100	100	80-120	73-127	1	0-20	
1,2-Dichloroethane	50.00	100	101	80-129	72-137	2	0-20	
1,1-Dichloroethene	50.00	120	117	71-131	61-141	2	0-20	
Ethylbenzene	50.00	101	101	80-123	73-130	0	0-20	
Toluene	50.00	101	101	79-121	72-128	1	0-20	
Trichloroethene	50.00	99	99	80-120	73-127	0	0-20	
Vinyl Chloride	50.00	125	123	70-136	59-147	1	0-20	
Methyl-t-Butyl Ether (MTBE)	50.00	111	113	72-126	63-135	2	0-22	
Tert-Butyl Alcohol (TBA)	250.0	95	96	71-125	62-134	1	0-25	
Diisopropyl Ether (DIPE)	50.00	108	109	69-129	59-139	0	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	115	88	69-129	59-139	26	0-20	X
Tert-Amyl-Methyl Ether (TAME)	50.00	86	88	67-133	56-144	2	0-20	
Ethanol	500.0	102	102	47-155	29-173	1	0-36	

Total number of LCS compounds : 17  
 Total number of ME compounds : 1  
 Total number of ME compounds allowed : 1  
 LCS ME CL validation result : Pass

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RPD - Relative Percent Difference , CL - Control Limit

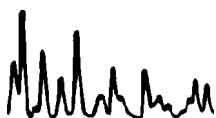


Work Order Number: 11-10-0888
 

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<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS/LCSD Recovery Percentage is within Marginal Exceedance (ME) Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.



# 11-10-0888

DHS #

1680 ROGERS AVENUE  
 SAN JOSE, CALIFORNIA 95112-1105  
 FAX (408) 573-7771  
 PHONE (408) 573-0555

## BLAINE

TECH SERVICES, INC.

EPA  
 LIA  
 OTHER

RWQCB REGION

CHAIN OF

CLIENT **Parsons**

SITE **Norwalk GWM**

SPECIAL INSTRUCTIONS

Invoice and Report to:

Parsons - Mary Lucas (mary.lucas@parsons.com)

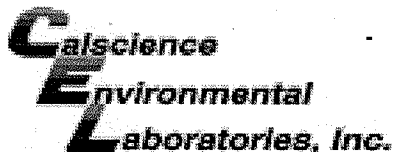
100 W Walnut St., Pasadena, CA 91124 (626) 440-6032

Project # 746442

CONDUCT ANALYSIS TO DETECT	TPH as JP5 (8015)	TPHg (8015)	VOCs (including BTEX, MTBE, TBA, EPA 8260)	STATUS	CONDITION	LAB SAMPLE #
	X		X			1
	X		X			2
	X		X			3
	X		X			4
	X		X			5
	X		X			6
	X		X			7
	X		X			8
	X		X			9
	X		X			10

RESULTS NEEDED NO LATER THAN **Standard**

DATE	TIME	RECEIVED BY	DATE	TIME	RECEIVED BY	DATE	TIME	RECEIVED BY	COOLER #
10/12/11	1530	Nicole (Sample Custodian)	10/12/11	1530	Nicole (Sample Custodian)	10/12/11	1530		
10/12/11	1620	Aly Mengo	10/12/11	1620	Aly Mengo	10/12/11	1625		
10/12/11	1735	Mary Lucas	10/12/11	1735	Mary Lucas	10/12/11	1735		
DATE SENT	TIME SENT	DATE SENT	TIME SENT	DATE SENT	TIME SENT	DATE SENT	TIME SENT	DATE SENT	TIME SENT



WORK ORDER #: 11-10-0888

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: PARSONS

DATE: 10/12/11

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0°C - 6.0°C, not frozen)

Temperature 2.4°C + 0.5°C (CF) = 2.9°C [X] Blank [ ] Sample

- [ ] Sample(s) outside temperature criteria (PM/APM contacted by: \_\_\_\_\_).
[ ] Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

[X] Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: [ ] Air [ ] Filter

Initial: AM

CUSTODY SEALS INTACT:

- [ ] Cooler [ ] \_\_\_\_\_ [ ] No (Not Intact) [X] Not Present [ ] N/A
[ ] Sample [ ] \_\_\_\_\_ [ ] No (Not Intact) [X] Not Present

Initial: AM

Initial: TN

SAMPLE CONDITION:

Table with 4 columns: Item, Yes, No, N/A. Rows include Chain-Of-Custody (COC) document(s) received with samples, COC document(s) received complete, Sampler's name indicated on COC, etc.

CONTAINER TYPE:

- Solid: [ ] 4ozCGJ [X] 8ozCGJ [ ] 16ozCGJ [ ] Sleeve ( ) [ ] EnCores® [ ] TerraCores® [ ] \_\_\_\_\_
Water: [ ] VOA [X] VOAh [ ] VOAna2 [ ] 125AGB [ ] 125AGBh [ ] 125AGBp [ ] 1AGB [ ] 1AGBna2 [ ] 1AGBs
[ ] 500AGB [X] 500AGJ [ ] 500AGJs [ ] 250AGB [ ] 250CGB [ ] 250CGBs [ ] 1PB [ ] 1PBna [ ] 500PB
[ ] 250PB [ ] 250PBn [ ] 125PB [ ] 125PBzanna [ ] 100PJ [ ] 100PJna2 [ ] \_\_\_\_\_ [ ] \_\_\_\_\_ [ ] \_\_\_\_\_

Air: [ ] Tedlar® [ ] Summa® Other: [ ] \_\_\_\_\_ Trip Blank Lot#: 111003B Labeled/Checked by: TN

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: [Signature]

Preservative: h: HCL n: HNO3 na2:Na2S2O3 na: NaOH p: H3PO4 s: H2SO4 u: Ultra-pure zna: ZnAc2+NaOH f: Filtered Scanned by: [Signature]





Environmental & Marine Chemistry Laboratories



# CALSCIENCE

## WORK ORDER NUMBER: 11-10-0991

*The difference is service*



AIR | SOIL | WATER | MARINE CHEMISTRY

### Analytical Report For

**Client:** Parsons, Inc.

**Client Project Name:** NORWALK GWM

**Attention:** Mary Lucas  
100 West Walnut Street  
Pasadena, CA 91124-0002

*Ranjit K. Clarke*

Approved for release on 10/19/2011 by:  
Ranjit Clarke  
Project Manager

ResultLink ▶

Email your PM ▶



Calscience Environmental Laboratories certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety. Note that the Chain-of-Custody Record and Sample Receipt Form are integral parts of this report.





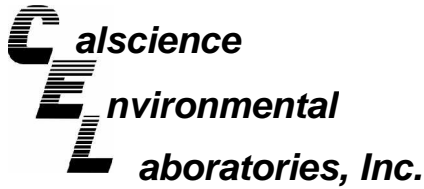
Environmental &amp; Marine Chemistry Laboratories

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Client Project Name: NORWALK GWM

Work Order Number: 11-10-0991

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Analytical Report



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 10/13/11  
Work Order No: 11-10-0991  
Preparation: EPA 3510C  
Method: EPA 8015B (M)

Project: NORWALK GWM

Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-17	11-10-0991-2-D	10/13/11 07:59	Aqueous	GC 27	10/15/11	10/15/11 22:24	111015B13

Parameter	Result	RL	DF	Qual	Units
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	122	68-140			

MW-22(MID)	11-10-0991-3-D	10/13/11 08:48	Aqueous	GC 27	10/15/11	10/15/11 22:42	111015B13
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Parameter	Result	RL	DF	Qual	Units
TPH as JP5	120	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	121	68-140			

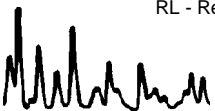
MW-25	11-10-0991-4-D	10/13/11 09:17	Aqueous	GC 27	10/15/11	10/15/11 23:00	111015B13
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Parameter	Result	RL	DF	Qual	Units
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	108	68-140			

MW-26	11-10-0991-5-D	10/13/11 10:20	Aqueous	GC 27	10/15/11	10/15/11 23:19	111015B13
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Parameter	Result	RL	DF	Qual	Units
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	111	68-140			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers







Parsons, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: 10/13/11  
 Work Order No: 11-10-0991  
 Preparation: EPA 3510C  
 Method: EPA 8015B (M)

Project: NORWALK GWM

Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-27	11-10-0991-6-D	10/13/11 11:04	Aqueous	GC 27	10/15/11	10/15/11 23:36	111015B13

Parameter	Result	RL	DF	Qual	Units
TPH as JP5	180	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	121	68-140			

MW-24	11-10-0991-7-D	10/13/11 11:51	Aqueous	GC 27	10/15/11	10/15/11 23:55	111015B13
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Parameter	Result	RL	DF	Qual	Units
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	126	68-140			

MW-23(MID)	11-10-0991-8-D	10/13/11 12:32	Aqueous	GC 27	10/15/11	10/16/11 00:13	111015B13
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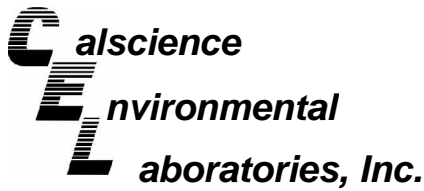
Parameter	Result	RL	DF	Qual	Units
TPH as JP5	1900	100	1	HD	ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	128	68-140			

WCW-6	11-10-0991-9-D	10/13/11 13:20	Aqueous	GC 27	10/15/11	10/16/11 00:31	111015B13
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Parameter	Result	RL	DF	Qual	Units
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	90	68-140			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Analytical Report



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 10/13/11  
Work Order No: 11-10-0991  
Preparation: EPA 3510C  
Method: EPA 8015B (M)

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
WCW-2	11-10-0991-10-D	10/13/11 14:16	Aqueous	GC 27	10/15/11	10/16/11 00:49	111015B13

Parameter	Result	RL	DF	Qual	Units
TPH as JP5	ND	100	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	113	68-140	

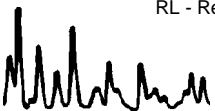
Method Blank	099-12-366-88	N/A	Aqueous	GC 27	10/15/11	10/15/11 18:28	111015B13
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Parameter	Result	RL	DF	Qual	Units
TPH as JP5	ND	100	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	105	68-140	

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Parsons, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: 10/13/11  
 Work Order No: 11-10-0991  
 Preparation: EPA 5030C  
 Method: EPA 8260B  
 Units: ug/L

Project: NORWALK GWM

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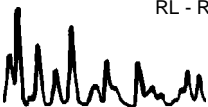
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB-04	11-10-0991-1-A	10/13/11 07:30	Aqueous	GC/MS GGG	10/14/11	10/15/11 05:19	111014L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	0.90	5.0	0.64	1	J
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	95	80-120		Dibromofluoromethane	112	80-126	
1,2-Dichloroethane-d4	113	80-134		Toluene-d8	99	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Return to Contents



Parsons, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: 10/13/11  
 Work Order No: 11-10-0991  
 Preparation: EPA 5030C  
 Method: EPA 8260B  
 Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-17	11-10-0991-2-A	10/13/11 07:59	Aqueous	GC/MS GGG	10/14/11	10/15/11 05:49	111014L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	96	80-120		Dibromofluoromethane	113	80-126	
1,2-Dichloroethane-d4	114	80-134		Toluene-d8	97	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Parsons, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: 10/13/11  
 Work Order No: 11-10-0991  
 Preparation: EPA 5030C  
 Method: EPA 8260B  
 Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-22(MID)	11-10-0991-3-A	10/13/11 08:48	Aqueous	GC/MS GGG	10/14/11	10/15/11 06:19	111014L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	0.39	0.50	0.14	1	J	t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	0.38	0.50	0.24	1	J
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	4.6	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	6.3	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	7.2	10	4.6	1	J
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	0.37	2.0	0.33	1	J
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	95	80-120		Dibromofluoromethane	111	80-126	
1,2-Dichloroethane-d4	114	80-134		Toluene-d8	97	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Parsons, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: 10/13/11  
 Work Order No: 11-10-0991  
 Preparation: EPA 5030C  
 Method: EPA 8260B  
 Units: ug/L

Project: NORWALK GWM

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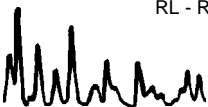
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-25	11-10-0991-4-A	10/13/11 09:17	Aqueous	GC/MS GGG	10/14/11	10/15/11 06:49	111014L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

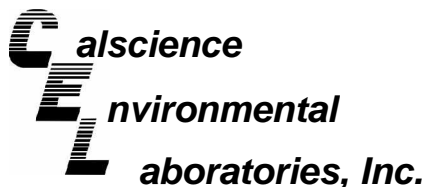
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	1.4	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	0.31	0.50	0.31	1	J
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	94	80-120		Dibromofluoromethane	111	80-126	
1,2-Dichloroethane-d4	114	80-134		Toluene-d8	99	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 10/13/11  
Work Order No: 11-10-0991  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: NORWALK GWM

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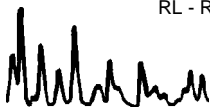
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-26	11-10-0991-5-A	10/13/11 10:20	Aqueous	GC/MS GGG	10/14/11	10/15/11 07:20	111014L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

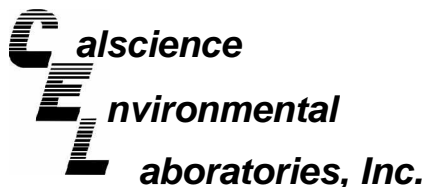
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	1.4	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	0.75	1.0	0.58	1	J
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	0.59	1.0	0.17	1	J
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	97	80-120		Dibromofluoromethane	111	80-126	
1,2-Dichloroethane-d4	114	80-134		Toluene-d8	99	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 10/13/11  
Work Order No: 11-10-0991  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-27	11-10-0991-6-B	10/13/11 11:04	Aqueous	GC/MS GGG	10/15/11	10/15/11 19:18	111015L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	0.18	1.0	0.16	1	J
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	0.26	1.0	0.23	1	J	Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	0.51	1.0	0.25	1	J	n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	0.41	1.0	0.28	1	J	Styrene	ND	1.0	0.17	1	
Carbon Disulfide	0.53	10	0.41	1	J	1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

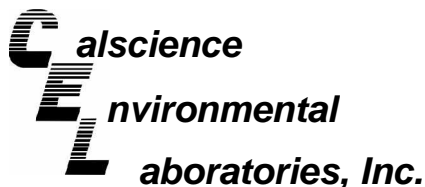
Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	99	80-120		Dibromofluoromethane	106	80-126	
1,2-Dichloroethane-d4	112	80-134		Toluene-d8	98	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 10/13/11  
Work Order No: 11-10-0991  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-24	11-10-0991-7-A	10/13/11 11:51	Aqueous	GC/MS GGG	10/14/11	10/15/11 08:20	111014L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

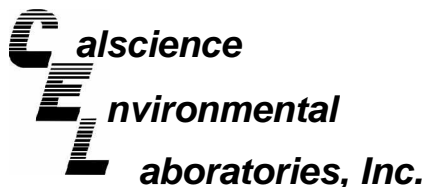
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	96	80-120		Dibromofluoromethane	111	80-126	
1,2-Dichloroethane-d4	112	80-134		Toluene-d8	99	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 10/13/11  
Work Order No: 11-10-0991  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-23(MID)	11-10-0991-8-A	10/13/11 12:32	Aqueous	GC/MS GGG	10/14/11	10/15/11 08:50	111014L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

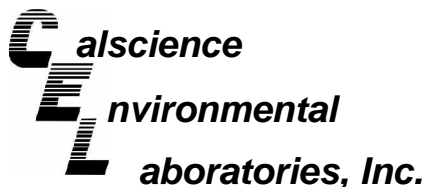
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	0.41	1.0	0.25	1	J	n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	10	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	14	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	99	80-120		Dibromofluoromethane	110	80-126	
1,2-Dichloroethane-d4	113	80-134		Toluene-d8	100	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 10/13/11  
Work Order No: 11-10-0991  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
WCW-6	11-10-0991-9-A	10/13/11 13:20	Aqueous	GC/MS GGG	10/14/11	10/15/11 09:20	111014L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

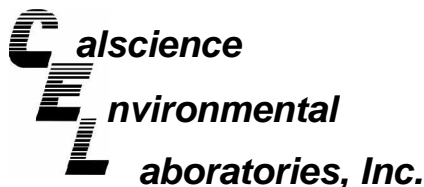
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	0.28	0.50	0.24	1	J	o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	95	80-120		Dibromofluoromethane	108	80-126	
1,2-Dichloroethane-d4	109	80-134		Toluene-d8	98	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 10/13/11  
Work Order No: 11-10-0991  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
WCW-2	11-10-0991-10-A	10/13/11 14:16	Aqueous	GC/MS GGG	10/14/11	10/15/11 09:51	111014L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	94	80-120		Dibromofluoromethane	109	80-126	
1,2-Dichloroethane-d4	110	80-134		Toluene-d8	99	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Parsons, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: 10/13/11  
 Work Order No: 11-10-0991  
 Preparation: EPA 5030C  
 Method: EPA 8260B  
 Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-14-001-5,977	N/A	Aqueous	GC/MS GGG	10/14/11	10/15/11 03:18	111014L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	1.0	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	10	3.9	1		Methylene Chloride	ND	10	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	0.25	1.0	0.23	1	J	Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	0.47	10	0.41	1	J	1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	1.0	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	10	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	0.14	1.0	0.13	1	J	1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	1.0	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	1.0	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	95	80-120		Dibromofluoromethane	110	80-126	
1,2-Dichloroethane-d4	113	80-134		Toluene-d8	99	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Parsons, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: 10/13/11  
 Work Order No: 11-10-0991  
 Preparation: EPA 5030C  
 Method: EPA 8260B  
 Units: ug/L

Project: NORWALK GWM

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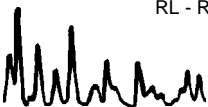
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-14-001-5,978	N/A	Aqueous	GC/MS GGG	10/15/11	10/15/11 14:45	111015L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

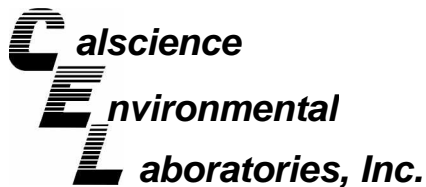
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	1.0	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	10	3.9	1		Methylene Chloride	ND	10	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	1.0	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	10	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	1.0	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	1.0	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	95	80-120		Dibromofluoromethane	109	80-126	
1,2-Dichloroethane-d4	111	80-134		Toluene-d8	99	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Quality Control - Spike/Spike Duplicate



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 10/13/11  
Work Order No: 11-10-0991  
Preparation: EPA 5030C  
Method: EPA 8260B

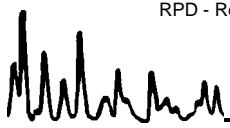
Project NORWALK GWM

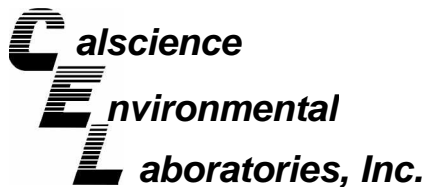
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
11-10-0889-4	Aqueous	GC/MS GGG	10/14/11	10/14/11	111014S01

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	50.00	105	100	78-120	5	0-9	
1,2-Dichloroethane	50.00	109	103	76-130	6	0-11	
1,1-Dichloroethene	50.00	100	98	70-130	2	0-15	
Toluene	50.00	104	98	72-126	6	0-10	
Trichloroethene	50.00	96	91	74-122	5	0-10	
Methyl-t-Butyl Ether (MTBE)	50.00	109	101	69-123	8	0-17	
Ethanol	500.0	96	93	41-155	4	0-40	

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RPD - Relative Percent Difference , CL - Control Limit





**Quality Control - Spike/Spike Duplicate**



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 10/13/11  
Work Order No: 11-10-0991  
Preparation: EPA 5030C  
Method: EPA 8260B

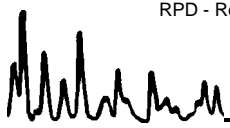
Project NORWALK GWM

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
11-10-1104-1	Aqueous	GC/MS GGG	10/15/11	10/15/11	111015S01

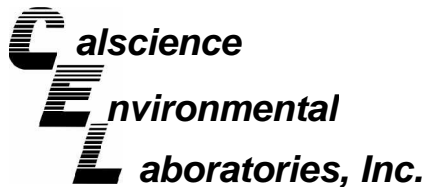
Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	50.00	105	103	78-120	1	0-20	
Carbon Tetrachloride	50.00	110	104	69-139	6	0-20	
Chlorobenzene	50.00	104	102	70-130	3	0-20	
1,2-Dibromoethane	50.00	102	103	80-123	2	0-20	
1,2-Dichlorobenzene	50.00	101	98	76-120	3	0-20	
1,2-Dichloroethane	50.00	109	105	76-130	3	0-20	
1,1-Dichloroethene	50.00	105	98	70-130	7	0-27	
Ethylbenzene	50.00	106	103	73-127	2	0-20	
Toluene	50.00	104	101	72-126	2	0-20	
Trichloroethene	50.00	97	94	74-122	4	0-20	
Vinyl Chloride	50.00	99	100	65-131	1	0-24	
Methyl-t-Butyl Ether (MTBE)	50.00	100	102	69-123	2	0-20	
Tert-Butyl Alcohol (TBA)	250.0	104	104	65-131	1	0-22	
Diisopropyl Ether (DIPE)	50.00	105	104	68-128	1	0-22	
Ethyl-t-Butyl Ether (ETBE)	50.00	102	103	69-123	1	0-21	
Tert-Amyl-Methyl Ether (TAME)	50.00	99	102	70-124	2	0-20	
Ethanol	500.0	110	116	41-155	5	0-35	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit







Quality Control - LCS/LCS Duplicate



Parsons, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: N/A  
 Work Order No: 11-10-0991  
 Preparation: EPA 3510C  
 Method: EPA 8015B (M)

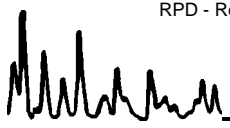
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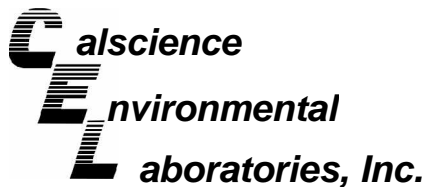
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-366-88	Aqueous	GC 27	10/15/11	10/15/11	111015B13

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as JP5	4000	88	88	75-117	0	0-13	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: N/A  
Work Order No: 11-10-0991  
Preparation: EPA 5030C  
Method: EPA 8260B

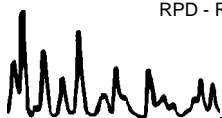
Project: NORWALK GWM

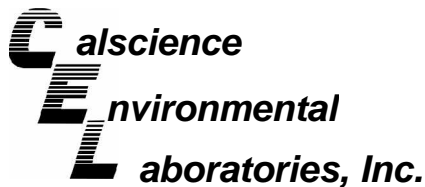
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number			
099-14-001-5,977	Aqueous	GC/MS GGG	10/14/11	10/15/11	111014L02			
Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	99	94	80-120	73-127	5	0-20	
Carbon Tetrachloride	50.00	101	94	66-138	54-150	7	0-20	
Chlorobenzene	50.00	97	92	80-120	73-127	6	0-20	
1,2-Dibromoethane	50.00	99	96	80-120	73-127	3	0-20	
1,2-Dichlorobenzene	50.00	97	92	80-120	73-127	5	0-20	
1,2-Dichloroethane	50.00	100	94	80-129	72-137	6	0-20	
1,1-Dichloroethene	50.00	101	94	71-131	61-141	8	0-20	
Ethylbenzene	50.00	100	93	80-123	73-130	7	0-20	
Toluene	50.00	98	92	79-121	72-128	6	0-20	
Trichloroethene	50.00	99	95	80-120	73-127	5	0-20	
Vinyl Chloride	50.00	101	94	70-136	59-147	6	0-20	
Methyl-t-Butyl Ether (MTBE)	50.00	98	97	72-126	63-135	2	0-22	
Tert-Butyl Alcohol (TBA)	250.0	101	98	71-125	62-134	3	0-25	
Diisopropyl Ether (DIPE)	50.00	102	98	69-129	59-139	4	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	101	100	69-129	59-139	1	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	97	95	67-133	56-144	2	0-20	
Ethanol	500.0	107	105	47-155	29-173	3	0-36	

Total number of LCS compounds : 17  
 Total number of ME compounds : 0  
 Total number of ME compounds allowed : 1  
 LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: N/A  
Work Order No: 11-10-0991  
Preparation: EPA 5030C  
Method: EPA 8260B

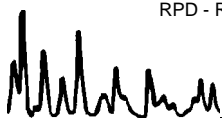
Project: NORWALK GWM

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number			
099-14-001-5,978	Aqueous	GC/MS GGG	10/15/11	10/15/11	111015L01			
Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	99	93	80-120	73-127	6	0-20	
Carbon Tetrachloride	50.00	104	95	66-138	54-150	9	0-20	
Chlorobenzene	50.00	99	94	80-120	73-127	6	0-20	
1,2-Dibromoethane	50.00	101	96	80-120	73-127	5	0-20	
1,2-Dichlorobenzene	50.00	98	92	80-120	73-127	6	0-20	
1,2-Dichloroethane	50.00	101	95	80-129	72-137	6	0-20	
1,1-Dichloroethene	50.00	103	94	71-131	61-141	9	0-20	
Ethylbenzene	50.00	102	96	80-123	73-130	6	0-20	
Toluene	50.00	99	92	79-121	72-128	7	0-20	
Trichloroethene	50.00	93	87	80-120	73-127	6	0-20	
Vinyl Chloride	50.00	98	92	70-136	59-147	6	0-20	
Methyl-t-Butyl Ether (MTBE)	50.00	100	96	72-126	63-135	4	0-22	
Tert-Butyl Alcohol (TBA)	250.0	101	99	71-125	62-134	2	0-25	
Diisopropyl Ether (DIPE)	50.00	102	98	69-129	59-139	4	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	102	98	69-129	59-139	5	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	100	97	67-133	56-144	3	0-20	
Ethanol	500.0	103	96	47-155	29-173	7	0-36	

Total number of LCS compounds : 17  
 Total number of ME compounds : 0  
 Total number of ME compounds allowed : 1  
 LCS ME CL validation result : Pass

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RPD - Relative Percent Difference , CL - Control Limit

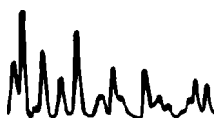


Work Order Number: 11-10-0991
 

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<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS/LCSD Recovery Percentage is within Marginal Exceedance (ME) Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.



# BLAINE

1680 ROGERS AVENUE  
 SAN JOSE, CALIFORNIA 95112-1105  
 FAX (408) 573-7771  
 PHONE (408) 573-0555

TECH SERVICES, INC.

CHAIN OF

CLIENT: Parsons

SITE: Norwalk GWM

LAB: Calscience  
 ALL ANALYSES  
 MUST MEET

EPA  
 LIA  
 OTHER

RWQCB REGION

CONDUCT ANALYSIS TO DETECT

VOC's (including BTEX, MTBE, TBA, EPA 8260)	TPH as JP5 (8015)	TPHg (8015)	LAB SAMPLE #
X			1
X	X		2
X	X		3
X	X		4
X	X		5
X	X		6
X	X		7
X	X		8
X	X		9
X	X		10

SPECIAL INSTRUCTIONS

**11-10-0991**

Invoice and Report to:

Parsons - Mary Lucas (mary.lucas@parsons.com)

100 W Walnut St., Pasadena, CA 91124 (626) 440-6032  
 Project # 746442

SAMPLE I.D.	DATE	TIME	MATRIX	CONTAINERS	TOTAL
TP-04	10/12/11	0730	W	VOC	2
MW-17		0759	W	VOC Aqueous	4
MW-22(M.I.D)		0848	W		4
MW-25		0917	W		4
MW-26		1020	W		4
MW-27		1104	W		4
MW-24		1151	W		4
MW-23(M.I.D)		1232	W		4
WGW-6		1320	W		4
WGW-2		1416	4		4

RESULTS NEEDED  
 NO LATER THAN

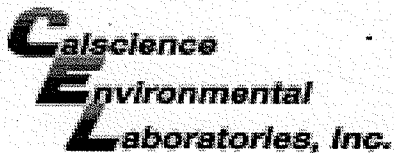
Standard

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	RECEIVED BY	DATE	TIME
	10/13/11	1530	PLATTENBERG	Nicole (Sample Custodian)	10/13/11	1545
				Allylaing	10/13/11	1610
				DANNY KEE	10/13/11	1755

SHIPPED VIA

COOLER #





WORK ORDER #: 11-10-0991

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: PARSONS

DATE: 10/13/11

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0°C - 6.0°C, not frozen)

Temperature 2.5°C + 0.5°C (CF) = 3.0°C [X] Blank [ ] Sample

[ ] Sample(s) outside temperature criteria (PM/APM contacted by: \_\_\_\_\_).

[ ] Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

[ ] Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: [ ] Air [ ] Filter

Initial: AM

CUSTODY SEALS INTACT:

[ ] Cooler [ ] \_\_\_\_\_ [ ] No (Not Intact) [X] Not Present [ ] N/A

Initial: AM

[ ] Sample [ ] \_\_\_\_\_ [ ] No (Not Intact) [X] Not Present

Initial: KM

SAMPLE CONDITION:

Table with 4 columns: Item, Yes, No, N/A. Rows include Chain-Of-Custody (COC) document(s) received with samples, COC document(s) received complete, Sampler's name indicated on COC, etc.

CONTAINER TYPE:

Solid: [ ] 4ozCGJ [ ] 8ozCGJ [ ] 16ozCGJ [ ] Sleeve (\_\_\_\_) [ ] EnCores® [ ] TerraCores® [ ] \_\_\_\_\_
Water: [X] VOA [X] VOA<sup>h</sup> [ ] VOAna<sub>2</sub> [ ] 125AGB [ ] 125AGBh [ ] 125AGBp [ ] 1AGB [ ] 1AGBna<sub>2</sub> [ ] 1AGBs
[ ] 500AGB [ ] 500AGJ [ ] 500AGJs [ ] 250AGB [ ] 250CGB [ ] 250CGBs [ ] 1PB [ ] 1PBna [ ] 500PB
[ ] 250PB [ ] 250PBn [ ] 125PB [ ] 125PBz<sub>na</sub> [ ] 100PJ [ ] 100PJna<sub>2</sub> [ ] \_\_\_\_\_ [ ] \_\_\_\_\_ [ ] \_\_\_\_\_

Air: [ ] Tedlar® [ ] Summa® Other: [ ] \_\_\_\_\_ Trip Blank Lot#: 1110038 Labeled/Checked by: KM

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: TN

Preservative: h: HCL n: HNO<sub>3</sub> na<sub>2</sub>: Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> na: NaOH p: H<sub>3</sub>PO<sub>4</sub> s: H<sub>2</sub>SO<sub>4</sub> u: Ultra-pure z<sub>na</sub>: ZnAc<sub>2</sub>+NaOH f: Filtered Scanned by: TN





Environmental & Marine Chemistry Laboratories



# CALSCIENCE

## WORK ORDER NUMBER: 11-10-1112

*The difference is service*



AIR | SOIL | WATER | MARINE CHEMISTRY

### Analytical Report For

**Client:** Parsons, Inc.

**Client Project Name:** NORWALK GWM

**Attention:** Mary Lucas  
100 West Walnut Street  
Pasadena, CA 91124-0002

*Ranjit K. Clarke*

Approved for release on 10/20/2011 by:  
Ranjit Clarke  
Project Manager

ResultLink ▶

Email your PM ▶



Calscience Environmental Laboratories certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety. Note that the Chain-of-Custody Record and Sample Receipt Form are integral parts of this report.



7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501 • www.calscience.com

NELAP ID: 03220CA | DoD-ELAP ID: L10-41 | CSDLAC ID: 10109 | SCAQMD ID: 93LA0830



Environmental &amp; Marine Chemistry Laboratories

# Contents

Client Project Name: NORWALK GWM

Work Order Number: 11-10-1112

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Parsons, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: 10/14/11  
 Work Order No: 11-10-1112  
 Preparation: EPA 3510C  
 Method: EPA 8015B (M)

Project: NORWALK GWM

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
PZ-3	11-10-1112-2-D	10/14/11 07:33	Aqueous	GC 47	10/18/11	10/18/11 18:37	111018B09

Parameter	Result	RL	DF	Qual	Units
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	114	68-140			

WCW-4	11-10-1112-3-D	10/14/11 08:17	Aqueous	GC 47	10/18/11	10/18/11 18:52	111018B09
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Parameter	Result	RL	DF	Qual	Units
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	140	68-140			

WCW-5	11-10-1112-4-D	10/14/11 11:05	Aqueous	GC 47	10/18/11	10/18/11 19:08	111018B09
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Parameter	Result	RL	DF	Qual	Units
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	131	68-140			

WCW-5 DUP	11-10-1112-5-D	10/14/11 00:00	Aqueous	GC 47	10/18/11	10/18/11 19:23	111018B09
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Parameter	Result	RL	DF	Qual	Units
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	104	68-140			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Return to Contents



Parsons, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: 10/14/11  
 Work Order No: 11-10-1112  
 Preparation: EPA 3510C  
 Method: EPA 8015B (M)

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
WCW-8	11-10-1112-6-D	10/14/11 10:10	Aqueous	GC 47	10/18/11	10/18/11 19:38	111018B09

Parameter	Result	RL	DF	Qual	Units
TPH as JP5	170	100	1	HD	ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	119	68-140			

WCW-12	11-10-1112-7-D	10/14/11 09:34	Aqueous	GC 47	10/18/11	10/18/11 19:53	111018B09
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Parameter	Result	RL	DF	Qual	Units
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	116	68-140			

WCW-14	11-10-1112-8-D	10/14/11 08:56	Aqueous	GC 47	10/18/11	10/18/11 20:09	111018B09
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Parameter	Result	RL	DF	Qual	Units
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	115	68-140			

Method Blank	099-12-366-89	N/A	Aqueous	GC 47	10/18/11	10/18/11 17:52	111018B09
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Parameter	Result	RL	DF	Qual	Units
TPH as JP5	ND	100	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	115	68-140			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Parsons, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: 10/14/11  
 Work Order No: 11-10-1112  
 Preparation: EPA 5030C  
 Method: EPA 8260B  
 Units: ug/L

Project: NORWALK GWM

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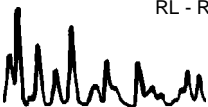
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB-05	11-10-1112-1-A	10/14/11 07:30	Aqueous	GC/MS GGG	10/15/11	10/16/11 03:30	111015L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	96	80-120		Dibromofluoromethane	108	80-126	
1,2-Dichloroethane-d4	113	80-134		Toluene-d8	98	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Return to Contents



Parsons, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: 10/14/11  
 Work Order No: 11-10-1112  
 Preparation: EPA 5030C  
 Method: EPA 8260B  
 Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
PZ-3	11-10-1112-2-A	10/14/11 07:33	Aqueous	GC/MS GGG	10/15/11	10/16/11 04:00	111015L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	0.96	5.0	0.64	1	J
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	94	80-120		Dibromofluoromethane	110	80-126	
1,2-Dichloroethane-d4	111	80-134		Toluene-d8	100	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Parsons, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: 10/14/11  
 Work Order No: 11-10-1112  
 Preparation: EPA 5030C  
 Method: EPA 8260B  
 Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
WCW-4	11-10-1112-3-A	10/14/11 08:17	Aqueous	GC/MS GGG	10/15/11	10/16/11 06:31	111015L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	0.62	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	96	80-120		Dibromofluoromethane	108	80-126	
1,2-Dichloroethane-d4	111	80-134		Toluene-d8	100	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Parsons, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: 10/14/11  
 Work Order No: 11-10-1112  
 Preparation: EPA 5030C  
 Method: EPA 8260B  
 Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
WCW-5	11-10-1112-4-A	10/14/11 11:05	Aqueous	GC/MS GGG	10/15/11	10/16/11 07:01	111015L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	96	80-120		Dibromofluoromethane	108	80-126	
1,2-Dichloroethane-d4	110	80-134		Toluene-d8	98	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Parsons, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: 10/14/11  
 Work Order No: 11-10-1112  
 Preparation: EPA 5030C  
 Method: EPA 8260B  
 Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
WCW-5 DUP	11-10-1112-5-A	10/14/11 00:00	Aqueous	GC/MS GGG	10/15/11	10/16/11 07:32	111015L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

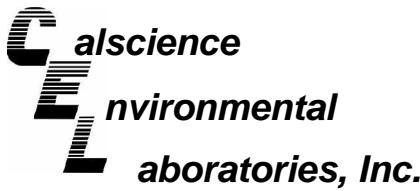
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	94	80-120		Dibromofluoromethane	110	80-126	
1,2-Dichloroethane-d4	113	80-134		Toluene-d8	97	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 10/14/11  
Work Order No: 11-10-1112  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
WCW-8	11-10-1112-6-A	10/14/11 10:10	Aqueous	GC/MS GGG	10/15/11	10/16/11 08:02	111015L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	0.92	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	97	80-120		Dibromofluoromethane	109	80-126	
1,2-Dichloroethane-d4	112	80-134		Toluene-d8	100	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Parsons, Inc.  
 100 West Walnut Street  
 Pasadena, CA 91124-0002

Date Received: 10/14/11  
 Work Order No: 11-10-1112  
 Preparation: EPA 5030C  
 Method: EPA 8260B  
 Units: ug/L

Project: NORWALK GWM

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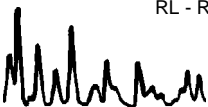
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
WCW-12	11-10-1112-7-A	10/14/11 09:34	Aqueous	GC/MS GGG	10/15/11	10/16/11 08:32	111015L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

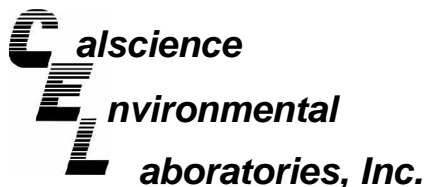
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	95	80-120		Dibromofluoromethane	108	80-126	
1,2-Dichloroethane-d4	110	80-134		Toluene-d8	99	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 10/14/11  
Work Order No: 11-10-1112  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
WCW-14	11-10-1112-8-A	10/14/11 08:56	Aqueous	GC/MS GGG	10/15/11	10/16/11 09:02	111015L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

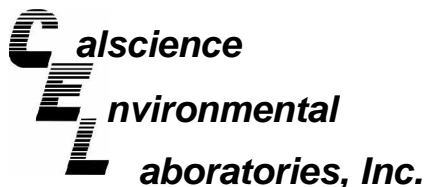
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	0.50	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	5.0	3.9	1		Methylene Chloride	ND	5.0	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	0.50	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	5.0	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	0.50	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	0.50	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	95	80-120		Dibromofluoromethane	109	80-126	
1,2-Dichloroethane-d4	112	80-134		Toluene-d8	98	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Analytical Report



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 10/14/11  
Work Order No: 11-10-1112  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/L

Project: NORWALK GWM

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-14-001-5,991	N/A	Aqueous	GC/MS GGG	10/15/11	10/16/11 03:00	111015L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

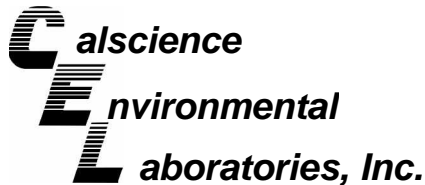
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	20	10	1		c-1,3-Dichloropropene	ND	0.50	0.25	1	
Benzene	ND	0.50	0.14	1		t-1,3-Dichloropropene	ND	0.50	0.25	1	
Bromobenzene	ND	1.0	0.30	1		Ethylbenzene	ND	1.0	0.14	1	
Bromochloromethane	ND	1.0	0.48	1		2-Hexanone	ND	10	2.1	1	
Bromodichloromethane	ND	1.0	0.21	1		Isopropylbenzene	ND	1.0	0.58	1	
Bromoform	ND	1.0	0.50	1		p-Isopropyltoluene	ND	1.0	0.16	1	
Bromomethane	ND	10	3.9	1		Methylene Chloride	ND	10	0.64	1	
2-Butanone	ND	10	2.2	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
n-Butylbenzene	ND	1.0	0.23	1		Naphthalene	ND	10	2.5	1	
sec-Butylbenzene	ND	1.0	0.25	1		n-Propylbenzene	ND	1.0	0.17	1	
tert-Butylbenzene	ND	1.0	0.28	1		Styrene	ND	1.0	0.17	1	
Carbon Disulfide	ND	10	0.41	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1	
Carbon Tetrachloride	ND	0.50	0.23	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1	
Chlorobenzene	ND	1.0	0.17	1		Tetrachloroethene	ND	1.0	0.39	1	
Chloroethane	ND	5.0	2.3	1		Toluene	ND	1.0	0.24	1	
Chloroform	ND	1.0	0.46	1		1,2,3-Trichlorobenzene	ND	1.0	0.51	1	
Chloromethane	ND	10	1.8	1		1,2,4-Trichlorobenzene	ND	1.0	0.50	1	
2-Chlorotoluene	ND	1.0	0.24	1		1,1,1-Trichloroethane	ND	1.0	0.30	1	
4-Chlorotoluene	ND	1.0	0.13	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1	
Dibromochloromethane	ND	1.0	0.25	1		1,1,2-Trichloroethane	ND	1.0	0.38	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1		Trichloroethene	ND	1.0	0.37	1	
1,2-Dibromoethane	ND	1.0	0.36	1		Trichlorofluoromethane	ND	10	1.7	1	
Dibromomethane	ND	1.0	0.46	1		1,2,3-Trichloropropane	ND	5.0	0.64	1	
1,2-Dichlorobenzene	ND	1.0	0.46	1		1,2,4-Trimethylbenzene	ND	1.0	0.36	1	
1,3-Dichlorobenzene	ND	1.0	0.40	1		1,3,5-Trimethylbenzene	ND	1.0	0.28	1	
1,4-Dichlorobenzene	ND	1.0	0.43	1		Vinyl Acetate	ND	10	2.8	1	
Dichlorodifluoromethane	ND	1.0	0.46	1		Vinyl Chloride	ND	0.50	0.30	1	
1,1-Dichloroethane	ND	1.0	0.28	1		p/m-Xylene	ND	1.0	0.24	1	
1,2-Dichloroethane	ND	0.50	0.24	1		o-Xylene	ND	1.0	0.23	1	
1,1-Dichloroethene	ND	1.0	0.43	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1	
c-1,2-Dichloroethene	ND	1.0	0.48	1		Tert-Butyl Alcohol (TBA)	ND	10	4.6	1	
t-1,2-Dichloroethene	ND	1.0	0.37	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
1,2-Dichloropropane	ND	1.0	0.42	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1	
1,3-Dichloropropane	ND	1.0	0.30	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1	
2,2-Dichloropropane	ND	1.0	0.36	1		Ethanol	ND	100	50	1	
1,1-Dichloropropene	ND	1.0	0.46	1							

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	96	80-120		Dibromofluoromethane	108	80-126	
1,2-Dichloroethane-d4	112	80-134		Toluene-d8	98	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Quality Control - Spike/Spike Duplicate



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: 10/14/11  
Work Order No: 11-10-1112  
Preparation: EPA 5030C  
Method: EPA 8260B

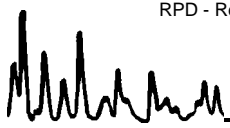
Project NORWALK GWM

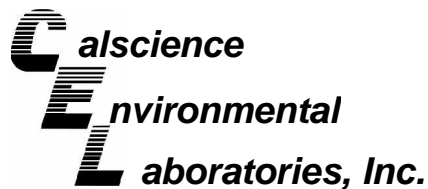
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
PZ-3	Aqueous	GC/MS GGG	10/15/11	10/16/11	111015S02

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	50.00	104	101	78-120	3	0-20	
Carbon Tetrachloride	50.00	103	98	67-139	5	0-20	
Chlorobenzene	50.00	102	100	80-120	3	0-20	
1,2-Dibromoethane	50.00	101	103	80-123	1	0-20	
1,2-Dichlorobenzene	50.00	99	97	76-120	2	0-20	
1,2-Dichloroethane	50.00	109	104	76-130	4	0-20	
1,1-Dichloroethene	50.00	100	96	70-130	4	0-27	
Ethylbenzene	50.00	105	101	73-127	4	0-20	
Toluene	50.00	102	99	72-126	4	0-20	
Trichloroethene	50.00	96	92	74-122	5	0-20	
Vinyl Chloride	50.00	97	99	65-131	2	0-24	
Methyl-t-Butyl Ether (MTBE)	50.00	98	98	69-123	1	0-20	
Tert-Butyl Alcohol (TBA)	250.0	101	102	65-131	1	0-22	
Diisopropyl Ether (DIPE)	50.00	101	101	68-128	0	0-22	
Ethyl-t-Butyl Ether (ETBE)	50.00	98	99	69-123	1	0-21	
Tert-Amyl-Methyl Ether (TAME)	50.00	97	96	70-124	1	0-20	
Ethanol	500.0	112	109	41-155	2	0-35	

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RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: N/A  
Work Order No: 11-10-1112  
Preparation: EPA 3510C  
Method: EPA 8015B (M)

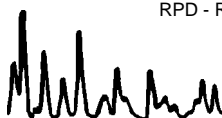
Project: NORWALK GWM

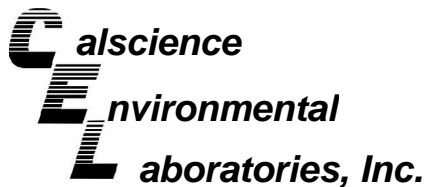
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-366-89	Aqueous	GC 47	10/18/11	10/18/11	111018B09

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as JP5	4000	114	110	75-117	4	0-13	

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RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



Parsons, Inc.  
100 West Walnut Street  
Pasadena, CA 91124-0002

Date Received: N/A  
Work Order No: 11-10-1112  
Preparation: EPA 5030C  
Method: EPA 8260B

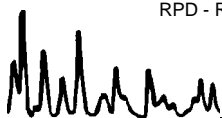
Project: NORWALK GWM

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number			
099-14-001-5,991	Aqueous	GC/MS GGG	10/15/11	10/16/11	111015L02			
Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	101	95	80-120	73-127	6	0-20	
Carbon Tetrachloride	50.00	103	95	66-138	54-150	8	0-20	
Chlorobenzene	50.00	99	94	80-120	73-127	5	0-20	
1,2-Dibromoethane	50.00	101	99	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	50.00	98	94	80-120	73-127	4	0-20	
1,2-Dichloroethane	50.00	104	98	80-129	72-137	6	0-20	
1,1-Dichloroethene	50.00	100	92	71-131	61-141	8	0-20	
Ethylbenzene	50.00	103	97	80-123	73-130	6	0-20	
Toluene	50.00	101	95	79-121	72-128	6	0-20	
Trichloroethene	50.00	95	89	80-120	73-127	7	0-20	
Vinyl Chloride	50.00	99	92	70-136	59-147	8	0-20	
Methyl-t-Butyl Ether (MTBE)	50.00	97	94	72-126	63-135	3	0-22	
Tert-Butyl Alcohol (TBA)	250.0	106	106	71-125	62-134	0	0-25	
Diisopropyl Ether (DIPE)	50.00	101	98	69-129	59-139	2	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	99	97	69-129	59-139	3	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	98	95	67-133	56-144	3	0-20	
Ethanol	500.0	111	113	47-155	29-173	1	0-36	

Total number of LCS compounds : 17  
 Total number of ME compounds : 0  
 Total number of ME compounds allowed : 1  
 LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

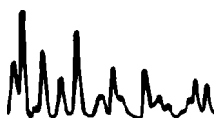


Work Order Number: 11-10-1112
 

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<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS/LCSD Recovery Percentage is within Marginal Exceedance (ME) Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.



# BLAINE

TECH SERVICES, INC.

1680 ROGERS AVENUE  
 SAN JOSE, CALIFORNIA 95112-1105  
 FAX (408) 573-7771  
 PHONE (408) 573-0555

CHAIN OF

CLIENT Parsons

SITE Norwalk GWM

SAMPLE I.D.	DATE	TIME	MATRIX		CONTAINERS	TOTAL
			W = H2O	S = Soil		
T605	10/14/11	0730	W	W	W2	2
P2-3		0735			W2 Amber	4
wcw-4		0817				4
wcw-5		1105				4
wcw-5dup		—				4
wcw-8		1010				4
wcw-12		0934				4
wcw-14	10/14/11	0850	W			4

LAB: Calscience  
 ALL ANALYSES MUST MEET

EPA  
 LIA  
 OTHER

RWQCB REGION

**11-10-1112**

SPECIAL INSTRUCTIONS

Invoice and Report to:  
 Parsons - Mary Lucas (mary.lucas@parsons.com)  
 100 W Walnut St., Pasadena, CA 91124 (626) 440-6032  
 Project # 746442

ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
			1
			2
			3
			4
			5
			6
			7
			8
			9 - 10/14/11

CONDUCT ANALYSIS TO DETECT	
VOCs (including BTEX, MTBE, TBA, EPA 8260)	X
TPH as JP5 (6015)	X
TPHg (8015)	

RESULTS NEEDED NO LATER THAN **Standard**

SAMPLING COMPLETED 10/14/11 1200 PERFORMED BY Matt Hansen

RELEASED BY Matt Hansen DATE 10/14/11 TIME 1300 RECEIVED BY Nicole (Sample Custodian) DATE 10/14/11 TIME 1300

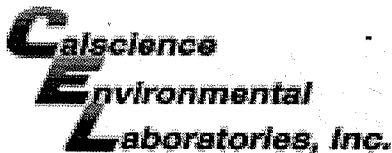
RELEASED BY Nicole (Sample Custodian) DATE 10/14/11 TIME 1700 RECEIVED BY AR DATE 10/14/11 TIME 1700

RELEASED BY AR DATE 10/14/11 TIME 1825 RECEIVED BY AR DATE 10/14/11 TIME 1825

SHIPPED VIA \_\_\_\_\_ DATE SENT \_\_\_\_\_ TIME SENT \_\_\_\_\_ COOLER # \_\_\_\_\_







WORK ORDER #: 11-10-

# SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: BTS

DATE: 10/14/11

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0°C – 6.0°C, not frozen)

Temperature 0.8°C + 0.5°C (CF) = 1.3°C  Blank  Sample

Sample(s) outside temperature criteria (PM/APM contacted by: \_\_\_\_\_).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature:  Air  Filter

Initial: AP

### CUSTODY SEALS INTACT:

Cooler  \_\_\_\_\_  No (Not Intact)  Not Present  N/A

Initial: AP

Sample  \_\_\_\_\_  No (Not Intact)  Not Present

Initial: TN

### SAMPLE CONDITION:

Chain-Of-Custody (COC) document(s) received with samples.....  Yes  No  N/A

COC document(s) received complete.....  Yes  No  N/A

Collection date/time, matrix, and/or # of containers logged in based on sample labels.

No analysis requested.  Not relinquished.  No date/time relinquished.

Sampler's name indicated on COC.....  Yes  No  N/A

Sample container label(s) consistent with COC.....  Yes  No  N/A

Sample container(s) intact and good condition.....  Yes  No  N/A

Proper containers and sufficient volume for analyses requested.....  Yes  No  N/A

Analyses received within holding time.....  Yes  No  N/A

pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours...  Yes  No  N/A

Proper preservation noted on COC or sample container.....  Yes  No  N/A

Unpreserved vials received for Volatiles analysis

Volatile analysis container(s) free of headspace.....  Yes  No  N/A

Tedlar bag(s) free of condensation.....  Yes  No  N/A

### CONTAINER TYPE:

Solid:  4ozCGJ  8ozCGJ  16ozCGJ  Sleeve (\_\_\_\_)  EnCores®  TerraCores®  \_\_\_\_\_

Water:  VOA  VOA<sup>(41)</sup>  VOAna<sub>2</sub>  125AGB  125AGBh  125AGBp  1AGB  1AGBna<sub>2</sub>  1AGBs

500AGB  500AGJ  500AGJs  250AGB  250CGB  250CGBs  1PB  1PBna  500PB

250PB  250PBn  125PB  125PBz<sub>nna</sub>  100PJ  100PJna<sub>2</sub>  \_\_\_\_\_  \_\_\_\_\_  \_\_\_\_\_

Air:  Tedlar®  Summa® Other:  \_\_\_\_\_ Trip Blank Lot#: 111003B Labeled/Checked by: TN

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: AP

Preservative: h: HCL n: HNO<sub>3</sub> na<sub>2</sub>: Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> na: NaOH p: H<sub>3</sub>PO<sub>4</sub> s: H<sub>2</sub>SO<sub>4</sub> u: Ultra-pure z<sub>nna</sub>: ZnAc<sub>2</sub>+NaOH f: Filtered Scanned by: AP





# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135  
Date Received : 10/11/11

Job: KMEP/DFSP Norwalk

Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B  
Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B

	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed	
Client ID :	<b>GMW-O-1</b>					
Lab ID :	CHH11101140-01A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/12/11	10/13/11
Date Sampled	10/10/11 14:20	Surr: Nonane	119	(49-145) %REC	10/12/11	10/13/11
		TPH-P (GRO)	ND	0.050 mg/L	10/12/11	10/12/11
		Surr: 1,2-Dichloroethane-d4	101	(70-130) %REC	10/12/11	10/12/11
		Surr: Toluene-d8	101	(70-130) %REC	10/12/11	10/12/11
		Surr: 4-Bromofluorobenzene	99	(70-130) %REC	10/12/11	10/12/11
Client ID :	<b>GMW-O-2</b>					
Lab ID :	CHH11101140-02A	TPH-E (Fuel Product)	0.14 C	0.10 mg/L	10/12/11	10/13/11
Date Sampled	10/10/11 14:50	Surr: Nonane	110	(49-145) %REC	10/12/11	10/13/11
		TPH-P (GRO)	ND	0.050 mg/L	10/12/11	10/12/11
		Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC	10/12/11	10/12/11
		Surr: Toluene-d8	99	(70-130) %REC	10/12/11	10/12/11
		Surr: 4-Bromofluorobenzene	100	(70-130) %REC	10/12/11	10/12/11
Client ID :	<b>GMW-O-3</b>					
Lab ID :	CHH11101140-03A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/12/11	10/13/11
Date Sampled	10/10/11 15:20	Surr: Nonane	112	(49-145) %REC	10/12/11	10/13/11
		TPH-P (GRO)	ND	0.050 mg/L	10/12/11	10/12/11
		Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC	10/12/11	10/12/11
		Surr: Toluene-d8	106	(70-130) %REC	10/12/11	10/12/11
		Surr: 4-Bromofluorobenzene	98	(70-130) %REC	10/12/11	10/12/11
Client ID :	<b>EXP-5</b>					
Lab ID :	CHH11101140-04A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/12/11	10/13/11
Date Sampled	10/10/11 14:47	Surr: Nonane	127	(49-145) %REC	10/12/11	10/13/11
		TPH-P (GRO)	ND	0.050 mg/L	10/12/11	10/12/11
		Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC	10/12/11	10/12/11
		Surr: Toluene-d8	100	(70-130) %REC	10/12/11	10/12/11
		Surr: 4-Bromofluorobenzene	100	(70-130) %REC	10/12/11	10/12/11
Client ID :	<b>EB-1</b>					
Lab ID :	CHH11101140-06A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/12/11	10/13/11
Date Sampled	10/10/11 14:50	Surr: Nonane	105	(49-145) %REC	10/12/11	10/13/11
		TPH-P (GRO)	ND	0.050 mg/L	10/12/11	10/12/11
		Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC	10/12/11	10/12/11
		Surr: Toluene-d8	100	(70-130) %REC	10/12/11	10/12/11
		Surr: 4-Bromofluorobenzene	100	(70-130) %REC	10/12/11	10/12/11
Client ID :	<b>EXP-1</b>					
Lab ID :	CHH11101140-07A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/12/11	10/13/11
Date Sampled	10/10/11 08:59	Surr: Nonane	118	(49-145) %REC	10/12/11	10/13/11
		TPH-P (GRO)	ND	0.050 mg/L	10/12/11	10/12/11
		Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC	10/12/11	10/12/11
		Surr: Toluene-d8	102	(70-130) %REC	10/12/11	10/12/11
		Surr: 4-Bromofluorobenzene	99	(70-130) %REC	10/12/11	10/12/11



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Client ID : **EXP-2**

Lab ID :	CHH11101140-08A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/12/11	10/13/11
Date Sampled	10/10/11 09:55	Surr: Nonane	105	(49-145) %REC	10/12/11	10/13/11
		TPH-P (GRO)	ND	0.050 mg/L	10/12/11	10/12/11
		Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC	10/12/11	10/12/11
		Surr: Toluene-d8	101	(70-130) %REC	10/12/11	10/12/11
		Surr: 4-Bromofluorobenzene	98	(70-130) %REC	10/12/11	10/12/11

Client ID : **EXP-3**

Lab ID :	CHH11101140-09A	TPH-E (Fuel Product)	0.14	0.10 mg/L	10/12/11	10/13/11
Date Sampled	10/10/11 08:13	Surr: Nonane	116	(49-145) %REC	10/12/11	10/13/11
		TPH-P (GRO)	ND	0.050 mg/L	10/12/11	10/12/11
		Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC	10/12/11	10/12/11
		Surr: Toluene-d8	101	(70-130) %REC	10/12/11	10/12/11
		Surr: 4-Bromofluorobenzene	100	(70-130) %REC	10/12/11	10/12/11

C = Reported concentration includes additional compounds uncharacteristic of common fuels and lubricants.

Gasoline Range Organics (GRO) C4-C13

ND = Not Detected

*Roger Scholl*      *Randy Gardner*      *Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

10/19/11

**Report Date**



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP/DFSP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101140-01A  
Client I.D. Number: GMW-O-1

Sampled: 10/10/11 14:20  
Received: 10/11/11  
Extracted: 10/12/11  
Analyzed: 10/12/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Styrene	ND	1.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	ND	0.50 µg/L
7 Acetone	ND	10 µg/L	51 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,2,3-Trichloropropane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 Isopropylbenzene	ND	1.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Bromobenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 n-Propylbenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 4-Chlorotoluene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 2-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 1,3,5-Trimethylbenzene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 tert-Butylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 1,2,4-Trimethylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 sec-Butylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 1,3-Dichlorobenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,4-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 4-Isopropyltoluene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 1,2-Dichlorobenzene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 n-Butylbenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2,4-Trichlorobenzene	ND	2.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 Naphthalene	ND	10 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 1,2,3-Trichlorobenzene	ND	2.0 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	101	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	101	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	99	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

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10/19/11

Report Date

Page 1 of 1



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP/DFSP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101140-02A  
Client I.D. Number: GMW-O-2

Sampled: 10/10/11 14:50  
Received: 10/11/11  
Extracted: 10/12/11  
Analyzed: 10/12/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Styrene	ND	1.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	ND	0.50 µg/L
7 Acetone	ND	10 µg/L	51 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,2,3-Trichloropropane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 Isopropylbenzene	ND	1.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Bromobenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 n-Propylbenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 4-Chlorotoluene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 2-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 1,3,5-Trimethylbenzene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 tert-Butylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 1,2,4-Trimethylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 sec-Butylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 1,3-Dichlorobenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,4-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 4-Isopropyltoluene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 1,2-Dichlorobenzene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 n-Butylbenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2,4-Trichlorobenzene	ND	2.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 Naphthalene	ND	10 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 1,2,3-Trichlorobenzene	ND	2.0 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	99	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	100	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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*PS*

10/19/11

Report Date

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# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP/DFSP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101140-03A  
Client I.D. Number: GMW-O-3

Sampled: 10/10/11 15:20  
Received: 10/11/11  
Extracted: 10/12/11  
Analyzed: 10/12/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Styrene	ND	1.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	ND	0.50 µg/L
7 Acetone	ND	10 µg/L	51 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,2,3-Trichloropropane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 Isopropylbenzene	ND	1.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Bromobenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 n-Propylbenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 4-Chlorotoluene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 2-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 1,3,5-Trimethylbenzene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 tert-Butylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 1,2,4-Trimethylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 sec-Butylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 1,3-Dichlorobenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,4-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 4-Isopropyltoluene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 1,2-Dichlorobenzene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 n-Butylbenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2,4-Trichlorobenzene	ND	2.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 Naphthalene	ND	10 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 1,2,3-Trichlorobenzene	ND	2.0 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	106	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	98	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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*PLG*

10/19/11

Report Date

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# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP/DFSP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101140-04A  
Client I.D. Number: EXP-5

Sampled: 10/10/11 14:47  
Received: 10/11/11  
Extracted: 10/12/11  
Analyzed: 10/12/11

### Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Styrene	ND	1.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	ND	0.50 µg/L
7 Acetone	ND	10 µg/L	51 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,2,3-Trichloropropane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 Isopropylbenzene	ND	1.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Bromobenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 n-Propylbenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 4-Chlorotoluene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 2-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 1,3,5-Trimethylbenzene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 tert-Butylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 1,2,4-Trimethylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 sec-Butylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 1,3-Dichlorobenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,4-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 4-Isopropyltoluene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 1,2-Dichlorobenzene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 n-Butylbenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2,4-Trichlorobenzene	ND	2.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 Naphthalene	ND	10 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 1,2,3-Trichlorobenzene	ND	2.0 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	100	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	100	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

  
10/19/11

Report Date



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP/DFSP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101140-05A  
Client I.D. Number: TB-1

Sampled: 10/10/11 07:00  
Received: 10/11/11  
Extracted: 10/12/11  
Analyzed: 10/12/11

### Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Styrene	ND	1.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	ND	0.50 µg/L
7 Acetone	ND	10 µg/L	51 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,2,3-Trichloropropane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 Isopropylbenzene	ND	1.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Bromobenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 n-Propylbenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 4-Chlorotoluene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 2-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 1,3,5-Trimethylbenzene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 tert-Butylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 1,2,4-Trimethylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 sec-Butylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 1,3-Dichlorobenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,4-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 4-Isopropyltoluene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 1,2-Dichlorobenzene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 n-Butylbenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2,4-Trichlorobenzene	ND	2.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 Naphthalene	ND	10 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 1,2,3-Trichlorobenzene	ND	2.0 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	101	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	100	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	99	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

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*RS*

10/19/11

Report Date

Page 1 of 1





# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP/DFSP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101140-06A  
Client I.D. Number: EB-1

Sampled: 10/10/11 14:50  
Received: 10/11/11  
Extracted: 10/12/11  
Analyzed: 10/12/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Styrene	ND	1.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	ND	0.50 µg/L
7 Acetone	ND	10 µg/L	51 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,2,3-Trichloropropane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 Isopropylbenzene	ND	1.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Bromobenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 n-Propylbenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 4-Chlorotoluene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 2-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 1,3,5-Trimethylbenzene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 tert-Butylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 1,2,4-Trimethylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 sec-Butylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 1,3-Dichlorobenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,4-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 4-Isopropyltoluene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 1,2-Dichlorobenzene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 n-Butylbenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2,4-Trichlorobenzene	ND	2.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 Naphthalene	ND	10 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 1,2,3-Trichlorobenzene	ND	2.0 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	100	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	100	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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*PS*  
10/19/11

Report Date

Page 1 of 1



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP/DFSP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101140-07A  
Client I.D. Number: EXP-1

Sampled: 10/10/11 08:59  
Received: 10/11/11  
Extracted: 10/12/11  
Analyzed: 10/12/11

### Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Styrene	ND	1.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	ND	0.50 µg/L
7 Acetone	ND	10 µg/L	51 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,2,3-Trichloropropane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 Isopropylbenzene	ND	1.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Bromobenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 n-Propylbenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 4-Chlorotoluene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 2-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 1,3,5-Trimethylbenzene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 tert-Butylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 1,2,4-Trimethylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 sec-Butylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 1,3-Dichlorobenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,4-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 4-Isopropyltoluene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 1,2-Dichlorobenzene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 n-Butylbenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2,4-Trichlorobenzene	ND	2.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 Naphthalene	ND	10 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 1,2,3-Trichlorobenzene	ND	2.0 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	102	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	99	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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*RSJ*

10/19/11

Report Date



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP/DFSP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101140-08A  
Client I.D. Number: EXP-2

Sampled: 10/10/11 09:55  
Received: 10/11/11  
Extracted: 10/12/11  
Analyzed: 10/12/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Styrene	ND	1.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	ND	0.50 µg/L
7 Acetone	ND	10 µg/L	51 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,2,3-Trichloropropane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 Isopropylbenzene	ND	1.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Bromobenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 n-Propylbenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 4-Chlorotoluene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 2-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 1,3,5-Trimethylbenzene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 tert-Butylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 1,2,4-Trimethylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 sec-Butylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 1,3-Dichlorobenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,4-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 4-Isopropyltoluene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 1,2-Dichlorobenzene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 n-Butylbenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2,4-Trichlorobenzene	ND	2.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 Naphthalene	ND	10 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 1,2,3-Trichlorobenzene	ND	2.0 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	101	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	98	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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10/19/11

Report Date

Page 1 of 1



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP/DFSP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101140-09A  
Client I.D. Number: EXP-3

Sampled: 10/10/11 08:13  
Received: 10/11/11  
Extracted: 10/12/11  
Analyzed: 10/12/11

### Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Styrene	ND	1.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	ND	0.50 µg/L
7 Acetone	ND	10 µg/L	51 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,2,3-Trichloropropane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 Isopropylbenzene	ND	1.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Bromobenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 n-Propylbenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 4-Chlorotoluene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 2-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 1,3,5-Trimethylbenzene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 tert-Butylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 1,2,4-Trimethylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 sec-Butylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 1,3-Dichlorobenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,4-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 4-Isopropyltoluene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 1,2-Dichlorobenzene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 n-Butylbenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2,4-Trichlorobenzene	ND	2.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 Naphthalene	ND	10 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 1,2,3-Trichlorobenzene	ND	2.0 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	101	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	100	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

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10/19/11

Report Date

Page 1 of 1



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## VOC Sample Preservation Report

**Work Order:** CHH11101140

**Job:** KMED/DFSP Norwalk

Alpha's Sample ID	Client's Sample ID	Matrix	pH
11101140-01A	GMW-O-1	Aqueous	2
11101140-02A	GMW-O-2	Aqueous	2
11101140-03A	GMW-O-3	Aqueous	2
11101140-04A	EXP-5	Aqueous	2
11101140-05A	TB-1	Aqueous	2
11101140-06A	EB-1	Aqueous	2
11101140-07A	EXP-1	Aqueous	2
11101140-08A	EXP-2	Aqueous	2
11101140-09A	EXP-3	Aqueous	2

**10/19/11**  
**Report Date**



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:  
18-Oct-11

## QC Summary Report

Work Order:  
11101140

### Method Blank

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (Fuel Product)	ND	0.1								
Surr: Nonane	0.159		0.15		106	49	145			

### Laboratory Control Spike

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.41	0.05	2.5		97	70	130			
Surr: Nonane	0.155		0.15		103	49	145			

### Sample Matrix Spike

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.28	0.05	2.5	0	91	53	150			
Surr: Nonane	0.078		0.15		52	49	145			

### Sample Matrix Spike Duplicate

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.29	0.05	2.5	0	92	53	150	2.277	0.7(47)	
Surr: Nonane	0.144		0.15		96	49	145			

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:  
18-Oct-11

## QC Summary Report

Work Order:  
11101140

### Method Blank

Method Blank		Type	Test Code: EPA Method SW8015B/C								
File ID: 11101207.D		MBLK	Batch ID: MS15W1012B			Analysis Date: 10/12/2011 10:21					
Sample ID:	MBLK MS15W1012B	Units : mg/L	Run ID: MSD_15_111012A			Prep Date: 10/12/2011 10:21					
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual	
TPH-P (GRO)	ND	0.05									
Surr: 1,2-Dichloroethane-d4	0.00984		0.01		98	70	130				
Surr: Toluene-d8	0.01		0.01		100	70	130				
Surr: 4-Bromofluorobenzene	0.00993		0.01		99	70	130				

### Laboratory Control Spike

Laboratory Control Spike		Type	Test Code: EPA Method SW8015B/C								
File ID: 11101203.D		LCS	Batch ID: MS15W1012B			Analysis Date: 10/12/2011 08:45					
Sample ID:	GLCS MS15W1012B	Units : mg/L	Run ID: MSD_15_111012A			Prep Date: 10/12/2011 08:45					
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual	
TPH-P (GRO)	0.395	0.05	0.4		99	70	130				
Surr: 1,2-Dichloroethane-d4	0.0092		0.01		92	70	130				
Surr: Toluene-d8	0.01		0.01		100	70	130				
Surr: 4-Bromofluorobenzene	0.0103		0.01		103	70	130				

### Sample Matrix Spike

Sample Matrix Spike		Type	Test Code: EPA Method SW8015B/C								
File ID: 11101211.D		MS	Batch ID: MS15W1012B			Analysis Date: 10/12/2011 11:47					
Sample ID:	11101140-01AGS	Units : mg/L	Run ID: MSD_15_111012A			Prep Date: 10/12/2011 11:47					
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual	
TPH-P (GRO)	1.97	0.25	2		0	98	51	144			
Surr: 1,2-Dichloroethane-d4	0.0491		0.05		98	70	130				
Surr: Toluene-d8	0.0492		0.05		98	70	130				
Surr: 4-Bromofluorobenzene	0.0504		0.05		101	70	130				

### Sample Matrix Spike Duplicate

Sample Matrix Spike Duplicate		Type	Test Code: EPA Method SW8015B/C								
File ID: 11101212.D		MSD	Batch ID: MS15W1012B			Analysis Date: 10/12/2011 12:09					
Sample ID:	11101140-01AGSD	Units : mg/L	Run ID: MSD_15_111012A			Prep Date: 10/12/2011 12:09					
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual	
TPH-P (GRO)	2.07	0.25	2		0	104	51	144	1.967	5.3(29)	
Surr: 1,2-Dichloroethane-d4	0.0484		0.05		97	70	130				
Surr: Toluene-d8	0.05		0.05		100	70	130				
Surr: 4-Bromofluorobenzene	0.0509		0.05		102	70	130				

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.







# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:  
18-Oct-11

## QC Summary Report

Work Order:  
11101140

n-Butylbenzene	ND	1				
1,2-Dibromo-3-chloropropane (DBCP)	ND	5				
1,2,4-Trichlorobenzene	ND	2				
Naphthalene	ND	10				
1,2,3-Trichlorobenzene	ND	2				
Surr: 1,2-Dichloroethane-d4	9.84	10	98	70	130	
Surr: Toluene-d8	10	10	100	70	130	
Surr: 4-Bromofluorobenzene	9.93	10	99	70	130	



# Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:  
18-Oct-11

## QC Summary Report

Work Order:  
11101140

### Laboratory Control Spike

Type LCS

Test Code: EPA Method SW8260B

File ID: 11101204.D

Batch ID: MS15W1012A

Analysis Date: 10/12/2011 09:07

Sample ID: LCS MS15W1012A

Units : µg/L

Run ID: MSD\_15\_111012A

Prep Date: 10/12/2011 09:07

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	10.6	1	10		106	37	137			
Chloromethane	13	2	10		130	43	140			
Vinyl chloride	10.6	1	10		106	80	120			
Chloroethane	12.5	1	10		125	43	141			
Bromomethane	9.42	2	10		94	11	160			
Trichlorofluoromethane	11.7	1	10		117	40	148			
Acetone	293	10	200		146	36	171			
1,1-Dichloroethene	10.1	1	10		101	80	120			
Tertiary Butyl Alcohol (TBA)	108	10	100		108	44	156			
Dichloromethane	9.79	2	10		98	69	130			
Freon-113	11	1	10		110	70	137			
trans-1,2-Dichloroethene	10.4	1	10		104	70	130			
Methyl tert-butyl ether (MTBE)	11.3	0.5	10		113	65	140			
1,1-Dichloroethane	10.5	1	10		105	70	130			
2-Butanone (MEK)	272	10	200		136	23	182			
Di-isopropyl Ether (DIPE)	10.6	1	10		106	70	130			
cis-1,2-Dichloroethene	10.3	1	10		103	70	130			
Bromochloromethane	10.8	1	10		108	70	132			
Chloroform	10.8	1	10		108	80	120			
Ethyl Tertiary Butyl Ether (ETBE)	10.5	1	10		105	65	139			
2,2-Dichloropropane	11.1	1	10		111	68	154			
1,2-Dichloroethane	11.3	1	10		113	70	132			
1,1,1-Trichloroethane	11	1	10		110	70	135			
1,1-Dichloropropene	11.1	1	10		111	70	130			
Carbon tetrachloride	10.5	1	10		105	61	148			
Benzene	10.5	0.5	10		105	70	130			
Tertiary Amyl Methyl Ether (TAME)	10.9	1	10		109	68	134			
Dibromomethane	10.8	1	10		108	70	130			
1,2-Dichloropropane	9.99	1	10		99.9	80	120			
Trichloroethene	10.5	1	10		105	65	144			
Bromodichloromethane	10.2	1	10		102	50	157			
4-Methyl-2-pentanone (MIBK)	29.6	2.5	25		118	20	182			
cis-1,3-Dichloropropene	10.1	1	10		101	70	131			
trans-1,3-Dichloropropene	9.58	1	10		96	70	136			
1,1,2-Trichloroethane	10.4	1	10		104	70	130			
Toluene	10.1	0.5	10		101	80	120			
1,3-Dichloropropane	10	1	10		100	70	130			
2-Hexanone	109	5	100		109	20	182			
Dibromochloromethane	8.42	1	10		84	42	155			
1,2-Dibromoethane (EDB)	20.3	2	20		102	70	130			
Tetrachloroethene	10.2	1	10		102	70	130			
1,1,1,2-Tetrachloroethane	10	1	10		100	70	130			
Chlorobenzene	9.88	1	10		99	70	130			
Ethylbenzene	10.7	0.5	10		107	80	120			
m,p-Xylene	10.5	0.5	10		105	70	130			
Bromoform	8.06	1	10		81	68	143			
Styrene	8.99	1	10		90	64	153			
o-Xylene	10.5	0.5	10		105	70	130			
1,1,2,2-Tetrachloroethane	9.41	1	10		94	70	130			
1,2,3-Trichloropropane	20.3	2	20		102	70	130			
Isopropylbenzene	9.67	1	10		97	68	138			
Bromobenzene	10.1	1	10		101	70	130			
n-Propylbenzene	9.92	1	10		99	70	133			
4-Chlorotoluene	9.52	1	10		95	70	130			
2-Chlorotoluene	9.46	1	10		95	70	130			
1,3,5-Trimethylbenzene	10.1	1	10		101	70	134			
tert-Butylbenzene	9.93	1	10		99	55	147			
1,2,4-Trimethylbenzene	10.3	1	10		103	70	134			
sec-Butylbenzene	9.8	1	10		98	70	135			
1,3-Dichlorobenzene	10.3	1	10		103	70	130			
1,4-Dichlorobenzene	9.48	1	10		95	70	130			
4-Isopropyltoluene	10.2	1	10		102	70	132			
1,2-Dichlorobenzene	9.44	1	10		94	70	130			
n-Butylbenzene	10.3	1	10		103	70	134			
1,2-Dibromo-3-chloropropane (DBCP)	48.4	3	50		97	67	130			



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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:  
18-Oct-11

## QC Summary Report

Work Order:  
11101140

1,2,4-Trichlorobenzene	9.32	2	10	93	67	132
Naphthalene	8.92	2	10	89	38	154
1,2,3-Trichlorobenzene	9.81	2	10	98	56	137
Surr: 1,2-Dichloroethane-d4	9.39		10	94	70	130
Surr: Toluene-d8	10.1		10	101	70	130
Surr: 4-Bromofluorobenzene	10.6		10	106	70	130



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Date:  
18-Oct-11

## QC Summary Report

Work Order:  
11101140

### Sample Matrix Spike

File ID: 11101209.D

Type MS

Test Code: EPA Method SW8260B

Sample ID: 11101140-01AMS

Units : µg/L

Batch ID: MS15W1012A

Analysis Date: 10/12/2011 11:04

Run ID: MSD\_15\_111012A

Prep Date: 10/12/2011 11:04

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	42.7	2.5	50	0	85	21	138			
Chloromethane	57	10	50	0	114	23	144			
Vinyl chloride	53.1	2.5	50	0	106	49	136			
Chloroethane	60.7	2.5	50	0	121	21	159			
Bromomethane	39.8	10	50	0	80	10	174			
Trichlorofluoromethane	61.4	2.5	50	0	123	32	154			
Acetone	712	50	1000	0	71	10	171			
1,1-Dichloroethene	50.1	2.5	50	0	100	64	130			
Tertiary Butyl Alcohol (TBA)	636	25	500	0	127	41	157			
Dichloromethane	50.2	10	50	0	100	69	130			
Freon-113	56.3	2.5	50	0	113	55	141			
trans-1,2-Dichloroethene	51.2	2.5	50	0	102	63	130			
Methyl tert-butyl ether (MTBE)	58.8	1.3	50	0	118	47	150			
1,1-Dichloroethane	52.5	2.5	50	0	105	66	130			
2-Butanone (MEK)	1020	50	1000	0	102	23	182			
Di-isopropyl Ether (DIPE)	54.7	2.5	50	0	109	59	139			
cis-1,2-Dichloroethene	52.3	2.5	50	0	105	70	130			
Bromochloromethane	54.6	2.5	50	0	109	70	132			
Chloroform	54.5	2.5	50	0	109	70	130			
Ethyl Tertiary Butyl Ether (ETBE)	54.5	2.5	50	0	109	59	182			
2,2-Dichloropropane	54.8	2.5	50	0	110	38	154			
1,2-Dichloroethane	59.5	2.5	50	0	119	65	134			
1,1,1-Trichloroethane	55.8	2.5	50	0	112	65	136			
1,1-Dichloropropene	55.8	2.5	50	0	112	68	132			
Carbon tetrachloride	53.3	2.5	50	0	107	58	148			
Benzene	53	1.3	50	0	106	59	138			
Tertiary Amyl Methyl Ether (TAME)	58.6	2.5	50	0	117	63	135			
Dibromomethane	57	2.5	50	0	114	70	130			
1,2-Dichloropropane	51.6	2.5	50	0	103	70	131			
Trichloroethene	52.8	2.5	50	0	106	65	144			
Bromodichloromethane	53.6	2.5	50	0	107	50	157			
4-Methyl-2-pentanone (MIBK)	154	13	125	0	123	20	182			
cis-1,3-Dichloropropene	51.6	2.5	50	0	103	63	131			
trans-1,3-Dichloropropene	49.9	2.5	50	0	99.8	65	136			
1,1,2-Trichloroethane	56.1	2.5	50	0	112	70	131			
Toluene	49.5	1.3	50	0	99	68	130			
1,3-Dichloropropane	50.8	2.5	50	0	102	70	130			
2-Hexanone	362	25	500	0	72	20	182			
Dibromochloromethane	42.8	2.5	50	0	86	42	155			
1,2-Dibromoethane (EDB)	103	5	100	0	103	70	130			
Tetrachloroethene	49.8	2.5	50	0	100	65	130			
1,1,1,2-Tetrachloroethane	50.4	2.5	50	0	101	70	130			
Chlorobenzene	49.3	2.5	50	0	99	70	130			
Ethylbenzene	53.4	1.3	50	0	107	68	130			
m,p-Xylene	52.2	1.3	50	0	104	68	131			
Bromoform	41.8	2.5	50	0	84	65	143			
Styrene	45	2.5	50	0	90	59	153			
o-Xylene	52.4	1.3	50	0	105	70	130			
1,1,2,2-Tetrachloroethane	49.4	2.5	50	0	99	67	130			
1,2,3-Trichloropropane	107	10	100	0	107	70	130			
Isopropylbenzene	47.6	2.5	50	0	95	55	138			
Bromobenzene	49.7	2.5	50	0	99	70	130			
n-Propylbenzene	49.1	2.5	50	0	98	67	133			
4-Chlorotoluene	47	2.5	50	0	94	70	130			
2-Chlorotoluene	47	2.5	50	0	94	70	130			
1,3,5-Trimethylbenzene	50.5	2.5	50	0	101	67	134			
tert-Butylbenzene	49.2	2.5	50	0	98	55	147			
1,2,4-Trimethylbenzene	50.5	2.5	50	0	101	65	135			
sec-Butylbenzene	48.3	2.5	50	0	97	68	135			
1,3-Dichlorobenzene	51.1	2.5	50	0	102	70	130			
1,4-Dichlorobenzene	47.3	2.5	50	0	95	70	130			
4-Isopropyltoluene	50.3	2.5	50	0	101	68	132			
1,2-Dichlorobenzene	47	2.5	50	0	94	70	130			
n-Butylbenzene	51.5	2.5	50	0	103	62	134			
1,2-Dibromo-3-chloropropane (DBCP)	251	15	250	0	100	64	130			



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**Date:**

18-Oct-11

## QC Summary Report

**Work Order:**

11101140

1,2,4-Trichlorobenzene	46	10	50	0	92	62	133
Naphthalene	43.6	10	50	0	87	32	166
1,2,3-Trichlorobenzene	47.2	10	50	0	94	55	138
Surr: 1,2-Dichloroethane-d4	48.6		50		97	70	130
Surr: Toluene-d8	48.5		50		97	70	130
Surr: 4-Bromofluorobenzene	51.7		50		103	70	130



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Date:  
18-Oct-11

## QC Summary Report

Work Order:  
11101140

### Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8260B**

File ID: **11101210.D**

Batch ID: **MS15W1012A**

Analysis Date: **10/12/2011 11:26**

Sample ID: **11101140-01AMSD**

Units : **µg/L**

Run ID: **MSD\_15\_111012A**

Prep Date: **10/12/2011 11:26**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	39.8	2.5	50	0	80	21	138	42.67	6.9(33)	
Chloromethane	53.5	10	50	0	107	23	144	56.99	6.4(27)	
Vinyl chloride	47.8	2.5	50	0	96	49	136	53.1	10.5(21)	
Chloroethane	55.4	2.5	50	0	111	21	159	60.66	9.1(40)	
Bromomethane	39.5	10	50	0	79	10	174	39.77	0.8(40)	
Trichlorofluoromethane	56.5	2.5	50	0	113	32	154	61.44	8.3(37)	
Acetone	658	50	1000	0	66	10	171	712	7.9(23)	
1,1-Dichloroethene	45.9	2.5	50	0	92	64	130	50.09	8.8(21)	
Tertiary Butyl Alcohol (TBA)	622	25	500	0	124	41	157	636	2.2(30)	
Dichloromethane	46.1	10	50	0	92	69	130	50.21	8.6(20)	
Freon-113	51.6	2.5	50	0	103	55	141	56.29	8.7(40)	
trans-1,2-Dichloroethene	47.3	2.5	50	0	95	63	130	51.17	7.9(20)	
Methyl tert-butyl ether (MTBE)	55.2	1.3	50	0	110	47	150	58.84	6.5(40)	
1,1-Dichloroethane	48.9	2.5	50	0	98	66	130	52.54	7.3(20)	
2-Butanone (MEK)	937	50	1000	0	94	23	182	1018	8.3(22)	
Di-isopropyl Ether (DIPE)	50.6	2.5	50	0	101	59	139	54.71	7.9(20)	
cis-1,2-Dichloroethene	48	2.5	50	0	96	70	130	52.31	8.6(20)	
Bromochloromethane	51.3	2.5	50	0	103	70	132	54.62	6.3(20)	
Chloroform	50.7	2.5	50	0	101	70	130	54.49	7.3(20)	
Ethyl Tertiary Butyl Ether (ETBE)	50.6	2.5	50	0	101	59	182	54.54	7.4(40)	
2,2-Dichloropropane	51.3	2.5	50	0	103	38	154	54.78	6.6(22)	
1,2-Dichloroethane	54	2.5	50	0	108	65	134	59.49	9.7(20)	
1,1,1-Trichloroethane	51.7	2.5	50	0	103	65	136	55.81	7.6(20)	
1,1-Dichloropropene	51.4	2.5	50	0	103	68	132	55.83	8.3(20)	
Carbon tetrachloride	49.9	2.5	50	0	99.7	58	148	53.34	6.8(20)	
Benzene	48.6	1.3	50	0	97	59	138	53	8.6(21)	
Tertiary Amyl Methyl Ether (TAME)	53.1	2.5	50	0	106	63	135	58.58	9.8(40)	
Dibromomethane	52.5	2.5	50	0	105	70	130	57.03	8.2(20)	
1,2-Dichloropropane	47.5	2.5	50	0	95	70	131	51.64	8.4(20)	
Trichloroethene	48.4	2.5	50	0	97	65	144	52.75	8.5(20)	
Bromodichloromethane	49.2	2.5	50	0	98	50	157	53.55	8.5(20)	
4-Methyl-2-pentanone (MIBK)	143	13	125	0	114	20	182	153.9	7.5(20)	
cis-1,3-Dichloropropene	47.5	2.5	50	0	95	63	131	51.57	8.2(20)	
trans-1,3-Dichloropropene	46.1	2.5	50	0	92	65	136	49.89	8.0(20)	
1,1,2-Trichloroethane	51.6	2.5	50	0	103	70	131	56.13	8.4(20)	
Toluene	45.9	1.3	50	0	92	68	130	49.49	7.5(20)	
1,3-Dichloropropane	47.2	2.5	50	0	94	70	130	50.84	7.3(20)	
2-Hexanone	344	25	500	0	69	20	182	362.2	5.1(20)	
Dibromochloromethane	40.2	2.5	50	0	80	42	155	42.81	6.2(20)	
1,2-Dibromoethane (EDB)	95.5	5	100	0	96	70	130	102.8	7.4(20)	
Tetrachloroethene	46.1	2.5	50	0	92	65	130	49.75	7.6(20)	
1,1,1,2-Tetrachloroethane	47.1	2.5	50	0	94	70	130	50.37	6.7(20)	
Chlorobenzene	45.5	2.5	50	0	91	70	130	49.34	8.0(20)	
Ethylbenzene	49.3	1.3	50	0	99	68	130	53.38	8.0(20)	
m,p-Xylene	47.6	1.3	50	0	95	68	131	52.2	9.1(20)	
Bromoform	39.6	2.5	50	0	79	65	143	41.77	5.2(20)	
Styrene	41.7	2.5	50	0	83	59	153	44.98	7.5(37)	
o-Xylene	48.4	1.3	50	0	97	70	130	52.44	7.9(20)	
1,1,2,2-Tetrachloroethane	47	2.5	50	0	94	67	130	49.44	5.1(20)	
1,2,3-Trichloropropane	102	10	100	0	102	70	130	107.3	5.4(20)	
Isopropylbenzene	43.4	2.5	50	0	87	55	138	47.55	9.2(20)	
Bromobenzene	45.8	2.5	50	0	92	70	130	49.68	8.2(20)	
n-Propylbenzene	45.1	2.5	50	0	90	67	133	49.11	8.5(30)	
4-Chlorotoluene	43.7	2.5	50	0	87	70	130	47.04	7.3(20)	
2-Chlorotoluene	43.2	2.5	50	0	86	70	130	46.98	8.4(20)	
1,3,5-Trimethylbenzene	46.4	2.5	50	0	93	67	134	50.54	8.6(21)	
tert-Butylbenzene	44.9	2.5	50	0	90	55	147	49.16	9.0(20)	
1,2,4-Trimethylbenzene	46.3	2.5	50	0	93	65	135	50.45	8.6(25)	
sec-Butylbenzene	44.6	2.5	50	0	89	68	135	48.33	8.1(20)	
1,3-Dichlorobenzene	47.1	2.5	50	0	94	70	130	51.06	8.0(20)	
1,4-Dichlorobenzene	43.7	2.5	50	0	87	70	130	47.3	7.8(20)	
4-Isopropyltoluene	46.3	2.5	50	0	93	68	132	50.28	8.3(20)	
1,2-Dichlorobenzene	43.7	2.5	50	0	87	70	130	47.03	7.3(20)	
n-Butylbenzene	47.1	2.5	50	0	94	62	134	51.49	8.8(21)	
1,2-Dibromo-3-chloropropane (DBCP)	238	15	250	0	95	64	130	251	5.3(20)	



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:  
18-Oct-11

## QC Summary Report

Work Order:  
11101140

1,2,4-Trichlorobenzene	43.6	10	50	0	87	62	133	45.96	5.4(29)
Naphthalene	42.4	10	50	0	85	32	166	43.57	2.7(40)
1,2,3-Trichlorobenzene	45.6	10	50	0	91	55	138	47.21	3.4(36)
Surr: 1,2-Dichloroethane-d4	48.8		50		98	70	130		
Surr: Toluene-d8	49.1		50		98	70	130		
Surr: 4-Bromofluorobenzene	50.9		50		102	70	130		

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

# CHAIN-OF-CUSTODY RECORD

# CA

## Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
 TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : CHHLL1101140  
 Report Due By : 5:00 PM On : 20-Oct-11

Client:  
 CH2M Hill  
 1000 Wishnie Boulevard  
 21st Floor  
 Los Angeles, CA 90017

Report Attention: Daniel Jablonski (213) 228-8271 x  
 Daniel Jablonski (213) 228-8271 x  
 Email Address: daniel.jablonski@ch2m.com  
 Matthew Mayry (213) 228-8271 x  
 mathew.mayry@ch2m.com

EDD Required : Yes

Sampled by : S. Patel

PO :  
 Client's COC # : none = Final Rpt. MBLK, LCS, MS/MSD with Surrogates  
 Job : KMEP/DFSP Norwalk  
 Cooler Temp 0 °C Samples Received 11-Oct-11 Date Printed 11-Oct-11

QC Level : S3

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles Alpha Sub TAT	Requested Tests			Sample Remarks
				TPHE_W	TPHP_W	VOC_W	
CHH11101140-01A	GMW-O-1	AQ 10/10/11 14:20	8 0 7	TPHE(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	
CHH11101140-02A	GMW-O-2	AQ 10/10/11 14:50	8 0 7	TPHE(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	
CHH11101140-03A	GMW-O-3	AQ 10/10/11 15:20	8 0 7	TPHE(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	
CHH11101140-04A	EXP-5	AQ 10/10/11 14:47	8 0 7	TPHE(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	
CHH11101140-05A	TB-1	AQ 10/10/11 07:00	2 0 7			8260/OXYS	Reno Trip Blank 9/6/11
CHH11101140-06A	EB-1	AQ 10/10/11 14:50	8 0 7	TPHE(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	
CHH11101140-07A	EXP-1	AQ 10/10/11 08:59	8 0 7	TPHE(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	
CHH11101140-08A	EXP-2	AQ 10/10/11 09:55	8 0 7	TPHE(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	
CHH11101140-09A	EXP-3	AQ 10/10/11 08:13	8 0 7	TPHE(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	

Comments: Security seals intact. Frozen Ice Analytcs: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values.

Logged in by: Sara Coffee Signature: [Signature] Print Name: Sara Coffee Company: Alpha Analytical, Inc. Date/Time: 10/11/11 10:55

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.  
 The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.  
 Matrix Type : AQL(Aqueous) AR(Air) SO(Soil) WSW(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orto T-Tedar B-Brass P-Plastic OT-Other



# BLAINE

TECH SERVICES, INC.

1680 ROGERS AVENUE  
 SAN JOSE, CALIFORNIA 95112-1105  
 FAX (408) 573-7771  
 PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT

LAB

Alpha Analytical COC

1 of 1

Billing Information:  
 Kinder Morgan  
 1100 Town and Country Rd.  
 Orange CA 95112

Kinder Morgan Norwalk  
 Report to:  
 Dan Jablonski  
 CH2MHILL  
 1000 Wilshire Blvd 21st floor  
 Los Angeles, CA 90017

CHAIN OF CUSTODY

CLIENT

Kinder Morgan

SITE

DFSP Norwalk

15306 Norwalk Blvd, Norwalk

MATRIX CONTAINERS

SAMPLE I.D. DATE TIME MATRIX AQ= Water # Preservation Type

GAW-0-1 10-10-11 1420 AQ 8 HCl W04

GAW-0-2 1450 8 HCl W04

GMS-0-3 1520 8 HCl W04

EXP-5 1447 2 HCl W04

TG-1 0700 8 HCl W04

EG-1 1452 8 HCl W04

EXP-1 0854 8 HCl W04

EXP-2 0905 8 HCl W04

EXP-3 0813 8 HCl W04

SAMPLING DATE TIME SAMPLING PERFORMED BY

COMPLETED 10-10-11 1545 S.H.I. Patel

RELEASED BY H. Pugh

RELEASED BY TIME RECEIVED BY TIME

Nicole (Sample Custodian) 1700 1615 Nicole (Sample Custodian) 10/10/11 1615

RELEASED BY TIME RECEIVED BY TIME

Anthony Stark 1700 1730 Anthony Stark 10/10/11 1730

SHIPPED VIA TIME SENT COOLER #

RESULTS NEEDED NO LATER THAN Standard

ADD'L INFORMATION STATUS CONDITION LAB SAMPLE #

CHILLIQUID-DIA

-03A

-03B

-04A

-05B

-06A

-07A

-08A

-09A



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135  
Date Received : 10/12/11

Job: KMEP NORWALK

Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B  
Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B

	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID :	<b>WCW-3</b>				
Lab ID :	CHH11101243-01A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/12/11
Date Sampled	10/11/11 12:47	Surr: Nonane	109	(49-145) %REC	10/12/11
		TPH-P (GRO)	ND	0.050 mg/L	10/13/11
		Surr: 1,2-Dichloroethane-d4	97	(70-130) %REC	10/13/11
		Surr: Toluene-d8	103	(70-130) %REC	10/13/11
		Surr: 4-Bromofluorobenzene	100	(70-130) %REC	10/13/11
Client ID :	<b>WCW-13</b>				
Lab ID :	CHH11101243-02A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/12/11
Date Sampled	10/11/11 13:17	Surr: Nonane	104	(49-145) %REC	10/12/11
		TPH-P (GRO)	ND	0.050 mg/L	10/13/11
		Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC	10/13/11
		Surr: Toluene-d8	99	(70-130) %REC	10/13/11
		Surr: 4-Bromofluorobenzene	99	(70-130) %REC	10/13/11
Client ID :	<b>GMW-O-4</b>				
Lab ID :	CHH11101243-03A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/12/11
Date Sampled	10/11/11 09:06	Surr: Nonane	109	(49-145) %REC	10/12/11
		TPH-P (GRO)	ND	0.050 mg/L	10/13/11
		Surr: 1,2-Dichloroethane-d4	102	(70-130) %REC	10/13/11
		Surr: Toluene-d8	102	(70-130) %REC	10/13/11
		Surr: 4-Bromofluorobenzene	99	(70-130) %REC	10/13/11
Client ID :	<b>GMW-O-4 (MID)</b>				
Lab ID :	CHH11101243-04A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/12/11
Date Sampled	10/11/11 09:39	Surr: Nonane	100	(49-145) %REC	10/12/11
		TPH-P (GRO)	ND	0.050 mg/L	10/13/11
		Surr: 1,2-Dichloroethane-d4	101	(70-130) %REC	10/13/11
		Surr: Toluene-d8	102	(70-130) %REC	10/13/11
		Surr: 4-Bromofluorobenzene	99	(70-130) %REC	10/13/11
Client ID :	<b>GMW-O-5</b>				
Lab ID :	CHH11101243-05A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/12/11
Date Sampled	10/11/11 10:09	Surr: Nonane	93	(49-145) %REC	10/12/11
		TPH-P (GRO)	ND	0.050 mg/L	10/13/11
		Surr: 1,2-Dichloroethane-d4	101	(70-130) %REC	10/13/11
		Surr: Toluene-d8	100	(70-130) %REC	10/13/11
		Surr: 4-Bromofluorobenzene	100	(70-130) %REC	10/13/11
Client ID :	<b>GMW-O-8</b>				
Lab ID :	CHH11101243-06A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/12/11
Date Sampled	10/11/11 11:18	Surr: Nonane	104	(49-145) %REC	10/12/11
		TPH-P (GRO)	ND	0.050 mg/L	10/13/11
		Surr: 1,2-Dichloroethane-d4	101	(70-130) %REC	10/13/11
		Surr: Toluene-d8	101	(70-130) %REC	10/13/11
		Surr: 4-Bromofluorobenzene	98	(70-130) %REC	10/13/11



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Client ID :	<b>GMW-O-9</b>						
Lab ID :	CHH11101243-07A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/12/11	10/12/11	
Date Sampled	10/11/11 11:55	Surr: Nonane	114	(49-145) %REC	10/12/11	10/12/11	
		TPH-P (GRO)	ND	0.050 mg/L	10/13/11	10/13/11	
		Surr: 1,2-Dichloroethane-d4	102	(70-130) %REC	10/13/11	10/13/11	
		Surr: Toluene-d8	101	(70-130) %REC	10/13/11	10/13/11	
		Surr: 4-Bromofluorobenzene	98	(70-130) %REC	10/13/11	10/13/11	
Client ID :	<b>GMW-O-16</b>						
Lab ID :	CHH11101243-08A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/12/11	10/12/11	
Date Sampled	10/11/11 14:27	Surr: Nonane	91	(49-145) %REC	10/12/11	10/12/11	
		TPH-P (GRO)	ND	0.050 mg/L	10/13/11	10/13/11	
		Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC	10/13/11	10/13/11	
		Surr: Toluene-d8	101	(70-130) %REC	10/13/11	10/13/11	
		Surr: 4-Bromofluorobenzene	98	(70-130) %REC	10/13/11	10/13/11	
Client ID :	<b>GMW-O-19</b>						
Lab ID :	CHH11101243-09A	TPH-E (Fuel Product)	0.11 +	0.10 mg/L	10/12/11	10/13/11	
Date Sampled	10/11/11 13:56	Surr: Nonane	113	(49-145) %REC	10/12/11	10/13/11	
		TPH-P (GRO)	ND	0.050 mg/L	10/13/11	10/13/11	
		Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC	10/13/11	10/13/11	
		Surr: Toluene-d8	101	(70-130) %REC	10/13/11	10/13/11	
		Surr: 4-Bromofluorobenzene	98	(70-130) %REC	10/13/11	10/13/11	
Client ID :	<b>GMW-SF-7</b>						
Lab ID :	CHH11101243-10A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/12/11	10/14/11	
Date Sampled	10/11/11 07:37	Surr: Nonane	111	(49-145) %REC	10/12/11	10/14/11	
		TPH-P (GRO)	ND	0.050 mg/L	10/13/11	10/13/11	
		Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC	10/13/11	10/13/11	
		Surr: Toluene-d8	100	(70-130) %REC	10/13/11	10/13/11	
		Surr: 4-Bromofluorobenzene	99	(70-130) %REC	10/13/11	10/13/11	
Client ID :	<b>GMW-SF-8</b>						
Lab ID :	CHH11101243-11A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/12/11	10/12/11	
Date Sampled	10/11/11 08:09	Surr: Nonane	107	(49-145) %REC	10/12/11	10/12/11	
		TPH-P (GRO)	ND	0.050 mg/L	10/13/11	10/13/11	
		Surr: 1,2-Dichloroethane-d4	101	(70-130) %REC	10/13/11	10/13/11	
		Surr: Toluene-d8	102	(70-130) %REC	10/13/11	10/13/11	
		Surr: 4-Bromofluorobenzene	99	(70-130) %REC	10/13/11	10/13/11	
Client ID :	<b>GMW-SF-9</b>						
Lab ID :	CHH11101243-12A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/12/11	10/12/11	
Date Sampled	10/11/11 15:11	Surr: Nonane	110	(49-145) %REC	10/12/11	10/12/11	
		TPH-P (GRO)	ND	0.050 mg/L	10/13/11	10/13/11	
		Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC	10/13/11	10/13/11	
		Surr: Toluene-d8	100	(70-130) %REC	10/13/11	10/13/11	
		Surr: 4-Bromofluorobenzene	99	(70-130) %REC	10/13/11	10/13/11	
Client ID :	<b>EB-2</b>						
Lab ID :	CHH11101243-14A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/12/11	10/12/11	
Date Sampled	10/11/11 08:15	Surr: Nonane	87	(49-145) %REC	10/12/11	10/12/11	
		TPH-P (GRO)	ND	0.050 mg/L	10/13/11	10/13/11	
		Surr: 1,2-Dichloroethane-d4	101	(70-130) %REC	10/13/11	10/13/11	
		Surr: Toluene-d8	101	(70-130) %REC	10/13/11	10/13/11	
		Surr: 4-Bromofluorobenzene	100	(70-130) %REC	10/13/11	10/13/11	
Client ID :	<b>MW-6</b>						
Lab ID :	CHH11101243-15A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/12/11	10/13/11	
Date Sampled	10/11/11 12:10	Surr: Nonane	102	(49-145) %REC	10/12/11	10/13/11	
		TPH-P (GRO)	ND	0.050 mg/L	10/13/11	10/13/11	
		Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC	10/13/11	10/13/11	
		Surr: Toluene-d8	101	(70-130) %REC	10/13/11	10/13/11	
		Surr: 4-Bromofluorobenzene	98	(70-130) %REC	10/13/11	10/13/11	



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<b>Client ID : MW-7</b>						
Lab ID :	CHH11101243-16A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/12/11	10/13/11
Date Sampled	10/11/11 13:35	Surr: Nonane	114	(49-145) %REC	10/12/11	10/13/11
		TPH-P (GRO)	ND	0.050 mg/L	10/13/11	10/13/11
		Surr: 1,2-Dichloroethane-d4	102	(70-130) %REC	10/13/11	10/13/11
		Surr: Toluene-d8	100	(70-130) %REC	10/13/11	10/13/11
		Surr: 4-Bromofluorobenzene	97	(70-130) %REC	10/13/11	10/13/11
<b>Client ID : MW-8</b>						
Lab ID :	CHH11101243-17A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/12/11	10/13/11
Date Sampled	10/11/11 14:35	Surr: Nonane	109	(49-145) %REC	10/12/11	10/13/11
		TPH-P (GRO)	ND	0.050 mg/L	10/13/11	10/13/11
		Surr: 1,2-Dichloroethane-d4	101	(70-130) %REC	10/13/11	10/13/11
		Surr: Toluene-d8	100	(70-130) %REC	10/13/11	10/13/11
		Surr: 4-Bromofluorobenzene	99	(70-130) %REC	10/13/11	10/13/11
<b>Client ID : MW-12</b>						
Lab ID :	CHH11101243-18A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/12/11	10/13/11
Date Sampled	10/11/11 10:55	Surr: Nonane	107	(49-145) %REC	10/12/11	10/13/11
		TPH-P (GRO)	ND	0.050 mg/L	10/13/11	10/13/11
		Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC	10/13/11	10/13/11
		Surr: Toluene-d8	101	(70-130) %REC	10/13/11	10/13/11
		Surr: 4-Bromofluorobenzene	98	(70-130) %REC	10/13/11	10/13/11
<b>Client ID : MW-19 (MID)</b>						
Lab ID :	CHH11101243-19A	TPH-E (Fuel Product)	0.13 *	0.10 mg/L	10/12/11	10/13/11
Date Sampled	10/11/11 14:00	Surr: Nonane	95	(49-145) %REC	10/12/11	10/13/11
		TPH-P (GRO)	ND	0.050 mg/L	10/13/11	10/13/11
		Surr: 1,2-Dichloroethane-d4	97	(70-130) %REC	10/13/11	10/13/11
		Surr: Toluene-d8	100	(70-130) %REC	10/13/11	10/13/11
		Surr: 4-Bromofluorobenzene	96	(70-130) %REC	10/13/11	10/13/11
<b>Client ID : MW-20 (MID)</b>						
Lab ID :	CHH11101243-20A	TPH-E (Fuel Product)	0.17 *	0.10 mg/L	10/12/11	10/13/11
Date Sampled	10/11/11 12:40	Surr: Nonane	108	(49-145) %REC	10/12/11	10/13/11
		TPH-P (GRO)	ND	0.050 mg/L	10/13/11	10/13/11
		Surr: 1,2-Dichloroethane-d4	96	(70-130) %REC	10/13/11	10/13/11
		Surr: Toluene-d8	100	(70-130) %REC	10/13/11	10/13/11
		Surr: 4-Bromofluorobenzene	96	(70-130) %REC	10/13/11	10/13/11
<b>Client ID : PW-3</b>						
Lab ID :	CHH11101243-21A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/12/11	10/13/11
Date Sampled	10/11/11 11:35	Surr: Nonane	115	(49-145) %REC	10/12/11	10/13/11
		TPH-P (GRO)	ND	0.050 mg/L	10/14/11	10/14/11
		Surr: 1,2-Dichloroethane-d4	101	(70-130) %REC	10/14/11	10/14/11
		Surr: Toluene-d8	100	(70-130) %REC	10/14/11	10/14/11
		Surr: 4-Bromofluorobenzene	99	(70-130) %REC	10/14/11	10/14/11
<b>Client ID : PW-1</b>						
Lab ID :	CHH11101243-22A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/12/11	10/13/11
Date Sampled	10/11/11 09:35	Surr: Nonane	70	(49-145) %REC	10/12/11	10/13/11
		TPH-P (GRO)	ND	0.050 mg/L	10/14/11	10/14/11
		Surr: 1,2-Dichloroethane-d4	102	(70-130) %REC	10/14/11	10/14/11
		Surr: Toluene-d8	102	(70-130) %REC	10/14/11	10/14/11
		Surr: 4-Bromofluorobenzene	98	(70-130) %REC	10/14/11	10/14/11
<b>Client ID : HL-2</b>						
Lab ID :	CHH11101243-23A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/12/11	10/13/11
Date Sampled	10/11/11 09:00	Surr: Nonane	120	(49-145) %REC	10/12/11	10/13/11
		TPH-P (GRO)	ND	0.050 mg/L	10/14/11	10/14/11
		Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC	10/14/11	10/14/11
		Surr: Toluene-d8	103	(70-130) %REC	10/14/11	10/14/11
		Surr: 4-Bromofluorobenzene	98	(70-130) %REC	10/14/11	10/14/11



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<b>Client ID : GMW-3</b>						
Lab ID :	CHH11101243-24A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/12/11	10/13/11
Date Sampled	10/11/11 10:10	Surr: Nonane	115	(49-145) %REC	10/12/11	10/13/11
		TPH-P (GRO)	ND	0.050 mg/L	10/14/11	10/14/11
		Surr: 1,2-Dichloroethane-d4	101	(70-130) %REC	10/14/11	10/14/11
		Surr: Toluene-d8	102	(70-130) %REC	10/14/11	10/14/11
		Surr: 4-Bromofluorobenzene	100	(70-130) %REC	10/14/11	10/14/11
<b>Client ID : GMW-13</b>						
Lab ID :	CHH11101243-25A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/12/11	10/13/11
Date Sampled	10/11/11 07:35	Surr: Nonane	108	(49-145) %REC	10/12/11	10/13/11
		TPH-P (GRO)	ND	0.050 mg/L	10/14/11	10/14/11
		Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC	10/14/11	10/14/11
		Surr: Toluene-d8	101	(70-130) %REC	10/14/11	10/14/11
		Surr: 4-Bromofluorobenzene	98	(70-130) %REC	10/14/11	10/14/11
<b>Client ID : GMW-37</b>						
Lab ID :	CHH11101243-26A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/12/11	10/13/11
Date Sampled	10/11/11 08:10	Surr: Nonane	114	(49-145) %REC	10/12/11	10/13/11
		TPH-P (GRO)	ND	0.050 mg/L	10/14/11	10/14/11
		Surr: 1,2-Dichloroethane-d4	98	(70-130) %REC	10/14/11	10/14/11
		Surr: Toluene-d8	102	(70-130) %REC	10/14/11	10/14/11
		Surr: 4-Bromofluorobenzene	98	(70-130) %REC	10/14/11	10/14/11
<b>Client ID : GMW-39</b>						
Lab ID :	CHH11101243-27A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/12/11	10/13/11
Date Sampled	10/11/11 15:10	Surr: Nonane	106	(49-145) %REC	10/12/11	10/13/11
		TPH-P (GRO)	ND	0.050 mg/L	10/14/11	10/14/11
		Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC	10/14/11	10/14/11
		Surr: Toluene-d8	101	(70-130) %REC	10/14/11	10/14/11
		Surr: 4-Bromofluorobenzene	97	(70-130) %REC	10/14/11	10/14/11
<b>Client ID : EB-3</b>						
Lab ID :	CHH11101243-28A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/12/11	10/13/11
Date Sampled	10/11/11 09:40	Surr: Nonane	111	(49-145) %REC	10/12/11	10/13/11
		TPH-P (GRO)	ND	0.050 mg/L	10/14/11	10/14/11
		Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC	10/14/11	10/14/11
		Surr: Toluene-d8	101	(70-130) %REC	10/14/11	10/14/11
		Surr: 4-Bromofluorobenzene	100	(70-130) %REC	10/14/11	10/14/11
<b>Client ID : DUP-1</b>						
Lab ID :	CHH11101243-29A	TPH-E (Fuel Product)	0.21	+	0.10 mg/L	10/12/11
Date Sampled	10/11/11 00:00	Surr: Nonane	110		(49-145) %REC	10/12/11
		TPH-P (GRO)	ND		0.050 mg/L	10/14/11
		Surr: 1,2-Dichloroethane-d4	100		(70-130) %REC	10/14/11
		Surr: Toluene-d8	103		(70-130) %REC	10/14/11
		Surr: 4-Bromofluorobenzene	98		(70-130) %REC	10/14/11

\*Note: Reported TPH-E (Fuel Product) is composed primarily of diesel range hydrocarbons.

+TPH-E (Fuel Product) concentration may include contributions from heavier-end hydrocarbons (e.g. motor oil) that elute in the TPH-E (Fuel Product) range.

Gasoline Range Organics (GRO) C4-C13

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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10/20/11

Report Date



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP NORWALK

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101243-01A  
Client I.D. Number: WCW-3

Sampled: 10/11/11 12:47  
Received: 10/12/11  
Extracted: 10/13/11  
Analyzed: 10/13/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	3.4	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	97	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	103	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	100	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

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*PS*  
10/21/11

Report Date

Page 1 of 1



# Alpha Analytical, Inc.

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## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP NORWALK

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101243-02A  
Client I.D. Number: WCW-13

Sampled: 10/11/11 13:17  
Received: 10/12/11  
Extracted: 10/13/11  
Analyzed: 10/13/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	99	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	99	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

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*PS*  
10/21/11

Report Date



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP NORWALK

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101243-03A  
Client I.D. Number: GMW-O-4

Sampled: 10/11/11 09:06  
Received: 10/12/11  
Extracted: 10/13/11  
Analyzed: 10/13/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	102	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	102	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	99	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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10/21/11

Report Date





# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP NORWALK

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101243-04A  
Client I.D. Number: GMW-O-4 (MID)

Sampled: 10/11/11 09:39  
Received: 10/12/11  
Extracted: 10/13/11  
Analyzed: 10/13/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	101	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	102	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	99	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

*Roger Scholl*

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*PS*

10/21/11

Report Date



# Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP NORWALK

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101243-05A  
Client I.D. Number: GMW-O-5

Sampled: 10/11/11 10:09  
Received: 10/12/11  
Extracted: 10/13/11  
Analyzed: 10/13/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	101	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	100	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	100	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

*JS*

10/21/11

Report Date



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP NORWALK

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101243-06A  
Client I.D. Number: GMW-O-8

Sampled: 10/11/11 11:18  
Received: 10/12/11  
Extracted: 10/13/11  
Analyzed: 10/13/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	101	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	101	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	98	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

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10/21/11

Report Date



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP NORWALK

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101243-07A  
Client I.D. Number: GMW-O-9

Sampled: 10/11/11 11:55  
Received: 10/12/11  
Extracted: 10/13/11  
Analyzed: 10/13/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	102	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	101	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	98	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

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Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

*PS*  
10/21/11

Report Date



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP NORWALK

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101243-08A  
Client I.D. Number: GMW-O-16

Sampled: 10/11/11 14:27  
Received: 10/12/11  
Extracted: 10/13/11  
Analyzed: 10/13/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	1.1	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	101	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	98	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

*Roger Scholl*

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*RS*

10/21/11

Report Date

Page 1 of 1



# Alpha Analytical, Inc.

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## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP NORWALK

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101243-09A  
Client I.D. Number: GMW-O-19

Sampled: 10/11/11 13:56  
Received: 10/12/11  
Extracted: 10/13/11  
Analyzed: 10/13/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	101	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	98	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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10/21/11

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# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP NORWALK

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101243-10A  
Client I.D. Number: GMW-SF-7

Sampled: 10/11/11 07:37  
Received: 10/12/11  
Extracted: 10/13/11  
Analyzed: 10/13/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	100	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	99	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

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10/21/11

Report Date

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# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP NORWALK

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101243-11A  
Client I.D. Number: GMW-SF-8

Sampled: 10/11/11 08:09  
Received: 10/12/11  
Extracted: 10/13/11  
Analyzed: 10/13/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	2.2	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	101	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	102	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	99	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

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10/21/11

Report Date





# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP NORWALK

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101243-12A  
Client I.D. Number: GMW-SF-9

Sampled: 10/11/11 15:11  
Received: 10/12/11  
Extracted: 10/13/11  
Analyzed: 10/13/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	40	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	100	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	99	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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10/21/11

Report Date



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP NORWALK

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101243-13A  
Client I.D. Number: TB-2

Sampled: 10/11/11 06:40  
Received: 10/12/11  
Extracted: 10/13/11  
Analyzed: 10/13/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	101	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	102	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

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*10/21/11*

10/21/11

Report Date



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP NORWALK

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101243-14A  
Client I.D. Number: EB-2

Sampled: 10/11/11 08:15  
Received: 10/12/11  
Extracted: 10/13/11  
Analyzed: 10/13/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	101	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	101	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	100	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

*Roger Scholl*

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*RSJ*  
10/21/11

Report Date



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP NORWALK

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101243-15A  
Client I.D. Number: MW-6

Sampled: 10/11/11 12:10  
Received: 10/12/11  
Extracted: 10/13/11  
Analyzed: 10/13/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	1.0	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	1.2	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	101	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	98	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

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*PS*

10/21/11

Report Date

Page 1 of 1



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP NORWALK

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101243-16A  
Client I.D. Number: MW-7

Sampled: 10/11/11 13:35  
Received: 10/12/11  
Extracted: 10/13/11  
Analyzed: 10/13/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	25	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	1.5	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	0.99	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	102	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	100	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	97	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer  
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*[Signature]*

10/21/11

Report Date



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP NORWALK

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101243-17A  
Client I.D. Number: MW-8

Sampled: 10/11/11 14:35  
Received: 10/12/11  
Extracted: 10/13/11  
Analyzed: 10/13/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	970	20 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	101	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	100	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	99	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

\*This analyte was analyzed separately on 10/14/11 in order to achieve lower reporting limits for the other analytes.

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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*RSJ*

10/21/11

Report Date

Page 1 of 1



# Alpha Analytical, Inc.

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## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP NORWALK

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101243-18A  
Client I.D. Number: MW-12

Sampled: 10/11/11 10:55  
Received: 10/12/11  
Extracted: 10/13/11  
Analyzed: 10/13/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	101	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	98	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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*AS*  
10/21/11

Report Date

Page 1 of 1



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP NORWALK

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101243-19A  
Client I.D. Number: MW-19 (MID)

Sampled: 10/11/11 14:00  
Received: 10/12/11  
Extracted: 10/13/11  
Analyzed: 10/13/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	110	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	0.67	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	11	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	3.2	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	97	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	100	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	96	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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*RSJ*

10/21/11

Report Date





# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP NORWALK

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101243-20A  
Client I.D. Number: MW-20 (MID)

Sampled: 10/11/11 12:40  
Received: 10/12/11  
Extracted: 10/13/11  
Analyzed: 10/13/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	38	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	17	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	11	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	13	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	96	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	100	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	96	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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*PJ*

10/21/11

Report Date

Page 1 of 1



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP NORWALK

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101243-21A  
Client I.D. Number: PW-3

Sampled: 10/11/11 11:35  
Received: 10/12/11  
Extracted: 10/14/11  
Analyzed: 10/14/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	101	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	100	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	99	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

*Roger Scholl*

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*AS*

10/21/11

Report Date



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP NORWALK

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101243-22A  
Client I.D. Number: PW-1

Sampled: 10/11/11 09:35  
Received: 10/12/11  
Extracted: 10/14/11  
Analyzed: 10/14/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	1.8	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	102	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	102	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	98	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP NORWALK

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101243-23A  
Client I.D. Number: HL-2

Sampled: 10/11/11 09:00  
Received: 10/12/11  
Extracted: 10/14/11  
Analyzed: 10/14/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	103	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	98	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

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*PS*

10/21/11

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# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMED NORWALK

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101243-24A  
Client I.D. Number: GMW-3

Sampled: 10/11/11 10:10  
Received: 10/12/11  
Extracted: 10/14/11  
Analyzed: 10/14/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	101	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	102	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	100	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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10/21/11

Report Date

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# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP NORWALK

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101243-25A  
Client I.D. Number: GMW-13

Sampled: 10/11/11 07:35  
Received: 10/12/11  
Extracted: 10/14/11  
Analyzed: 10/14/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	101	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	98	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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*[Signature]*

10/21/11

Report Date

Page 1 of 1



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMED NORWALK

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101243-26A  
Client I.D. Number: GMW-37

Sampled: 10/11/11 08:10  
Received: 10/12/11  
Extracted: 10/14/11  
Analyzed: 10/14/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethane	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethane	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethane	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	98	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	102	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	98	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

*Roger Scholl*

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*PSG*

10/21/11

Report Date

Page 1 of 1



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP NORWALK

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101243-27A  
Client I.D. Number: GMW-39

Sampled: 10/11/11 15:10  
Received: 10/12/11  
Extracted: 10/14/11  
Analyzed: 10/14/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane *	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	96	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	101	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	97	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

10/21/11

Report Date





# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP NORWALK

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101243-28A  
Client I.D. Number: EB-3

Sampled: 10/11/11 09:40  
Received: 10/12/11  
Extracted: 10/14/11  
Analyzed: 10/14/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	101	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	100	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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*PS*

10/21/11

Report Date

Page 1 of 1



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP NORWALK

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101243-29A  
Client I.D. Number: DUP-1

Sampled: 10/11/11 00:00  
Received: 10/12/11  
Extracted: 10/14/11  
Analyzed: 10/14/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	97	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	103	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	98	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

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*PS*

10/21/11

Report Date

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# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## VOC Sample Preservation Report

Work Order: CHH11101243

Job: KMEP NORWALK

Alpha's Sample ID	Client's Sample ID	Matrix	pH
11101243-01A	WCW-3	Aqueous	2
11101243-02A	WCW-13	Aqueous	2
11101243-03A	GMW-O-4	Aqueous	2
11101243-04A	GMW-O-4 (MID)	Aqueous	2
11101243-05A	GMW-O-5	Aqueous	2
11101243-06A	GMW-O-8	Aqueous	2
11101243-07A	GMW-O-9	Aqueous	5
11101243-08A	GMW-O-16	Aqueous	2
11101243-09A	GMW-O-19	Aqueous	2
11101243-10A	GMW-SF-7	Aqueous	2
11101243-11A	GMW-SF-8	Aqueous	2
11101243-12A	GMW-SF-9	Aqueous	2
11101243-13A	TB-2	Aqueous	2
11101243-14A	EB-2	Aqueous	2
11101243-15A	MW-6	Aqueous	2
11101243-16A	MW-7	Aqueous	2
11101243-17A	MW-8	Aqueous	2
11101243-18A	MW-12	Aqueous	2
11101243-19A	MW-19 (MID)	Aqueous	2
11101243-20A	MW-20 (MID)	Aqueous	2
11101243-21A	PW-3	Aqueous	2
11101243-22A	PW-1	Aqueous	2
11101243-23A	HL-2	Aqueous	2
11101243-24A	GMW-3	Aqueous	2
11101243-25A	GMW-13	Aqueous	2
11101243-26A	GMW-37	Aqueous	2
11101243-27A	GMW-39	Aqueous	2
11101243-28A	EB-3	Aqueous	2
11101243-29A	DUP-1	Aqueous	2

10/21/11

Report Date

Page 1 of 1



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:  
19-Oct-11

## QC Summary Report

Work Order:  
11101243

### Method Blank

Type **MBLK** Test Code: **EPA Method SW8015B/C Ext**

File ID: **7A10121106.D**

Batch ID: **27474**

Analysis Date: **10/12/2011 14:45**

Sample ID: **MBLK-27474**

Units : **mg/L**

Run ID: **FID\_7\_111012A**

Prep Date: **10/12/2011 12:15**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (Fuel Product)	ND	0.1								
Surr: Nonane	0.147		0.15		98	49	145			

### Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015B/C Ext**

File ID: **7A10121107.D**

Batch ID: **27474**

Analysis Date: **10/12/2011 15:12**

Sample ID: **LCS-27474**

Units : **mg/L**

Run ID: **FID\_7\_111012A**

Prep Date: **10/12/2011 12:15**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.24	0.05	2.5		89	70	130			
Surr: Nonane	0.171		0.15		114	49	145			

### Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8015B/C Ext**

File ID: **7A10121109.D**

Batch ID: **27474**

Analysis Date: **10/12/2011 16:05**

Sample ID: **11101243-01AMS**

Units : **mg/L**

Run ID: **FID\_7\_111012A**

Prep Date: **10/12/2011 12:15**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.22	0.05	2.5	0	89	53	150			
Surr: Nonane	0.146		0.15		97	49	145			

### Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8015B/C Ext**

File ID: **7A10121110.D**

Batch ID: **27474**

Analysis Date: **10/12/2011 16:31**

Sample ID: **11101243-01AMSD**

Units : **mg/L**

Run ID: **FID\_7\_111012A**

Prep Date: **10/12/2011 12:15**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.38	0.05	2.5	0	95	53	150	2.224	6.7(47)	
Surr: Nonane	0.144		0.15		96	49	145			

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:  
19-Oct-11

## QC Summary Report

Work Order:  
11101243

### Method Blank

File ID: 7A10121138.D

Sample ID: MBLK-27475

Analyte

Type **MBLK** Test Code: **EPA Method SW8015B/C Ext**

Batch ID: 27475

Run ID: FID\_7\_111013A

Analysis Date: 10/13/2011 05:00

Prep Date: 10/12/2011 13:59

TPH-E (Fuel Product)

Surr: Nonane

ND

0.1

0.15

106

49

145

### Laboratory Control Spike

File ID: 7A10121139.D

Sample ID: LCS-27475

Analyte

Type **LCS** Test Code: **EPA Method SW8015B/C Ext**

Batch ID: 27475

Run ID: FID\_7\_111013A

Analysis Date: 10/13/2011 05:27

Prep Date: 10/12/2011 13:59

TPH-E (DRO)

Surr: Nonane

2.41

0.05

2.5

97

70

130

0.155

0.15

103

49

145

### Sample Matrix Spike

File ID: 7A10121142.D

Sample ID: 11101243-23AMS

Analyte

Type **MS** Test Code: **EPA Method SW8015B/C Ext**

Batch ID: 27475

Run ID: FID\_7\_111013A

Analysis Date: 10/13/2011 06:47

Prep Date: 10/12/2011 13:59

TPH-E (DRO)

Surr: Nonane

2.28

0.05

2.5

0

91

53

150

0.078

0.15

52

49

145

### Sample Matrix Spike Duplicate

File ID: 7A10121143.D

Sample ID: 11101243-23AMSD

Analyte

Type **MSD** Test Code: **EPA Method SW8015B/C Ext**

Batch ID: 27475

Run ID: FID\_7\_111013A

Analysis Date: 10/13/2011 07:14

Prep Date: 10/12/2011 13:59

TPH-E (DRO)

Surr: Nonane

2.29

0.05

2.5

0

92

53

150

2.277

0.7(47)

0.144

0.15

96

49

145

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



# Alpha Analytical, Inc.

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Date:  
19-Oct-11

## QC Summary Report

Work Order:  
11101243

### Method Blank

File ID: 11101307.D

Type **MBLK** Test Code: **EPA Method SW8015B/C**

Batch ID: **MS15W1013B**

Analysis Date: **10/13/2011 10:34**

Sample ID: **MBLK MS15W1013B**

Units : **mg/L**

Run ID: **MSD\_15\_111013A**

Prep Date: **10/13/2011 10:34**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	0.05								
Surr: 1,2-Dichloroethane-d4	0.00991		0.01		99	70	130			
Surr: Toluene-d8	0.01		0.01		100	70	130			
Surr: 4-Bromofluorobenzene	0.00997		0.01		99.7	70	130			

### Laboratory Control Spike

File ID: 11101303.D

Type **LCS** Test Code: **EPA Method SW8015B/C**

Batch ID: **MS15W1013B**

Analysis Date: **10/13/2011 08:58**

Sample ID: **GLCS MS15W1013B**

Units : **mg/L**

Run ID: **MSD\_15\_111013A**

Prep Date: **10/13/2011 08:58**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.403	0.05	0.4		101	70	130			
Surr: 1,2-Dichloroethane-d4	0.00926		0.01		93	70	130			
Surr: Toluene-d8	0.00999		0.01		99.9	70	130			
Surr: 4-Bromofluorobenzene	0.0101		0.01		101	70	130			

### Sample Matrix Spike

File ID: 11101310.D

Type **MS** Test Code: **EPA Method SW8015B/C**

Batch ID: **MS15W1013B**

Analysis Date: **10/13/2011 11:39**

Sample ID: **11101243-01AGS**

Units : **mg/L**

Run ID: **MSD\_15\_111013A**

Prep Date: **10/13/2011 11:39**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2.28	0.25	2	0	114	51	144			
Surr: 1,2-Dichloroethane-d4	0.05		0.05		100	70	130			
Surr: Toluene-d8	0.0493		0.05		99	70	130			
Surr: 4-Bromofluorobenzene	0.0513		0.05		103	70	130			

### Sample Matrix Spike Duplicate

File ID: 11101311.D

Type **MSD** Test Code: **EPA Method SW8015B/C**

Batch ID: **MS15W1013B**

Analysis Date: **10/13/2011 12:00**

Sample ID: **11101243-01AGSD**

Units : **mg/L**

Run ID: **MSD\_15\_111013A**

Prep Date: **10/13/2011 12:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2.1	0.25	2	0	105	51	144	2.282	8.4(29)	
Surr: 1,2-Dichloroethane-d4	0.0504		0.05		101	70	130			
Surr: Toluene-d8	0.0493		0.05		99	70	130			
Surr: 4-Bromofluorobenzene	0.0505		0.05		101	70	130			

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:  
19-Oct-11

## QC Summary Report

Work Order:  
11101243

### Method Blank

File ID: 11101407.D

Type **MBLK** Test Code: **EPA Method SW8015B/C**

Batch ID: **MS15W1014B**

Analysis Date: **10/14/2011 10:27**

Sample ID: **MBLK MS15W1014B**

Units : **mg/L**

Run ID: **MSD\_15\_111014A**

Prep Date: **10/14/2011 10:27**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	0.05								
Surr: 1,2-Dichloroethane-d4	0.00983		0.01		98	70	130			
Surr: Toluene-d8	0.0101		0.01		101	70	130			
Surr: 4-Bromofluorobenzene	0.00985		0.01		99	70	130			

### Laboratory Control Spike

File ID: 11101403.D

Type **LCS** Test Code: **EPA Method SW8015B/C**

Batch ID: **MS15W1014B**

Analysis Date: **10/14/2011 08:50**

Sample ID: **GLCS MS15W1014B**

Units : **mg/L**

Run ID: **MSD\_15\_111014A**

Prep Date: **10/14/2011 08:50**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.392	0.05	0.4		98	70	130			
Surr: 1,2-Dichloroethane-d4	0.00934		0.01		93	70	130			
Surr: Toluene-d8	0.0101		0.01		101	70	130			
Surr: 4-Bromofluorobenzene	0.0101		0.01		101	70	130			

### Sample Matrix Spike

File ID: 11101410.D

Type **MS** Test Code: **EPA Method SW8015B/C**

Batch ID: **MS15W1014B**

Analysis Date: **10/14/2011 11:31**

Sample ID: **11101243-21AGS**

Units : **mg/L**

Run ID: **MSD\_15\_111014A**

Prep Date: **10/14/2011 11:31**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2	0.25	2	0	100	51	144			
Surr: 1,2-Dichloroethane-d4	0.0484		0.05		97	70	130			
Surr: Toluene-d8	0.0498		0.05		99.7	70	130			
Surr: 4-Bromofluorobenzene	0.0504		0.05		101	70	130			

### Sample Matrix Spike Duplicate

File ID: 11101411.D

Type **MSD** Test Code: **EPA Method SW8015B/C**

Batch ID: **MS15W1014B**

Analysis Date: **10/14/2011 11:53**

Sample ID: **11101243-21AGSD**

Units : **mg/L**

Run ID: **MSD\_15\_111014A**

Prep Date: **10/14/2011 11:53**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2.13	0.25	2	0	106	51	144	2.004	6.1(29)	
Surr: 1,2-Dichloroethane-d4	0.0488		0.05		98	70	130			
Surr: Toluene-d8	0.0496		0.05		99	70	130			
Surr: 4-Bromofluorobenzene	0.0507		0.05		101	70	130			

### Comments:

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## QC Summary Report

Work Order:  
11101243

n-Butylbenzene	ND	1				
1,2-Dibromo-3-chloropropane (DBCP)	ND	5				
1,2,4-Trichlorobenzene	ND	2				
Naphthalene	ND	10				
1,2,3-Trichlorobenzene	ND	2				
Xylenes, Total	ND	0.5				
Surr: 1,2-Dichloroethane-d4	9.91		10	99	70	130
Surr: Toluene-d8	10		10	100	70	130
Surr: 4-Bromofluorobenzene	9.97		10	99.7	70	130



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## QC Summary Report

Work Order:  
11101243

### Laboratory Control Spike

File ID: 11101304.D

Type: LCS

Test Code: EPA Method SW8260B

Batch ID: MS15W1013A

Analysis Date: 10/13/2011 09:20

Sample ID: LCS MS15W1013A

Units: µg/L

Run ID: MSD\_15\_111013A

Prep Date: 10/13/2011 09:20

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	9.25	1	10		93	37	137			
Chloromethane	10.8	2	10		108	43	140			
Vinyl chloride	10.4	1	10		104	80	120			
Chloroethane	11.9	1	10		119	43	141			
Bromomethane	7.21	2	10		72	11	160			
Trichlorofluoromethane	12	1	10		120	40	148			
Acetone	273	10	200		137	36	171			
1,1-Dichloroethene	9.85	1	10		99	80	120			
Tertiary Butyl Alcohol (TBA)	108	10	100		108	44	156			
Dichloromethane	9.69	2	10		97	69	130			
Freon-113	10.8	1	10		108	70	137			
trans-1,2-Dichloroethene	10	1	10		100	70	130			
Methyl tert-butyl ether (MTBE)	11.3	0.5	10		113	65	140			
1,1-Dichloroethane	10.3	1	10		103	70	130			
2-Butanone (MEK)	271	10	200		135	23	182			
Di-isopropyl Ether (DIPE)	10.6	1	10		106	70	130			
cis-1,2-Dichloroethene	9.98	1	10		99.8	70	130			
Bromochloromethane	10.6	1	10		106	70	132			
Chloroform	10.7	1	10		107	80	120			
Ethyl Tertiary Butyl Ether (ETBE)	10.4	1	10		104	65	139			
2,2-Dichloropropane	10.4	1	10		104	68	154			
1,2-Dichloroethane	11.5	1	10		115	70	132			
1,1,1-Trichloroethane	10.7	1	10		107	70	135			
1,1-Dichloropropene	10.8	1	10		108	70	130			
Carbon tetrachloride	10.4	1	10		104	61	148			
Benzene	10.3	0.5	10		103	70	130			
Tertiary Amyl Methyl Ether (TAME)	11.4	1	10		114	68	134			
Dibromomethane	10.9	1	10		109	70	130			
1,2-Dichloropropane	9.99	1	10		99.9	80	120			
Trichloroethene	10.3	1	10		103	65	144			
Bromodichloromethane	10.4	1	10		104	50	157			
4-Methyl-2-pentanone (MIBK)	30.6	2.5	25		122	20	182			
cis-1,3-Dichloropropene	10.1	1	10		101	70	131			
trans-1,3-Dichloropropene	9.64	1	10		96	70	136			
1,1,2-Trichloroethane	10.8	1	10		108	70	130			
Toluene	9.77	0.5	10		98	80	120			
1,3-Dichloropropane	9.89	1	10		99	70	130			
2-Hexanone	108	5	100		108	20	182			
Dibromochloromethane	8.53	1	10		85	42	155			
1,2-Dibromoethane (EDB)	20	2	20		100	70	130			
Tetrachloroethene	9.72	1	10		97	70	130			
1,1,1,2-Tetrachloroethane	9.87	1	10		99	70	130			
Chlorobenzene	9.61	1	10		96	70	130			
Ethylbenzene	10.4	0.5	10		104	80	120			
m,p-Xylene	10.1	0.5	10		101	70	130			
Bromoform	8.35	1	10		84	68	143			
Styrene	8.77	1	10		88	64	153			
o-Xylene	10.1	0.5	10		101	70	130			
1,1,2,2-Tetrachloroethane	9.56	1	10		96	70	130			
1,2,3-Trichloropropane	20.9	2	20		105	70	130			
Isopropylbenzene	9.09	1	10		91	68	138			
Bromobenzene	9.58	1	10		96	70	130			
n-Propylbenzene	9.35	1	10		94	70	133			
4-Chlorotoluene	9.1	1	10		91	70	130			
2-Chlorotoluene	9.03	1	10		90	70	130			
1,3,5-Trimethylbenzene	9.7	1	10		97	70	134			
tert-Butylbenzene	9.3	1	10		93	55	147			
1,2,4-Trimethylbenzene	9.77	1	10		98	70	134			
sec-Butylbenzene	9.26	1	10		93	70	135			
1,3-Dichlorobenzene	9.83	1	10		98	70	130			
1,4-Dichlorobenzene	9.05	1	10		91	70	130			
4-Isopropyltoluene	9.59	1	10		96	70	132			
1,2-Dichlorobenzene	9.16	1	10		92	70	130			
n-Butylbenzene	9.78	1	10		98	70	134			
1,2-Dibromo-3-chloropropane (DBCP)	49.5	3	50		99	67	130			



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21-Oct-11

## QC Summary Report

Work Order:  
11101243

1,2,4-Trichlorobenzene	8.87	2	10	89	67	132
Naphthalene	8.56	2	10	86	38	154
1,2,3-Trichlorobenzene	9.31	2	10	93	56	137
Xylenes, Total	20.2	0.5	20	101	70	130
Surr: 1,2-Dichloroethane-d4	9.93		10	99	70	130
Surr: Toluene-d8	9.82		10	98	70	130
Surr: 4-Bromofluorobenzene	10.2		10	102	70	130



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21-Oct-11

## QC Summary Report

Work Order:  
11101243

### Sample Matrix Spike

File ID: 11101308.D

Type: MS

Test Code: EPA Method SW8260B

Batch ID: MS15W1013A

Analysis Date: 10/13/2011 10:56

Sample ID: 11101243-01AMS

Units: µg/L

Run ID: MSD\_15\_111013A

Prep Date: 10/13/2011 10:56

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	36.8	2.5	50		0	74	21	138		
Chloromethane	45.8	10	50		0	92	23	144		
Vinyl chloride	51.5	2.5	50		0	103	49	136		
Chloroethane	55.6	2.5	50		0	111	21	159		
Bromomethane	31.8	10	50		0	64	10	174		
Trichlorofluoromethane	59.8	2.5	50		0	120	32	154		
Acetone	651	50	1000		0	65	10	171		
1,1-Dichloroethene	46.2	2.5	50		0	92	64	130		
Tertiary Butyl Alcohol (TBA)	513	25	500		0	103	41	157		
Dichloromethane	45.2	10	50		0	90	69	130		
Freon-113	52.3	2.5	50		0	105	55	141		
trans-1,2-Dichloroethene	46.7	2.5	50		0	93	63	130		
Methyl tert-butyl ether (MTBE)	53.5	1.3	50		0	107	47	150		
1,1-Dichloroethane	48	2.5	50		0	96	66	130		
2-Butanone (MEK)	921	50	1000		0	92	23	182		
Di-isopropyl Ether (DIPE)	50.7	2.5	50		0	101	59	139		
cis-1,2-Dichloroethene	46.6	2.5	50		0	93	70	130		
Bromochloromethane	50.4	2.5	50		0	101	70	132		
Chloroform	49.3	2.5	50		0	99	70	130		
Ethyl Tertiary Butyl Ether (ETBE)	48.8	2.5	50		0	98	59	182		
2,2-Dichloropropane	49.4	2.5	50		0	99	38	154		
1,2-Dichloroethane	59.2	2.5	50	3.41	112	65	134			
1,1,1-Trichloroethane	50.7	2.5	50		0	101	65	136		
1,1-Dichloropropene	51.1	2.5	50		0	102	68	132		
Carbon tetrachloride	48.9	2.5	50		0	98	58	148		
Benzene	48.1	1.3	50		0	96	59	138		
Tertiary Amyl Methyl Ether (TAME)	54.9	2.5	50		0	110	63	135		
Dibromomethane	51.6	2.5	50		0	103	70	130		
1,2-Dichloropropane	46.7	2.5	50		0	93	70	131		
Trichloroethene	47.5	2.5	50		0	95	65	144		
Bromodichloromethane	48.7	2.5	50		0	97	50	157		
4-Methyl-2-pentanone (MIBK)	138	13	125		0	111	20	182		
cis-1,3-Dichloropropene	46	2.5	50		0	92	63	131		
trans-1,3-Dichloropropene	44.8	2.5	50		0	90	65	136		
1,1,2-Trichloroethane	50.7	2.5	50		0	101	70	131		
Toluene	45.5	1.3	50		0	91	68	130		
1,3-Dichloropropane	46.9	2.5	50		0	94	70	130		
2-Hexanone	337	25	500		0	67	20	182		
Dibromochloromethane	40.2	2.5	50		0	80	42	155		
1,2-Dibromoethane (EDB)	93.9	5	100		0	94	70	130		
Tetrachloroethene	45.3	2.5	50		0	91	65	130		
1,1,1,2-Tetrachloroethane	46.4	2.5	50		0	93	70	130		
Chlorobenzene	45.1	2.5	50		0	90	70	130		
Ethylbenzene	48.7	1.3	50		0	97	68	130		
m,p-Xylene	47.1	1.3	50		0	94	68	131		
Bromoform	39.1	2.5	50		0	78	65	143		
Styrene	40.8	2.5	50		0	82	59	153		
o-Xylene	47.5	1.3	50		0	95	70	130		
1,1,2,2-Tetrachloroethane	45.6	2.5	50		0	91	67	130		
1,2,3-Trichloropropane	98.6	10	100		0	99	70	130		
Isopropylbenzene	42.8	2.5	50		0	86	55	138		
Bromobenzene	45	2.5	50		0	90	70	130		
n-Propylbenzene	44.2	2.5	50		0	88	67	133		
4-Chlorotoluene	42.5	2.5	50		0	85	70	130		
2-Chlorotoluene	42.5	2.5	50		0	85	70	130		
1,3,5-Trimethylbenzene	45.7	2.5	50		0	91	67	134		
tert-Butylbenzene	43.9	2.5	50		0	88	55	147		
1,2,4-Trimethylbenzene	45.5	2.5	50		0	91	65	135		
sec-Butylbenzene	43.8	2.5	50		0	88	68	135		
1,3-Dichlorobenzene	46.2	2.5	50		0	92	70	130		
1,4-Dichlorobenzene	42.4	2.5	50		0	85	70	130		
4-Isopropyltoluene	45.7	2.5	50		0	91	68	132		
1,2-Dichlorobenzene	43	2.5	50		0	86	70	130		
n-Butylbenzene	46.7	2.5	50		0	93	62	134		
1,2-Dibromo-3-chloropropane (DBCP)	230	15	250		0	92	64	130		



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## QC Summary Report

Work Order:  
11101243

1,2,4-Trichlorobenzene	41.5	10	50	0	83	62	133
Naphthalene	40	10	50	0	80	32	166
1,2,3-Trichlorobenzene	44.6	10	50	0	89	55	138
Xylenes, Total	94.6	1.3	100	0	95	70	130
Surr: 1,2-Dichloroethane-d4	49.8		50		99.5	70	130
Surr: Toluene-d8	49.4		50		99	70	130
Surr: 4-Bromofluorobenzene	50.5		50		101	70	130



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21-Oct-11

## QC Summary Report

Work Order:  
11101243

### Sample Matrix Spike Duplicate

Type: MSD Test Code: EPA Method SW8260B

File ID: 11101309.D

Batch ID: MS15W1013A

Analysis Date: 10/13/2011 11:17

Sample ID: 11101243-01AMSD

Units: µg/L

Run ID: MSD\_15\_111013A

Prep Date: 10/13/2011 11:17

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	37.8	2.5	50	0	76	21	138	36.77	2.7(33)	
Chloromethane	50.5	10	50	0	101	23	144	45.84	9.6(27)	
Vinyl chloride	55.7	2.5	50	0	111	49	136	51.49	7.9(21)	
Chloroethane	57.3	2.5	50	0	115	21	159	55.6	3.1(40)	
Bromomethane	37.8	10	50	0	76	10	174	31.77	17.4(40)	
Trichlorofluoromethane	60.6	2.5	50	0	121	32	154	59.82	1.3(37)	
Acetone	697	50	1000	0	70	10	171	650.5	7.0(23)	
1,1-Dichloroethene	47.2	2.5	50	0	94	64	130	46.16	2.2(21)	
Tertiary Butyl Alcohol (TBA)	602	25	500	0	120	41	157	513.2	15.9(30)	
Dichloromethane	46.7	10	50	0	93	69	130	45.17	3.3(20)	
Freon-113	53.6	2.5	50	0	107	55	141	52.27	2.6(40)	
trans-1,2-Dichloroethene	48.2	2.5	50	0	96	63	130	46.66	3.3(20)	
Methyl tert-butyl ether (MTBE)	56	1.3	50	0	112	47	150	53.51	4.6(40)	
1,1-Dichloroethane	49.6	2.5	50	0	99	66	130	47.99	3.3(20)	
2-Butanone (MEK)	975	50	1000	0	97	23	182	920.7	5.7(22)	
Di-isopropyl Ether (DIPE)	52.6	2.5	50	0	105	59	139	50.67	3.8(20)	
cis-1,2-Dichloroethene	48.4	2.5	50	0	97	70	130	46.64	3.7(20)	
Bromochloromethane	51.9	2.5	50	0	104	70	132	50.37	2.9(20)	
Chloroform	51.4	2.5	50	0	103	70	130	49.27	4.3(20)	
Ethyl Tertiary Butyl Ether (ETBE)	51.3	2.5	50	0	103	59	182	48.82	4.9(40)	
2,2-Dichloropropane	51.3	2.5	50	0	103	38	154	49.43	3.8(22)	
1,2-Dichloroethane	60.6	2.5	50	3.41	114	65	134	59.18	2.4(20)	
1,1,1-Trichloroethane	52.5	2.5	50	0	105	65	136	50.67	3.6(20)	
1,1-Dichloropropene	52.4	2.5	50	0	105	68	132	51.11	2.5(20)	
Carbon tetrachloride	51.5	2.5	50	0	103	58	148	48.91	5.2(20)	
Benzene	49.4	1.3	50	0	99	59	138	48.1	2.8(21)	
Tertiary Amyl Methyl Ether (TAME)	55.8	2.5	50	0	112	63	135	54.85	1.6(40)	
Dibromomethane	53.3	2.5	50	0	107	70	130	51.64	3.1(20)	
1,2-Dichloropropane	48.9	2.5	50	0	98	70	131	46.74	4.5(20)	
Trichloroethene	49.4	2.5	50	0	99	65	144	47.54	3.9(20)	
Bromodichloromethane	51.4	2.5	50	0	103	50	157	48.71	5.4(20)	
4-Methyl-2-pentanone (MIBK)	149	13	125	0	119	20	182	138.2	7.2(20)	
cis-1,3-Dichloropropene	49	2.5	50	0	98	63	131	46.01	6.2(20)	
trans-1,3-Dichloropropene	48	2.5	50	0	96	65	136	44.76	6.9(20)	
1,1,2-Trichloroethane	53.2	2.5	50	0	106	70	131	50.71	4.8(20)	
Toluene	46.5	1.3	50	0	93	68	130	45.46	2.2(20)	
1,3-Dichloropropane	48.6	2.5	50	0	97	70	130	46.87	3.5(20)	
2-Hexanone	357	25	500	0	71	20	182	336.9	5.8(20)	
Dibromochloromethane	42.5	2.5	50	0	85	42	155	40.2	5.5(20)	
1,2-Dibromoethane (EDB)	98.6	5	100	0	99	70	130	93.85	4.9(20)	
Tetrachloroethene	46.8	2.5	50	0	94	65	130	45.26	3.4(20)	
1,1,1,2-Tetrachloroethane	48.4	2.5	50	0	97	70	130	46.42	4.1(20)	
Chlorobenzene	46.7	2.5	50	0	93	70	130	45.13	3.5(20)	
Ethylbenzene	50.2	1.3	50	0	100	68	130	48.67	3.1(20)	
m,p-Xylene	48.9	1.3	50	0	98	68	131	47.13	3.8(20)	
Bromoform	41.9	2.5	50	0	84	65	143	39.12	6.8(20)	
Styrene	42.4	2.5	50	0	85	59	153	40.84	3.8(37)	
o-Xylene	49.2	1.3	50	0	98	70	130	47.45	3.5(20)	
1,1,2,2-Tetrachloroethane	47.8	2.5	50	0	96	67	130	45.59	4.8(20)	
1,2,3-Trichloropropane	105	10	100	0	105	70	130	98.55	6.3(20)	
Isopropylbenzene	44.3	2.5	50	0	89	55	138	42.84	3.3(20)	
Bromobenzene	46.7	2.5	50	0	93	70	130	44.95	3.9(20)	
n-Propylbenzene	46	2.5	50	0	92	67	133	44.21	4.0(30)	
4-Chlorotoluene	44.2	2.5	50	0	88	70	130	42.51	3.9(20)	
2-Chlorotoluene	43.8	2.5	50	0	88	70	130	42.48	3.2(20)	
1,3,5-Trimethylbenzene	47.3	2.5	50	0	95	67	134	45.69	3.5(21)	
tert-Butylbenzene	45.8	2.5	50	0	92	55	147	43.91	4.1(20)	
1,2,4-Trimethylbenzene	47.1	2.5	50	0	94	65	135	45.52	3.5(25)	
sec-Butylbenzene	45.5	2.5	50	0	91	68	135	43.79	3.7(20)	
1,3-Dichlorobenzene	47.8	2.5	50	0	96	70	130	46.24	3.2(20)	
1,4-Dichlorobenzene	44.4	2.5	50	0	89	70	130	42.44	4.6(20)	
4-Isopropyltoluene	47.2	2.5	50	0	94	68	132	45.65	3.4(20)	
1,2-Dichlorobenzene	44.6	2.5	50	0	89	70	130	43.04	3.6(20)	
n-Butylbenzene	48.3	2.5	50	0	97	62	134	46.69	3.3(21)	
1,2-Dibromo-3-chloropropane (DBCP)	248	15	250	0	99	64	130	230.3	7.4(20)	



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Date:	QC Summary Report								Work Order:
21-Oct-11									11101243
1,2,4-Trichlorobenzene	44.9	10	50	0	90	62	133	41.45	7.9(29)
Naphthalene	44.1	10	50	0	88	32	166	39.97	9.8(40)
1,2,3-Trichlorobenzene	48.1	10	50	0	96	55	138	44.61	7.6(36)
Xylenes, Total	98.1	1.3	100	0	98	70	130	94.58	3.7(20)
Surr: 1,2-Dichloroethane-d4	50.6		50		101	70	130		
Surr: Toluene-d8	49		50		98	70	130		
Surr: 4-Bromofluorobenzene	51.4		50		103	70	130		

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**Comments:**

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:  
21-Oct-11

## QC Summary Report

Work Order:  
11101243

### Method Blank

File ID: 11101407.D

Type: MBLK Test Code: EPA Method SW8260B

Batch ID: MS15W1014A

Analysis Date: 10/14/2011 10:27

Sample ID: MBLK MS15W1014A

Units: µg/L

Run ID: MSD\_15\_111014A

Prep Date: 10/14/2011 10:27

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	ND		1							
Chloromethane	ND		2							
Vinyl chloride	ND	0.5								
Chloroethane	ND		1							
Bromomethane	ND		2							
Trichlorofluoromethane	ND		10							
Acetone	ND		10							
1,1-Dichloroethene	ND		1							
Tertiary Butyl Alcohol (TBA)	ND		10							
Dichloromethane	ND		5							
Freon-113	ND		10							
Carbon disulfide	ND	2.5								
trans-1,2-Dichloroethene	ND		1							
Methyl tert-butyl ether (MTBE)	ND		0.5							
1,1-Dichloroethane	ND		1							
Vinyl acetate	ND		50							
2-Butanone (MEK)	ND		10							
Di-isopropyl Ether (DIPE)	ND		1							
cis-1,2-Dichloroethene	ND		1							
Bromochloromethane	ND		1							
Chloroform	ND		1							
Ethyl Tertiary Butyl Ether (ETBE)	ND		1							
2,2-Dichloropropane	ND		1							
1,2-Dichloroethane	ND	0.5								
1,1,1-Trichloroethane	ND		1							
1,1-Dichloropropene	ND		1							
Carbon tetrachloride	ND		1							
Benzene	ND	0.5								
Tertiary Amyl Methyl Ether (TAME)	ND		1							
Dibromomethane	ND		1							
1,2-Dichloropropane	ND		1							
Trichloroethene	ND		1							
Bromodichloromethane	ND		1							
4-Methyl-2-pentanone (MIBK)	ND		10							
cis-1,3-Dichloropropene	ND	0.5								
trans-1,3-Dichloropropene	ND	0.5								
1,1,2-Trichloroethane	ND		1							
Toluene	ND	0.5								
1,3-Dichloropropane	ND		1							
2-Hexanone	ND		5							
Dibromochloromethane	ND		1							
1,2-Dibromoethane (EDB)	ND		2							
Tetrachloroethene	ND		1							
1,1,1,2-Tetrachloroethane	ND		1							
Chlorobenzene	ND		1							
Ethylbenzene	ND	0.5								
m,p-Xylene	ND	0.5								
Bromoform	ND		1							
Styrene	ND		1							
o-Xylene	ND	0.5								
1,1,2,2-Tetrachloroethane	ND		1							
1,2,3-Trichloropropane	ND		2							
Isopropylbenzene	ND		1							
Bromobenzene	ND		1							
n-Propylbenzene	ND		1							
4-Chlorotoluene	ND		1							
2-Chlorotoluene	ND		1							
1,3,5-Trimethylbenzene	ND		1							
tert-Butylbenzene	ND		1							
1,2,4-Trimethylbenzene	ND		1							
sec-Butylbenzene	ND		1							
1,3-Dichlorobenzene	ND		1							
1,4-Dichlorobenzene	ND		1							
4-Isopropyltoluene	ND		1							
1,2-Dichlorobenzene	ND		1							





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**Date:**

21-Oct-11

## QC Summary Report

**Work Order:**

11101243

n-Butylbenzene	ND	1				
1,2-Dibromo-3-chloropropane (DBCP)	ND	5				
1,2,4-Trichlorobenzene	ND	2				
Naphthalene	ND	10				
1,2,3-Trichlorobenzene	ND	2				
Xylenes, Total	ND	0.5				
Surr: 1,2-Dichloroethane-d4	9.83		10	98	70	130
Surr: Toluene-d8	10.1		10	101	70	130
Surr: 4-Bromofluorobenzene	9.85		10	99	70	130



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Date:  
21-Oct-11

## QC Summary Report

Work Order:  
11101243

### Laboratory Control Spike

File ID: 11101404.D

Type: LCS

Test Code: EPA Method SW8260B

Batch ID: MS15W1014A

Analysis Date: 10/14/2011 09:11

Sample ID: LCS MS15W1014A

Units: µg/L

Run ID: MSD\_15\_111014A

Prep Date: 10/14/2011 09:11

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	9.25	1	10		93	37	137			
Chloromethane	11.8	2	10		118	43	140			
Vinyl chloride	11.1	1	10		111	80	120			
Chloroethane	12.5	1	10		125	43	141			
Bromomethane	8.13	2	10		81	11	160			
Trichlorofluoromethane	13	1	10		130	40	148			
Acetone	283	10	200		142	36	171			
1,1-Dichloroethene	10.3	1	10		103	80	120			
Tertiary Butyl Alcohol (TBA)	113	10	100		113	44	156			
Dichloromethane	10.1	2	10		101	69	130			
Freon-113	11.1	1	10		111	70	137			
trans-1,2-Dichloroethene	10.5	1	10		105	70	130			
Methyl tert-butyl ether (MTBE)	11.6	0.5	10		116	65	140			
1,1-Dichloroethane	10.7	1	10		107	70	130			
2-Butanone (MEK)	280	10	200		140	23	182			
Di-isopropyl Ether (DIPE)	11	1	10		110	70	130			
cis-1,2-Dichloroethene	10.4	1	10		104	70	130			
Bromochloromethane	11	1	10		110	70	132			
Chloroform	11.1	1	10		111	80	120			
Ethyl Tertiary Butyl Ether (ETBE)	10.7	1	10		107	65	139			
2,2-Dichloropropane	10.9	1	10		109	68	154			
1,2-Dichloroethane	11.9	1	10		119	70	132			
1,1,1-Trichloroethane	11	1	10		110	70	135			
1,1-Dichloropropene	11.4	1	10		114	70	130			
Carbon tetrachloride	10.7	1	10		107	61	148			
Benzene	10.7	0.5	10		107	70	130			
Tertiary Amyl Methyl Ether (TAME)	12	1	10		120	68	134			
Dibromomethane	11.3	1	10		113	70	130			
1,2-Dichloropropane	10.4	1	10		104	80	120			
Trichloroethene	10.6	1	10		106	65	144			
Bromodichloromethane	10.9	1	10		109	50	157			
4-Methyl-2-pentanone (MIBK)	32.2	2.5	25		129	20	182			
cis-1,3-Dichloropropene	10.5	1	10		105	70	131			
trans-1,3-Dichloropropene	10	1	10		100	70	136			
1,1,2-Trichloroethane	11.1	1	10		111	70	130			
Toluene	10.2	0.5	10		102	80	120			
1,3-Dichloropropane	10.3	1	10		103	70	130			
2-Hexanone	113	5	100		113	20	182			
Dibromochloromethane	9.01	1	10		90	42	155			
1,2-Dibromoethane (EDB)	20.7	2	20		104	70	130			
Tetrachloroethene	10.1	1	10		101	70	130			
1,1,1,2-Tetrachloroethane	10.4	1	10		104	70	130			
Chlorobenzene	10.2	1	10		102	70	130			
Ethylbenzene	10.9	0.5	10		109	80	120			
m,p-Xylene	10.7	0.5	10		107	70	130			
Bromoform	8.87	1	10		89	68	143			
Styrene	9.18	1	10		92	64	153			
o-Xylene	10.6	0.5	10		106	70	130			
1,1,2,2-Tetrachloroethane	10.1	1	10		101	70	130			
1,2,3-Trichloropropane	22	2	20		110	70	130			
Isopropylbenzene	9.48	1	10		95	68	138			
Bromobenzene	9.94	1	10		99	70	130			
n-Propylbenzene	9.81	1	10		98	70	133			
4-Chlorotoluene	9.5	1	10		95	70	130			
2-Chlorotoluene	9.38	1	10		94	70	130			
1,3,5-Trimethylbenzene	10.1	1	10		101	70	134			
tert-Butylbenzene	9.75	1	10		98	55	147			
1,2,4-Trimethylbenzene	10.2	1	10		102	70	134			
sec-Butylbenzene	9.64	1	10		96	70	135			
1,3-Dichlorobenzene	10.3	1	10		103	70	130			
1,4-Dichlorobenzene	9.49	1	10		95	70	130			
4-Isopropyltoluene	9.96	1	10		99.6	70	132			
1,2-Dichlorobenzene	9.51	1	10		95	70	130			
n-Butylbenzene	10.2	1	10		102	70	134			
1,2-Dibromo-3-chloropropane (DBCP)	51.4	3	50		103	67	130			



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**Date:**

21-Oct-11

## QC Summary Report

**Work Order:**

11101243

1,2,4-Trichlorobenzene	9.22	2	10	92	67	132
Naphthalene	8.99	2	10	90	38	154
1,2,3-Trichlorobenzene	9.85	2	10	99	56	137
Xylenes, Total	21.3	0.5	20	107	70	130
Surr: 1,2-Dichloroethane-d4	9.78		10	98	70	130
Surr: Toluene-d8	9.91		10	99	70	130
Surr: 4-Bromofluorobenzene	10.2		10	102	70	130



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Date:  
21-Oct-11

## QC Summary Report

Work Order:  
11101243

### Sample Matrix Spike

Type: MS Test Code: EPA Method SW8260B

File ID: 11101408.D

Batch ID: MS15W1014A

Analysis Date: 10/14/2011 10:48

Sample ID: 11101243-21AMS

Units : µg/L

Run ID: MSD\_15\_111014A

Prep Date: 10/14/2011 10:48

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	31.5	2.5	50	0	63	21	138			
Chloromethane	41.9	10	50	0	84	23	144			
Vinyl chloride	45.2	2.5	50	0	90	49	136			
Chloroethane	47.8	2.5	50	0	96	21	159			
Bromomethane	27.7	10	50	0	55	10	174			
Trichlorofluoromethane	52.7	2.5	50	0	105	32	154			
Acetone	641	50	1000	0	64	10	171			
1,1-Dichloroethene	40.9	2.5	50	0	82	64	130			
Tertiary Butyl Alcohol (TBA)	530	25	500	0	106	41	157			
Dichloromethane	41.1	10	50	0	82	69	130			
Freon-113	47.2	2.5	50	0	94	55	141			
trans-1,2-Dichloroethene	41.5	2.5	50	0	83	63	130			
Methyl tert-butyl ether (MTBE)	48.9	1.3	50	0	98	47	150			
1,1-Dichloroethane	43.1	2.5	50	0	86	66	130			
2-Butanone (MEK)	893	50	1000	0	89	23	182			
Di-isopropyl Ether (DIPE)	45.6	2.5	50	0	91	59	139			
cis-1,2-Dichloroethene	42.5	2.5	50	0	85	70	130			
Bromochloromethane	46	2.5	50	0	92	70	132			
Chloroform	44.4	2.5	50	0	89	70	130			
Ethyl Tertiary Butyl Ether (ETBE)	44.3	2.5	50	0	89	59	182			
2,2-Dichloropropane	43.4	2.5	50	0	87	38	154			
1,2-Dichloroethane	50.4	2.5	50	0	101	65	134			
1,1,1-Trichloroethane	44.3	2.5	50	0	89	65	136			
1,1-Dichloropropene	46	2.5	50	0	92	68	132			
Carbon tetrachloride	43.1	2.5	50	0	86	58	148			
Benzene	43.5	1.3	50	0	87	59	138			
Tertiary Amyl Methyl Ether (TAME)	50.9	2.5	50	0	102	63	135			
Dibromomethane	48	2.5	50	0	96	70	130			
1,2-Dichloropropane	42.8	2.5	50	0	86	70	131			
Trichloroethene	42.6	2.5	50	0	85	65	144			
Bromodichloromethane	44.4	2.5	50	0	89	50	157			
4-Methyl-2-pentanone (MIBK)	134	13	125	0	107	20	182			
cis-1,3-Dichloropropene	42	2.5	50	0	84	63	131			
trans-1,3-Dichloropropene	41.3	2.5	50	0	83	65	136			
1,1,2-Trichloroethane	47.4	2.5	50	0	95	70	131			
Toluene	40.4	1.3	50	0	81	68	130			
1,3-Dichloropropane	42.9	2.5	50	0	86	70	130			
2-Hexanone	326	25	500	0	65	20	182			
Dibromochloromethane	37	2.5	50	0	74	42	155			
1,2-Dibromoethane (EDB)	87.1	5	100	0	87	70	130			
Tetrachloroethene	40.6	2.5	50	0	81	65	130			
1,1,1,2-Tetrachloroethane	42.5	2.5	50	0	85	70	130			
Chlorobenzene	41.5	2.5	50	0	83	70	130			
Ethylbenzene	44.3	1.3	50	0	89	68	130			
m,p-Xylene	43.1	1.3	50	0	86	68	131			
Bromoform	37	2.5	50	0	74	65	143			
Styrene	37.2	2.5	50	0	74	59	153			
o-Xylene	43.1	1.3	50	0	86	70	130			
1,1,2,2-Tetrachloroethane	43.5	2.5	50	0	87	67	130			
1,2,3-Trichloropropane	95.1	10	100	0	95	70	130			
Isopropylbenzene	38.6	2.5	50	0	77	55	138			
Bromobenzene	41.3	2.5	50	0	83	70	130			
n-Propylbenzene	40.2	2.5	50	0	80	67	133			
4-Chlorotoluene	39.4	2.5	50	0	79	70	130			
2-Chlorotoluene	39.2	2.5	50	0	78	70	130			
1,3,5-Trimethylbenzene	41.6	2.5	50	0	83	67	134			
tert-Butylbenzene	40.1	2.5	50	0	80	55	147			
1,2,4-Trimethylbenzene	41.6	2.5	50	0	83	65	135			
sec-Butylbenzene	39.9	2.5	50	0	80	68	135			
1,3-Dichlorobenzene	42.4	2.5	50	0	85	70	130			
1,4-Dichlorobenzene	39.2	2.5	50	0	78	70	130			
4-Isopropyltoluene	41.3	2.5	50	0	83	68	132			
1,2-Dichlorobenzene	39.3	2.5	50	0	79	70	130			
n-Butylbenzene	42.1	2.5	50	0	84	62	134			
1,2-Dibromo-3-chloropropane (DBCP)	217	15	250	0	87	64	130			



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**Date:**

21-Oct-11

## QC Summary Report

**Work Order:**

11101243

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1,2,4-Trichlorobenzene	37.6	10	50	0	75	62	133
Naphthalene	37.1	10	50	0	74	32	166
1,2,3-Trichlorobenzene	40.2	10	50	0	80	55	138
Xylenes, Total	86.2	1.3	100	0	86	70	130
Surr: 1,2-Dichloroethane-d4	49.2		50		98	70	130
Surr: Toluene-d8	48.6		50		97	70	130
Surr: 4-Bromofluorobenzene	50.5		50		101	70	130



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:  
21-Oct-11

## QC Summary Report

Work Order:  
11101243

Sample Matrix Spike Duplicate

Type: MSD Test Code: EPA Method SW8260B

File ID: 11101409.D

Batch ID: MS15W1014A

Analysis Date: 10/14/2011 11:10

Sample ID: 11101243-21AMSD

Units: µg/L

Run ID: MSD\_15\_111014A

Prep Date: 10/14/2011 11:10

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	34.9	2.5	50	0	70	21	138	31.47	10.2(33)	
Chloromethane	48.5	10	50	0	97	23	144	41.85	14.8(27)	
Vinyl chloride	50.7	2.5	50	0	101	49	136	45.17	11.5(21)	
Chloroethane	53.3	2.5	50	0	107	21	159	47.82	10.7(40)	
Bromomethane	34.9	10	50	0	70	10	174	27.69	23.0(40)	
Trichlorofluoromethane	57.8	2.5	50	0	116	32	154	52.7	9.3(37)	
Acetone	670	50	1000	0	67	10	171	640.9	4.5(23)	
1,1-Dichloroethene	45	2.5	50	0	90	64	130	40.93	9.5(21)	
Tertiary Butyl Alcohol (TBA)	592	25	500	0	118	41	157	530	11.0(30)	
Dichloromethane	44.9	10	50	0	90	69	130	41.13	8.7(20)	
Freon-113	51.2	2.5	50	0	102	55	141	47.17	8.2(40)	
trans-1,2-Dichloroethene	45.8	2.5	50	0	92	63	130	41.54	9.7(20)	
Methyl tert-butyl ether (MTBE)	53.1	1.3	50	0	106	47	150	48.92	8.1(40)	
1,1-Dichloroethane	47.2	2.5	50	0	94	66	130	43.13	9.1(20)	
2-Butanone (MEK)	953	50	1000	0	95	23	182	893.2	6.5(22)	
Di-isopropyl Ether (DIPE)	49.3	2.5	50	0	99	59	139	45.55	7.9(20)	
cis-1,2-Dichloroethene	46.4	2.5	50	0	93	70	130	42.53	8.6(20)	
Bromochloromethane	50	2.5	50	0	99.9	70	132	45.97	8.3(20)	
Chloroform	48.9	2.5	50	0	98	70	130	44.37	9.8(20)	
Ethyl Tertiary Butyl Ether (ETBE)	48.2	2.5	50	0	96	59	182	44.3	8.5(40)	
2,2-Dichloropropane	48.8	2.5	50	0	98	38	154	43.37	11.8(22)	
1,2-Dichloroethane	53.7	2.5	50	0	107	65	134	50.44	6.3(20)	
1,1,1-Trichloroethane	48.8	2.5	50	0	98	65	136	44.3	9.7(20)	
1,1-Dichloropropene	50.1	2.5	50	0	100	68	132	46	8.5(20)	
Carbon tetrachloride	48.8	2.5	50	0	98	58	148	43.13	12.3(20)	
Benzene	47.1	1.3	50	0	94	59	138	43.48	8.1(21)	
Tertiary Amyl Methyl Ether (TAME)	54.8	2.5	50	0	110	63	135	50.94	7.2(40)	
Dibromomethane	51.7	2.5	50	0	103	70	130	47.95	7.5(20)	
1,2-Dichloropropane	46.5	2.5	50	0	93	70	131	42.75	8.4(20)	
Trichloroethene	46.7	2.5	50	0	93	65	144	42.55	9.3(20)	
Bromodichloromethane	48.6	2.5	50	0	97	50	157	44.43	9.0(20)	
4-Methyl-2-pentanone (MIBK)	141	13	125	0	113	20	182	133.6	5.5(20)	
cis-1,3-Dichloropropene	46.1	2.5	50	0	92	63	131	41.97	9.3(20)	
trans-1,3-Dichloropropene	45.3	2.5	50	0	91	65	136	41.29	9.3(20)	
1,1,2-Trichloroethane	50.4	2.5	50	0	101	70	131	47.37	6.1(20)	
Toluene	43.9	1.3	50	0	88	68	130	40.44	8.2(20)	
1,3-Dichloropropane	46.1	2.5	50	0	92	70	130	42.87	7.2(20)	
2-Hexanone	345	25	500	0	69	20	182	325.9	5.7(20)	
Dibromochloromethane	40.1	2.5	50	0	80	42	155	36.96	8.3(20)	
1,2-Dibromoethane (EDB)	93.4	5	100	0	93	70	130	87.12	7.0(20)	
Tetrachloroethene	44.2	2.5	50	0	88	65	130	40.58	8.6(20)	
1,1,1,2-Tetrachloroethane	46.3	2.5	50	0	93	70	130	42.45	8.7(20)	
Chlorobenzene	44.3	2.5	50	0	89	70	130	41.5	6.4(20)	
Ethylbenzene	47.4	1.3	50	0	95	68	130	44.3	6.8(20)	
m,p-Xylene	46.2	1.3	50	0	92	68	131	43.07	7.0(20)	
Bromoform	40.1	2.5	50	0	80	65	143	36.96	8.3(20)	
Styrene	39.9	2.5	50	0	80	59	153	37.21	6.9(37)	
o-Xylene	46.5	1.3	50	0	93	70	130	43.09	7.6(20)	
1,1,2,2-Tetrachloroethane	46.2	2.5	50	0	92	67	130	43.51	5.9(20)	
1,2,3-Trichloropropane	101	10	100	0	101	70	130	95.11	6.0(20)	
Isopropylbenzene	41.4	2.5	50	0	83	55	138	38.63	6.9(20)	
Bromobenzene	44	2.5	50	0	88	70	130	41.26	6.4(20)	
n-Propylbenzene	43.3	2.5	50	0	87	67	133	40.16	7.5(30)	
4-Chlorotoluene	42.5	2.5	50	0	85	70	130	39.44	7.4(20)	
2-Chlorotoluene	41.5	2.5	50	0	83	70	130	39.19	5.6(20)	
1,3,5-Trimethylbenzene	44.6	2.5	50	0	89	67	134	41.61	7.0(21)	
tert-Butylbenzene	43.1	2.5	50	0	86	55	147	40.11	7.1(20)	
1,2,4-Trimethylbenzene	44.4	2.5	50	0	89	65	135	41.62	6.5(25)	
sec-Butylbenzene	43	2.5	50	0	86	68	135	39.94	7.5(20)	
1,3-Dichlorobenzene	45.5	2.5	50	0	91	70	130	42.41	7.0(20)	
1,4-Dichlorobenzene	41.9	2.5	50	0	84	70	130	39.18	6.7(20)	
4-Isopropyltoluene	44.4	2.5	50	0	89	68	132	41.34	7.1(20)	
1,2-Dichlorobenzene	42.3	2.5	50	0	85	70	130	39.31	7.3(20)	
n-Butylbenzene	45.8	2.5	50	0	92	62	134	42.13	8.2(21)	
1,2-Dibromo-3-chloropropane (DBCP)	238	15	250	0	95	64	130	217.1	9.2(20)	



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:  
21-Oct-11

## QC Summary Report

Work Order:  
11101243

1,2,4-Trichlorobenzene	41.7	10	50	0	83	62	133	37.64	10.1(29)
Naphthalene	41.4	10	50	0	83	32	166	37.13	10.9(40)
1,2,3-Trichlorobenzene	45	10	50	0	90	55	138	40.17	11.3(36)
Xylenes, Total	92.7	1.3	100	0	93	70	130	86.16	7.3(20)
Surr: 1,2-Dichloroethane-d4	49.5		50		99	70	130		
Surr: Toluene-d8	48.8		50		98	70	130		
Surr: 4-Bromofluorobenzene	50.6		50		101	70	130		

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Billing Information :

# CHAIN-OF-CUSTODY RECORD

# AMENDED

## Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
TEL: (775) 355-1044 FAX: (775) 355-0406

# CA

WorkOrder : CHHL1101243

Report Due By : 5:00 PM On : 21-Oct-11

Client: CH2M Hill  
1000 Wilshire Boulevard  
21st Floor  
Los Angeles, CA 90017

Report Attention Daniel Jablonski (213) 228-8271 x daniel.jablonski@ch2m.com  
Matthew Mayry (213) 228-8271 x mathew.mayry@ch2m.com

EDD Required : Yes

Sampled by : S. Patel

Client's COC # : none

Job : KMEP NORWALK

Cooler Temp 0 °C Samples Received 12-Oct-11 Date Printed 21-Oct-11

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles Alpha	Sub	TAT	Requested Tests				Sample Remarks
						TPHE_W	TPHP_W	VOC_W		
CHH1101243-01A	WCW-3	10/11/11 12:47	8	0	7	TPHE(0.10) +Vinyl acetate	TPHP(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate		
CHH1101243-02A	WCW-13	10/11/11 13:17	8	0	7	TPHE(0.10) +Vinyl acetate	TPHP(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate		
CHH1101243-03A	GMW-O-4	10/11/11 09:06	8	0	7	TPHE(0.10) +Vinyl acetate	TPHP(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate		
CHH1101243-04A	GMW-O-4 (MID)	10/11/11 09:39	8	0	7	TPHE(0.10) +Vinyl acetate	TPHP(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate		
CHH1101243-05A	GMW-O-5	10/11/11 10:09	8	0	7	TPHE(0.10) +Vinyl acetate	TPHP(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate		
CHH1101243-06A	GMW-O-8	10/11/11 11:18	8	0	7	TPHE(0.10) +Vinyl acetate	TPHP(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate		
CHH1101243-07A	GMW-O-9	10/11/11 11:55	8	0	7	TPHE(0.10) +Vinyl acetate	TPHP(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate		
CHH1101243-08A	GMW-O-16	10/11/11 14:27	8	0	7	TPHE(0.10) +Vinyl acetate	TPHP(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate		

Comments: Security seals intact. Frozen Ice. Analysis: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values. Amended 10/21/11 @ 7:36 to add Total Xylenes per email from Dan Jablonski, SC.

Logged in by: Sara Coffee Signature: Sara Coffee Print Name: Sara Coffee Company: Alpha Analytical, Inc. Date/Time: 7:40 10/21/11

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : Aq(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other



Billing Information :

# CHAIN-OF-CUSTODY RECORD

**AMENDED**  
**CA**

**Alpha Analytical, Inc.**  
255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
TEL: (775) 355-1044 FAX: (775) 355-0406

**WorkOrder : CHHL1101243**  
**Report Due By : 5:00 PM On : 21-Oct-11**

Client: CH2M Hill  
1000 Wilshire Boulevard  
21st Floor  
Los Angeles, CA 90017

Report Attention: Daniel Jablonski  
Phone Number: (213) 228-8271 x  
Email Address: daniel.jablonski@ch2m.com  
Matthew Mayry (213) 228-8271 x  
matthew.mayry@ch2m.com

EDD Required : Yes

Sampled by : S. Patel

Client's COC # : none Job : KMEP NORWALK  
Cooler Temp : 0 °C Samples Received : 12-Oct-11 Date Printed : 21-Oct-11

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests			Sample Remarks
							TPHE_W	TPHP_W	VOC_W	
CHH1101243-09A	GMW-O-19	AQ	10/11/11 13:56	8	0	7	TPHE(0.10) +Vnpl acetate	TPHP(0.10) +Vnpl acetate	TPHE(0.10) +Vnpl acetate	
CHH1101243-10A	GMW-SF-7	AQ	10/11/11 07:37	8	0	7	TPHE(0.10) +Vnpl acetate	TPHP(0.10) +Vnpl acetate	TPHE(0.10) +Vnpl acetate	
CHH1101243-11A	GMW-SF-8	AQ	10/11/11 08:09	8	0	7	TPHE(0.10) +Vnpl acetate	TPHP(0.10) +Vnpl acetate	TPHE(0.10) +Vnpl acetate	
CHH1101243-12A	GMW-SF-9	AQ	10/11/11 15:11	8	0	7	TPHE(0.10) +Vnpl acetate	TPHP(0.10) +Vnpl acetate	TPHE(0.10) +Vnpl acetate	
CHH1101243-13A	TB-2	AQ	10/11/11 06:40	2	0	7			\$260/OXYS +Vnpl acetate	Reno Trip Blank 9/6/11
CHH1101243-14A	EB-2	AQ	10/11/11 08:15	8	0	7	TPHE(0.10) +Vnpl acetate	TPHP(0.10) +Vnpl acetate	TPHE(0.10) +Vnpl acetate	
CHH1101243-15A	MW-6	AQ	10/11/11 12:10	8	0	7	TPHE(0.10) +Vnpl acetate	TPHP(0.10) +Vnpl acetate	TPHE(0.10) +Vnpl acetate	
CHH1101243-16A	MW-7	AQ	10/11/11 13:35	8	0	7	TPHE(0.10) +Vnpl acetate	TPHP(0.10) +Vnpl acetate	TPHE(0.10) +Vnpl acetate	1 VOA received broken

Comments: Security seals intact. Frozen Ice. Analysis: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values. Amended 10/21/11 @ 7:36 to add Total Xylenes per email from Dan Jablonski, SC.

Logged in by: *Dana Carter* Signature: \_\_\_\_\_ Print Name: Sara Coffee Company: Alpha Analytical, Inc. Date/Time: 10/21/11 7:40

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

# CHAIN-OF-CUSTODY RECORD

# AMENDED CA

Page: 3 of 4

## Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : CHHL11101243  
Report Due By : 5:00 PM On : 21-Oct-11

Client: CH2M Hill  
1000 Wilshire Boulevard  
21st Floor  
Los Angeles, CA 90017

Report Attention: Daniel Jablonski (213) 228-8271 x  
Phone Number: (213) 228-8271 x  
Email Address: daniel.jablonski@ch2m.com  
Mathew Mayry (213) 228-8271 x  
mathew.mayry@ch2m.com

EDD Required : Yes

Sampled by : S. Patel

Client's COC # : none

Job : KMEP NORWALK

Cooler Temp : 0 °C Samples Received : 12-Oct-11 Date Printed : 21-Oct-11

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles			Requested Tests			Sample Remarks
			Alpha	Sub	TAT	TPHE_W	TPHP_W	VOC_W	
CHH11101243-17A	NW-8	AQ 10/11/11 14:35	8	0	7	TPHE(0.10) +VinyI acetate	TPHP(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	
CHH11101243-18A	NW-12	AQ 10/11/11 10:55	8	0	7	TPHE(0.10) +VinyI acetate	TPHP(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	
CHH11101243-19A	NW-19 (MID)	AQ 10/11/11 14:00	8	0	7	TPHE(0.10) +VinyI acetate	TPHP(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	
CHH11101243-20A	NW-20 (MID)	AQ 10/11/11 12:40	8	0	7	TPHE(0.10) +VinyI acetate	TPHP(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	
CHH11101243-21A	PW-3	AQ 10/11/11 11:35	8	0	7	TPHE(0.10) +VinyI acetate	TPHP(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	
CHH11101243-22A	PW-1	AQ 10/11/11 09:35	8	0	7	TPHE(0.10) +VinyI acetate	TPHP(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	
CHH11101243-23A	HL-2	AQ 10/11/11 09:00	8	0	7	TPHE(0.10) +VinyI acetate	TPHP(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	
CHH11101243-24A	GMW-3	AQ 10/11/11 10:10	8	0	7	TPHE(0.10) +VinyI acetate	TPHP(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	

Comments: Security seals intact. Frozen Ice. Analysts: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values. Amended 10/21/11 @ 7:36 to add Total Xylenes per email from Dan Jablonski, SC.

Logged in by: *Dan Jablonski* Signature: \_\_\_\_\_ Print Name: Sara Coffee Company: Alpha Analytical, Inc. Date/Time: 10/21/11 9:40

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

# CHAIN-OF-CUSTODY RECORD

**AMENDED**  
CA

**Alpha Analytical, Inc.**  
255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : CHHL1101243  
Report Due By : 5:00 PM On : 21-Oct-11

Client: CH2M Hill  
1000 Wilshire Boulevard  
21st Floor  
Los Angeles, CA 90017

Report Attention: Daniel Jablonski (213) 228-8271 x  
Phone Number: (213) 228-8271 x  
Email Address: daniel.jablonski@ch2m.com  
Matthew Mayry (213) 228-8271 x  
matthew.mayry@ch2m.com

EDD Required : Yes

Sampled by : S. Patel

Cooler Temp: 0 °C Samples Received: 12-Oct-11 Date Printed: 21-Oct-11

Client's COC # : none Job : KMEP NORWALK  
QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD with Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles Alpha Sub	TAT	Requested Tests			Sample Remarks	
					TPHE_w	TPHP_w	VOC_w		
CHH11101243-25A	GMW-13	AQ 10/11/11 07:35	8	0	7	TPHE(0.10) +Vnpl acetate	TPHP(0.10) +Vnpl acetate	TPHE(0.10) +Vnpl acetate	
CHH11101243-26A	GMW-37	AQ 10/11/11 08:10	8	0	7	TPHE(0.10) +Vnpl acetate	TPHP(0.10) +Vnpl acetate	TPHE(0.10) +Vnpl acetate	
CHH11101243-27A	GMW-39	AQ 10/11/11 15:10	8	0	7	TPHE(0.10) +Vnpl acetate	TPHP(0.10) +Vnpl acetate	TPHE(0.10) +Vnpl acetate	
CHH11101243-28A	EB-3	AQ 10/11/11 09:40	8	0	7	TPHE(0.10) +Vnpl acetate	TPHP(0.10) +Vnpl acetate	TPHE(0.10) +Vnpl acetate	
CHH11101243-29A	DUP-1	AQ 10/11/11 00:00	8	0	7	TPHE(0.10) +Vnpl acetate	TPHP(0.10) +Vnpl acetate	TPHE(0.10) +Vnpl acetate	

Comments: Security seals intact. Frozen Ice. Analysis: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values. Amended 10/21/11 @ 7:36 to add Total Xylenes per email from Dan Jablonski, SC.

Logged in by: *Dana Cooper* Signature: \_\_\_\_\_ Print Name: Sara Coffey Company: Alpha Analytical, Inc. Date/Time: 10/21/11 7:45

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : Aq(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

# CHAIN-OF-CUSTODY RECORD

# CA

## Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
 TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : CHHL1101243

Report Due By : 5:00 PM On : 21-Oct-11

Client: CH2M Hill  
 1000 Wilshire Boulevard  
 21st Floor  
 Los Angeles, CA 90017

Report Attention: Daniel Jablonski (213) 228-8271 x  
 Daniel Jablonski (213) 228-8271 x  
 Matthew Mayry (213) 228-8271 x  
 Email Address: daniel.jablonski@ch2m.com  
 mathew.mayry@ch2m.com

EDD Required : Yes

Sampled by : S. Patel

PO : Client's COC # : none Job : KMEP NORWALK  
 Cooler Temp 0 °C Samples Received 12-Oct-11 Date Printed 12-Oct-11

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles Alpha Sub TAT	Requested Tests			Sample Remarks
				TPHE_W	TPHP_W	VOC_W	
CHH11101243-18A	NW-12	AQ 10/11/11 10:55	8 0 7	TPHE(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	
CHH11101243-19A	NW-19 (MID)	AQ 10/11/11 14:00	8 0 7	TPHE(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	
CHH11101243-20A	NW-20 (MID)	AQ 10/11/11 12:40	8 0 7	TPHE(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	
CHH11101243-21A	PW-3	AQ 10/11/11 11:35	8 0 7	TPHE(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	
CHH11101243-22A	PW-1	AQ 10/11/11 09:35	8 0 7	TPHE(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	
CHH11101243-23A	HL-2	AQ 10/11/11 09:00	8 0 7	TPHE(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	
CHH11101243-24A	GMW-3	AQ 10/11/11 10:10	8 0 7	TPHE(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	
CHH11101243-25A	GMW-13	AQ 10/11/11 07:35	8 0 7	TPHE(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	

Comments: Security seals intact. Frozen Ice. Analysts: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values.

Logged in by: *Diana Smulder* Signature *Sara Coffee* Print Name  
 Company: Alpha Analytical, Inc. Date/Time: 10/12/11 11:08

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.  
 The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.  
 Matrix Type : AQC(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

# CHAIN-OF-CUSTODY RECORD

**Alpha Analytical, Inc.**  
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
 TEL: (775) 355-1044 FAX: (775) 355-0406

# CA

**WorkOrder : CHHL11101243**  
**Report Due By : 5:00 PM On : 21-Oct-11**

Client: CH2M Hill  
 1000 Wilshire Boulevard  
 21st Floor  
 Los Angeles, CA 90017

Report Attention: Daniel Jablonski  
 Phone Number: (213) 228-8271 x  
 Email Address: daniel.jablonski@ch2m.com  
 Matthew Mayry  
 (213) 228-8271 x  
 matthew.mayry@ch2m.com

EDD Required : Yes  
 Sampled by : S. Patel

Client's COC # : none Job : KMEP NORWALK

Cooler Temp : 0 °C Samples Received : 12-Oct-11 Date Printed : 12-Oct-11

QC Level : S3 = Final Rpt, MBLK, LCS, MSM/SD with Surrogates

Alpha Sample ID	Client Sample ID	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests			Sample Remarks
						TPHE_W	TPHP_W	VOC_W	
CHH11101243-26A	GMMW-37	10/11/11 08:10	8	0	7	TPHE(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	
CHH11101243-27A	GMMW-39	10/11/11 15:10	8	0	7	TPHE(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	
CHH11101243-28A	EB-3	10/11/11 09:40	8	0	7	TPHE(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	
CHH11101243-29A	DUP-1	10/11/11 00:00	8	0	7	TPHE(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	

Comments: Security seals intact. Frozen Ice. Analysis: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values. .

Logged in by: *Sharon S. Lutz* Signature: \_\_\_\_\_ Print Name: Sara Cofee  
 Company: Alpha Analytical, Inc. Date/Time: 10/12/11 11:08

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.  
 The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.  
 Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orto T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

# CHAIN-OF-CUSTODY RECORD

## Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
TEL: (775) 355-1044 FAX: (775) 355-0406

# CA

WorkOrder : CHHL1101243  
Report Due By : 5:00 PM On : 21-Oct-11

Client: CH2M Hill  
1000 Wilshire Boulevard  
21st Floor  
Los Angeles, CA 90017

Report Attention: Daniel Jablonski (213) 228-8271 x  
Phone Number: (213) 228-8271 x  
Email Address: daniel.jablonski@ch2m.com  
Mathew Mayry (213) 228-8271 x  
mathew.mayry@ch2m.com

EDD Required : Yes

Sampled by : S. Patel

Client's COC # : none  
Job : KMEP NORWALK  
QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Cooler Temp : 0 °C  
Samples Received : 12-Oct-11  
Date Printed : 12-Oct-11

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles Alpha Sub TAT	Requested Tests			Sample Remarks
				TPHE_W	TPHP_W	VOC_W	
CHH1101243-01A	WCW-3	AQ 10/11/11 12:47	8 0 7	TPHE(0.10) +Vnyl acetate	TPHE(0.10) +Vnyl acetate	TPHE(0.10) +Vnyl acetate	
CHH1101243-02A	WCW-13	AQ 10/11/11 13:17	8 0 7	TPHE(0.10) +Vnyl acetate	TPHE(0.10) +Vnyl acetate	TPHE(0.10) +Vnyl acetate	
CHH1101243-03A	GMW-O-4	AQ 10/11/11 09:06	8 0 7	TPHE(0.10) +Vnyl acetate	TPHE(0.10) +Vnyl acetate	TPHE(0.10) +Vnyl acetate	
CHH1101243-04A	GMW-O-4 (MID)	AQ 10/11/11 09:39	8 0 7	TPHE(0.10) +Vnyl acetate	TPHE(0.10) +Vnyl acetate	TPHE(0.10) +Vnyl acetate	
CHH1101243-05A	GMW-O-5	AQ 10/11/11 10:09	8 0 7	TPHE(0.10) +Vnyl acetate	TPHE(0.10) +Vnyl acetate	TPHE(0.10) +Vnyl acetate	
CHH1101243-06A	GMW-O-8	AQ 10/11/11 11:18	8 0 7	TPHE(0.10) +Vnyl acetate	TPHE(0.10) +Vnyl acetate	TPHE(0.10) +Vnyl acetate	
CHH1101243-07A	GMW-O-9	AQ 10/11/11 11:55	8 0 7	TPHE(0.10) +Vnyl acetate	TPHE(0.10) +Vnyl acetate	TPHE(0.10) +Vnyl acetate	
CHH1101243-08A	GMW-O-16	AQ 10/11/11 14:27	8 0 7	TPHE(0.10) +Vnyl acetate	TPHE(0.10) +Vnyl acetate	TPHE(0.10) +Vnyl acetate	

Comments: Security seals intact. Frozen Ice. Analysts: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values. :

Logged in by: Sara Coffee Signature: [Signature] Print Name: Sara Coffee Company: Alpha Analytical, Inc. Date/Time: 10/21/11 11:08

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

# CHAIN-OF-CUSTODY RECORD

# CA

## Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : CHHL11101243  
Report Due By : 5:00 PM On : 21-Oct-11

Client: CH2M Hill  
1000 Wishnie Boulevard  
21st Floor  
Los Angeles, CA 90017

Report Attention: Daniel Jablonski (213) 228-8271 x  
Phone Number: (213) 228-8271 x  
Email Address: daniel.jablonski@ch2m.com  
Mathew Mayry (213) 228-8271 x  
mathew.mayry@ch2m.com

EDD Required : Yes

Sampled by : S. Patel

Client's COC # : none Job : KMEP NORWALK  
Cooler Temp 0 °C Samples Received 12-Oct-11 Date Printed 12-Oct-11

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles Alpha Sub TAT	Requested Tests			Sample Remarks
				TPHEQ_W +VinyI acetate	TPHP_W acetate	VOC_W acetate	
CHH11101243-09A	GMW-O-19	AQ 10/11/11 13:56	8 0 7	TPHEQ.10 +VinyI acetate	TPHP.10 acetate	TPHEQ.10 +VinyI acetate	
CHH11101243-10A	GMW-SF-7	AQ 10/11/11 07:37	8 0 7	TPHEQ.10 +VinyI acetate	TPHP.10 acetate	TPHEQ.10 +VinyI acetate	
CHH11101243-11A	GMW-SF-8	AQ 10/11/11 08:09	8 0 7	TPHEQ.10 +VinyI acetate	TPHP.10 acetate	TPHEQ.10 +VinyI acetate	
CHH11101243-12A	GMW-SF-9	AQ 10/11/11 15:11	8 0 7	TPHEQ.10 +VinyI acetate	TPHP.10 acetate	TPHEQ.10 +VinyI acetate	
CHH11101243-13A	TB-2	AQ 10/11/11 06:40	2 0 7			8260/OXYS acetate	Reno Trip Blank 9/6/11
CHH11101243-14A	EB-2	AQ 10/11/11 08:15	8 0 7	TPHEQ.10 +VinyI acetate	TPHP.10 acetate	TPHEQ.10 +VinyI acetate	
CHH11101243-15A	MW-6	AQ 10/11/11 12:10	8 0 7	TPHEQ.10 +VinyI acetate	TPHP.10 acetate	TPHEQ.10 +VinyI acetate	
CHH11101243-16A	MW-7	AQ 10/11/11 13:35	7 0 7	TPHEQ.10 +VinyI acetate	TPHP.10 acetate	TPHEQ.10 +VinyI acetate	1 VOA received broken
CHH11101243-17A	MW-8	AQ 10/11/11 14:35	8 0 7	TPHEQ.10 +VinyI acetate	TPHP.10 acetate	TPHEQ.10 +VinyI acetate	

Comments: Security seals intact. Frozen Ice. Analysis: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values. .

Logged in by: *Sara Co Fee* Signature: *Sara Co Fee* Print Name: Sara Co Fee Company: Alpha Analytical, Inc. Date/Time: 10/21/11 11:08

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

**BLAINE**  
 TECH SERVICES, INC.  
 1680 ROGERS AVENUE  
 SAN JOSE, CALIFORNIA 95112-1105  
 FAX (408) 573-7771  
 PHONE (408) 573-0555

CHAIN OF CUSTODY  
 CLIENT Kinder Morgan  
 SITE DFSP Norwalk  
 15306 Norwalk Blvd, Norwalk

Alpha Analytical COC 1 of 3

LAB Billing Information:  
 Kinder Morgan  
 1100 Town and Country Rd.  
 Orange CA 95112  
 Kinder Morgan Norwalk  
 Report to:  
 Dan Jablonski  
 CH2MHILL  
 1000 Wilshire Blvd 21st floor  
 Los Angeles, CA 90017

SAMPLE I.D.	DATE	TIME	MATRIX A or Water	CONTAINERS			TPHg, TPHfp (EPA 8015M)	VOC's & Oxygenates (EPA 8260B)	CONDUCT ANALYSIS TO DETECT	LAB	ADDITIONAL INFORMATION	STATUS	CONDITION	LAB SAMPLE #
				#	Preservation	Type								
WLU-3	10-11-11	1247	AQ	8	HCl	UV01	X	X						CHH1101243-D1A
WLU-13		1317					X	X						-08A
GMU-0-4		0906					X	X						-08A
GMU-0-4 (MIP)		0929					X	X						-04A
GMU-0-5		1009					X	X						-05A
GMU-0-8		1118					X	X						-06A
GMU-0-9		1155					X	X						-07A
GMU-0-16		1427					X	X						-08A
GMU-0-19		1356					X	X						-09A
GMU-5F-7		0737					X	X						-10A

SAMPLING DATE | TIME | SAMPLING PERFORMED BY | RESULTS NEEDED

COMPLETED 10-11-11 1345 Sun, I Patel Standard

RELEASED BY: *P. Patel* TIME: 1615 RECEIVED BY: *N. Cole (SC)* DATE: 10/11/11 TIME: 1615

RELEASED BY: *Nicole (SC)* TIME: 1715 RECEIVED BY: *Anthony Stark* DATE: 10/11/11 TIME: 1715

RELEASED BY: *Anthony Stark* TIME: 1715 RECEIVED BY: *Anthony Stark* DATE: 10/12/11 TIME: 10:00

SHIPPED VIA: *Fastway* STARTS: *Starts* TIME SENT: COOLER #



# BLAINE

TECH SERVICES, INC.

1680 ROGERS AVENUE  
 SAN JOSE, CALIFORNIA 95112-21105  
 FAX (408) 573-7771  
 PHONE (408) 573-0555

Alpha Analytical COC 2 of 3

CHAIN OF CUSTODY

CLIENT: Kinder Morgan  
 SITE: DFSP Norwalk  
 15306 Norwalk Blvd, Norwalk

CONDUCT ANALYSIS TO DETECT

TPHg, TPHfp (EPA 8015M)	X
VOC's & Oxygenates (EPA 8260B)	X

LAB Billing Information:  
 Kinder Morgan  
 1100 Town and Country Rd.  
 Orange CA 95112

Kinder Morgan Norwalk  
 Report to:  
 Dan Jablonski  
 CH2MHILL  
 1000 Wilshire Blvd 21st floor  
 Los Angeles, CA 90017

SAMPLE I.D.	DATE	TIME	MATRIX	#	CONTAINERS		TPHg, TPHfp (EPA 8015M)	VOC's & Oxygenates (EPA 8260B)	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
					Water	Preservation Type						
GMW-3F-8	10-11-11	0809	AQ	8	HCl	WDS	X	X				-11A
GMW-3F-9		1511		2			X	X				-12A
7B-2		0640		8			X	X				-13A
EG-2		0815					X	X				-14A
MW-6		1210					X	X				-15A
MW-7		1335					X	X				-16A
MW-8		1435					X	X				-17A
MW-12		1055					X	X				-18A
MW-14 (MID)		1400					X	X				-19A
MW-20 (MID)		1240					X	X				-20A

SAMPLING COMPLETED DATE: 10-11-11 TIME: 1545 SAMPLING PERFORMED BY: SWI Paktl

RELEASED BY: J Paktl TIME: 1615 RECEIVED BY: NICOLE (SC) DATE: 10/11/11 TIME: 1615

RELEASED BY: NICOLE (SC) TIME: 1715 RECEIVED BY: Anthony Stars DATE: 10/11/11 TIME: 1715

RELEASED BY: Anthony Stars TIME: 1715 RECEIVED BY: Doreen Sulistyo DATE: 10/10/11 TIME: 10:00

SHIPPED VIA: Anthony Stars

RESULTS NEEDED  
 NO LATER THAN  
 Standard

# BLAINE

TECH SERVICES, INC.

1680 ROGERS AVENUE  
 SAN JOSE, CALIFORNIA 95112-1105  
 FAX (408) 573-7771  
 PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT

LAB

Alpha Analytical COC 3 of 3

Billing Information:  
 Kinder Morgan  
 1100 Town and Country Rd.  
 Orange CA 95112

Kinder Morgan Norwalk  
 Report to:  
 Dan Jablonski  
 CH2MHILL  
 1000 Wilshire Blvd 21st floor  
 Los Angeles, CA 90017

CHAIN OF CUSTODY

CLIENT Kinder Morgan

SITE DFSP Norwalk

15306 Norwalk Blvd, Norwalk

SAMPLE I.D.	DATE	TIME	MATRIX AQ # Water	#	CONTAINERS		TPHg, TPHfp (EPA 8015M)	VOC's & Oxygenates (EPA 8260B)	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
					Preservation	Type						
Pw-3	10-11-11	1135	AQ	8	KCI	Vols	X	X				-21A
Pw-1		0935					X	X				-22A
HL-2		0900					X	X				-23A
Gmw-3		1010					X	X				-24A
Gmw-13		0735					X	X				-25A
Gmw-37		0810					X	X				-26A
Gmw-34		1510					X	X				-27A
EG-3		0945					X	X				-28A
PWP-1							X	X				-29A

SAMPLING COMPLETED 10-11-11 1545

RELEASED BY J. Iqbal

SAMPLING PERFORMED BY Sean Iqbal

RESULTS NEEDED NO LATER THAN Standard

RECEIVED BY Nicole (SC) 10/11/11 1615

RECEIVED BY Anthony Starr 10/11/11 1715

RECEIVED BY Kavenmiller 10/11/11 10:00

RELEASED BY Nicole (SC)

RELEASED BY Anthony Starr

SHIPPED VIA

TIME SENT

COOLER #



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135  
Date Received : 10/13/11

Job: KMEP Norwalk

Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B  
Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B

Client ID :	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
<b>GMW-4</b>	TPH-E (Fuel Product)	4.2	0.10 mg/L	10/13/11	10/13/11
Lab ID : CHH11101341-01A	Surr: Nonane	103	(49-145) %REC	10/13/11	10/13/11
Date Sampled 10/12/11 11:45	TPH-P (GRO)	1.2	0.20 mg/L	10/17/11	10/17/11
	Surr: 1,2-Dichloroethane-d4	97	(70-130) %REC	10/17/11	10/17/11
	Surr: Toluene-d8	99	(70-130) %REC	10/17/11	10/17/11
	Surr: 4-Bromofluorobenzene	102	(70-130) %REC	10/17/11	10/17/11
<b>GMW-O-14</b>	TPH-E (Fuel Product)	3.4	0.10 mg/L	10/13/11	10/13/11
Lab ID : CHH11101341-02A	Surr: Nonane	92	(49-145) %REC	10/13/11	10/13/11
Date Sampled 10/12/11 14:20	TPH-P (GRO)	16	5.0 mg/L	10/17/11	10/17/11
	Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC	10/17/11	10/17/11
	Surr: Toluene-d8	100	(70-130) %REC	10/17/11	10/17/11
	Surr: 4-Bromofluorobenzene	100	(70-130) %REC	10/17/11	10/17/11
<b>MW-SF-1</b>	TPH-E (Fuel Product)	9.8	1.0 mg/L	10/13/11	10/13/11
Lab ID : CHH11101341-03A	Surr: Nonane	0	(49-145) %REC	10/13/11	10/13/11
Date Sampled 10/12/11 13:23	TPH-P (GRO)	9.5	5.0 mg/L	10/17/11	10/17/11
	Surr: 1,2-Dichloroethane-d4	97	(70-130) %REC	10/17/11	10/17/11
	Surr: Toluene-d8	99	(70-130) %REC	10/17/11	10/17/11
	Surr: 4-Bromofluorobenzene	100	(70-130) %REC	10/17/11	10/17/11
<b>MW-9</b>	TPH-E (Fuel Product)	8.7	0.10 mg/L	10/13/11	10/13/11
Lab ID : CHH11101341-04A	Surr: Nonane	109	(49-145) %REC	10/13/11	10/13/11
Date Sampled 10/12/11 12:20	TPH-P (GRO)	1.2	0.50 mg/L	10/17/11	10/17/11
	Surr: 1,2-Dichloroethane-d4	98	(70-130) %REC	10/17/11	10/17/11
	Surr: Toluene-d8	99	(70-130) %REC	10/17/11	10/17/11
	Surr: 4-Bromofluorobenzene	99	(70-130) %REC	10/17/11	10/17/11
<b>MW-15</b>	TPH-E (Fuel Product)	66	1.0 mg/L	10/13/11	10/14/11
Lab ID : CHH11101341-05A	Surr: Nonane	106	(49-145) %REC	10/13/11	10/14/11
Date Sampled 10/12/11 10:52	TPH-P (GRO)	0.59	0.20 mg/L	10/17/11	10/17/11
	Surr: 1,2-Dichloroethane-d4	98	(70-130) %REC	10/17/11	10/17/11
	Surr: Toluene-d8	99	(70-130) %REC	10/17/11	10/17/11
	Surr: 4-Bromofluorobenzene	98	(70-130) %REC	10/17/11	10/17/11
<b>MW-18 (MID)</b>	TPH-E (Fuel Product)	0.72	0.10 mg/L	10/13/11	10/13/11
Lab ID : CHH11101341-06A	Surr: Nonane	104	(49-145) %REC	10/13/11	10/13/11
Date Sampled 10/12/11 15:10	TPH-P (GRO)	1.2	0.50 mg/L	10/17/11	10/17/11
	Surr: 1,2-Dichloroethane-d4	98	(70-130) %REC	10/17/11	10/17/11
	Surr: Toluene-d8	100	(70-130) %REC	10/17/11	10/17/11
	Surr: 4-Bromofluorobenzene	99	(70-130) %REC	10/17/11	10/17/11



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

<b>Client ID : WCW-7</b>							
Lab ID :	CHH11101341-07A	TPH-E (Fuel Product)	0.12	C	0.10 mg/L	10/13/11	10/13/11
Date Sampled	10/12/11 10:13	Surr: Nonane	109		(49-145) %REC	10/13/11	10/13/11
		TPH-P (GRO)	ND		0.50 mg/L	10/17/11	10/17/11
		Surr: 1,2-Dichloroethane-d4	82		(70-130) %REC	10/17/11	10/17/11
		Surr: Toluene-d8	108		(70-130) %REC	10/17/11	10/17/11
		Surr: 4-Bromofluorobenzene	81		(70-130) %REC	10/17/11	10/17/11
<b>Client ID : EB-4</b>							
Lab ID :	CHH11101341-09A	TPH-E (Fuel Product)	ND		0.10 mg/L	10/13/11	10/14/11
Date Sampled	10/12/11 09:00	Surr: Nonane	99		(49-145) %REC	10/13/11	10/14/11
		TPH-P (GRO)	ND		0.050 mg/L	10/17/11	10/17/11
		Surr: 1,2-Dichloroethane-d4	99		(70-130) %REC	10/17/11	10/17/11
		Surr: Toluene-d8	102		(70-130) %REC	10/17/11	10/17/11
		Surr: 4-Bromofluorobenzene	98		(70-130) %REC	10/17/11	10/17/11
<b>Client ID : DUP-4</b>							
Lab ID :	CHH11101341-10A	TPH-E (Fuel Product)	3.0	**	0.10 mg/L	10/13/11	10/14/11
Date Sampled	10/12/11 00:00	Surr: Nonane	0	S51	(49-145) %REC	10/13/11	10/14/11
		TPH-P (GRO)	14		5.0 mg/L	10/18/11	10/18/11
		Surr: 1,2-Dichloroethane-d4	99		(70-130) %REC	10/18/11	10/18/11
		Surr: Toluene-d8	101		(70-130) %REC	10/18/11	10/18/11
		Surr: 4-Bromofluorobenzene	99		(70-130) %REC	10/18/11	10/18/11
<b>Client ID : GMW-1</b>							
Lab ID :	CHH11101341-11A	TPH-E (Fuel Product)	1.7	*	0.10 mg/L	10/13/11	10/14/11
Date Sampled	10/12/11 11:15	Surr: Nonane	105		(49-145) %REC	10/13/11	10/14/11
		TPH-P (GRO)	0.23		0.20 mg/L	10/17/11	10/17/11
		Surr: 1,2-Dichloroethane-d4	99		(70-130) %REC	10/17/11	10/17/11
		Surr: Toluene-d8	100		(70-130) %REC	10/17/11	10/17/11
		Surr: 4-Bromofluorobenzene	97		(70-130) %REC	10/17/11	10/17/11
<b>Client ID : GMW-14</b>							
Lab ID :	CHH11101341-12A	TPH-E (Fuel Product)	0.60	*	0.10 mg/L	10/13/11	10/14/11
Date Sampled	10/12/11 09:30	Surr: Nonane	106		(49-145) %REC	10/13/11	10/14/11
		TPH-P (GRO)	0.058		0.050 mg/L	10/17/11	10/17/11
		Surr: 1,2-Dichloroethane-d4	99		(70-130) %REC	10/17/11	10/17/11
		Surr: Toluene-d8	99		(70-130) %REC	10/17/11	10/17/11
		Surr: 4-Bromofluorobenzene	97		(70-130) %REC	10/17/11	10/17/11
<b>Client ID : GMW-27</b>							
Lab ID :	CHH11101341-13A	TPH-E (Fuel Product)	ND		0.10 mg/L	10/13/11	10/14/11
Date Sampled	10/12/11 10:05	Surr: Nonane	102		(49-145) %REC	10/13/11	10/14/11
		TPH-P (GRO)	ND		0.050 mg/L	10/17/11	10/17/11
		Surr: 1,2-Dichloroethane-d4	98		(70-130) %REC	10/17/11	10/17/11
		Surr: Toluene-d8	102		(70-130) %REC	10/17/11	10/17/11
		Surr: 4-Bromofluorobenzene	97		(70-130) %REC	10/17/11	10/17/11
<b>Client ID : GMW-38</b>							
Lab ID :	CHH11101341-14A	TPH-E (Fuel Product)	ND		0.10 mg/L	10/13/11	10/14/11
Date Sampled	10/12/11 08:15	Surr: Nonane	107		(49-145) %REC	10/13/11	10/14/11
		TPH-P (GRO)	ND		0.050 mg/L	10/17/11	10/17/11
		Surr: 1,2-Dichloroethane-d4	97		(70-130) %REC	10/17/11	10/17/11
		Surr: Toluene-d8	102		(70-130) %REC	10/17/11	10/17/11
		Surr: 4-Bromofluorobenzene	99		(70-130) %REC	10/17/11	10/17/11
<b>Client ID : GMW-SF-10</b>							
Lab ID :	CHH11101341-15A	TPH-E (Fuel Product)	ND		0.10 mg/L	10/13/11	10/14/11
Date Sampled	10/12/11 08:40	Surr: Nonane	109		(49-145) %REC	10/13/11	10/14/11
		TPH-P (GRO)	ND		0.050 mg/L	10/17/11	10/17/11
		Surr: 1,2-Dichloroethane-d4	97		(70-130) %REC	10/17/11	10/17/11
		Surr: Toluene-d8	100		(70-130) %REC	10/17/11	10/17/11
		Surr: 4-Bromofluorobenzene	99		(70-130) %REC	10/17/11	10/17/11



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Client ID : **GMW-SF-9**

Lab ID :	CHH11101341-16A	TPH-E (Fuel Product)	1.3	*	0.10 mg/L	10/13/11	10/14/11
Date Sampled	10/12/11 10:45	Surr: Nonane	104		(49-145) %REC	10/13/11	10/14/11
		TPH-P (GRO)	ND		0.10 mg/L	10/17/11	10/17/11
		Surr: 1,2-Dichloroethane-d4	97		(70-130) %REC	10/17/11	10/17/11
		Surr: Toluene-d8	101		(70-130) %REC	10/17/11	10/17/11
		Surr: 4-Bromofluorobenzene	97		(70-130) %REC	10/17/11	10/17/11

Client ID : **EB-5**

Lab ID :	CHH11101341-17A	TPH-E (Fuel Product)	ND		0.10 mg/L	10/13/11	10/14/11
Date Sampled	10/12/11 10:15	Surr: Nonane	154	S55	(49-145) %REC	10/13/11	10/14/11
		TPH-P (GRO)	ND		0.050 mg/L	10/17/11	10/17/11
		Surr: 1,2-Dichloroethane-d4	97		(70-130) %REC	10/17/11	10/17/11
		Surr: Toluene-d8	102		(70-130) %REC	10/17/11	10/17/11
		Surr: 4-Bromofluorobenzene	99		(70-130) %REC	10/17/11	10/17/11

Client ID : **DUP-2**

Lab ID :	CHH11101341-18A	TPH-E (Fuel Product)	ND		0.10 mg/L	10/13/11	10/14/11
Date Sampled	10/12/11 00:00	Surr: Nonane	108		(49-145) %REC	10/13/11	10/14/11
		TPH-P (GRO)	ND		0.050 mg/L	10/17/11	10/17/11
		Surr: 1,2-Dichloroethane-d4	97		(70-130) %REC	10/17/11	10/17/11
		Surr: Toluene-d8	102		(70-130) %REC	10/17/11	10/17/11
		Surr: 4-Bromofluorobenzene	98		(70-130) %REC	10/17/11	10/17/11

Client ID : **DUP-3**

Lab ID :	CHH11101341-19A	TPH-E (Fuel Product)	1.7	*	0.10 mg/L	10/13/11	10/14/11
Date Sampled	10/12/11 00:00	Surr: Nonane	103		(49-145) %REC	10/13/11	10/14/11
		TPH-P (GRO)	0.25		0.20 mg/L	10/17/11	10/17/11
		Surr: 1,2-Dichloroethane-d4	97		(70-130) %REC	10/17/11	10/17/11
		Surr: Toluene-d8	101		(70-130) %REC	10/17/11	10/17/11
		Surr: 4-Bromofluorobenzene	98		(70-130) %REC	10/17/11	10/17/11

\*\*Note: Reported TPH-E (Fuel Product) may contain undifferentiated diesel range hydrocarbons.

\*Note: Reported TPH-E (Fuel Product) is composed primarily of diesel range hydrocarbons.

C = Reported concentration includes additional compounds uncharacteristic of common fuels and lubricants.

Gasoline Range Organics (GRO) C4-C13

S50 = The analysis of the sample required a dilution such that the surrogate concentration was diluted below the laboratory acceptance criteria. The laboratory control sample was acceptable.

S51 = Surrogate recovery could not be determined due to the presence of co-eluting hydrocarbons

S55 = Surrogate recovery was above laboratory acceptance limits.

ND = Not Detected

*Roger Scholl*      *Randy Gardner*      *Walter Hinchman*  
 Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

10/21/11

Report Date



# Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101341-01A  
Client I.D. Number: GMW-4

Sampled: 10/12/11 11:45  
Received: 10/13/11  
Extracted: 10/17/11  
Analyzed: 10/17/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	2.0 µg/L	45 Chlorobenzene	ND	2.0 µg/L
2 Chloromethane	ND	8.0 µg/L	46 Ethylbenzene	1.4	1.0 µg/L
3 Vinyl chloride	ND	2.0 µg/L	47 m,p-Xylene	ND	1.0 µg/L
4 Chloroethane	ND	2.0 µg/L	48 Bromoform	ND	2.0 µg/L
5 Bromomethane	ND	8.0 µg/L	49 Xylenes, Total	ND	1.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	2.0 µg/L
7 Acetone	ND	40 µg/L	51 o-Xylene	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	2.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	20 µg/L	53 1,2,3-Trichloropropane	ND	8.0 µg/L
10 Dichloromethane	ND	8.0 µg/L	54 Isopropylbenzene	24	2.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	2.0 µg/L
12 Carbon disulfide	ND	10 µg/L	56 n-Propylbenzene	15	2.0 µg/L
13 trans-1,2-Dichloroethene	ND	2.0 µg/L	57 4-Chlorotoluene	ND	2.0 µg/L
14 Methyl tert-butyl ether (MTBE)	3.8	1.0 µg/L	58 2-Chlorotoluene	ND	2.0 µg/L
15 1,1-Dichloroethane	ND	2.0 µg/L	59 1,3,5-Trimethylbenzene	ND	2.0 µg/L
16 Vinyl acetate	ND	200 µg/L	60 tert-Butylbenzene	ND	2.0 µg/L
17 2-Butanone (MEK)	ND	40 µg/L	61 1,2,4-Trimethylbenzene	ND	2.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	2.0 µg/L	62 sec-Butylbenzene	5.1	2.0 µg/L
19 cis-1,2-Dichloroethene	ND	2.0 µg/L	63 1,3-Dichlorobenzene	ND	2.0 µg/L
20 Bromochloromethane	ND	2.0 µg/L	64 1,4-Dichlorobenzene	ND	2.0 µg/L
21 Chloroform	ND	2.0 µg/L	65 4-Isopropyltoluene	ND	2.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	2.0 µg/L	66 1,2-Dichlorobenzene	ND	2.0 µg/L
23 2,2-Dichloropropane	ND	2.0 µg/L	67 n-Butylbenzene	ND	2.0 µg/L
24 1,2-Dichloroethane	ND	2.0 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	12 µg/L
25 1,1,1-Trichloroethane	ND	2.0 µg/L	69 1,2,4-Trichlorobenzene	ND	8.0 µg/L
26 1,1-Dichloropropene	ND	2.0 µg/L	70 Naphthalene	26	10 µg/L
27 Carbon tetrachloride	ND	2.0 µg/L	71 1,2,3-Trichlorobenzene	ND	8.0 µg/L
28 Benzene	62	1.0 µg/L	72 Surr: 1,2-Dichloroethane-d4	97	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	2.0 µg/L	73 Surr: Toluene-d8	99	(70-130) %REC
30 Dibromomethane	ND	2.0 µg/L	74 Surr: 4-Bromofluorobenzene	102	(70-130) %REC
31 1,2-Dichloropropane	ND	2.0 µg/L			
32 Trichloroethene	ND	2.0 µg/L			
33 Bromodichloromethane	ND	2.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	2.0 µg/L			
36 trans-1,3-Dichloropropene	ND	2.0 µg/L			
37 1,1,2-Trichloroethane	ND	2.0 µg/L			
38 Toluene	ND	1.0 µg/L			
39 1,3-Dichloropropane	ND	2.0 µg/L			
40 2-Hexanone	ND	20 µg/L			
41 Dibromochloromethane	ND	2.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	4.0 µg/L			
43 Tetrachloroethene	ND	2.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	2.0 µg/L			

Reporting Limits were increased due to sample foaming.

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

*[Signature]*

10/21/11

Report Date



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101341-02A  
Client I.D. Number: GMW-O-14

Sampled: 10/12/11 14:20  
Received: 10/13/11  
Extracted: 10/17/11  
Analyzed: 10/17/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	50 µg/L	45 Chlorobenzene	ND	50 µg/L
2 Chloromethane	ND	200 µg/L	46 Ethylbenzene	ND	25 µg/L
3 Vinyl chloride	ND	50 µg/L	47 m,p-Xylene	1,700	25 µg/L
4 Chloroethane	ND	50 µg/L	48 Bromoform	ND	50 µg/L
5 Bromomethane	ND	200 µg/L	49 Xylenes, Total	2,500	25 µg/L
6 Trichlorofluoromethane	ND	50 µg/L	50 Styrene	ND	50 µg/L
7 Acetone	ND	1,000 µg/L	51 o-Xylene	810	25 µg/L
8 1,1-Dichloroethene	ND	50 µg/L	52 1,1,2,2-Tetrachloroethane	ND	50 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	500 µg/L	53 1,2,3-Trichloropropane	ND	200 µg/L
10 Dichloromethane	ND	200 µg/L	54 Isopropylbenzene	ND	50 µg/L
11 Freon-113	ND	50 µg/L	55 Bromobenzene	ND	50 µg/L
12 Carbon disulfide	ND	250 µg/L	56 n-Propylbenzene	ND	50 µg/L
13 trans-1,2-Dichloroethene	ND	50 µg/L	57 4-Chlorotoluene	ND	50 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	25 µg/L	58 2-Chlorotoluene	ND	50 µg/L
15 1,1-Dichloroethane	ND	50 µg/L	59 1,3,5-Trimethylbenzene	66	50 µg/L
16 Vinyl acetate	ND	5,000 µg/L	60 tert-Butylbenzene	ND	50 µg/L
17 2-Butanone (MEK)	ND	1,000 µg/L	61 1,2,4-Trimethylbenzene	390	50 µg/L
18 Di-isopropyl Ether (DIPE)	ND	50 µg/L	62 sec-Butylbenzene	ND	50 µg/L
19 cis-1,2-Dichloroethene	ND	50 µg/L	63 1,3-Dichlorobenzene	ND	50 µg/L
20 Bromochloromethane	ND	50 µg/L	64 1,4-Dichlorobenzene	ND	50 µg/L
21 Chloroform	ND	50 µg/L	65 4-Isopropyltoluene	ND	50 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	50 µg/L	66 1,2-Dichlorobenzene	ND	50 µg/L
23 2,2-Dichloropropane	ND	50 µg/L	67 n-Butylbenzene	ND	50 µg/L
24 1,2-Dichloroethane	ND	50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	300 µg/L
25 1,1,1-Trichloroethane	ND	50 µg/L	69 1,2,4-Trichlorobenzene	ND	200 µg/L
26 1,1-Dichloropropene	ND	50 µg/L	70 Naphthalene	ND	200 µg/L
27 Carbon tetrachloride	ND	50 µg/L	71 1,2,3-Trichlorobenzene	ND	200 µg/L
28 Benzene	4,000	25 µg/L	72 Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	50 µg/L	73 Surr: Toluene-d8	100	(70-130) %REC
30 Dibromomethane	ND	50 µg/L	74 Surr: 4-Bromofluorobenzene	100	(70-130) %REC
31 1,2-Dichloropropane	ND	50 µg/L			
32 Trichloroethene	ND	50 µg/L			
33 Bromodichloromethane	ND	50 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	250 µg/L			
35 cis-1,3-Dichloropropene	ND	50 µg/L			
36 trans-1,3-Dichloropropene	ND	50 µg/L			
37 1,1,2-Trichloroethane	ND	50 µg/L			
38 Toluene	55	25 µg/L			
39 1,3-Dichloropropane	ND	50 µg/L			
40 2-Hexanone	ND	500 µg/L			
41 Dibromochloromethane	ND	50 µg/L			
42 1,2-Dibromoethane (EDB)	ND	100 µg/L			
43 Tetrachloroethene	ND	50 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	50 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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*JAG*  
10/21/11

Report Date

Page 1 of 1



# Alpha Analytical, Inc.

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## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101341-03A  
Client I.D. Number: MW-SF-1

Sampled: 10/12/11 13:23  
Received: 10/13/11  
Extracted: 10/17/11  
Analyzed: 10/17/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	50 µg/L	45 Chlorobenzene	ND	50 µg/L
2 Chloromethane	ND	200 µg/L	46 Ethylbenzene	71	25 µg/L
3 Vinyl chloride	ND	50 µg/L	47 m,p-Xylene	37	25 µg/L
4 Chloroethane	ND	50 µg/L	48 Bromoform	ND	50 µg/L
5 Bromomethane	ND	200 µg/L	49 Xylenes, Total	37	25 µg/L
6 Trichlorofluoromethane	ND	50 µg/L	50 Styrene	ND	50 µg/L
7 Acetone	ND	1,000 µg/L	51 o-Xylene	ND	25 µg/L
8 1,1-Dichloroethane	ND	50 µg/L	52 1,1,2,2-Tetrachloroethane	ND	50 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	500 µg/L	53 1,2,3-Trichloropropane	ND	200 µg/L
10 Dichloromethane	ND	200 µg/L	54 Isopropylbenzene	ND	50 µg/L
11 Freon-113	ND	50 µg/L	55 Bromobenzene	ND	50 µg/L
12 Carbon disulfide	ND	250 µg/L	56 n-Propylbenzene	ND	50 µg/L
13 trans-1,2-Dichloroethane	ND	50 µg/L	57 4-Chlorotoluene	ND	50 µg/L
14 Methyl tert-butyl ether (MTBE)	180	25 µg/L	58 2-Chlorotoluene	ND	50 µg/L
15 1,1-Dichloroethane	ND	50 µg/L	59 1,3,5-Trimethylbenzene	ND	50 µg/L
16 Vinyl acetate	ND	5,000 µg/L	60 tert-Butylbenzene	ND	50 µg/L
17 2-Butanone (MEK)	ND	1,000 µg/L	61 1,2,4-Trimethylbenzene	ND	50 µg/L
18 Di-isopropyl Ether (DIPE)	ND	50 µg/L	62 sec-Butylbenzene	ND	50 µg/L
19 cis-1,2-Dichloroethane	ND	50 µg/L	63 1,3-Dichlorobenzene	ND	50 µg/L
20 Bromochloromethane	ND	50 µg/L	64 1,4-Dichlorobenzene	ND	50 µg/L
21 Chloroform	ND	50 µg/L	65 4-Isopropyltoluene	ND	50 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	50 µg/L	66 1,2-Dichlorobenzene	ND	50 µg/L
23 2,2-Dichloropropane	ND	50 µg/L	67 n-Butylbenzene	ND	50 µg/L
24 1,2-Dichloroethane	ND	50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	300 µg/L
25 1,1,1-Trichloroethane	ND	50 µg/L	69 1,2,4-Trichlorobenzene	ND	200 µg/L
26 1,1-Dichloropropene	ND	50 µg/L	70 Naphthalene	ND	200 µg/L
27 Carbon tetrachloride	ND	50 µg/L	71 1,2,3-Trichlorobenzene	ND	200 µg/L
28 Benzene	4,500	25 µg/L	72 Surr: 1,2-Dichloroethane-d4	97	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	50 µg/L	73 Surr: Toluene-d8	99	(70-130) %REC
30 Dibromomethane	ND	50 µg/L	74 Surr: 4-Bromofluorobenzene	100	(70-130) %REC
31 1,2-Dichloropropane	ND	50 µg/L			
32 Trichloroethene	ND	50 µg/L			
33 Bromodichloromethane	ND	50 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	250 µg/L			
35 cis-1,3-Dichloropropene	ND	50 µg/L			
36 trans-1,3-Dichloropropene	ND	50 µg/L			
37 1,1,2-Trichloroethane	ND	50 µg/L			
38 Toluene	32	25 µg/L			
39 1,3-Dichloropropane	ND	50 µg/L			
40 2-Hexanone	ND	500 µg/L			
41 Dibromochloromethane	ND	50 µg/L			
42 1,2-Dibromoethane (EDB)	ND	100 µg/L			
43 Tetrachloroethene	ND	50 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	50 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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*PS*

10/21/11

Report Date

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# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101341-04A  
Client I.D. Number: MW-9

Sampled: 10/12/11 12:20  
Received: 10/13/11  
Extracted: 10/17/11  
Analyzed: 10/17/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	5.0 µg/L	45 Chlorobenzene	ND	5.0 µg/L
2 Chloromethane	ND	20 µg/L	46 Ethylbenzene	ND	2.5 µg/L
3 Vinyl chloride	ND	5.0 µg/L	47 m,p-Xylene	ND	2.5 µg/L
4 Chloroethane	ND	5.0 µg/L	48 Bromoform	ND	5.0 µg/L
5 Bromomethane	ND	20 µg/L	49 Xylenes, Total	ND	2.5 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	5.0 µg/L
7 Acetone	ND	100 µg/L	51 o-Xylene	ND	2.5 µg/L
8 1,1-Dichloroethane	ND	5.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	5.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	50 µg/L	53 1,2,3-Trichloropropane	ND	20 µg/L
10 Dichloromethane	ND	20 µg/L	54 Isopropylbenzene	24	5.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	5.0 µg/L
12 Carbon disulfide	ND	25 µg/L	56 n-Propylbenzene	16	5.0 µg/L
13 trans-1,2-Dichloroethane	ND	5.0 µg/L	57 4-Chlorotoluene	ND	5.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	2.5 µg/L	58 2-Chlorotoluene	ND	5.0 µg/L
15 1,1-Dichloroethane	ND	5.0 µg/L	59 1,3,5-Trimethylbenzene	ND	5.0 µg/L
16 Vinyl acetate	ND	500 µg/L	60 tert-Butylbenzene	ND	5.0 µg/L
17 2-Butanone (MEK)	ND	100 µg/L	61 1,2,4-Trimethylbenzene	ND	5.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	5.0 µg/L	62 sec-Butylbenzene	ND	5.0 µg/L
19 cis-1,2-Dichloroethane	ND	5.0 µg/L	63 1,3-Dichlorobenzene	ND	5.0 µg/L
20 Bromochloromethane	ND	5.0 µg/L	64 1,4-Dichlorobenzene	ND	5.0 µg/L
21 Chloroform	ND	5.0 µg/L	65 4-Isopropyltoluene	ND	5.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	5.0 µg/L	66 1,2-Dichlorobenzene	ND	5.0 µg/L
23 2,2-Dichloropropane	ND	5.0 µg/L	67 n-Butylbenzene	ND	5.0 µg/L
24 1,2-Dichloroethane	ND	5.0 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	30 µg/L
25 1,1,1-Trichloroethane	ND	5.0 µg/L	69 1,2,4-Trichlorobenzene	ND	20 µg/L
26 1,1-Dichloropropene	ND	5.0 µg/L	70 Naphthalene	61	20 µg/L
27 Carbon tetrachloride	ND	5.0 µg/L	71 1,2,3-Trichlorobenzene	ND	20 µg/L
28 Benzene	17	2.5 µg/L	72 Surr: 1,2-Dichloroethane-d4	98	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	5.0 µg/L	73 Surr: Toluene-d8	99	(70-130) %REC
30 Dibromomethane	ND	5.0 µg/L	74 Surr: 4-Bromofluorobenzene	99	(70-130) %REC
31 1,2-Dichloropropane	ND	5.0 µg/L			
32 Trichloroethene	ND	5.0 µg/L			
33 Bromodichloromethane	ND	5.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	25 µg/L			
35 cis-1,3-Dichloropropene	ND	5.0 µg/L			
36 trans-1,3-Dichloropropene	ND	5.0 µg/L			
37 1,1,2-Trichloroethane	ND	5.0 µg/L			
38 Toluene	ND	2.5 µg/L			
39 1,3-Dichloropropane	ND	5.0 µg/L			
40 2-Hexanone	ND	50 µg/L			
41 Dibromochloromethane	ND	5.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	10 µg/L			
43 Tetrachloroethene	ND	5.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	5.0 µg/L			

Reporting Limits were increased due to sample foaming.

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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*JAG*

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# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101341-05A  
Client I.D. Number: MW-15

Sampled: 10/12/11 10:52  
Received: 10/13/11  
Extracted: 10/17/11  
Analyzed: 10/17/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	2.0 µg/L	45 Chlorobenzene	ND	2.0 µg/L
2 Chloromethane	ND	8.0 µg/L	46 Ethylbenzene	ND	1.0 µg/L
3 Vinyl chloride	ND	2.0 µg/L	47 m,p-Xylene	ND	1.0 µg/L
4 Chloroethane	ND	2.0 µg/L	48 Bromoform	ND	2.0 µg/L
5 Bromomethane	ND	8.0 µg/L	49 Xylenes, Total	ND	1.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	2.0 µg/L
7 Acetone	ND	40 µg/L	51 o-Xylene	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	2.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	20 µg/L	53 1,2,3-Trichloropropane	ND	8.0 µg/L
10 Dichloromethane	ND	8.0 µg/L	54 Isopropylbenzene	ND	2.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	2.0 µg/L
12 Carbon disulfide	ND	10 µg/L	56 n-Propylbenzene	ND	2.0 µg/L
13 trans-1,2-Dichloroethene	ND	2.0 µg/L	57 4-Chlorotoluene	ND	2.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	1.0 µg/L	58 2-Chlorotoluene	ND	2.0 µg/L
15 1,1-Dichloroethane	ND	2.0 µg/L	59 1,3,5-Trimethylbenzene	ND	2.0 µg/L
16 Vinyl acetate	ND	200 µg/L	60 tert-Butylbenzene	ND	2.0 µg/L
17 2-Butanone (MEK)	ND	40 µg/L	61 1,2,4-Trimethylbenzene	ND	2.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	2.0 µg/L	62 sec-Butylbenzene	ND	2.0 µg/L
19 cis-1,2-Dichloroethene	ND	2.0 µg/L	63 1,3-Dichlorobenzene	ND	2.0 µg/L
20 Bromochloromethane	ND	2.0 µg/L	64 1,4-Dichlorobenzene	ND	2.0 µg/L
21 Chloroform	ND	2.0 µg/L	65 4-Isopropyltoluene	ND	2.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	2.0 µg/L	66 1,2-Dichlorobenzene	ND	2.0 µg/L
23 2,2-Dichloropropane	ND	2.0 µg/L	67 n-Butylbenzene	ND	2.0 µg/L
24 1,2-Dichloroethane	ND	2.0 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	12 µg/L
25 1,1,1-Trichloroethane	ND	2.0 µg/L	69 1,2,4-Trichlorobenzene	ND	8.0 µg/L
26 1,1-Dichloropropene	ND	2.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	2.0 µg/L	71 1,2,3-Trichlorobenzene	ND	8.0 µg/L
28 Benzene	ND	1.0 µg/L	72 Surr: 1,2-Dichloroethane-d4	98	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	2.0 µg/L	73 Surr: Toluene-d8	99	(70-130) %REC
30 Dibromomethane	ND	2.0 µg/L	74 Surr: 4-Bromofluorobenzene	98	(70-130) %REC
31 1,2-Dichloropropane	ND	2.0 µg/L			
32 Trichloroethene	ND	2.0 µg/L			
33 Bromodichloromethane	ND	2.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	2.0 µg/L			
36 trans-1,3-Dichloropropene	ND	2.0 µg/L			
37 1,1,2-Trichloroethane	ND	2.0 µg/L			
38 Toluene	ND	1.0 µg/L			
39 1,3-Dichloropropane	ND	2.0 µg/L			
40 2-Hexanone	ND	20 µg/L			
41 Dibromochloromethane	ND	2.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	4.0 µg/L			
43 Tetrachloroethene	ND	2.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	2.0 µg/L			

Reporting Limits were increased due to sample foaming.

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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*[Signature]*

10/21/11

Report Date

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# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101341-06A  
Client I.D. Number: MW-18 (MID)

Sampled: 10/12/11 15:10  
Received: 10/13/11  
Extracted: 10/17/11  
Analyzed: 10/17/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	5.0 µg/L	45 Chlorobenzene	ND	5.0 µg/L
2 Chloromethane	ND	20 µg/L	46 Ethylbenzene	ND	2.5 µg/L
3 Vinyl chloride	ND	5.0 µg/L	47 m,p-Xylene	3.2	2.5 µg/L
4 Chloroethane	ND	5.0 µg/L	48 Bromoform	ND	5.0 µg/L
5 Bromomethane	ND	20 µg/L	49 Xylenes, Total	3.2	2.5 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	5.0 µg/L
7 Acetone	ND	100 µg/L	51 o-Xylene	ND	2.5 µg/L
8 1,1-Dichloroethene	ND	5.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	5.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	82	50 µg/L	53 1,2,3-Trichloropropane	ND	20 µg/L
10 Dichloromethane	ND	20 µg/L	54 Isopropylbenzene	5.2	5.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	5.0 µg/L
12 Carbon disulfide	ND	25 µg/L	56 n-Propylbenzene	5.8	5.0 µg/L
13 trans-1,2-Dichloroethene	ND	5.0 µg/L	57 4-Chlorotoluene	ND	5.0 µg/L
14 Methyl tert-butyl ether (MTBE)	4.6	2.5 µg/L	58 2-Chlorotoluene	ND	5.0 µg/L
15 1,1-Dichloroethane	ND	5.0 µg/L	59 1,3,5-Trimethylbenzene	ND	5.0 µg/L
16 Vinyl acetate	ND	500 µg/L	60 tert-Butylbenzene	ND	5.0 µg/L
17 2-Butanone (MEK)	ND	100 µg/L	61 1,2,4-Trimethylbenzene	ND	5.0 µg/L
18 Di-isopropyl Ether (DIPE)	9.3	5.0 µg/L	62 sec-Butylbenzene	ND	5.0 µg/L
19 cis-1,2-Dichloroethene	ND	5.0 µg/L	63 1,3-Dichlorobenzene	ND	5.0 µg/L
20 Bromochloromethane	ND	5.0 µg/L	64 1,4-Dichlorobenzene	ND	5.0 µg/L
21 Chloroform	ND	5.0 µg/L	65 4-Isopropyltoluene	ND	5.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	5.0 µg/L	66 1,2-Dichlorobenzene	ND	5.0 µg/L
23 2,2-Dichloropropane	ND	5.0 µg/L	67 n-Butylbenzene	ND	5.0 µg/L
24 1,2-Dichloroethane	ND	5.0 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	30 µg/L
25 1,1,1-Trichloroethane	ND	5.0 µg/L	69 1,2,4-Trichlorobenzene	ND	20 µg/L
26 1,1-Dichloropropene	ND	5.0 µg/L	70 Naphthalene	ND	20 µg/L
27 Carbon tetrachloride	ND	5.0 µg/L	71 1,2,3-Trichlorobenzene	ND	20 µg/L
28 Benzene	460	2.5 µg/L	72 Surr: 1,2-Dichloroethane-d4	98	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	5.0 µg/L	73 Surr: Toluene-d8	100	(70-130) %REC
30 Dibromomethane	ND	5.0 µg/L	74 Surr: 4-Bromofluorobenzene	99	(70-130) %REC
31 1,2-Dichloropropane	ND	5.0 µg/L			
32 Trichloroethene	ND	5.0 µg/L			
33 Bromodichloromethane	ND	5.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	25 µg/L			
35 cis-1,3-Dichloropropene	ND	5.0 µg/L			
36 trans-1,3-Dichloropropene	ND	5.0 µg/L			
37 1,1,2-Trichloroethane	ND	5.0 µg/L			
38 Toluene	ND	2.5 µg/L			
39 1,3-Dichloropropane	ND	5.0 µg/L			
40 2-Hexanone	ND	50 µg/L			
41 Dibromochloromethane	ND	5.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	10 µg/L			
43 Tetrachloroethene	ND	5.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	5.0 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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*PS*

10/21/11

Report Date

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# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101341-07A  
Client I.D. Number: WCW-7

Sampled: 10/12/11 10:13  
Received: 10/13/11  
Extracted: 10/17/11  
Analyzed: 10/17/11

### Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	1.0	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	2.2	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	21	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	96	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	101	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	98	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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*PS*

10/21/11

Report Date

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# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101341-08A  
Client I.D. Number: TB-3

Sampled: 10/12/11 06:45  
Received: 10/13/11  
Extracted: 10/17/11  
Analyzed: 10/17/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	98	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	101	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	101	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

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*[Signature]*

10/21/11

Report Date

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# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101341-09A  
Client I.D. Number: EB-4

Sampled: 10/12/11 09:00  
Received: 10/13/11  
Extracted: 10/17/11  
Analyzed: 10/17/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	102	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	98	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

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*PS*

10/21/11

Report Date

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# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101341-10A  
Client I.D. Number: DUP-4

Sampled: 10/12/11 00:00  
Received: 10/13/11  
Extracted: 10/18/11  
Analyzed: 10/18/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	50 µg/L	45 Chlorobenzene	ND	50 µg/L
2 Chloromethane	ND	200 µg/L	46 Ethylbenzene	ND	25 µg/L
3 Vinyl chloride	ND	50 µg/L	47 m,p-Xylene	1,500	25 µg/L
4 Chloroethane	ND	50 µg/L	48 Bromoform	ND	50 µg/L
5 Bromomethane	ND	200 µg/L	49 Xylenes, Total	2,300	25 µg/L
6 Trichlorofluoromethane	ND	50 µg/L	50 Styrene	ND	50 µg/L
7 Acetone	ND	1,000 µg/L	51 o-Xylene	760	25 µg/L
8 1,1-Dichloroethane	ND	50 µg/L	52 1,1,2,2-Tetrachloroethane	ND	50 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	500 µg/L	53 1,2,3-Trichloropropane	ND	200 µg/L
10 Dichloromethane	ND	200 µg/L	54 Isopropylbenzene	ND	50 µg/L
11 Freon-113	ND	50 µg/L	55 Bromobenzene	ND	50 µg/L
12 Carbon disulfide	ND	250 µg/L	56 n-Propylbenzene	ND	50 µg/L
13 trans-1,2-Dichloroethene	ND	50 µg/L	57 4-Chlorotoluene	ND	50 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	25 µg/L	58 2-Chlorotoluene	ND	50 µg/L
15 1,1-Dichloroethane	ND	50 µg/L	59 1,3,5-Trimethylbenzene	67	50 µg/L
16 Vinyl acetate	ND	5,000 µg/L	60 tert-Butylbenzene	ND	50 µg/L
17 2-Butanone (MEK)	ND	1,000 µg/L	61 1,2,4-Trimethylbenzene	380	50 µg/L
18 Di-isopropyl Ether (DIPE)	ND	50 µg/L	62 sec-Butylbenzene	ND	50 µg/L
19 cis-1,2-Dichloroethene	ND	50 µg/L	63 1,3-Dichlorobenzene	ND	50 µg/L
20 Bromochloromethane	ND	50 µg/L	64 1,4-Dichlorobenzene	ND	50 µg/L
21 Chloroform	ND	50 µg/L	65 4-Isopropyltoluene	ND	50 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	50 µg/L	66 1,2-Dichlorobenzene	ND	50 µg/L
23 2,2-Dichloropropane	ND	50 µg/L	67 n-Butylbenzene	ND	50 µg/L
24 1,2-Dichloroethane	ND	50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	300 µg/L
25 1,1,1-Trichloroethane	ND	50 µg/L	69 1,2,4-Trichlorobenzene	ND	200 µg/L
26 1,1-Dichloropropene	ND	50 µg/L	70 Naphthalene	ND	200 µg/L
27 Carbon tetrachloride	ND	50 µg/L	71 1,2,3-Trichlorobenzene	ND	200 µg/L
28 Benzene	3,600	25 µg/L	72 Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	50 µg/L	73 Surr: Toluene-d8	101	(70-130) %REC
30 Dibromomethane	ND	50 µg/L	74 Surr: 4-Bromofluorobenzene	99	(70-130) %REC
31 1,2-Dichloropropane	ND	50 µg/L			
32 Trichloroethene	ND	50 µg/L			
33 Bromodichloromethane	ND	50 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	250 µg/L			
35 cis-1,3-Dichloropropene	ND	50 µg/L			
36 trans-1,3-Dichloropropene	ND	50 µg/L			
37 1,1,2-Trichloroethane	ND	50 µg/L			
38 Toluene	52	25 µg/L			
39 1,3-Dichloropropane	ND	50 µg/L			
40 2-Hexanone	ND	500 µg/L			
41 Dibromochloromethane	ND	50 µg/L			
42 1,2-Dibromoethane (EDB)	ND	100 µg/L			
43 Tetrachloroethene	ND	50 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	50 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

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*PSJ*

10/21/11

Report Date

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# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101341-11A  
Client I.D. Number: GMW-1

Sampled: 10/12/11 11:15  
Received: 10/13/11  
Extracted: 10/17/11  
Analyzed: 10/17/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	2.0 µg/L	45 Chlorobenzene	ND	2.0 µg/L
2 Chloromethane	ND	8.0 µg/L	46 Ethylbenzene	ND	1.0 µg/L
3 Vinyl chloride	ND	2.0 µg/L	47 m,p-Xylene	ND	1.0 µg/L
4 Chloroethane	ND	2.0 µg/L	48 Bromoform	ND	2.0 µg/L
5 Bromomethane	ND	8.0 µg/L	49 Xylenes, Total	ND	1.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	2.0 µg/L
7 Acetone	ND	40 µg/L	51 o-Xylene	ND	1.0 µg/L
8 1,1-Dichloroethane	ND	2.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	20 µg/L	53 1,2,3-Trichloropropane	ND	8.0 µg/L
10 Dichloromethane	ND	8.0 µg/L	54 Isopropylbenzene	2.4	2.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	2.0 µg/L
12 Carbon disulfide	ND	10 µg/L	56 n-Propylbenzene	ND	2.0 µg/L
13 trans-1,2-Dichloroethane	ND	2.0 µg/L	57 4-Chlorotoluene	ND	2.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	1.0 µg/L	58 2-Chlorotoluene	ND	2.0 µg/L
15 1,1-Dichloroethane	ND	2.0 µg/L	59 1,3,5-Trimethylbenzene	ND	2.0 µg/L
16 Vinyl acetate	ND	200 µg/L	60 tert-Butylbenzene	ND	2.0 µg/L
17 2-Butanone (MEK)	ND	40 µg/L	61 1,2,4-Trimethylbenzene	ND	2.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	2.0 µg/L	62 sec-Butylbenzene	ND	2.0 µg/L
19 cis-1,2-Dichloroethane	ND	2.0 µg/L	63 1,3-Dichlorobenzene	ND	2.0 µg/L
20 Bromochloromethane	ND	2.0 µg/L	64 1,4-Dichlorobenzene	ND	2.0 µg/L
21 Chloroform	ND	2.0 µg/L	65 4-Isopropyltoluene	ND	2.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	2.0 µg/L	66 1,2-Dichlorobenzene	ND	2.0 µg/L
23 2,2-Dichloropropane	ND	2.0 µg/L	67 n-Butylbenzene	ND	2.0 µg/L
24 1,2-Dichloroethane	ND	2.0 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	12 µg/L
25 1,1,1-Trichloroethane	ND	2.0 µg/L	69 1,2,4-Trichlorobenzene	ND	8.0 µg/L
26 1,1-Dichloropropene	ND	2.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	2.0 µg/L	71 1,2,3-Trichlorobenzene	ND	8.0 µg/L
28 Benzene	ND	1.0 µg/L	72 Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	2.0 µg/L	73 Surr: Toluene-d8	100	(70-130) %REC
30 Dibromomethane	ND	2.0 µg/L	74 Surr: 4-Bromofluorobenzene	97	(70-130) %REC
31 1,2-Dichloropropane	ND	2.0 µg/L			
32 Trichloroethene	ND	2.0 µg/L			
33 Bromodichloromethane	ND	2.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	2.0 µg/L			
36 trans-1,3-Dichloropropene	ND	2.0 µg/L			
37 1,1,2-Trichloroethane	ND	2.0 µg/L			
38 Toluene	ND	1.0 µg/L			
39 1,3-Dichloropropane	ND	2.0 µg/L			
40 2-Hexanone	ND	20 µg/L			
41 Dibromochloromethane	ND	2.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	4.0 µg/L			
43 Tetrachloroethene	ND	2.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	2.0 µg/L			

Reporting Limits were increased due to sample foaming.

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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*[Signature]*

10/21/11

Report Date





# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101341-12A  
Client I.D. Number: GMW-14

Sampled: 10/12/11 09:30  
Received: 10/13/11  
Extracted: 10/17/11  
Analyzed: 10/17/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethane	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	99	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	97	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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*YBS*

10/21/11

Report Date

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# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101341-13A  
Client I.D. Number: GMW-27

Sampled: 10/12/11 10:05  
Received: 10/13/11  
Extracted: 10/17/11  
Analyzed: 10/17/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	300	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	0.99	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	6.0	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	98	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	102	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	97	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101341-14A  
Client I.D. Number: GMW-38

Sampled: 10/12/11 08:15  
Received: 10/13/11  
Extracted: 10/17/11  
Analyzed: 10/17/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	97	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	102	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	99	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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10/21/11

Report Date



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101341-15A  
Client I.D. Number: GMW-SF-10

Sampled: 10/12/11 08:40  
Received: 10/13/11  
Extracted: 10/17/11  
Analyzed: 10/17/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	97	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	100	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	99	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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*JSG*

10/21/11

Report Date

Page 1 of 1



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101341-16A  
Client I.D. Number: GMW-SF-9

Sampled: 10/12/11 10:45  
Received: 10/13/11  
Extracted: 10/17/11  
Analyzed: 10/17/11

### Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	4.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	1.0 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	4.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	20 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	4.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	5.0 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	100 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	20 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	1.0 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	6.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	4.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	4.0 µg/L
28 Benzene	1.5	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	97	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	101	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	97	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	1.0 µg/L			
36 trans-1,3-Dichloropropene	ND	1.0 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	10 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

Some Reporting Limits were increased due to sample foaming.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer  
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10/21/11

Report Date



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMED Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101341-17A  
Client I.D. Number: EB-5

Sampled: 10/12/11 10:15  
Received: 10/13/11  
Extracted: 10/17/11  
Analyzed: 10/17/11

### Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethane	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethane	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethane	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	97	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	102	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	99	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

*Roger Scholl*      *Randy Gardner*      *Walter Hinchman*  
Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

10/21/11

Report Date

Alpha certifies that the test results meet all requirements of NELAP unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAP (01154CA) certifications for the data reported. Test results relate only to reported samples.



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## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101341-18A  
Client I.D. Number: DUP-2

Sampled: 10/12/11 00:00  
Received: 10/13/11  
Extracted: 10/17/11  
Analyzed: 10/17/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	97	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	102	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	98	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

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*PS*  
10/21/11

Report Date

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# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101341-19A  
Client I.D. Number: DUP-3

Sampled: 10/12/11 00:00  
Received: 10/13/11  
Extracted: 10/17/11  
Analyzed: 10/17/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	2.0 µg/L	45 Chlorobenzene	ND	2.0 µg/L
2 Chloromethane	ND	8.0 µg/L	46 Ethylbenzene	ND	1.0 µg/L
3 Vinyl chloride	ND	2.0 µg/L	47 m,p-Xylene	ND	1.0 µg/L
4 Chloroethane	ND	2.0 µg/L	48 Bromoform	ND	2.0 µg/L
5 Bromomethane	ND	8.0 µg/L	49 Xylenes, Total	ND	1.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	2.0 µg/L
7 Acetone	ND	40 µg/L	51 o-Xylene	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	2.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	20 µg/L	53 1,2,3-Trichloropropane	ND	8.0 µg/L
10 Dichloromethane	ND	8.0 µg/L	54 Isopropylbenzene	2.4	2.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	2.0 µg/L
12 Carbon disulfide	ND	10 µg/L	56 n-Propylbenzene	ND	2.0 µg/L
13 trans-1,2-Dichloroethene	ND	2.0 µg/L	57 4-Chlorotoluene	ND	2.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	1.0 µg/L	58 2-Chlorotoluene	ND	2.0 µg/L
15 1,1-Dichloroethane	ND	2.0 µg/L	59 1,3,5-Trimethylbenzene	ND	2.0 µg/L
16 Vinyl acetate	ND	200 µg/L	60 tert-Butylbenzene	ND	2.0 µg/L
17 2-Butanone (MEK)	ND	40 µg/L	61 1,2,4-Trimethylbenzene	ND	2.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	2.0 µg/L	62 sec-Butylbenzene	ND	2.0 µg/L
19 cis-1,2-Dichloroethene	ND	2.0 µg/L	63 1,3-Dichlorobenzene	ND	2.0 µg/L
20 Bromochloromethane	ND	2.0 µg/L	64 1,4-Dichlorobenzene	ND	2.0 µg/L
21 Chloroform	ND	2.0 µg/L	65 4-Isopropyltoluene	ND	2.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	2.0 µg/L	66 1,2-Dichlorobenzene	ND	2.0 µg/L
23 2,2-Dichloropropane	ND	2.0 µg/L	67 n-Butylbenzene	ND	2.0 µg/L
24 1,2-Dichloroethane	ND	2.0 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	12 µg/L
25 1,1,1-Trichloroethane	ND	2.0 µg/L	69 1,2,4-Trichlorobenzene	ND	8.0 µg/L
26 1,1-Dichloropropene	ND	2.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	2.0 µg/L	71 1,2,3-Trichlorobenzene	ND	8.0 µg/L
28 Benzene	ND	1.0 µg/L	72 Surr: 1,2-Dichloroethane-d4	97	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	2.0 µg/L	73 Surr: Toluene-d8	101	(70-130) %REC
30 Dibromomethane	ND	2.0 µg/L	74 Surr: 4-Bromofluorobenzene	98	(70-130) %REC
31 1,2-Dichloropropane	ND	2.0 µg/L			
32 Trichloroethene	ND	2.0 µg/L			
33 Bromodichloromethane	ND	2.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	2.0 µg/L			
36 trans-1,3-Dichloropropene	ND	2.0 µg/L			
37 1,1,2-Trichloroethane	ND	2.0 µg/L			
38 Toluene	ND	1.0 µg/L			
39 1,3-Dichloropropane	ND	2.0 µg/L			
40 2-Hexanone	ND	20 µg/L			
41 Dibromochloromethane	ND	2.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	4.0 µg/L			
43 Tetrachloroethene	ND	2.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	2.0 µg/L			

Reporting Limits were increased due to sample foaming.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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10/21/11

Report Date

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# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## VOC Sample Preservation Report

Work Order: CHH11101341

Job: KMEP Norwalk

Alpha's Sample ID	Client's Sample ID	Matrix	pH
11101341-01A	GMW-4	Aqueous	2
11101341-02A	GMW-O-14	Aqueous	2
11101341-03A	MW-SF-1	Aqueous	5
11101341-04A	MW-9	Aqueous	2
11101341-05A	MW-15	Aqueous	2
11101341-06A	MW-18 (MID)	Aqueous	2
11101341-07A	WCW-7	Aqueous	2
11101341-08A	TB-3	Aqueous	2
11101341-09A	EB-4	Aqueous	2
11101341-10A	DUP-4	Aqueous	2
11101341-11A	GMW-1	Aqueous	2
11101341-12A	GMW-14	Aqueous	2
11101341-13A	GMW-27	Aqueous	2
11101341-14A	GMW-38	Aqueous	2
11101341-15A	GMW-SF-10	Aqueous	2
11101341-16A	GMW-SF-9	Aqueous	2
11101341-17A	EB-5	Aqueous	2
11101341-18A	DUP-2	Aqueous	2
11101341-19A	DUP-3	Aqueous	2

10/21/11

Report Date

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# Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:  
19-Oct-11

## QC Summary Report

Work Order:  
11101341

### Method Blank

File ID: 7A10121170.D

Sample ID: MBLK-27485

Analyte

TPH-E (Fuel Product)

Surr: Nonane

Type **MBLK** Test Code: **EPA Method SW8015B/C Ext**

Batch ID: 27485

Analysis Date: 10/13/2011 19:11

Run ID: FID\_7\_111013B

Prep Date: 10/13/2011 13:19

Units : mg/L

Result

PQL

SpkVal

SpkRefVal

%REC

LCL(ME)

UCL(ME)

RPDRefVal

%RPD(Limit)

Qual

ND

0.1

0.15

117

49

145

### Laboratory Control Spike

File ID: 7A10121171.D

Sample ID: LCS-27485

Analyte

TPH-E (DRO)

Surr: Nonane

Type **LCS** Test Code: **EPA Method SW8015B/C Ext**

Batch ID: 27485

Analysis Date: 10/13/2011 19:38

Run ID: FID\_7\_111013B

Prep Date: 10/13/2011 13:19

Units : mg/L

Result

PQL

SpkVal

SpkRefVal

%REC

LCL(ME)

UCL(ME)

RPDRefVal

%RPD(Limit)

Qual

2.27

0.05

2.5

91

70

130

0.168

0.15

112

49

145

### Sample Matrix Spike

File ID: 7A10121174.D

Sample ID: 11101341-02AMS

Analyte

TPH-E (DRO)

Surr: Nonane

Type **MS** Test Code: **EPA Method SW8015B/C Ext**

Batch ID: 27485

Analysis Date: 10/13/2011 20:57

Run ID: FID\_7\_111013B

Prep Date: 10/13/2011 13:19

Units : mg/L

Result

PQL

SpkVal

SpkRefVal

%REC

LCL(ME)

UCL(ME)

RPDRefVal

%RPD(Limit)

Qual

3.94

0.05

2.5

0.897

122

53

150

0.15

0.15

100

49

145

### Sample Matrix Spike Duplicate

File ID: 7A10121175.D

Sample ID: 11101341-02AMSD

Analyte

TPH-E (DRO)

Surr: Nonane

Type **MSD** Test Code: **EPA Method SW8015B/C Ext**

Batch ID: 27485

Analysis Date: 10/13/2011 21:24

Run ID: FID\_7\_111013B

Prep Date: 10/13/2011 13:19

Units : mg/L

Result

PQL

SpkVal

SpkRefVal

%REC

LCL(ME)

UCL(ME)

RPDRefVal

%RPD(Limit)

Qual

3.65

0.05

2.5

0.897

110

53

150

3.935

7.4(47)

0.107

0.15

71

49

145

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



# Alpha Analytical, Inc.

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Date:  
19-Oct-11

## QC Summary Report

Work Order:  
11101341

### Method Blank

File ID: 11101707.D

Sample ID: **MBLK MS15W1017B**

Analyte

TPH-P (GRO)

Surr: 1,2-Dichloroethane-d4

Surr: Toluene-d8

Surr: 4-Bromofluorobenzene

Type **MBLK** Test Code: **EPA Method SW8015B/C**

Batch ID: **MS15W1017B**

Analysis Date: **10/17/2011 12:06**

Run ID: **MSD\_15\_111017A**

Prep Date: **10/17/2011 12:06**

Units : mg/L

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	0.05								
Surr: 1,2-Dichloroethane-d4	0.00978		0.01		98	70	130			
Surr: Toluene-d8	0.0101		0.01		101	70	130			
Surr: 4-Bromofluorobenzene	0.00978		0.01		98	70	130			

### Laboratory Control Spike

File ID: 11101703.D

Sample ID: **GLCS MS15W1017B**

Analyte

TPH-P (GRO)

Surr: 1,2-Dichloroethane-d4

Surr: Toluene-d8

Surr: 4-Bromofluorobenzene

Type **LCS** Test Code: **EPA Method SW8015B/C**

Batch ID: **MS15W1017B**

Analysis Date: **10/17/2011 10:34**

Run ID: **MSD\_15\_111017A**

Prep Date: **10/17/2011 10:34**

Units : mg/L

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.385	0.05	0.4		96	70	130			
Surr: 1,2-Dichloroethane-d4	0.00949		0.01		95	70	130			
Surr: Toluene-d8	0.0101		0.01		101	70	130			
Surr: 4-Bromofluorobenzene	0.0101		0.01		101	70	130			

### Sample Matrix Spike

File ID: 11101713.D

Sample ID: **11101341-07AGS**

Analyte

TPH-P (GRO)

Surr: 1,2-Dichloroethane-d4

Surr: Toluene-d8

Surr: 4-Bromofluorobenzene

Type **MS** Test Code: **EPA Method SW8015B/C**

Batch ID: **MS15W1017B**

Analysis Date: **10/17/2011 14:16**

Run ID: **MSD\_15\_111017A**

Prep Date: **10/17/2011 14:16**

Units : mg/L

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2.22	0.25	2	0	111	51	144			
Surr: 1,2-Dichloroethane-d4	0.0502		0.05		100	70	130			
Surr: Toluene-d8	0.0493		0.05		99	70	130			
Surr: 4-Bromofluorobenzene	0.0492		0.05		98	70	130			

### Sample Matrix Spike Duplicate

File ID: 11101714.D

Sample ID: **11101341-07AGSD**

Analyte

TPH-P (GRO)

Surr: 1,2-Dichloroethane-d4

Surr: Toluene-d8

Surr: 4-Bromofluorobenzene

Type **MSD** Test Code: **EPA Method SW8015B/C**

Batch ID: **MS15W1017B**

Analysis Date: **10/17/2011 14:37**

Run ID: **MSD\_15\_111017A**

Prep Date: **10/17/2011 14:37**

Units : mg/L

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2.23	0.25	2	0	111	51	144	2.218	0.3(29)	
Surr: 1,2-Dichloroethane-d4	0.0501		0.05		100	70	130			
Surr: Toluene-d8	0.0496		0.05		99	70	130			
Surr: 4-Bromofluorobenzene	0.0497		0.05		99	70	130			

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.





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Date:  
21-Oct-11

## QC Summary Report

Work Order:  
11101341

n-Butylbenzene	ND	1				
1,2-Dibromo-3-chloropropane (DBCP)	ND	5				
1,2,4-Trichlorobenzene	ND	2				
Naphthalene	ND	10				
1,2,3-Trichlorobenzene	ND	2				
Xylenes, Total	ND	0.5				
Surr: 1,2-Dichloroethane-d4	9.78		10	98	70	130
Surr: Toluene-d8	10.1		10	101	70	130
Surr: 4-Bromofluorobenzene	9.78		10	98	70	130



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Date:  
21-Oct-11

## QC Summary Report

Work Order:  
11101341

### Laboratory Control Spike

File ID: 11101704.D

Type: LCS

Test Code: EPA Method SW8260B

Batch ID: MS15W1017A

Analysis Date: 10/17/2011 10:56

Sample ID: LCS MS15W1017A

Units: µg/L

Run ID: MSD\_15\_111017A

Prep Date: 10/17/2011 10:56

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	8.6	1	10		86	37	137			
Chloromethane	11.5	2	10		115	43	140			
Vinyl chloride	10.5	1	10		105	80	120			
Chloroethane	11.7	1	10		117	43	141			
Bromomethane	7.67	2	10		77	11	160			
Trichlorofluoromethane	12.9	1	10		129	40	148			
Acetone	272	10	200		136	36	171			
1,1-Dichloroethene	9.82	1	10		98	80	120			
Tertiary Butyl Alcohol (TBA)	94.1	10	100		94	44	156			
Dichloromethane	9.47	2	10		95	69	130			
Freon-113	10.6	1	10		106	70	137			
trans-1,2-Dichloroethene	9.85	1	10		99	70	130			
Methyl tert-butyl ether (MTBE)	10.8	0.5	10		108	65	140			
1,1-Dichloroethane	10.1	1	10		101	70	130			
2-Butanone (MEK)	265	10	200		132	23	182			
Di-isopropyl Ether (DIPE)	10.3	1	10		103	70	130			
cis-1,2-Dichloroethene	9.83	1	10		98	70	130			
Bromochloromethane	10.5	1	10		105	70	132			
Chloroform	10.5	1	10		105	80	120			
Ethyl Tertiary Butyl Ether (ETBE)	10	1	10		100	65	139			
2,2-Dichloropropane	9.76	1	10		98	68	154			
1,2-Dichloroethane	11.2	1	10		112	70	132			
1,1,1-Trichloroethane	10.3	1	10		103	70	135			
1,1-Dichloropropene	10.7	1	10		107	70	130			
Carbon tetrachloride	9.57	1	10		96	61	148			
Benzene	10.2	0.5	10		102	70	130			
Tertiary Amyl Methyl Ether (TAME)	11.4	1	10		114	68	134			
Dibromomethane	10.7	1	10		107	70	130			
1,2-Dichloropropane	9.98	1	10		99.8	80	120			
Trichloroethene	10.1	1	10		101	65	144			
Bromodichloromethane	10.3	1	10		103	50	157			
4-Methyl-2-pentanone (MIBK)	30.2	2.5	25		121	20	182			
cis-1,3-Dichloropropene	10	1	10		100	70	131			
trans-1,3-Dichloropropene	9.65	1	10		97	70	136			
1,1,2-Trichloroethane	10.6	1	10		106	70	130			
Toluene	9.65	0.5	10		97	80	120			
1,3-Dichloropropane	9.78	1	10		98	70	130			
2-Hexanone	105	5	100		105	20	182			
Dibromochloromethane	8.62	1	10		86	42	155			
1,2-Dibromoethane (EDB)	19.9	2	20		99.6	70	130			
Tetrachloroethene	9.56	1	10		96	70	130			
1,1,1,2-Tetrachloroethane	9.8	1	10		98	70	130			
Chlorobenzene	9.73	1	10		97	70	130			
Ethylbenzene	10.4	0.5	10		104	80	120			
m,p-Xylene	10.2	0.5	10		102	70	130			
Bromoform	8.58	1	10		86	68	143			
Styrene	8.79	1	10		88	64	153			
o-Xylene	10.2	0.5	10		102	70	130			
1,1,2,2-Tetrachloroethane	9.63	1	10		96	70	130			
1,2,3-Trichloropropane	21.1	2	20		105	70	130			
Isopropylbenzene	9.04	1	10		90	68	138			
Bromobenzene	9.6	1	10		96	70	130			
n-Propylbenzene	9.4	1	10		94	70	133			
4-Chlorotoluene	9.08	1	10		91	70	130			
2-Chlorotoluene	9.07	1	10		91	70	130			
1,3,5-Trimethylbenzene	9.69	1	10		97	70	134			
tert-Butylbenzene	9.32	1	10		93	55	147			
1,2,4-Trimethylbenzene	9.72	1	10		97	70	134			
sec-Butylbenzene	9.24	1	10		92	70	135			
1,3-Dichlorobenzene	9.84	1	10		98	70	130			
1,4-Dichlorobenzene	9.11	1	10		91	70	130			
4-Isopropyltoluene	9.56	1	10		96	70	132			
1,2-Dichlorobenzene	9.19	1	10		92	70	130			
n-Butylbenzene	9.77	1	10		98	70	134			
1,2-Dibromo-3-chloropropane (DBCP)	49	3	50		98	67	130			



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**Date:**

21-Oct-11

## QC Summary Report

**Work Order:**

11101341

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1,2,4-Trichlorobenzene	8.77	2	10	88	67	132
Naphthalene	8.52	2	10	85	38	154
1,2,3-Trichlorobenzene	9.24	2	10	92	56	137
Xylenes, Total	20.3	0.5	20	102	70	130
Surr: 1,2-Dichloroethane-d4	9.54		10	95	70	130
Surr: Toluene-d8	9.8		10	98	70	130
Surr: 4-Bromofluorobenzene	10.1		10	101	70	130



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Date:  
21-Oct-11

## QC Summary Report

Work Order:  
11101341

### Sample Matrix Spike

File ID: 11101711.D

Type: MS

Test Code: EPA Method SW8260B

Batch ID: MS15W1017A

Analysis Date: 10/17/2011 13:33

Sample ID: 11101341-07AMS

Units: µg/L

Run ID: MSD\_15\_111017A

Prep Date: 10/17/2011 13:33

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	31.2	2.5	50	0	62	21	138			
Chloromethane	45.7	10	50	0	91	23	144			
Vinyl chloride	58	2.5	50	0	116	49	136			
Chloroethane	60.2	2.5	50	0	120	21	159			
Bromomethane	33.4	10	50	0	67	10	174			
Trichlorofluoromethane	69.4	2.5	50	0	139	32	154			
Acetone	745	50	1000	0	75	10	171			
1,1-Dichloroethene	51	2.5	50	0	102	64	130			
Tertiary Butyl Alcohol (TBA)	570	25	500	0	114	41	157			
Dichloromethane	49.8	10	50	0	99.6	69	130			
Freon-113	57.5	2.5	50	0	115	55	141			
trans-1,2-Dichloroethene	51.2	2.5	50	0	102	63	130			
Methyl tert-butyl ether (MTBE)	58.9	1.3	50	1.02	116	47	150			
1,1-Dichloroethane	52.8	2.5	50	0	106	66	130			
2-Butanone (MEK)	1040	50	1000	0	104	23	182			
Di-isopropyl Ether (DIPE)	56.9	2.5	50	2.22	109	59	139			
cis-1,2-Dichloroethene	51.8	2.5	50	0	104	70	130			
Bromochloromethane	55	2.5	50	0	110	70	132			
Chloroform	54.2	2.5	50	0	108	70	130			
Ethyl Tertiary Butyl Ether (ETBE)	52.2	2.5	50	0	104	59	182			
2,2-Dichloropropane	51.2	2.5	50	0	102	38	154			
1,2-Dichloroethane	82.5	2.5	50	20.81	123	65	134			
1,1,1-Trichloroethane	54.3	2.5	50	0	109	65	136			
1,1-Dichloropropene	56.7	2.5	50	0	113	68	132			
Carbon tetrachloride	52.7	2.5	50	0	105	58	148			
Benzene	52.9	1.3	50	0	106	59	138			
Tertiary Amyl Methyl Ether (TAME)	61.8	2.5	50	0	124	63	135			
Dibromomethane	57	2.5	50	0	114	70	130			
1,2-Dichloropropane	51.5	2.5	50	0	103	70	131			
Trichloroethene	52.2	2.5	50	0	104	65	144			
Bromodichloromethane	53.7	2.5	50	0	107	50	157			
4-Methyl-2-pentanone (MIBK)	152	13	125	0	121	20	182			
cis-1,3-Dichloropropene	48.4	2.5	50	0	97	63	131			
trans-1,3-Dichloropropene	48	2.5	50	0	96	65	136			
1,1,2-Trichloroethane	55.1	2.5	50	0	110	70	131			
Toluene	49.7	1.3	50	0	99	68	130			
1,3-Dichloropropane	51	2.5	50	0	102	70	130			
2-Hexanone	375	25	500	0	75	20	182			
Dibromochloromethane	44.8	2.5	50	0	90	42	155			
1,2-Dibromoethane (EDB)	102	5	100	0	102	70	130			
Tetrachloroethene	49.8	2.5	50	0	99.6	65	130			
1,1,1,2-Tetrachloroethane	51.2	2.5	50	0	102	70	130			
Chlorobenzene	49.5	2.5	50	0	99	70	130			
Ethylbenzene	53.3	1.3	50	0	107	68	130			
m,p-Xylene	51.4	1.3	50	0	103	68	131			
Bromoform	44.9	2.5	50	0	90	65	143			
Styrene	44.4	2.5	50	0	89	59	153			
o-Xylene	51.5	1.3	50	0	103	70	130			
1,1,2,2-Tetrachloroethane	51	2.5	50	0	102	67	130			
1,2,3-Trichloropropane	111	10	100	0	111	70	130			
Isopropylbenzene	44.5	2.5	50	0	89	55	138			
Bromobenzene	47.4	2.5	50	0	95	70	130			
n-Propylbenzene	46.2	2.5	50	0	92	67	133			
4-Chlorotoluene	44.8	2.5	50	0	90	70	130			
2-Chlorotoluene	44.5	2.5	50	0	89	70	130			
1,3,5-Trimethylbenzene	47.7	2.5	50	0	95	67	134			
tert-Butylbenzene	46.2	2.5	50	0	92	55	147			
1,2,4-Trimethylbenzene	47.6	2.5	50	0	95	65	135			
sec-Butylbenzene	45.8	2.5	50	0	92	68	135			
1,3-Dichlorobenzene	48.9	2.5	50	0	98	70	130			
1,4-Dichlorobenzene	45	2.5	50	0	90	70	130			
4-Isopropyltoluene	47.7	2.5	50	0	95	68	132			
1,2-Dichlorobenzene	46	2.5	50	0	92	70	130			
n-Butylbenzene	49.3	2.5	50	0	99	62	134			
1,2-Dibromo-3-chloropropane (DBCP)	265	15	250	0	106	64	130			





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**Date:**

21-Oct-11

## QC Summary Report

**Work Order:**

11101341

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1,2,4-Trichlorobenzene	50.1	10	50	0	100	62	133
Naphthalene	51.1	10	50	0	102	32	166
1,2,3-Trichlorobenzene	57.5	10	50	0	115	55	138
Xylenes, Total	103	1.3	100	0	103	70	130
Surr: 1,2-Dichloroethane-d4	50.5		50		101	70	130
Surr: Toluene-d8	49.1		50		98	70	130
Surr: 4-Bromofluorobenzene	48		50		96	70	130



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## QC Summary Report

Work Order:  
11101341

Date:  
21-Oct-11

Sample Matrix Spike Duplicate  
File ID: 11101712.D

Type: MSD Test Code: EPA Method SW8260B

Batch ID: MS15W1017A

Analysis Date: 10/17/2011 13:54

Sample ID: 11101341-07AMSD

Units: µg/L

Run ID: MSD\_15\_111017A

Prep Date: 10/17/2011 13:54

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	30.4	2.5	50	0	61	21	138	31.17	2.5(33)	
Chloromethane	46.6	10	50	0	93	23	144	45.72	1.8(27)	
Vinyl chloride	57.3	2.5	50	0	115	49	136	57.95	1.2(21)	
Chloroethane	57.3	2.5	50	0	115	21	159	60.22	4.9(40)	
Bromomethane	37.1	10	50	0	74	10	174	33.41	10.5(40)	
Trichlorofluoromethane	65.6	2.5	50	0	131	32	154	69.41	5.7(37)	
Acetone	722	50	1000	0	72	10	171	745.2	3.2(23)	
1,1-Dichloroethene	49.3	2.5	50	0	99	64	130	50.95	3.3(21)	
Tertiary Butyl Alcohol (TBA)	607	25	500	0	121	41	157	569.9	6.4(30)	
Dichloromethane	49	10	50	0	98	69	130	49.8	1.7(20)	
Freon-113	56	2.5	50	0	112	55	141	57.5	2.7(40)	
trans-1,2-Dichloroethene	50.4	2.5	50	0	101	63	130	51.23	1.7(20)	
Methyl tert-butyl ether (MTBE)	58.7	1.3	50	1.02	115	47	150	58.9	0.3(40)	
1,1-Dichloroethane	51.7	2.5	50	0	103	66	130	52.83	2.2(20)	
2-Butanone (MEK)	1010	50	1000	0	101	23	182	1038	3.0(22)	
Di-isopropyl Ether (DIPE)	56.4	2.5	50	2.22	108	59	139	56.91	1.0(20)	
cis-1,2-Dichloroethene	50.2	2.5	50	0	100	70	130	51.83	3.1(20)	
Bromochloromethane	54.4	2.5	50	0	109	70	132	54.98	1.1(20)	
Chloroform	53.7	2.5	50	0	107	70	130	54.2	1.0(20)	
Ethyl Tertiary Butyl Ether (ETBE)	52.7	2.5	50	0	105	59	182	52.2	1.0(40)	
2,2-Dichloropropane	51.3	2.5	50	0	103	38	154	51.17	0.3(22)	
1,2-Dichloroethane	81	2.5	50	20.81	120	65	134	82.49	1.8(20)	
1,1,1-Trichloroethane	54	2.5	50	0	108	65	136	54.31	0.6(20)	
1,1-Dichloropropene	54.9	2.5	50	0	110	68	132	56.65	3.1(20)	
Carbon tetrachloride	53.1	2.5	50	0	106	58	148	52.72	0.8(20)	
Benzene	51.7	1.3	50	0	103	59	138	52.89	2.3(21)	
Tertiary Amyl Methyl Ether (TAME)	59	2.5	50	0	118	63	135	61.8	4.6(40)	
Dibromomethane	56.3	2.5	50	0	113	70	130	56.96	1.2(20)	
1,2-Dichloropropane	50.5	2.5	50	0	101	70	131	51.49	2.0(20)	
Trichloroethene	50.9	2.5	50	0	102	65	144	52.16	2.5(20)	
Bromodichloromethane	53.3	2.5	50	0	107	50	157	53.72	0.8(20)	
4-Methyl-2-pentanone (MIBK)	151	13	125	0	121	20	182	151.5	0.6(20)	
cis-1,3-Dichloropropene	48.2	2.5	50	0	96	63	131	48.41	0.4(20)	
trans-1,3-Dichloropropene	47.9	2.5	50	0	96	65	136	47.95	0.1(20)	
1,1,2-Trichloroethane	54.2	2.5	50	0	108	70	131	55.06	1.6(20)	
Toluene	48.6	1.3	50	0	97	68	130	49.7	2.3(20)	
1,3-Dichloropropane	50.2	2.5	50	0	100	70	130	50.98	1.5(20)	
2-Hexanone	368	25	500	0	74	20	182	374.9	1.9(20)	
Dibromochloromethane	45	2.5	50	0	90	42	155	44.76	0.4(20)	
1,2-Dibromoethane (EDB)	101	5	100	0	101	70	130	102.2	1.4(20)	
Tetrachloroethene	48.9	2.5	50	0	98	65	130	49.82	1.9(20)	
1,1,1,2-Tetrachloroethane	50.3	2.5	50	0	101	70	130	51.16	1.7(20)	
Chlorobenzene	48.1	2.5	50	0	96	70	130	49.54	2.9(20)	
Ethylbenzene	51.7	1.3	50	0	103	68	130	53.32	3.1(20)	
m,p-Xylene	49.9	1.3	50	0	99.9	68	131	51.43	3.0(20)	
Bromoform	44.9	2.5	50	0	90	65	143	44.9	0.0(20)	
Styrene	43.3	2.5	50	0	87	59	153	44.4	2.4(37)	
o-Xylene	50.2	1.3	50	0	100	70	130	51.51	2.6(20)	
1,1,2,2-Tetrachloroethane	49.8	2.5	50	0	99.6	67	130	50.95	2.3(20)	
1,2,3-Trichloropropane	107	10	100	0	107	70	130	111.1	3.7(20)	
Isopropylbenzene	44.2	2.5	50	0	88	55	138	44.46	0.6(20)	
Bromobenzene	47.1	2.5	50	0	94	70	130	47.39	0.6(20)	
n-Propylbenzene	46	2.5	50	0	92	67	133	46.24	0.5(30)	
4-Chlorotoluene	45	2.5	50	0	90	70	130	44.84	0.3(20)	
2-Chlorotoluene	44.4	2.5	50	0	89	70	130	44.48	0.2(20)	
1,3,5-Trimethylbenzene	47.4	2.5	50	0	95	67	134	47.72	0.6(21)	
tert-Butylbenzene	46	2.5	50	0	92	55	147	46.17	0.3(20)	
1,2,4-Trimethylbenzene	47.7	2.5	50	0	95	65	135	47.55	0.4(25)	
sec-Butylbenzene	45.6	2.5	50	0	91	68	135	45.82	0.6(20)	
1,3-Dichlorobenzene	49	2.5	50	0	98	70	130	48.88	0.3(20)	
1,4-Dichlorobenzene	45.5	2.5	50	0	91	70	130	44.95	1.2(20)	
4-Isopropyltoluene	47.7	2.5	50	0	95	68	132	47.67	0.0(20)	
1,2-Dichlorobenzene	46	2.5	50	0	92	70	130	46.04	0.1(20)	
n-Butylbenzene	49.7	2.5	50	0	99	62	134	49.26	0.8(21)	
1,2-Dibromo-3-chloropropane (DBCP)	268	15	250	0	107	64	130	265.4	1.0(20)	



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Date:	QC Summary Report								Work Order:
21-Oct-11									11101341
1,2,4-Trichlorobenzene	51.6	10	50	0	103	62	133	50.07	3.1(29)
Naphthalene	53	10	50	0	106	32	166	51.11	3.7(40)
1,2,3-Trichlorobenzene	58.6	10	50	0	117	55	138	57.46	1.9(36)
Xylenes, Total	100	1.3	100	0	100	70	130	102.9	2.8(20)
Surr: 1,2-Dichloroethane-d4	50.9		50		102	70	130		
Surr: Toluene-d8	48.9		50		98	70	130		
Surr: 4-Bromofluorobenzene	49		50		98	70	130		

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**Comments:**

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Billing Information :

**CHAIN-OF-CUSTODY RECORD**

**AMENDED**

**Alpha Analytical, Inc.**

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
 TEL: (775) 355-1044 FAX: (775) 355-0406

**CA**

WorkOrder : CHHL1101341

Report Due By : 5:00 PM On : 24-Oct-11

Client: CH2M Hill  
 1000 Wilshire Boulevard  
 21st Floor  
 Los Angeles, CA 90017

Report Attention Daniel Jablonski (213) 228-8271 x daniel.jablonski@ch2m.com  
 Matthew Mayry (213) 228-8271 x matthew.mayry@ch2m.com

EDD Required : Yes

Sampled by : S. Patel

PO : Client's COC # : none

Job : KMEP Norwalk

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Cooler Temp 3 °C Samples Received 13-Oct-11 Date Printed 21-Oct-11

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles Alpha Sub	TAT	Requested Tests			Sample Remarks	
					TPHE_W +VinyI acetate	TPHP_W +VinyI acetate	VOC_W +VinyI acetate		
CHH1101341-01A	GMW-4	10/12/11 11:45	8	0	7	TPHE(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	
CHH1101341-02A	GMW-O-14	10/12/11 14:20	8	0	7	TPHE(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	
CHH1101341-03A	MMW-SF-1	10/12/11 13:23	8	0	7	TPHE(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	
CHH1101341-04A	MMW-9	10/12/11 12:20	8	0	7	TPHE(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	
CHH1101341-05A	MMW-15	10/12/11 10:52	7	0	7	TPHE(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	1 VOA received broken
CHH1101341-06A	MMW-18 (MID)	10/12/11 15:10	7	0	7	TPHE(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	1 VOA received broken
CHH1101341-07A	WCW-7	10/12/11 10:13	8	0	7	TPHE(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	
CHH1101341-08A	TB-3	10/12/11 06:45	2	0	7	TPHE(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	8260.OXYS +VinyI acetate	Reno Trip Blank 9/6/11

Comments: Security seals intact. Frozen Ice. Analysts: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values. Amended 10/21/11 @ 7:51 to add Total Xylenes per email from Dan Jablonski, SC.

Logged in by: Sara Coffee Signature: [Signature] Print Name: Sara Coffee Company: Alpha Analytical, Inc. Date/Time: 10/11/11 7:57

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

# CHAIN-OF-CUSTODY RECORD

# AMENDED

Page: 2 of 3

## Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : CHHL11101341  
Report Due By : 5:00 PM On : 24-Oct-11

Client: CH2M Hill  
1000 Wilshire Boulevard  
21st Floor  
Los Angeles, CA 90017

Report Attention Daniel Jablonski (213) 228-8271 x daniel.jablonski@ch2m.com  
Matthew Mayry (213) 228-8271 x matthew.mayry@ch2m.com

EDD Required : Yes

Sampled by : S. Patel

PO :  
Client's COC # : none  
Job : KMEP Norwalk

Cooler Temp 3 °C Samples Received 13-Oct-11 Date Printed 21-Oct-11

QC Level : S3 = Final Rpt, MBLK, LCS, MSMSD with Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles Alpha Sub TAT	Requested Tests			Sample Remarks
				TPHE_W +Vnyl acetate	TPHP_W +Vnyl acetate	VOC_W +Vnyl acetate	
CHH11101341-09A	EB-4	AQ 10/12/11 09:00	8 0 7	TPHE(0.10) +Vnyl acetate	TPHE(0.10) +Vnyl acetate	TPHE(0.10) +Vnyl acetate	
CHH11101341-10A	DUP-4	AQ 10/12/11 00:00	8 0 7	TPHE(0.10) +Vnyl acetate	TPHE(0.10) +Vnyl acetate	TPHE(0.10) +Vnyl acetate	
CHH11101341-11A	GMW-1	AQ 10/12/11 11:15	8 0 7	TPHE(0.10) +Vnyl acetate	TPHE(0.10) +Vnyl acetate	TPHE(0.10) +Vnyl acetate	
CHH11101341-12A	GMW-14	AQ 10/12/11 09:30	7 0 7	TPHE(0.10) +Vnyl acetate	TPHE(0.10) +Vnyl acetate	TPHE(0.10) +Vnyl acetate	1 VOA received broken
CHH11101341-13A	GMW-27	AQ 10/12/11 10:05	8 0 7	TPHE(0.10) +Vnyl acetate	TPHE(0.10) +Vnyl acetate	TPHE(0.10) +Vnyl acetate	
CHH11101341-14A	GMW-38	AQ 10/12/11 08:15	8 0 7	TPHE(0.10) +Vnyl acetate	TPHE(0.10) +Vnyl acetate	TPHE(0.10) +Vnyl acetate	
CHH11101341-15A	GMW-SF-10	AQ 10/12/11 08:40	8 0 7	TPHE(0.10) +Vnyl acetate	TPHE(0.10) +Vnyl acetate	TPHE(0.10) +Vnyl acetate	
CHH11101341-16A	GMW-SF-9	AQ 10/12/11 10:45	8 0 7	TPHE(0.10) +Vnyl acetate	TPHE(0.10) +Vnyl acetate	TPHE(0.10) +Vnyl acetate	

Comments: Security seals intact. Frozen Ice. Analysis: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values. Amended 10/21/11 @ 7:51 to add Total Xylenes per email from Dan Jablonski, SC.

Logged in by: Sara Coffe Signature: [Signature] Print Name: Sara Coffe Company: Alpha Analytical, Inc. Date/Time: 10/24/11 7:59

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

# CHAIN-OF-CUSTODY RECORD

# AMENDED CA

**Alpha Analytical, Inc.**  
255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
TEL: (775) 355-1044 FAX: (775) 355-0406

**WorkOrder : CHH11101341**  
**Report Due By : 5:00 PM On : 24-Oct-11**

Client:  
CH2M Hill  
1000 Wilshire Boulevard  
21st Floor  
Los Angeles, CA 90017

Report Attention    Phone Number    Email Address  
Daniel Jablonski    (213) 228-8271 x    daniel.jablonski@ch2m.com  
Matthew Mayry    (213) 228-8271 x    matthew.mayry@ch2m.com

EDD Required : Yes

Sampled by : S. Patel

Client's COC # : none    Job : KMEP Nonwalk  
QC Level : S3    = Final Rpt, MBLK, LCS, MS/MSD With Surrogates  
Cooler Temp    Samples Received    Date Printed  
3 °C    13-Oct-11    21-Oct-11

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles Alpha Sub	TAT	Requested Tests			Sample Remarks	
					TPHE_W +Vmyl acetate	TPHP_W +Vmyl acetate	VOC_W +Vmyl acetate		
CHH11101341-17A	EB-5	AQ 10/12/11 10:15	8	0	7	TPHE(0.10) +Vmyl acetate	TPHP(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	
CHH11101341-18A	DUP-2	AQ 10/12/11 00:00	8	0	7	TPHE(0.10) +Vmyl acetate	TPHP(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	
CHH11101341-19A	DUP-3	AQ 10/12/11 00:00	8	0	7	TPHE(0.10) +Vmyl acetate	TPHP(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	

Comments: Security seals intact. Frozen Ice. Analysts: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values. Amended 10/21/11 @ 7:51 to add Total Xylenes per email from Dan Jablonski. SC:

Logged in by: Sara Cooper    Signature: [Signature]    Print Name: Sara Coftel    Company: Alpha Analytical, Inc.    Date/Time: 10/21/11 7:57

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other)    Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

# CHAIN-OF-CUSTODY RECORD

# CA

## Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
 TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : CHHL1101341  
 Report Due By : 5:00 PM On : 24-Oct-11

Client: CH2M Hill  
 1000 Wilshire Boulevard  
 21st Floor  
 Los Angeles, CA 90017

Report Attention: Daniel Jablonski (213) 228-8271 x  
 Daniel Jablonski (213) 228-8271 x  
 Matthew Mayry (213) 228-8271 x  
 Email Address: daniel.jablonski@ch2m.com  
 matthew.mayry@ch2m.com

EDD Required : Yes

Sampled by : S. Patel

Cooler Temp: 3 °C Samples Received: 13-Oct-11 Date Printed: 13-Oct-11

Client's COC # : none Job : KMEP Norwalk  
 QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD with Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles Alpha Sub	TAT	Requested Tests			Sample Remarks	
					TPHE_w	TPHP_w	VOC_w		
CHH11101341-01A	GMW-4	AQ 10/12/11 11:45	8	0	7	TPHE(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	
CHH11101341-02A	GMW-O-14	AQ 10/12/11 14:20	8	0	7	TPHE(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	
CHH11101341-03A	MW-SF-1	AQ 10/12/11 13:23	8	0	7	TPHE(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	
CHH11101341-04A	MW-9	AQ 10/12/11 12:20	8	0	7	TPHE(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	
CHH11101341-05A	MW-15	AQ 10/12/11 10:52	7	0	7	TPHE(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	1 VOA received broken
CHH11101341-06A	MW-18 (MID)	AQ 10/12/11 15:10	7	0	7	TPHE(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	1 VOA received broken
CHH11101341-07A	WCW-7	AQ 10/12/11 10:13	8	0	7	TPHE(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	
CHH11101341-08A	TB-3	AQ 10/12/11 06:45	2	0	7			8260/OXYS	Reno Trip Blank 9/6/11
CHH11101341-09A	EB-4	AQ 10/12/11 09:00	8	0	7	TPHE(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	

Comments: Security seals intact. Frozen Ice. Analysis: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values. .

Logged in by: *Deven M Cooper* Signature: \_\_\_\_\_ Print Name: Sara Coffe  
 Company: Alpha Analytical, Inc. Date/Time: 10/13/11 11:29

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.  
 The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.  
 Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

# CHAIN-OF-CUSTODY RECORD

# CA

**Alpha Analytical, Inc.**  
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
 TEL: (775) 355-1044 FAX: (775) 355-0406

**WorkOrder : CHHL11101341**  
**Report Due By : 5:00 PM On : 24-Oct-11**

Client: CH2M Hill  
 1000 Wilshire Boulevard  
 21st Floor  
 Los Angeles, CA 90017

Report Attention: Daniel Jablonski (213) 228-8271 x  
 Daniel Jablonski (213) 228-8271 x  
 Email Address: daniel.jablonski@ch2m.com  
 mathew.mayry@ch2m.com

EDD Required : Yes

Sampled by : S. Patel

PO : Los Angeles, CA 90017  
 Client's COC # : none  
 Job : KMEP Norwalk  
 Cooler Temp 3 °C Samples Received 13-Oct-11 Date Printed 13-Oct-11

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles Alpha Sub	TAT	Requested Tests			Sample Remarks	
					TPHE_w	TPHP_w	VOC_w		
CHH11101341-10A	DUP-4	AQ 10/12/11 00:00	8	0	7	TPHE(0.10) +Vinyl acetate	TPHP(0.10) +Vinyl acetate	VOC(0.10) acetate	
CHH11101341-11A	GMW-1	AQ 10/12/11 11:15	8	0	7	TPHE(0.10) +Vinyl acetate	TPHP(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
CHH11101341-12A	GMW-14	AQ 10/12/11 09:30	7	0	7	TPHE(0.10) +Vinyl acetate	TPHP(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	1 VOA received broken
CHH11101341-13A	GMW-27	AQ 10/12/11 10:05	8	0	7	TPHE(0.10) +Vinyl acetate	TPHP(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
CHH11101341-14A	GMW-38	AQ 10/12/11 08:15	8	0	7	TPHE(0.10) +Vinyl acetate	TPHP(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
CHH11101341-15A	GMW-SF-10	AQ 10/12/11 08:40	8	0	7	TPHE(0.10) +Vinyl acetate	TPHP(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
CHH11101341-16A	GMW-SF-9	AQ 10/12/11 10:45	8	0	7	TPHE(0.10) +Vinyl acetate	TPHP(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
CHH11101341-17A	EB-5	AQ 10/12/11 10:15	8	0	7	TPHE(0.10) +Vinyl acetate	TPHP(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	

Comments: Security seals intact. Frozen Ice. Analysis: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values. .

Logged in by: *Deven Luffee* Signature: \_\_\_\_\_ Print Name: Sara Coffee Company: Alpha Analytical, Inc. Date/Time: 10/20/11 11:29

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.  
 The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.  
 Matrix Type : AQ(Aqueous) AR(Air) SQ(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orto T-Tedlar B-Brass P-Plastic OT-Other



# CHAIN-OF-CUSTODY RECORD

# CA

## Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
 TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : CHHL1101341

Report Due By : 5:00 PM On : 24-Oct-11

Client: CH2M Hill  
 1000 Wishire Boulevard  
 21st Floor  
 Los Angeles, CA 90017

Report Attention: Daniel Jablonski  
 Phone Number: (213) 228-8271 x  
 Email Address: daniel.jablonski@ch2m.com  
 Mathew Mayry  
 (213) 228-8271 x  
 mathew.mayry@ch2m.com

EDD Required : Yes

Sampled by : S. Patel

Cooler Temp: 3 °C Samples Received: 13-Oct-11 Date Printed: 13-Oct-11

Client's COC # : none  
 Job : KMEP Norwalk  
 QC Level : S3 = Final Rpt. MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Date	No. of Bottles	Alpha Sub	TAT	Requested Tests			Sample Remarks
						TPHE_w	TPHP_w	VOC_w	
CHH11101341-18A	DUP-2	10/12/11 00:00	8	0	7	TPHE(0.10) +Vmyl acetate	TPHP(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	
CHH11101341-19A	DUP-3	10/12/11 00:00	8	0	7	TPHE(0.10) +Vmyl acetate	TPHP(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	

Comments: Security seals intact. Frozen Ice. Analysis: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values. .

Signature: *Severin Laffer* Print Name: Sara Coffee Company: Alpha Analytical, Inc. Date/Time: 10/18/11 11:29

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.  
 The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.  
 Matrix Type : AQA(Aqueous) AR(Air) SO(Soil) WSW(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

**BLAINE**  
TECH SERVICES, INC.

1680 ROGERS AVENUE  
SAN JOSE, CALIFORNIA 95112-1105  
FAX (408) 573-7771  
PHONE (408) 573-0555

Alpha Analytical COC 1 of 2

CHAIN OF CUSTODY

CLIENT: Kinder Morgan  
SITE: DFSP Norwalk  
15306 Norwalk Blvd, Norwalk

LAB Billing Information:  
Kinder Morgan  
1100 Town and Country Rd.  
Orange CA 95112  
Kinder Morgan Norwalk  
Report to:  
Dan Jablonski  
CH2M-HILL  
1000 Wilshire Blvd 21st floor  
Los Angeles, CA 90017

SAMPLE I.D.	DATE	TIME	MATRIX AQ # Water	#	Preservation	Type	CONTAINERS		TPHg, TPHfp (EPA 8015M)	VOC's & Oxygenates (EPA 8260B)	CONDUCT ANALYSIS TO DETECT	RESULTS NEEDED NO LATER THAN
GMW-4	10-12-11	1145	AQ	8	HCY	VOA's			X	X		
GMW-0-14		1420							X	X		
MW-5F-1		1323							X	X		
MW-9		1220							X	X		
MW-5		1052							X	X		
MW-18(MID)		1510							X	X		
WCW-7		1013							X	X		
TB-3		0645							X	X		
EG-4		0900							X	X		
DDP-4									X	X		

SAMPLING COMPLETED 10-12-11 1530

RELEASED BY: *AS Pelt* TIME: 1620 RECEIVED BY: *Nicole (SC)* DATE: 10/12/11 TIME: 1620

RELEASED BY: *Nicole (SC)* TIME: 1700 RECEIVED BY: *Anthony Stek* DATE: 10/12/11 TIME: 1700

SHIPPED VIA: *Anthony Stek* TIME SENT: 1700 RECEIVED BY: *Debra Sulejko* DATE: 10/13/11 TIME: 11:23

COOLER #

# BLAINE

TECH SERVICES, INC.  
 1680 ROGERS AVENUE  
 SAN JOSE, CALIFORNIA 95112-1105  
 FAX (408) 573-7771  
 PHONE (408) 573-0555

CHAIN OF CUSTODY

CLIENT: Kinder Morgan  
 SITE: DFSP Norwalk  
 15306 Norwalk Blvd, Norwalk

CONDUCT ANALYSIS TO DETECT

LAB

Alpha Analytical COC 22 of 22

Billing Information:  
 Kinder Morgan  
 1100 Town and Country Rd.  
 Orange CA 95112

Kinder Morgan Norwalk  
 Report to:  
 Dan Jablonski  
 CH2M-HILL  
 1000 Wilshire Blvd 21st floor  
 Los Angeles, CA 90017

SAMPLE I.D.	DATE	TIME	MATRIX AQ = Water	CONTAINERS		TPHg, TPHfp (EPA 8015M)	VOC's & Oxygenates (EPA 8260B)	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
				#	Type						
Gmw-1	10-12-11	1115	AQ	8	HCY	✓	✓				-11A
Gmw-14		0930				✓	✓				-12A
Gmw-27		1005				✓	✓				-13A
Gmw-38		0815				✓	✓				-14A
Gmw-3E-10		0840				✓	✓				-15A
Mw-5E-9		1045				✓	✓				-16A
EG-5		1015				✓	✓				-17A
PUP-2						✓	✓				-18A
PUP-3						✓	✓				-19A

RESULTS NEEDED  
 NO LATER THAN

Standard

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	RECEIVED BY	TIME	RECEIVED BY	DATE	TIME
RELEASED BY	10-12-11	1530	Unl	Patel	620	Nicole (SC)	10/12/11	1630
RELEASED BY					1700	Anthony Stark	10/12/11	1900
RELEASED BY					1700	Shawn McIntyre	10/13/11	11:23

SHIPPED VIA

Michelle (SC)  
 Artly Steak

COOLER #



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135  
Date Received : 10/14/11

Job: KMEP Norwalk

Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B  
Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B

	Parameter	Concentration		Reporting Limit	Date Extracted	Date Analyzed	
Client ID :	<b>GWR-3</b>						
Lab ID :	CHH11101442-01A	TPH-E (Fuel Product)	6.6	**	0.10 mg/L	10/14/11	10/15/11
Date Sampled	10/13/11 12:09	Surr: Nonane	100		(49-145) %REC	10/14/11	10/15/11
		TPH-P (GRO)	ND	V	20 mg/L	10/18/11	10/18/11
		Surr: 1,2-Dichloroethane-d4	99		(70-130) %REC	10/18/11	10/18/11
		Surr: Toluene-d8	104		(70-130) %REC	10/18/11	10/18/11
		Surr: 4-Bromofluorobenzene	98		(70-130) %REC	10/18/11	10/18/11
Client ID :	<b>GMW-9</b>						
Lab ID :	CHH11101442-02A	TPH-E (Fuel Product)	7.6	**	0.10 mg/L	10/14/11	10/15/11
Date Sampled	10/13/11 11:26	Surr: Nonane	0	S51	(49-145) %REC	10/14/11	10/15/11
		TPH-P (GRO)	61		20 mg/L	10/18/11	10/18/11
		Surr: 1,2-Dichloroethane-d4	97		(70-130) %REC	10/18/11	10/18/11
		Surr: Toluene-d8	99		(70-130) %REC	10/18/11	10/18/11
		Surr: 4-Bromofluorobenzene	102		(70-130) %REC	10/18/11	10/18/11
Client ID :	<b>GMW-24</b>						
Lab ID :	CHH11101442-03A	TPH-E (Fuel Product)	17	**	1.0 mg/L	10/14/11	10/15/11
Date Sampled	10/13/11 14:35	Surr: Nonane	125		(49-145) %REC	10/14/11	10/15/11
		TPH-P (GRO)	58		20 mg/L	10/18/11	10/18/11
		Surr: 1,2-Dichloroethane-d4	100		(70-130) %REC	10/18/11	10/18/11
		Surr: Toluene-d8	99		(70-130) %REC	10/18/11	10/18/11
		Surr: 4-Bromofluorobenzene	100		(70-130) %REC	10/18/11	10/18/11
Client ID :	<b>GMW-36</b>						
Lab ID :	CHH11101442-04A	TPH-E (Fuel Product)	160	**	100 mg/L	10/14/11	10/17/11
Date Sampled	10/13/11 15:31	Surr: Nonane	0	S50	(49-145) %REC	10/14/11	10/17/11
		TPH-P (GRO)	22		2.0 mg/L	10/18/11	10/18/11
		Surr: 1,2-Dichloroethane-d4	100		(70-130) %REC	10/18/11	10/18/11
		Surr: Toluene-d8	99		(70-130) %REC	10/18/11	10/18/11
		Surr: 4-Bromofluorobenzene	99		(70-130) %REC	10/18/11	10/18/11
Client ID :	<b>MW-SF-2</b>						
Lab ID :	CHH11101442-05A	TPH-E (Fuel Product)	18	**	1.0 mg/L	10/14/11	10/15/11
Date Sampled	10/13/11 08:50	Surr: Nonane	0	S50	(49-145) %REC	10/14/11	10/15/11
		TPH-P (GRO)	72		20 mg/L	10/18/11	10/18/11
		Surr: 1,2-Dichloroethane-d4	99		(70-130) %REC	10/18/11	10/18/11
		Surr: Toluene-d8	100		(70-130) %REC	10/18/11	10/18/11
		Surr: 4-Bromofluorobenzene	100		(70-130) %REC	10/18/11	10/18/11
Client ID :	<b>MW-SF-6</b>						
Lab ID :	CHH11101442-06A	TPH-E (Fuel Product)	11	**	5.0 mg/L	10/14/11	10/17/11
Date Sampled	10/13/11 08:08	Surr: Nonane	0	S50	(49-145) %REC	10/14/11	10/17/11
		TPH-P (GRO)	40		20 mg/L	10/18/11	10/18/11
		Surr: 1,2-Dichloroethane-d4	99		(70-130) %REC	10/18/11	10/18/11
		Surr: Toluene-d8	98		(70-130) %REC	10/18/11	10/18/11
		Surr: 4-Bromofluorobenzene	99		(70-130) %REC	10/18/11	10/18/11



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Client ID : <b>MW-SF-11</b>						
Lab ID :	CHH11101442-07A	TPH-E (Fuel Product)	2.3	**	0.10 mg/L	10/14/11 10/15/11
Date Sampled	10/13/11 13:09	Surr: Nonane	0	S51	(49-145) %REC	10/14/11 10/15/11
		TPH-P (GRO)	30		20 mg/L	10/18/11 10/18/11
		Surr: 1,2-Dichloroethane-d4	101		(70-130) %REC	10/18/11 10/18/11
		Surr: Toluene-d8	99		(70-130) %REC	10/18/11 10/18/11
		Surr: 4-Bromofluorobenzene	100		(70-130) %REC	10/18/11 10/18/11
Client ID : <b>GMW-O-12</b>						
Lab ID :	CHH11101442-08A	TPH-E (Fuel Product)	390	*	100 mg/L	10/14/11 10/18/11
Date Sampled	10/13/11 10:49	Surr: Nonane	0	S50	(49-145) %REC	10/14/11 10/18/11
		TPH-P (GRO)	20		20 mg/L	10/18/11 10/18/11
		Surr: 1,2-Dichloroethane-d4	99		(70-130) %REC	10/18/11 10/18/11
		Surr: Toluene-d8	101		(70-130) %REC	10/18/11 10/18/11
		Surr: 4-Bromofluorobenzene	100		(70-130) %REC	10/18/11 10/18/11
Client ID : <b>GMW-O-15</b>						
Lab ID :	CHH11101442-09A	TPH-E (Fuel Product)	1.6	**	0.10 mg/L	10/14/11 10/15/11
Date Sampled	10/13/11 15:08	Surr: Nonane	107		(49-145) %REC	10/14/11 10/15/11
		TPH-P (GRO)	3.9		1.0 mg/L	10/18/11 10/18/11
		Surr: 1,2-Dichloroethane-d4	102		(70-130) %REC	10/18/11 10/18/11
		Surr: Toluene-d8	101		(70-130) %REC	10/18/11 10/18/11
		Surr: 4-Bromofluorobenzene	100		(70-130) %REC	10/18/11 10/18/11
Client ID : <b>GMW-O-20</b>						
Lab ID :	CHH11101442-10A	TPH-E (Fuel Product)	2,000	*	100 mg/L	10/14/11 10/18/11
Date Sampled	10/13/11 09:58	Surr: Nonane	0	S50	(49-145) %REC	10/14/11 10/18/11
		TPH-P (GRO)	34		10 mg/L	10/18/11 10/18/11
		Surr: 1,2-Dichloroethane-d4	98		(70-130) %REC	10/18/11 10/18/11
		Surr: Toluene-d8	99		(70-130) %REC	10/18/11 10/18/11
		Surr: 4-Bromofluorobenzene	98		(70-130) %REC	10/18/11 10/18/11
Client ID : <b>EB-6</b>						
Lab ID :	CHH11101442-11A	TPH-E (Fuel Product)	ND		0.10 mg/L	10/14/11 10/15/11
Date Sampled	10/13/11 10:55	Surr: Nonane	108		(49-145) %REC	10/14/11 10/15/11
		TPH-P (GRO)	ND		0.050 mg/L	10/18/11 10/18/11
		Surr: 1,2-Dichloroethane-d4	102		(70-130) %REC	10/18/11 10/18/11
		Surr: Toluene-d8	105		(70-130) %REC	10/18/11 10/18/11
		Surr: 4-Bromofluorobenzene	98		(70-130) %REC	10/18/11 10/18/11
Client ID : <b>DUP-5</b>						
Lab ID :	CHH11101442-13A	TPH-E (Fuel Product)	14	**	0.50 mg/L	10/14/11 10/15/11
Date Sampled	10/13/11 00:00	Surr: Nonane	0	S51	(49-145) %REC	10/14/11 10/15/11
		TPH-P (GRO)	39		20 mg/L	10/18/11 10/18/11
		Surr: 1,2-Dichloroethane-d4	100		(70-130) %REC	10/18/11 10/18/11
		Surr: Toluene-d8	98		(70-130) %REC	10/18/11 10/18/11
		Surr: 4-Bromofluorobenzene	98		(70-130) %REC	10/18/11 10/18/11
Client ID : <b>GMW-25</b>						
Lab ID :	CHH11101442-14A	TPH-E (Fuel Product)	31	*	1.0 mg/L	10/14/11 10/15/11
Date Sampled	10/13/11 14:50	Surr: Nonane	123		(49-145) %REC	10/14/11 10/15/11
		TPH-P (GRO)	ND	V	20 mg/L	10/18/11 10/18/11
		Surr: 1,2-Dichloroethane-d4	100		(70-130) %REC	10/18/11 10/18/11
		Surr: Toluene-d8	105		(70-130) %REC	10/18/11 10/18/11
		Surr: 4-Bromofluorobenzene	99		(70-130) %REC	10/18/11 10/18/11
Client ID : <b>GMW-O-10</b>						
Lab ID :	CHH11101442-15A	TPH-E (Fuel Product)	ND		0.10 mg/L	10/14/11 10/15/11
Date Sampled	10/13/11 10:25	Surr: Nonane	99		(49-145) %REC	10/14/11 10/15/11
		TPH-P (GRO)	ND		0.050 mg/L	10/18/11 10/18/11
		Surr: 1,2-Dichloroethane-d4	102		(70-130) %REC	10/18/11 10/18/11
		Surr: Toluene-d8	101		(70-130) %REC	10/18/11 10/18/11
		Surr: 4-Bromofluorobenzene	100		(70-130) %REC	10/18/11 10/18/11



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Client ID : <b>GMW-O-23</b>						
Lab ID :	CHH11101442-16A	TPH-E (Fuel Product)	7.2	**	0.10 mg/L	10/14/11 10/15/11
Date Sampled	10/13/11 09:45	Surr: Nonane	0	S51	(49-145) %REC	10/14/11 10/15/11
		TPH-P (GRO)	65		20 mg/L	10/18/11 10/18/11
		Surr: 1,2-Dichloroethane-d4	101		(70-130) %REC	10/18/11 10/18/11
		Surr: Toluene-d8	100		(70-130) %REC	10/18/11 10/18/11
		Surr: 4-Bromofluorobenzene	99		(70-130) %REC	10/18/11 10/18/11
Client ID : <b>MW-SF-5</b>						
Lab ID :	CHH11101442-17A	TPH-E (Fuel Product)	2.9	*	0.10 mg/L	10/14/11 10/15/11
Date Sampled	10/13/11 08:00	Surr: Nonane	95		(49-145) %REC	10/14/11 10/15/11
		TPH-P (GRO)	ND	O	0.50 mg/L	10/18/11 10/18/11
		Surr: 1,2-Dichloroethane-d4	102		(70-130) %REC	10/18/11 10/18/11
		Surr: Toluene-d8	99		(70-130) %REC	10/18/11 10/18/11
		Surr: 4-Bromofluorobenzene	100		(70-130) %REC	10/18/11 10/18/11
Client ID : <b>MW-SF-10</b>						
Lab ID :	CHH11101442-18A	TPH-E (Fuel Product)	46	**	1.0 mg/L	10/14/11 10/15/11
Date Sampled	10/13/11 13:10	Surr: Nonane	0	S51	(49-145) %REC	10/14/11 10/15/11
		TPH-P (GRO)	18		2.0 mg/L	10/18/11 10/18/11
		Surr: 1,2-Dichloroethane-d4	99		(70-130) %REC	10/18/11 10/18/11
		Surr: Toluene-d8	98		(70-130) %REC	10/18/11 10/18/11
		Surr: 4-Bromofluorobenzene	102		(70-130) %REC	10/18/11 10/18/11
Client ID : <b>MW-SF-12</b>						
Lab ID :	CHH11101442-19A	TPH-E (Fuel Product)	11	**	1.0 mg/L	10/14/11 10/15/11
Date Sampled	10/13/11 11:50	Surr: Nonane	0	S51	(49-145) %REC	10/14/11 10/15/11
		TPH-P (GRO)	110		20 mg/L	10/18/11 10/18/11
		Surr: 1,2-Dichloroethane-d4	100		(70-130) %REC	10/18/11 10/18/11
		Surr: Toluene-d8	99		(70-130) %REC	10/18/11 10/18/11
		Surr: 4-Bromofluorobenzene	101		(70-130) %REC	10/18/11 10/18/11
Client ID : <b>MW-SF-14</b>						
Lab ID :	CHH11101442-20A	TPH-E (Fuel Product)	6.9	**	0.10 mg/L	10/14/11 10/15/11
Date Sampled	10/13/11 08:35	Surr: Nonane	0	S51	(49-145) %REC	10/14/11 10/15/11
		TPH-P (GRO)	ND	V	20 mg/L	10/19/11 10/19/11
		Surr: 1,2-Dichloroethane-d4	99		(70-130) %REC	10/19/11 10/19/11
		Surr: Toluene-d8	99		(70-130) %REC	10/19/11 10/19/11
		Surr: 4-Bromofluorobenzene	99		(70-130) %REC	10/19/11 10/19/11
Client ID : <b>EB-7</b>						
Lab ID :	CHH11101442-21A	TPH-E (Fuel Product)	ND		0.10 mg/L	10/14/11 10/15/11
Date Sampled	10/13/11 11:15	Surr: Nonane	111		(49-145) %REC	10/14/11 10/15/11
		TPH-P (GRO)	ND		0.050 mg/L	10/19/11 10/19/11
		Surr: 1,2-Dichloroethane-d4	100		(70-130) %REC	10/19/11 10/19/11
		Surr: Toluene-d8	99		(70-130) %REC	10/19/11 10/19/11
		Surr: 4-Bromofluorobenzene	101		(70-130) %REC	10/19/11 10/19/11
Client ID : <b>DUP-6</b>						
Lab ID :	CHH11101442-22A	TPH-E (Fuel Product)	13	**	1.0 mg/L	10/14/11 10/15/11
Date Sampled	10/13/11 00:00	Surr: Nonane	0	S50	(49-145) %REC	10/14/11 10/15/11
		TPH-P (GRO)	120		20 mg/L	10/19/11 10/19/11
		Surr: 1,2-Dichloroethane-d4	100		(70-130) %REC	10/19/11 10/19/11
		Surr: Toluene-d8	101		(70-130) %REC	10/19/11 10/19/11
		Surr: 4-Bromofluorobenzene	99		(70-130) %REC	10/19/11 10/19/11



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\*\*Note: Reported TPH-E (Fuel Product) may contain undifferentiated diesel range hydrocarbons.

\*Note: Reported TPH-E (Fuel Product) is composed primarily of diesel range hydrocarbons.

Gasoline Range Organics (GRO) C4-C13

O = Reporting Limits were increased due to sample foaming.

S50 = The analysis of the sample required a dilution such that the surrogate concentration was diluted below the laboratory acceptance criteria. The laboratory control sample was acceptable.

S51 = Surrogate recovery could not be determined due to the presence of co-eluting hydrocarbons.

V = Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / [info@alpha-analytical.com](mailto:info@alpha-analytical.com)

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

10/24/11

Report Date



# Alpha Analytical, Inc.

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## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101442-01A  
Client I.D. Number: GWR-3

Sampled: 10/13/11 12:09  
Received: 10/14/11  
Extracted: 10/18/11  
Analyzed: 10/18/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	200 µg/L	45 Chlorobenzene	ND	200 µg/L
2 Chloromethane	ND	800 µg/L	46 Ethylbenzene	ND	100 µg/L
3 Vinyl chloride	ND	200 µg/L	47 m,p-Xylene	ND	100 µg/L
4 Chloroethane	ND	200 µg/L	48 Bromoform	ND	200 µg/L
5 Bromomethane	ND	800 µg/L	49 Xylenes, Total	ND	100 µg/L
6 Trichlorofluoromethane	ND	200 µg/L	50 Styrene	ND	200 µg/L
7 Acetone	ND	4,000 µg/L	51 o-Xylene	ND	100 µg/L
8 1,1-Dichloroethene	ND	200 µg/L	52 1,1,2,2-Tetrachloroethane	ND	200 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	2,000 µg/L	53 1,2,3-Trichloropropane	ND	800 µg/L
10 Dichloromethane	ND	800 µg/L	54 Isopropylbenzene	ND	200 µg/L
11 Freon-113	ND	200 µg/L	55 Bromobenzene	ND	200 µg/L
12 Carbon disulfide	ND	1,000 µg/L	56 n-Propylbenzene	ND	200 µg/L
13 trans-1,2-Dichloroethene	ND	200 µg/L	57 4-Chlorotoluene	ND	200 µg/L
14 Methyl tert-butyl ether (MTBE)	280	100 µg/L	58 2-Chlorotoluene	ND	200 µg/L
15 1,1-Dichloroethane	ND	200 µg/L	59 1,3,5-Trimethylbenzene	ND	200 µg/L
16 Vinyl acetate	ND	20,000 µg/L	60 tert-Butylbenzene	ND	200 µg/L
17 2-Butanone (MEK)	ND	4,000 µg/L	61 1,2,4-Trimethylbenzene	ND	200 µg/L
18 Di-isopropyl Ether (DIPE)	ND	200 µg/L	62 sec-Butylbenzene	ND	200 µg/L
19 cis-1,2-Dichloroethene	ND	200 µg/L	63 1,3-Dichlorobenzene	ND	200 µg/L
20 Bromochloromethane	ND	200 µg/L	64 1,4-Dichlorobenzene	ND	200 µg/L
21 Chloroform	ND	200 µg/L	65 4-Isopropyltoluene	ND	200 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	200 µg/L	66 1,2-Dichlorobenzene	ND	200 µg/L
23 2,2-Dichloropropane	ND	200 µg/L	67 n-Butylbenzene	ND	200 µg/L
24 1,2-Dichloroethane	ND	200 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	1,200 µg/L
25 1,1,1-Trichloroethane	ND	200 µg/L	69 1,2,4-Trichlorobenzene	ND	800 µg/L
26 1,1-Dichloropropene	ND	200 µg/L	70 Naphthalene	ND	800 µg/L
27 Carbon tetrachloride	ND	200 µg/L	71 1,2,3-Trichlorobenzene	ND	800 µg/L
28 Benzene	9,100	100 µg/L	72 Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	200 µg/L	73 Surr: Toluene-d8	104	(70-130) %REC
30 Dibromomethane	ND	200 µg/L	74 Surr: 4-Bromofluorobenzene	98	(70-130) %REC
31 1,2-Dichloropropane	ND	200 µg/L			
32 Trichloroethene	ND	200 µg/L			
33 Bromodichloromethane	ND	200 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	1,000 µg/L			
35 cis-1,3-Dichloropropene	ND	200 µg/L			
36 trans-1,3-Dichloropropene	ND	200 µg/L			
37 1,1,2-Trichloroethane	ND	200 µg/L			
38 Toluene	ND	100 µg/L			
39 1,3-Dichloropropane	ND	200 µg/L			
40 2-Hexanone	ND	2,000 µg/L			
41 Dibromochloromethane	ND	200 µg/L			
42 1,2-Dibromoethane (EDB)	ND	400 µg/L			
43 Tetrachloroethene	ND	200 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	200 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

*[Signature]*

10/24/11

Report Date





# Alpha Analytical, Inc.

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## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101442-02A  
Client I.D. Number: GMW-9

Sampled: 10/13/11 11:26  
Received: 10/14/11  
Extracted: 10/18/11  
Analyzed: 10/18/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	200 µg/L	45 Chlorobenzene	ND	200 µg/L
2 Chloromethane	ND	800 µg/L	46 Ethylbenzene	760	100 µg/L
3 Vinyl chloride	ND	200 µg/L	47 m,p-Xylene	2,600	100 µg/L
4 Chloroethane	ND	200 µg/L	48 Bromoform	ND	200 µg/L
5 Bromomethane	ND	800 µg/L	49 Xylenes, Total	3,400	100 µg/L
6 Trichlorofluoromethane	ND	200 µg/L	50 Styrene	ND	200 µg/L
7 Acetone	4,000	µg/L	51 o-Xylene	850	100 µg/L
8 1,1-Dichloroethene	ND	200 µg/L	52 1,1,2,2-Tetrachloroethane	ND	200 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	2,000 µg/L	53 1,2,3-Trichloropropane	ND	800 µg/L
10 Dichloromethane	ND	800 µg/L	54 Isopropylbenzene	ND	200 µg/L
11 Freon-113	ND	200 µg/L	55 Bromobenzene	ND	200 µg/L
12 Carbon disulfide	ND	1,000 µg/L	56 n-Propylbenzene	ND	200 µg/L
13 trans-1,2-Dichloroethene	ND	200 µg/L	57 4-Chlorotoluene	ND	200 µg/L
14 Methyl tert-butyl ether (MTBE)	2,100	100 µg/L	58 2-Chlorotoluene	ND	200 µg/L
15 1,1-Dichloroethane	ND	200 µg/L	59 1,3,5-Trimethylbenzene	ND	200 µg/L
16 Vinyl acetate	20,000	µg/L	60 tert-Butylbenzene	ND	200 µg/L
17 2-Butanone (MEK)	ND	4,000 µg/L	61 1,2,4-Trimethylbenzene	420	200 µg/L
18 Di-isopropyl Ether (DIPE)	ND	200 µg/L	62 sec-Butylbenzene	ND	200 µg/L
19 cis-1,2-Dichloroethene	ND	200 µg/L	63 1,3-Dichlorobenzene	ND	200 µg/L
20 Bromochloromethane	ND	200 µg/L	64 1,4-Dichlorobenzene	ND	200 µg/L
21 Chloroform	ND	200 µg/L	65 4-Isopropyltoluene	ND	200 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	200 µg/L	66 1,2-Dichlorobenzene	ND	200 µg/L
23 2,2-Dichloropropane	ND	200 µg/L	67 n-Butylbenzene	ND	200 µg/L
24 1,2-Dichloroethane	ND	200 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	1,200 µg/L
25 1,1,1-Trichloroethane	ND	200 µg/L	69 1,2,4-Trichlorobenzene	ND	800 µg/L
26 1,1-Dichloropropene	ND	200 µg/L	70 Naphthalene	ND	800 µg/L
27 Carbon tetrachloride	ND	200 µg/L	71 1,2,3-Trichlorobenzene	ND	800 µg/L
28 Benzene	18,000	100 µg/L	72 Surr: 1,2-Dichloroethane-d4	97	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	200 µg/L	73 Surr: Toluene-d8	99	(70-130) %REC
30 Dibromomethane	ND	200 µg/L	74 Surr: 4-Bromofluorobenzene	102	(70-130) %REC
31 1,2-Dichloropropane	ND	200 µg/L			
32 Trichloroethene	ND	200 µg/L			
33 Bromodichloromethane	ND	200 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	1,000 µg/L			
35 cis-1,3-Dichloropropene	ND	200 µg/L			
36 trans-1,3-Dichloropropene	ND	200 µg/L			
37 1,1,2-Trichloroethane	ND	200 µg/L			
38 Toluene	6,500	100 µg/L			
39 1,3-Dichloropropane	ND	200 µg/L			
40 2-Hexanone	ND	2,000 µg/L			
41 Dibromochloromethane	ND	200 µg/L			
42 1,2-Dibromoethane (EDB)	ND	400 µg/L			
43 Tetrachloroethene	ND	200 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	200 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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10/24/11

Report Date



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101442-03A  
Client I.D. Number: GMW-24

Sampled: 10/13/11 14:35  
Received: 10/14/11  
Extracted: 10/18/11  
Analyzed: 10/18/11

### Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	200 µg/L	45 Chlorobenzene	ND	200 µg/L
2 Chloromethane	ND	800 µg/L	46 Ethylbenzene	890	100 µg/L
3 Vinyl chloride	ND	200 µg/L	47 m,p-Xylene	2,300	100 µg/L
4 Chloroethane	ND	200 µg/L	48 Bromoform	ND	200 µg/L
5 Bromomethane	ND	800 µg/L	49 Xylenes, Total	2,600	100 µg/L
6 Trichlorofluoromethane	ND	200 µg/L	50 Styrene	ND	200 µg/L
7 Acetone	ND	4,000 µg/L	51 o-Xylene	300	100 µg/L
8 1,1-Dichloroethene	ND	200 µg/L	52 1,1,2,2-Tetrachloroethane	ND	200 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	2,000 µg/L	53 1,2,3-Trichloropropane	ND	800 µg/L
10 Dichloromethane	ND	800 µg/L	54 Isopropylbenzene	ND	200 µg/L
11 Freon-113	ND	200 µg/L	55 Bromobenzene	ND	200 µg/L
12 Carbon disulfide	ND	1,000 µg/L	56 n-Propylbenzene	ND	200 µg/L
13 trans-1,2-Dichloroethene	ND	200 µg/L	57 4-Chlorotoluene	ND	200 µg/L
14 Methyl tert-butyl ether (MTBE)	490	100 µg/L	58 2-Chlorotoluene	ND	200 µg/L
15 1,1-Dichloroethane	ND	200 µg/L	59 1,3,5-Trimethylbenzene	ND	200 µg/L
16 Vinyl acetate	ND	20,000 µg/L	60 tert-Butylbenzene	ND	200 µg/L
17 2-Butanone (MEK)	ND	4,000 µg/L	61 1,2,4-Trimethylbenzene	460	200 µg/L
18 Di-isopropyl Ether (DIPE)	ND	200 µg/L	62 sec-Butylbenzene	ND	200 µg/L
19 cis-1,2-Dichloroethene	ND	200 µg/L	63 1,3-Dichlorobenzene	ND	200 µg/L
20 Bromochloromethane	ND	200 µg/L	64 1,4-Dichlorobenzene	ND	200 µg/L
21 Chloroform	ND	200 µg/L	65 4-Isopropyltoluene	ND	200 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	200 µg/L	66 1,2-Dichlorobenzene	ND	200 µg/L
23 2,2-Dichloropropane	ND	200 µg/L	67 n-Butylbenzene	ND	200 µg/L
24 1,2-Dichloroethane	ND	200 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	1,200 µg/L
25 1,1,1-Trichloroethane	ND	200 µg/L	69 1,2,4-Trichlorobenzene	ND	800 µg/L
26 1,1-Dichloropropene	ND	200 µg/L	70 Naphthalene	ND	800 µg/L
27 Carbon tetrachloride	ND	200 µg/L	71 1,2,3-Trichlorobenzene	ND	800 µg/L
28 Benzene	23,000	100 µg/L	72 Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	200 µg/L	73 Surr: Toluene-d8	99	(70-130) %REC
30 Dibromomethane	ND	200 µg/L	74 Surr: 4-Bromofluorobenzene	100	(70-130) %REC
31 1,2-Dichloropropane	ND	200 µg/L			
32 Trichloroethene	ND	200 µg/L			
33 Bromodichloromethane	ND	200 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	1,000 µg/L			
35 cis-1,3-Dichloropropene	ND	200 µg/L			
36 trans-1,3-Dichloropropene	ND	200 µg/L			
37 1,1,2-Trichloroethane	ND	200 µg/L			
38 Toluene	2,400	100 µg/L			
39 1,3-Dichloropropane	ND	200 µg/L			
40 2-Hexanone	ND	2,000 µg/L			
41 Dibromochloromethane	ND	200 µg/L			
42 1,2-Dibromoethane (EDB)	ND	400 µg/L			
43 Tetrachloroethene	ND	200 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	200 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

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10/24/11

Report Date



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101442-04A  
Client I.D. Number: GMW-36

Sampled: 10/13/11 15:31  
Received: 10/14/11  
Extracted: 10/18/11  
Analyzed: 10/18/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	20 µg/L	45 Chlorobenzene	ND	20 µg/L
2 Chloromethane	ND	80 µg/L	46 Ethylbenzene	430	10 µg/L
3 Vinyl chloride	ND	20 µg/L	47 m,p-Xylene	1,500	10 µg/L
4 Chloroethane	ND	20 µg/L	48 Bromoform	ND	20 µg/L
5 Bromomethane	ND	80 µg/L	49 Xylenes, Total	2,200	10 µg/L
6 Trichlorofluoromethane	ND	20 µg/L	50 Styrene	ND	20 µg/L
7 Acetone	ND	400 µg/L	51 o-Xylene	790	10 µg/L
8 1,1-Dichloroethene	ND	20 µg/L	52 1,1,2,2-Tetrachloroethane	ND	20 µg/L
9 Tertiary Butyl Alcohol (TBA)	3,700	200 µg/L	53 1,2,3-Trichloropropane	ND	80 µg/L
10 Dichloromethane	ND	80 µg/L	54 Isopropylbenzene	25	20 µg/L
11 Freon-113	ND	20 µg/L	55 Bromobenzene	ND	20 µg/L
12 Carbon disulfide	ND	100 µg/L	56 n-Propylbenzene	100	20 µg/L
13 trans-1,2-Dichloroethene	ND	20 µg/L	57 4-Chlorotoluene	ND	20 µg/L
14 Methyl tert-butyl ether (MTBE)	250	10 µg/L	58 2-Chlorotoluene	ND	20 µg/L
15 1,1-Dichloroethane	ND	20 µg/L	59 1,3,5-Trimethylbenzene	320	20 µg/L
16 Vinyl acetate	ND	2,000 µg/L	60 tert-Butylbenzene	ND	20 µg/L
17 2-Butanone (MEK)	ND	400 µg/L	61 1,2,4-Trimethylbenzene	1,000	20 µg/L
18 Di-isopropyl Ether (DIPE)	ND	20 µg/L	62 sec-Butylbenzene	ND	20 µg/L
19 cis-1,2-Dichloroethene	ND	20 µg/L	63 1,3-Dichlorobenzene	ND	20 µg/L
20 Bromochloromethane	ND	20 µg/L	64 1,4-Dichlorobenzene	ND	20 µg/L
21 Chloroform	ND	20 µg/L	65 4-Isopropyltoluene	ND	20 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/L	66 1,2-Dichlorobenzene	ND	20 µg/L
23 2,2-Dichloropropane	ND	20 µg/L	67 n-Butylbenzene	27	20 µg/L
24 1,2-Dichloroethane	ND	20 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	120 µg/L
25 1,1,1-Trichloroethane	ND	20 µg/L	69 1,2,4-Trichlorobenzene	ND	80 µg/L
26 1,1-Dichloropropene	ND	20 µg/L	70 Naphthalene	290	80 µg/L
27 Carbon tetrachloride	ND	20 µg/L	71 1,2,3-Trichlorobenzene	ND	80 µg/L
28 Benzene	610	10 µg/L	72 Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	43	20 µg/L	73 Surr: Toluene-d8	99	(70-130) %REC
30 Dibromomethane	ND	20 µg/L	74 Surr: 4-Bromofluorobenzene	99	(70-130) %REC
31 1,2-Dichloropropane	ND	20 µg/L			
32 Trichloroethene	ND	20 µg/L			
33 Bromodichloromethane	ND	20 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	100 µg/L			
35 cis-1,3-Dichloropropene	ND	20 µg/L			
36 trans-1,3-Dichloropropene	ND	20 µg/L			
37 1,1,2-Trichloroethane	ND	20 µg/L			
38 Toluene	490	10 µg/L			
39 1,3-Dichloropropane	ND	20 µg/L			
40 2-Hexanone	ND	200 µg/L			
41 Dibromochloromethane	ND	20 µg/L			
42 1,2-Dibromoethane (EDB)	ND	40 µg/L			
43 Tetrachloroethene	ND	20 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	20 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

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10/24/11

Report Date



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101442-05A  
Client I.D. Number: MW-SF-2

Sampled: 10/13/11 08:50  
Received: 10/14/11  
Extracted: 10/18/11  
Analyzed: 10/18/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	200 µg/L	45 Chlorobenzene	ND	200 µg/L
2 Chloromethane	ND	800 µg/L	46 Ethylbenzene	660	100 µg/L
3 Vinyl chloride	ND	200 µg/L	47 m,p-Xylene	3,300	100 µg/L
4 Chloroethane	ND	200 µg/L	48 Bromoform	ND	200 µg/L
5 Bromomethane	ND	800 µg/L	49 Xylenes, Total	5,100	100 µg/L
6 Trichlorofluoromethane	ND	200 µg/L	50 Styrene	ND	200 µg/L
7 Acetone	ND	4,000 µg/L	51 o-Xylene	1,800	100 µg/L
8 1,1-Dichloroethene	ND	200 µg/L	52 1,1,2,2-Tetrachloroethane	ND	200 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	2,000 µg/L	53 1,2,3-Trichloropropane	ND	800 µg/L
10 Dichloromethane	ND	800 µg/L	54 Isopropylbenzene	ND	200 µg/L
11 Freon-113	ND	200 µg/L	55 Bromobenzene	ND	200 µg/L
12 Carbon disulfide	ND	1,000 µg/L	56 n-Propylbenzene	ND	200 µg/L
13 trans-1,2-Dichloroethene	ND	200 µg/L	57 4-Chlorotoluene	ND	200 µg/L
14 Methyl tert-butyl ether (MTBE)	940	100 µg/L	58 2-Chlorotoluene	ND	200 µg/L
15 1,1-Dichloroethane	ND	200 µg/L	59 1,3,5-Trimethylbenzene	230	200 µg/L
16 Vinyl acetate	ND	20,000 µg/L	60 tert-Butylbenzene	ND	200 µg/L
17 2-Butanone (MEK)	ND	4,000 µg/L	61 1,2,4-Trimethylbenzene	680	200 µg/L
18 Di-isopropyl Ether (DIPE)	ND	200 µg/L	62 sec-Butylbenzene	ND	200 µg/L
19 cis-1,2-Dichloroethene	ND	200 µg/L	63 1,3-Dichlorobenzene	ND	200 µg/L
20 Bromochloromethane	ND	200 µg/L	64 1,4-Dichlorobenzene	ND	200 µg/L
21 Chloroform	ND	200 µg/L	65 4-Isopropyltoluene	ND	200 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	200 µg/L	66 1,2-Dichlorobenzene	ND	200 µg/L
23 2,2-Dichloropropane	ND	200 µg/L	67 n-Butylbenzene	ND	200 µg/L
24 1,2-Dichloroethane	ND	200 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	1,200 µg/L
25 1,1,1-Trichloroethane	ND	200 µg/L	69 1,2,4-Trichlorobenzene	ND	800 µg/L
26 1,1-Dichloropropene	ND	200 µg/L	70 Naphthalene	ND	800 µg/L
27 Carbon tetrachloride	ND	200 µg/L	71 1,2,3-Trichlorobenzene	ND	800 µg/L
28 Benzene	18,000	100 µg/L	72 Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	200 µg/L	73 Surr: Toluene-d8	100	(70-130) %REC
30 Dibromomethane	ND	200 µg/L	74 Surr: 4-Bromofluorobenzene	100	(70-130) %REC
31 1,2-Dichloropropane	ND	200 µg/L			
32 Trichloroethene	ND	200 µg/L			
33 Bromodichloromethane	ND	200 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	1,000 µg/L			
35 cis-1,3-Dichloropropene	ND	200 µg/L			
36 trans-1,3-Dichloropropene	ND	200 µg/L			
37 1,1,2-Trichloroethane	ND	200 µg/L			
38 Toluene	9,600	100 µg/L			
39 1,3-Dichloropropane	ND	200 µg/L			
40 2-Hexanone	ND	2,000 µg/L			
41 Dibromochloromethane	ND	200 µg/L			
42 1,2-Dibromoethane (EDB)	ND	400 µg/L			
43 Tetrachloroethene	ND	200 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	200 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

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10/24/11

Report Date



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255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101442-06A  
Client I.D. Number: MW-SF-6

Sampled: 10/13/11 08:08  
Received: 10/14/11  
Extracted: 10/18/11  
Analyzed: 10/18/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	200 µg/L	45 Chlorobenzene	ND	200 µg/L
2 Chloromethane	ND	800 µg/L	46 Ethylbenzene	780	100 µg/L
3 Vinyl chloride	ND	200 µg/L	47 m,p-Xylene	3,100	100 µg/L
4 Chloroethane	ND	200 µg/L	48 Bromoform	ND	200 µg/L
5 Bromomethane	ND	800 µg/L	49 Xylenes, Total	3,600	100 µg/L
6 Trichlorofluoromethane	ND	200 µg/L	50 Styrene	ND	200 µg/L
7 Acetone	ND	4,000 µg/L	51 o-Xylene	560	100 µg/L
8 1,1-Dichloroethene	ND	200 µg/L	52 1,1,2,2-Tetrachloroethane	ND	200 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	2,000 µg/L	53 1,2,3-Trichloropropane	ND	800 µg/L
10 Dichloromethane	ND	800 µg/L	54 Isopropylbenzene	ND	200 µg/L
11 Freon-113	ND	200 µg/L	55 Bromobenzene	ND	200 µg/L
12 Carbon disulfide	ND	1,000 µg/L	56 n-Propylbenzene	ND	200 µg/L
13 trans-1,2-Dichloroethene	ND	200 µg/L	57 4-Chlorotoluene	ND	200 µg/L
14 Methyl tert-butyl ether (MTBE)	570	100 µg/L	58 2-Chlorotoluene	ND	200 µg/L
15 1,1-Dichloroethane	ND	200 µg/L	59 1,3,5-Trimethylbenzene	ND	200 µg/L
16 Vinyl acetate	ND	20,000 µg/L	60 tert-Butylbenzene	ND	200 µg/L
17 2-Butanone (MEK)	ND	4,000 µg/L	61 1,2,4-Trimethylbenzene	470	200 µg/L
18 Di-isopropyl Ether (DIPE)	ND	200 µg/L	62 sec-Butylbenzene	ND	200 µg/L
19 cis-1,2-Dichloroethene	ND	200 µg/L	63 1,3-Dichlorobenzene	ND	200 µg/L
20 Bromochloromethane	ND	200 µg/L	64 1,4-Dichlorobenzene	ND	200 µg/L
21 Chloroform	ND	200 µg/L	65 4-Isopropyltoluene	ND	200 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	200 µg/L	66 1,2-Dichlorobenzene	ND	200 µg/L
23 2,2-Dichloropropane	ND	200 µg/L	67 n-Butylbenzene	ND	200 µg/L
24 1,2-Dichloroethane	ND	200 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	1,200 µg/L
25 1,1,1-Trichloroethane	ND	200 µg/L	69 1,2,4-Trichlorobenzene	ND	800 µg/L
26 1,1-Dichloropropene	ND	200 µg/L	70 Naphthalene	ND	800 µg/L
27 Carbon tetrachloride	ND	200 µg/L	71 1,2,3-Trichlorobenzene	ND	800 µg/L
28 Benzene	14,000	100 µg/L	72 Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	200 µg/L	73 Surr: Toluene-d8	98	(70-130) %REC
30 Dibromomethane	ND	200 µg/L	74 Surr: 4-Bromofluorobenzene	99	(70-130) %REC
31 1,2-Dichloropropane	ND	200 µg/L			
32 Trichloroethene	ND	200 µg/L			
33 Bromodichloromethane	ND	200 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	1,000 µg/L			
35 cis-1,3-Dichloropropene	ND	200 µg/L			
36 trans-1,3-Dichloropropene	ND	200 µg/L			
37 1,1,2-Trichloroethane	ND	200 µg/L			
38 Toluene	420	100 µg/L			
39 1,3-Dichloropropane	ND	200 µg/L			
40 2-Hexanone	ND	2,000 µg/L			
41 Dibromochloromethane	ND	200 µg/L			
42 1,2-Dibromoethane (EDB)	ND	400 µg/L			
43 Tetrachloroethene	ND	200 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	200 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

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10/24/11

Report Date



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## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101442-07A  
Client I.D. Number: MW-SF-11

Sampled: 10/13/11 13:09  
Received: 10/14/11  
Extracted: 10/18/11  
Analyzed: 10/18/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	200 µg/L	45 Chlorobenzene	ND	200 µg/L
2 Chloromethane	ND	800 µg/L	46 Ethylbenzene	340	100 µg/L
3 Vinyl chloride	ND	200 µg/L	47 m,p-Xylene	440	100 µg/L
4 Chloroethane	ND	200 µg/L	48 Bromoform	ND	200 µg/L
5 Bromomethane	ND	800 µg/L	49 Xylenes, Total	600	100 µg/L
6 Trichlorofluoromethane	ND	200 µg/L	50 Styrene	ND	200 µg/L
7 Acetone	ND	4,000 µg/L	51 o-Xylene	160	100 µg/L
8 1,1-Dichloroethene	ND	200 µg/L	52 1,1,2,2-Tetrachloroethane	ND	200 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	2,000 µg/L	53 1,2,3-Trichloropropane	ND	800 µg/L
10 Dichloromethane	ND	800 µg/L	54 Isopropylbenzene	ND	200 µg/L
11 Freon-113	ND	200 µg/L	55 Bromobenzene	ND	200 µg/L
12 Carbon disulfide	ND	1,000 µg/L	56 n-Propylbenzene	ND	200 µg/L
13 trans-1,2-Dichloroethene	ND	200 µg/L	57 4-Chlorotoluene	ND	200 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	100 µg/L	58 2-Chlorotoluene	ND	200 µg/L
15 1,1-Dichloroethane	ND	200 µg/L	59 1,3,5-Trimethylbenzene	ND	200 µg/L
16 Vinyl acetate	ND	20,000 µg/L	60 tert-Butylbenzene	ND	200 µg/L
17 2-Butanone (MEK)	ND	4,000 µg/L	61 1,2,4-Trimethylbenzene	ND	200 µg/L
18 Di-isopropyl Ether (DIPE)	ND	200 µg/L	62 sec-Butylbenzene	ND	200 µg/L
19 cis-1,2-Dichloroethene	ND	200 µg/L	63 1,3-Dichlorobenzene	ND	200 µg/L
20 Bromochloromethane	ND	200 µg/L	64 1,4-Dichlorobenzene	ND	200 µg/L
21 Chloroform	ND	200 µg/L	65 4-Isopropyltoluene	ND	200 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	200 µg/L	66 1,2-Dichlorobenzene	ND	200 µg/L
23 2,2-Dichloropropane	ND	200 µg/L	67 n-Butylbenzene	ND	200 µg/L
24 1,2-Dichloroethane	ND	200 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	1,200 µg/L
25 1,1,1-Trichloroethane	ND	200 µg/L	69 1,2,4-Trichlorobenzene	ND	800 µg/L
26 1,1-Dichloropropene	ND	200 µg/L	70 Naphthalene	ND	800 µg/L
27 Carbon tetrachloride	ND	200 µg/L	71 1,2,3-Trichlorobenzene	ND	800 µg/L
28 Benzene	14,000	100 µg/L	72 Surr: 1,2-Dichloroethane-d4	101	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	200 µg/L	73 Surr: Toluene-d8	99	(70-130) %REC
30 Dibromomethane	ND	200 µg/L	74 Surr: 4-Bromofluorobenzene	100	(70-130) %REC
31 1,2-Dichloropropane	ND	200 µg/L			
32 Trichloroethene	ND	200 µg/L			
33 Bromodichloromethane	ND	200 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	1,000 µg/L			
35 cis-1,3-Dichloropropene	ND	200 µg/L			
36 trans-1,3-Dichloropropene	ND	200 µg/L			
37 1,1,2-Trichloroethane	ND	200 µg/L			
38 Toluene	250	100 µg/L			
39 1,3-Dichloropropane	ND	200 µg/L			
40 2-Hexanone	ND	2,000 µg/L			
41 Dibromochloromethane	ND	200 µg/L			
42 1,2-Dibromoethane (EDB)	ND	400 µg/L			
43 Tetrachloroethene	ND	200 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	200 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

10/24/11

Report Date



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101442-08A  
Client I.D. Number: GMW-O-12

Sampled: 10/13/11 10:49  
Received: 10/14/11  
Extracted: 10/18/11  
Analyzed: 10/18/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	200 µg/L	45 Chlorobenzene	ND	200 µg/L
2 Chloromethane	ND	800 µg/L	46 Ethylbenzene	ND	100 µg/L
3 Vinyl chloride	ND	200 µg/L	47 m,p-Xylene	ND	100 µg/L
4 Chloroethane	ND	200 µg/L	48 Bromoform	ND	200 µg/L
5 Bromomethane	ND	800 µg/L	49 Xylenes, Total	ND	100 µg/L
6 Trichlorofluoromethane	ND	200 µg/L	50 Styrene	ND	200 µg/L
7 Acetone	ND	4,000 µg/L	51 o-Xylene	ND	100 µg/L
8 1,1-Dichloroethene	ND	200 µg/L	52 1,1,2,2-Tetrachloroethane	ND	200 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	2,000 µg/L	53 1,2,3-Trichloropropane	ND	800 µg/L
10 Dichloromethane	ND	800 µg/L	54 Isopropylbenzene	ND	200 µg/L
11 Freon-113	ND	200 µg/L	55 Bromobenzene	ND	200 µg/L
12 Carbon disulfide	ND	1,000 µg/L	56 n-Propylbenzene	ND	200 µg/L
13 trans-1,2-Dichloroethene	ND	200 µg/L	57 4-Chlorotoluene	ND	200 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	100 µg/L	58 2-Chlorotoluene	ND	200 µg/L
15 1,1-Dichloroethane	ND	200 µg/L	59 1,3,5-Trimethylbenzene	ND	200 µg/L
16 Vinyl acetate	ND	20,000 µg/L	60 tert-Butylbenzene	ND	200 µg/L
17 2-Butanone (MEK)	ND	4,000 µg/L	61 1,2,4-Trimethylbenzene	ND	200 µg/L
18 Di-isopropyl Ether (DIPE)	ND	200 µg/L	62 sec-Butylbenzene	ND	200 µg/L
19 cis-1,2-Dichloroethene	ND	200 µg/L	63 1,3-Dichlorobenzene	ND	200 µg/L
20 Bromochloromethane	ND	200 µg/L	64 1,4-Dichlorobenzene	ND	200 µg/L
21 Chloroform	ND	200 µg/L	65 4-Isopropyltoluene	ND	200 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	200 µg/L	66 1,2-Dichlorobenzene	ND	200 µg/L
23 2,2-Dichloropropane	ND	200 µg/L	67 n-Butylbenzene	ND	200 µg/L
24 1,2-Dichloroethane	ND	200 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	1,200 µg/L
25 1,1,1-Trichloroethane	ND	200 µg/L	69 1,2,4-Trichlorobenzene	ND	800 µg/L
26 1,1-Dichloropropene	ND	200 µg/L	70 Naphthalene	ND	800 µg/L
27 Carbon tetrachloride	ND	200 µg/L	71 1,2,3-Trichlorobenzene	ND	800 µg/L
28 Benzene	11,000	100 µg/L	72 Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	200 µg/L	73 Surr: Toluene-d8	101	(70-130) %REC
30 Dibromomethane	ND	200 µg/L	74 Surr: 4-Bromofluorobenzene	100	(70-130) %REC
31 1,2-Dichloropropane	ND	200 µg/L			
32 Trichloroethene	ND	200 µg/L			
33 Bromodichloromethane	ND	200 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	1,000 µg/L			
35 cis-1,3-Dichloropropene	ND	200 µg/L			
36 trans-1,3-Dichloropropene	ND	200 µg/L			
37 1,1,2-Trichloroethane	ND	200 µg/L			
38 Toluene	ND	100 µg/L			
39 1,3-Dichloropropane	ND	200 µg/L			
40 2-Hexanone	ND	2,000 µg/L			
41 Dibromochloromethane	ND	200 µg/L			
42 1,2-Dibromoethane (EDB)	ND	400 µg/L			
43 Tetrachloroethene	ND	200 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	200 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

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10/24/11

Report Date



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101442-09A  
Client I.D. Number: GMW-O-15

Sampled: 10/13/11 15:08  
Received: 10/14/11  
Extracted: 10/18/11  
Analyzed: 10/18/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	10 µg/L	45 Chlorobenzene	ND	10 µg/L
2 Chloromethane	ND	40 µg/L	46 Ethylbenzene	73	5.0 µg/L
3 Vinyl chloride	ND	10 µg/L	47 m,p-Xylene	340	5.0 µg/L
4 Chloroethane	ND	10 µg/L	48 Bromoform	ND	10 µg/L
5 Bromomethane	ND	40 µg/L	49 Xylenes, Total	460	5.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	10 µg/L
7 Acetone	ND	200 µg/L	51 o-Xylene	120	5.0 µg/L
8 1,1-Dichloroethene	ND	10 µg/L	52 1,1,2,2-Tetrachloroethane	ND	10 µg/L
9 Tertiary Butyl Alcohol (TBA)	3,200	100 µg/L	53 1,2,3-Trichloropropane	ND	40 µg/L
10 Dichloromethane	ND	40 µg/L	54 Isopropylbenzene	ND	10 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	10 µg/L
12 Carbon disulfide	ND	50 µg/L	56 n-Propylbenzene	ND	10 µg/L
13 trans-1,2-Dichloroethene	ND	10 µg/L	57 4-Chlorotoluene	ND	10 µg/L
14 Methyl tert-butyl ether (MTBE)	220	5.0 µg/L	58 2-Chlorotoluene	ND	10 µg/L
15 1,1-Dichloroethane	ND	10 µg/L	59 1,3,5-Trimethylbenzene	29	10 µg/L
16 Vinyl acetate	ND	1,000 µg/L	60 tert-Butylbenzene	ND	10 µg/L
17 2-Butanone (MEK)	ND	200 µg/L	61 1,2,4-Trimethylbenzene	96	10 µg/L
18 Di-isopropyl Ether (DIPE)	ND	10 µg/L	62 sec-Butylbenzene	ND	10 µg/L
19 cis-1,2-Dichloroethene	ND	10 µg/L	63 1,3-Dichlorobenzene	ND	10 µg/L
20 Bromochloromethane	ND	10 µg/L	64 1,4-Dichlorobenzene	ND	10 µg/L
21 Chloroform	ND	10 µg/L	65 4-Isopropyltoluene	ND	10 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	10 µg/L	66 1,2-Dichlorobenzene	ND	10 µg/L
23 2,2-Dichloropropane	ND	10 µg/L	67 n-Butylbenzene	ND	10 µg/L
24 1,2-Dichloroethane	ND	10 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	60 µg/L
25 1,1,1-Trichloroethane	ND	10 µg/L	69 1,2,4-Trichlorobenzene	ND	40 µg/L
26 1,1-Dichloropropene	ND	10 µg/L	70 Naphthalene	ND	40 µg/L
27 Carbon tetrachloride	ND	10 µg/L	71 1,2,3-Trichlorobenzene	ND	40 µg/L
28 Benzene	530	5.0 µg/L	72 Surr: 1,2-Dichloroethane-d4	102	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	10 µg/L	73 Surr: Toluene-d8	101	(70-130) %REC
30 Dibromomethane	ND	10 µg/L	74 Surr: 4-Bromofluorobenzene	100	(70-130) %REC
31 1,2-Dichloropropane	ND	10 µg/L			
32 Trichloroethene	ND	10 µg/L			
33 Bromodichloromethane	ND	10 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	50 µg/L			
35 cis-1,3-Dichloropropene	ND	10 µg/L			
36 trans-1,3-Dichloropropene	ND	10 µg/L			
37 1,1,2-Trichloroethane	ND	10 µg/L			
38 Toluene	290	5.0 µg/L			
39 1,3-Dichloropropane	ND	10 µg/L			
40 2-Hexanone	ND	100 µg/L			
41 Dibromochloromethane	ND	10 µg/L			
42 1,2-Dibromoethane (EDB)	ND	20 µg/L			
43 Tetrachloroethene	ND	10 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	10 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

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10/24/11

Report Date





# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101442-10A  
Client I.D. Number: GMW-O-20

Sampled: 10/13/11 09:58  
Received: 10/14/11  
Extracted: 10/18/11  
Analyzed: 10/18/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	100 µg/L	45 Chlorobenzene	ND	100 µg/L
2 Chloromethane	ND	400 µg/L	46 Ethylbenzene	240	50 µg/L
3 Vinyl chloride	ND	100 µg/L	47 m,p-Xylene	590	50 µg/L
4 Chloroethane	ND	100 µg/L	48 Bromoform	ND	100 µg/L
5 Bromomethane	ND	400 µg/L	49 Xylenes, Total	850	50 µg/L
6 Trichlorofluoromethane	ND	100 µg/L	50 Styrene	ND	100 µg/L
7 Acetone	ND	2,000 µg/L	51 o-Xylene	260	50 µg/L
8 1,1-Dichloroethene	ND	100 µg/L	52 1,1,2,2-Tetrachloroethane	ND	100 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	1,000 µg/L	53 1,2,3-Trichloropropane	ND	400 µg/L
10 Dichloromethane	ND	400 µg/L	54 Isopropylbenzene	ND	100 µg/L
11 Freon-113	ND	100 µg/L	55 Bromobenzene	ND	100 µg/L
12 Carbon disulfide	ND	500 µg/L	56 n-Propylbenzene	ND	100 µg/L
13 trans-1,2-Dichloroethene	ND	100 µg/L	57 4-Chlorotoluene	ND	100 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	50 µg/L	58 2-Chlorotoluene	ND	100 µg/L
15 1,1-Dichloroethane	ND	100 µg/L	59 1,3,5-Trimethylbenzene	130	100 µg/L
16 Vinyl acetate	ND	10,000 µg/L	60 tert-Butylbenzene	ND	100 µg/L
17 2-Butanone (MEK)	ND	2,000 µg/L	61 1,2,4-Trimethylbenzene	370	100 µg/L
18 Di-isopropyl Ether (DIPE)	ND	100 µg/L	62 sec-Butylbenzene	ND	100 µg/L
19 cis-1,2-Dichloroethene	ND	100 µg/L	63 1,3-Dichlorobenzene	ND	100 µg/L
20 Bromochloromethane	ND	100 µg/L	64 1,4-Dichlorobenzene	ND	100 µg/L
21 Chloroform	ND	100 µg/L	65 4-Isopropyltoluene	ND	100 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	100 µg/L	66 1,2-Dichlorobenzene	ND	100 µg/L
23 2,2-Dichloropropane	ND	100 µg/L	67 n-Butylbenzene	ND	100 µg/L
24 1,2-Dichloroethane	ND	100 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	600 µg/L
25 1,1,1-Trichloroethane	ND	100 µg/L	69 1,2,4-Trichlorobenzene	ND	400 µg/L
26 1,1-Dichloropropene	ND	100 µg/L	70 Naphthalene	530	400 µg/L
27 Carbon tetrachloride	ND	100 µg/L	71 1,2,3-Trichlorobenzene	ND	400 µg/L
28 Benzene	6,300	50 µg/L	72 Surr: 1,2-Dichloroethane-d4	98	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	100 µg/L	73 Surr: Toluene-d8	99	(70-130) %REC
30 Dibromomethane	ND	100 µg/L	74 Surr: 4-Bromofluorobenzene	98	(70-130) %REC
31 1,2-Dichloropropane	ND	100 µg/L			
32 Trichloroethene	ND	100 µg/L			
33 Bromodichloromethane	ND	100 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	500 µg/L			
35 cis-1,3-Dichloropropene	ND	100 µg/L			
36 trans-1,3-Dichloropropene	ND	100 µg/L			
37 1,1,2-Trichloroethane	ND	100 µg/L			
38 Toluene	460	50 µg/L			
39 1,3-Dichloropropane	ND	100 µg/L			
40 2-Hexanone	ND	1,000 µg/L			
41 Dibromochloromethane	ND	100 µg/L			
42 1,2-Dibromoethane (EDB)	ND	200 µg/L			
43 Tetrachloroethene	ND	100 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	100 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

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10/24/11

Report Date



# Alpha Analytical, Inc.

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## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101442-11A  
Client I.D. Number: EB-6

Sampled: 10/13/11 10:55  
Received: 10/14/11  
Extracted: 10/18/11  
Analyzed: 10/18/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	102	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	105	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	98	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

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*JRG*  
10/24/11

Report Date



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101442-12A  
Client I.D. Number: TB-4

Sampled: 10/13/11 06:40  
Received: 10/14/11  
Extracted: 10/18/11  
Analyzed: 10/18/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	101	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	100	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	99	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

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10/24/11

Report Date



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101442-13A  
Client I.D. Number: DUP-5

Sampled: 10/13/11 00:00  
Received: 10/14/11  
Extracted: 10/18/11  
Analyzed: 10/18/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	200 µg/L	45 Chlorobenzene	ND	200 µg/L
2 Chloromethane	ND	800 µg/L	46 Ethylbenzene	770	100 µg/L
3 Vinyl chloride	ND	200 µg/L	47 m,p-Xylene	3,000	100 µg/L
4 Chloroethane	ND	200 µg/L	48 Bromoform	ND	200 µg/L
5 Bromomethane	ND	800 µg/L	49 Xylenes, Total	3,500	100 µg/L
6 Trichlorofluoromethane	ND	200 µg/L	50 Styrene	ND	200 µg/L
7 Acetone	ND	4,000 µg/L	51 o-Xylene	530	100 µg/L
8 1,1-Dichloroethene	ND	200 µg/L	52 1,1,2,2-Tetrachloroethane	ND	200 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	2,000 µg/L	53 1,2,3-Trichloropropane	ND	800 µg/L
10 Dichloromethane	ND	800 µg/L	54 Isopropylbenzene	ND	200 µg/L
11 Freon-113	ND	200 µg/L	55 Bromobenzene	ND	200 µg/L
12 Carbon disulfide	ND	1,000 µg/L	56 n-Propylbenzene	ND	200 µg/L
13 trans-1,2-Dichloroethene	ND	200 µg/L	57 4-Chlorotoluene	ND	200 µg/L
14 Methyl tert-butyl ether (MTBE)	560	100 µg/L	58 2-Chlorotoluene	ND	200 µg/L
15 1,1-Dichloroethane	ND	200 µg/L	59 1,3,5-Trimethylbenzene	ND	200 µg/L
16 Vinyl acetate	ND	20,000 µg/L	60 tert-Butylbenzene	ND	200 µg/L
17 2-Butanone (MEK)	ND	4,000 µg/L	61 1,2,4-Trimethylbenzene	450	200 µg/L
18 Di-isopropyl Ether (DIPE)	ND	200 µg/L	62 sec-Butylbenzene	ND	200 µg/L
19 cis-1,2-Dichloroethene	ND	200 µg/L	63 1,3-Dichlorobenzene	ND	200 µg/L
20 Bromochloromethane	ND	200 µg/L	64 1,4-Dichlorobenzene	ND	200 µg/L
21 Chloroform	ND	200 µg/L	65 4-Isopropyltoluene	ND	200 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	200 µg/L	66 1,2-Dichlorobenzene	ND	200 µg/L
23 2,2-Dichloropropane	ND	200 µg/L	67 n-Butylbenzene	ND	200 µg/L
24 1,2-Dichloroethane	ND	200 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	1,200 µg/L
25 1,1,1-Trichloroethane	ND	200 µg/L	69 1,2,4-Trichlorobenzene	ND	800 µg/L
26 1,1-Dichloropropene	ND	200 µg/L	70 Naphthalene	ND	800 µg/L
27 Carbon tetrachloride	ND	200 µg/L	71 1,2,3-Trichlorobenzene	ND	800 µg/L
28 Benzene	14,000	100 µg/L	72 Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	200 µg/L	73 Surr: Toluene-d8	98	(70-130) %REC
30 Dibromomethane	ND	200 µg/L	74 Surr: 4-Bromofluorobenzene	98	(70-130) %REC
31 1,2-Dichloropropane	ND	200 µg/L			
32 Trichloroethene	ND	200 µg/L			
33 Bromodichloromethane	ND	200 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	1,000 µg/L			
35 cis-1,3-Dichloropropene	ND	200 µg/L			
36 trans-1,3-Dichloropropene	ND	200 µg/L			
37 1,1,2-Trichloroethane	ND	200 µg/L			
38 Toluene	390	100 µg/L			
39 1,3-Dichloropropane	ND	200 µg/L			
40 2-Hexanone	ND	2,000 µg/L			
41 Dibromochloromethane	ND	200 µg/L			
42 1,2-Dibromoethane (EDB)	ND	400 µg/L			
43 Tetrachloroethene	ND	200 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	200 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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10/24/11

Report Date



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101442-14A  
Client I.D. Number: GMW-25

Sampled: 10/13/11 14:50  
Received: 10/14/11  
Extracted: 10/18/11  
Analyzed: 10/18/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	200 µg/L	45 Chlorobenzene	ND	200 µg/L
2 Chloromethane	ND	800 µg/L	46 Ethylbenzene	220	100 µg/L
3 Vinyl chloride	ND	200 µg/L	47 m,p-Xylene	ND	100 µg/L
4 Chloroethane	ND	200 µg/L	48 Bromoform	ND	200 µg/L
5 Bromomethane	ND	800 µg/L	49 Xylenes, Total	ND	100 µg/L
6 Trichlorofluoromethane	ND	200 µg/L	50 Styrene	ND	200 µg/L
7 Acetone	ND	4,000 µg/L	51 o-Xylene	ND	100 µg/L
8 1,1-Dichloroethene	ND	200 µg/L	52 1,1,2,2-Tetrachloroethane	ND	200 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	2,000 µg/L	53 1,2,3-Trichloropropane	ND	800 µg/L
10 Dichloromethane	ND	800 µg/L	54 Isopropylbenzene	ND	200 µg/L
11 Freon-113	ND	200 µg/L	55 Bromobenzene	ND	200 µg/L
12 Carbon disulfide	ND	1,000 µg/L	56 n-Propylbenzene	ND	200 µg/L
13 trans-1,2-Dichloroethene	ND	200 µg/L	57 4-Chlorotoluene	ND	200 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	100 µg/L	58 2-Chlorotoluene	ND	200 µg/L
15 1,1-Dichloroethane	ND	200 µg/L	59 1,3,5-Trimethylbenzene	ND	200 µg/L
16 Vinyl acetate	ND	20,000 µg/L	60 tert-Butylbenzene	ND	200 µg/L
17 2-Butanone (MEK)	ND	4,000 µg/L	61 1,2,4-Trimethylbenzene	ND	200 µg/L
18 Di-isopropyl Ether (DIPE)	ND	200 µg/L	62 sec-Butylbenzene	ND	200 µg/L
19 cis-1,2-Dichloroethene	ND	200 µg/L	63 1,3-Dichlorobenzene	ND	200 µg/L
20 Bromochloromethane	ND	200 µg/L	64 1,4-Dichlorobenzene	ND	200 µg/L
21 Chloroform	ND	200 µg/L	65 4-Isopropyltoluene	ND	200 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	200 µg/L	66 1,2-Dichlorobenzene	ND	200 µg/L
23 2,2-Dichloropropane	ND	200 µg/L	67 n-Butylbenzene	ND	200 µg/L
24 1,2-Dichloroethane	ND	200 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	1,200 µg/L
25 1,1,1-Trichloroethane	ND	200 µg/L	69 1,2,4-Trichlorobenzene	ND	800 µg/L
26 1,1-Dichloropropene	ND	200 µg/L	70 Naphthalene	ND	800 µg/L
27 Carbon tetrachloride	ND	200 µg/L	71 1,2,3-Trichlorobenzene	ND	800 µg/L
28 Benzene	9,700	100 µg/L	72 Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	200 µg/L	73 Surr: Toluene-d8	105	(70-130) %REC
30 Dibromomethane	ND	200 µg/L	74 Surr: 4-Bromofluorobenzene	99	(70-130) %REC
31 1,2-Dichloropropane	ND	200 µg/L			
32 Trichloroethene	ND	200 µg/L			
33 Bromodichloromethane	ND	200 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	1,000 µg/L			
35 cis-1,3-Dichloropropene	ND	200 µg/L			
36 trans-1,3-Dichloropropene	ND	200 µg/L			
37 1,1,2-Trichloroethane	ND	200 µg/L			
38 Toluene	ND	100 µg/L			
39 1,3-Dichloropropane	ND	200 µg/L			
40 2-Hexanone	ND	2,000 µg/L			
41 Dibromochloromethane	ND	200 µg/L			
42 1,2-Dibromoethane (EDB)	ND	400 µg/L			
43 Tetrachloroethene	ND	200 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	200 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

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10/24/11

Report Date



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101442-15A  
Client I.D. Number: GMW-O-10

Sampled: 10/13/11 10:25  
Received: 10/14/11  
Extracted: 10/18/11  
Analyzed: 10/18/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	102	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	101	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	100	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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*YB*

10/24/11

Report Date



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101442-16A  
Client I.D. Number: GMW-O-23

Sampled: 10/13/11 09:45  
Received: 10/14/11  
Extracted: 10/18/11  
Analyzed: 10/18/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	200 µg/L	45 Chlorobenzene	ND	200 µg/L
2 Chloromethane	ND	800 µg/L	46 Ethylbenzene	540	100 µg/L
3 Vinyl chloride	ND	200 µg/L	47 m,p-Xylene	2,600	100 µg/L
4 Chloroethane	ND	200 µg/L	48 Bromoform	ND	200 µg/L
5 Bromomethane	ND	800 µg/L	49 Xylenes, Total	3,800	100 µg/L
6 Trichlorofluoromethane	ND	200 µg/L	50 Styrene	ND	200 µg/L
7 Acetone	ND	4,000 µg/L	51 o-Xylene	1,200	100 µg/L
8 1,1-Dichloroethene	ND	200 µg/L	52 1,1,2,2-Tetrachloroethane	ND	200 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	2,000 µg/L	53 1,2,3-Trichloropropane	ND	800 µg/L
10 Dichloromethane	ND	800 µg/L	54 Isopropylbenzene	ND	200 µg/L
11 Freon-113	ND	200 µg/L	55 Bromobenzene	ND	200 µg/L
12 Carbon disulfide	ND	1,000 µg/L	56 n-Propylbenzene	ND	200 µg/L
13 trans-1,2-Dichloroethene	ND	200 µg/L	57 4-Chlorotoluene	ND	200 µg/L
14 Methyl tert-butyl ether (MTBE)	1,500	100 µg/L	58 2-Chlorotoluene	ND	200 µg/L
15 1,1-Dichloroethane	ND	200 µg/L	59 1,3,5-Trimethylbenzene	ND	200 µg/L
16 Vinyl acetate	ND	20,000 µg/L	60 tert-Butylbenzene	ND	200 µg/L
17 2-Butanone (MEK)	ND	4,000 µg/L	61 1,2,4-Trimethylbenzene	340	200 µg/L
18 Di-isopropyl Ether (DIPE)	ND	200 µg/L	62 sec-Butylbenzene	ND	200 µg/L
19 cis-1,2-Dichloroethene	ND	200 µg/L	63 1,3-Dichlorobenzene	ND	200 µg/L
20 Bromochloromethane	ND	200 µg/L	64 1,4-Dichlorobenzene	ND	200 µg/L
21 Chloroform	ND	200 µg/L	65 4-Isopropyltoluene	ND	200 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	200 µg/L	66 1,2-Dichlorobenzene	ND	200 µg/L
23 2,2-Dichloropropane	ND	200 µg/L	67 n-Butylbenzene	ND	200 µg/L
24 1,2-Dichloroethane	ND	200 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	1,200 µg/L
25 1,1,1-Trichloroethane	ND	200 µg/L	69 1,2,4-Trichlorobenzene	ND	800 µg/L
26 1,1-Dichloropropene	ND	200 µg/L	70 Naphthalene	ND	800 µg/L
27 Carbon tetrachloride	ND	200 µg/L	71 1,2,3-Trichlorobenzene	ND	800 µg/L
28 Benzene	16,000	100 µg/L	72 Surr: 1,2-Dichloroethane-d4	101	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	200 µg/L	73 Surr: Toluene-d8	100	(70-130) %REC
30 Dibromomethane	ND	200 µg/L	74 Surr: 4-Bromofluorobenzene	99	(70-130) %REC
31 1,2-Dichloropropane	ND	200 µg/L			
32 Trichloroethene	ND	200 µg/L			
33 Bromodichloromethane	ND	200 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	1,000 µg/L			
35 cis-1,3-Dichloropropene	ND	200 µg/L			
36 trans-1,3-Dichloropropene	ND	200 µg/L			
37 1,1,2-Trichloroethane	ND	200 µg/L			
38 Toluene	11,000	100 µg/L			
39 1,3-Dichloropropane	ND	200 µg/L			
40 2-Hexanone	ND	2,000 µg/L			
41 Dibromochloromethane	ND	200 µg/L			
42 1,2-Dibromoethane (EDB)	ND	400 µg/L			
43 Tetrachloroethene	ND	200 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	200 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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10/24/11

Report Date



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101442-17A  
Client I.D. Number: MW-SF-5

Sampled: 10/13/11 08:00  
Received: 10/14/11  
Extracted: 10/18/11  
Analyzed: 10/18/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	5.0 µg/L	45 Chlorobenzene	ND	5.0 µg/L
2 Chloromethane	ND	20 µg/L	46 Ethylbenzene	ND	2.5 µg/L
3 Vinyl chloride	ND	5.0 µg/L	47 m,p-Xylene	ND	2.5 µg/L
4 Chloroethane	ND	5.0 µg/L	48 Bromoform	ND	5.0 µg/L
5 Bromomethane	ND	20 µg/L	49 Xylenes, Total	ND	2.5 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	5.0 µg/L
7 Acetone	ND	100 µg/L	51 o-Xylene	ND	2.5 µg/L
8 1,1-Dichloroethene	ND	5.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	5.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	100	50 µg/L	53 1,2,3-Trichloropropane	ND	20 µg/L
10 Dichloromethane	ND	20 µg/L	54 Isopropylbenzene	ND	5.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	5.0 µg/L
12 Carbon disulfide	ND	25 µg/L	56 n-Propylbenzene	ND	5.0 µg/L
13 trans-1,2-Dichloroethene	ND	5.0 µg/L	57 4-Chlorotoluene	ND	5.0 µg/L
14 Methyl tert-butyl ether (MTBE)	240	2.5 µg/L	58 2-Chlorotoluene	ND	5.0 µg/L
15 1,1-Dichloroethane	ND	5.0 µg/L	59 1,3,5-Trimethylbenzene	ND	5.0 µg/L
16 Vinyl acetate	ND	500 µg/L	60 tert-Butylbenzene	ND	5.0 µg/L
17 2-Butanone (MEK)	ND	100 µg/L	61 1,2,4-Trimethylbenzene	ND	5.0 µg/L
18 Di-isopropyl Ether (DIPE)	11	5.0 µg/L	62 sec-Butylbenzene	ND	5.0 µg/L
19 cis-1,2-Dichloroethene	ND	5.0 µg/L	63 1,3-Dichlorobenzene	ND	5.0 µg/L
20 Bromochloromethane	ND	5.0 µg/L	64 1,4-Dichlorobenzene	ND	5.0 µg/L
21 Chloroform	ND	5.0 µg/L	65 4-Isopropyltoluene	ND	5.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	5.0 µg/L	66 1,2-Dichlorobenzene	ND	5.0 µg/L
23 2,2-Dichloropropane	ND	5.0 µg/L	67 n-Butylbenzene	ND	5.0 µg/L
24 1,2-Dichloroethane	ND	5.0 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	30 µg/L
25 1,1,1-Trichloroethane	ND	5.0 µg/L	69 1,2,4-Trichlorobenzene	ND	20 µg/L
26 1,1-Dichloropropene	ND	5.0 µg/L	70 Naphthalene	ND	20 µg/L
27 Carbon tetrachloride	ND	5.0 µg/L	71 1,2,3-Trichlorobenzene	ND	20 µg/L
28 Benzene	6.9	2.5 µg/L	72 Surr: 1,2-Dichloroethane-d4	102	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	5.0 µg/L	73 Surr: Toluene-d8	99	(70-130) %REC
30 Dibromomethane	ND	5.0 µg/L	74 Surr: 4-Bromofluorobenzene	100	(70-130) %REC
31 1,2-Dichloropropane	ND	5.0 µg/L			
32 Trichloroethene	ND	5.0 µg/L			
33 Bromodichloromethane	ND	5.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	25 µg/L			
35 cis-1,3-Dichloropropene	ND	5.0 µg/L			
36 trans-1,3-Dichloropropene	ND	5.0 µg/L			
37 1,1,2-Trichloroethane	ND	5.0 µg/L			
38 Toluene	ND	2.5 µg/L			
39 1,3-Dichloropropane	ND	5.0 µg/L			
40 2-Hexanone	ND	50 µg/L			
41 Dibromochloromethane	ND	5.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	10 µg/L			
43 Tetrachloroethene	ND	5.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	5.0 µg/L			

Reporting Limits were increased due to sample foaming.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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10/24/11

Report Date





# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101442-18A  
Client I.D. Number: MW-SF-10

Sampled: 10/13/11 13:10  
Received: 10/14/11  
Extracted: 10/18/11  
Analyzed: 10/18/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	20 µg/L	45 Chlorobenzene	ND	20 µg/L
2 Chloromethane	ND	80 µg/L	46 Ethylbenzene	260	10 µg/L
3 Vinyl chloride	ND	20 µg/L	47 m,p-Xylene	1,500	10 µg/L
4 Chloroethane	ND	20 µg/L	48 Bromoform	ND	20 µg/L
5 Bromomethane	ND	80 µg/L	49 Xylenes, Total	2,900	10 µg/L
6 Trichlorofluoromethane	ND	20 µg/L	50 Styrene	ND	20 µg/L
7 Acetone	ND	400 µg/L	51 o-Xylene	1,300	10 µg/L
8 1,1-Dichloroethene	ND	20 µg/L	52 1,1,2,2-Tetrachloroethane	ND	20 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	200 µg/L	53 1,2,3-Trichloropropane	ND	80 µg/L
10 Dichloromethane	ND	80 µg/L	54 Isopropylbenzene	ND	20 µg/L
11 Freon-113	ND	20 µg/L	55 Bromobenzene	ND	20 µg/L
12 Carbon disulfide	ND	100 µg/L	56 n-Propylbenzene	36	20 µg/L
13 trans-1,2-Dichloroethene	ND	20 µg/L	57 4-Chlorotoluene	ND	20 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	10 µg/L	58 2-Chlorotoluene	ND	20 µg/L
15 1,1-Dichloroethane	ND	20 µg/L	59 1,3,5-Trimethylbenzene	300	20 µg/L
16 Vinyl acetate	ND	2,000 µg/L	60 tert-Butylbenzene	ND	20 µg/L
17 2-Butanone (MEK)	ND	400 µg/L	61 1,2,4-Trimethylbenzene	750	20 µg/L
18 Di-isopropyl Ether (DIPE)	ND	20 µg/L	62 sec-Butylbenzene	ND	20 µg/L
19 cis-1,2-Dichloroethene	ND	20 µg/L	63 1,3-Dichlorobenzene	ND	20 µg/L
20 Bromochloromethane	ND	20 µg/L	64 1,4-Dichlorobenzene	ND	20 µg/L
21 Chloroform	ND	20 µg/L	65 4-Isopropyltoluene	ND	20 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/L	66 1,2-Dichlorobenzene	ND	20 µg/L
23 2,2-Dichloropropane	ND	20 µg/L	67 n-Butylbenzene	ND	20 µg/L
24 1,2-Dichloroethane	ND	20 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	120 µg/L
25 1,1,1-Trichloroethane	ND	20 µg/L	69 1,2,4-Trichlorobenzene	ND	80 µg/L
26 1,1-Dichloropropene	ND	20 µg/L	70 Naphthalene	260	80 µg/L
27 Carbon tetrachloride	ND	20 µg/L	71 1,2,3-Trichlorobenzene	ND	80 µg/L
28 Benzene	320	10 µg/L	72 Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/L	73 Surr: Toluene-d8	98	(70-130) %REC
30 Dibromomethane	ND	20 µg/L	74 Surr: 4-Bromofluorobenzene	102	(70-130) %REC
31 1,2-Dichloropropane	ND	20 µg/L			
32 Trichloroethene	ND	20 µg/L			
33 Bromodichloromethane	ND	20 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	100 µg/L			
35 cis-1,3-Dichloropropene	ND	20 µg/L			
36 trans-1,3-Dichloropropene	ND	20 µg/L			
37 1,1,2-Trichloroethane	ND	20 µg/L			
38 Toluene	320	10 µg/L			
39 1,3-Dichloropropane	ND	20 µg/L			
40 2-Hexanone	ND	200 µg/L			
41 Dibromochloromethane	ND	20 µg/L			
42 1,2-Dibromoethane (EDB)	ND	40 µg/L			
43 Tetrachloroethene	ND	20 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	20 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

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10/24/11

Report Date



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101442-19A  
Client I.D. Number: MW-SF-12

Sampled: 10/13/11 11:50  
Received: 10/14/11  
Extracted: 10/18/11  
Analyzed: 10/18/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	200 µg/L	45 Chlorobenzene	ND	200 µg/L
2 Chloromethane	ND	800 µg/L	46 Ethylbenzene	1,000	100 µg/L
3 Vinyl chloride	ND	200 µg/L	47 m,p-Xylene	4,300	100 µg/L
4 Chloroethane	ND	200 µg/L	48 Bromoform	ND	200 µg/L
5 Bromomethane	ND	800 µg/L	49 Xylenes, Total	6,400	100 µg/L
6 Trichlorofluoromethane	ND	200 µg/L	50 Styrene	ND	200 µg/L
7 Acetone	ND	4,000 µg/L	51 o-Xylene	2,100	100 µg/L
8 1,1-Dichloroethene	ND	200 µg/L	52 1,1,2,2-Tetrachloroethane	ND	200 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	2,000 µg/L	53 1,2,3-Trichloropropane	ND	800 µg/L
10 Dichloromethane	ND	800 µg/L	54 Isopropylbenzene	ND	200 µg/L
11 Freon-113	ND	200 µg/L	55 Bromobenzene	ND	200 µg/L
12 Carbon disulfide	ND	1,000 µg/L	56 n-Propylbenzene	ND	200 µg/L
13 trans-1,2-Dichloroethene	ND	200 µg/L	57 4-Chlorotoluene	ND	200 µg/L
14 Methyl tert-butyl ether (MTBE)	7,200	100 µg/L	58 2-Chlorotoluene	ND	200 µg/L
15 1,1-Dichloroethane	ND	200 µg/L	59 1,3,5-Trimethylbenzene	ND	200 µg/L
16 Vinyl acetate	ND	20,000 µg/L	60 tert-Butylbenzene	ND	200 µg/L
17 2-Butanone (MEK)	ND	4,000 µg/L	61 1,2,4-Trimethylbenzene	610	200 µg/L
18 Di-isopropyl Ether (DIPE)	ND	200 µg/L	62 sec-Butylbenzene	ND	200 µg/L
19 cis-1,2-Dichloroethene	ND	200 µg/L	63 1,3-Dichlorobenzene	ND	200 µg/L
20 Bromochloromethane	ND	200 µg/L	64 1,4-Dichlorobenzene	ND	200 µg/L
21 Chloroform	ND	200 µg/L	65 4-Isopropyltoluene	ND	200 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	200 µg/L	66 1,2-Dichlorobenzene	ND	200 µg/L
23 2,2-Dichloropropane	ND	200 µg/L	67 n-Butylbenzene	ND	200 µg/L
24 1,2-Dichloroethane	ND	200 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	1,200 µg/L
25 1,1,1-Trichloroethane	ND	200 µg/L	69 1,2,4-Trichlorobenzene	ND	800 µg/L
26 1,1-Dichloropropene	ND	200 µg/L	70 Naphthalene	ND	800 µg/L
27 Carbon tetrachloride	ND	200 µg/L	71 1,2,3-Trichlorobenzene	ND	800 µg/L
28 Benzene	24,000	100 µg/L	72 Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	200 µg/L	73 Surr: Toluene-d8	99	(70-130) %REC
30 Dibromomethane	ND	200 µg/L	74 Surr: 4-Bromofluorobenzene	101	(70-130) %REC
31 1,2-Dichloropropane	ND	200 µg/L			
32 Trichloroethene	ND	200 µg/L			
33 Bromodichloromethane	ND	200 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	1,000 µg/L			
35 cis-1,3-Dichloropropene	ND	200 µg/L			
36 trans-1,3-Dichloropropene	ND	200 µg/L			
37 1,1,2-Trichloroethane	ND	200 µg/L			
38 Toluene	18,000	100 µg/L			
39 1,3-Dichloropropane	ND	200 µg/L			
40 2-Hexanone	ND	2,000 µg/L			
41 Dibromochloromethane	ND	200 µg/L			
42 1,2-Dibromoethane (EDB)	ND	400 µg/L			
43 Tetrachloroethene	ND	200 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	200 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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10/24/11

Report Date



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101442-20A  
Client I.D. Number: MW-SF-14

Sampled: 10/13/11 08:35  
Received: 10/14/11  
Extracted: 10/19/11  
Analyzed: 10/19/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	200 µg/L	45 Chlorobenzene	ND	200 µg/L
2 Chloromethane	ND	800 µg/L	46 Ethylbenzene	ND	100 µg/L
3 Vinyl chloride	ND	200 µg/L	47 m,p-Xylene	310	100 µg/L
4 Chloroethane	ND	200 µg/L	48 Bromoform	ND	200 µg/L
5 Bromomethane	ND	800 µg/L	49 Xylenes, Total	660	100 µg/L
6 Trichlorofluoromethane	ND	200 µg/L	50 Styrene	ND	200 µg/L
7 Acetone	ND	4,000 µg/L	51 o-Xylene	350	100 µg/L
8 1,1-Dichloroethene	ND	200 µg/L	52 1,1,2,2-Tetrachloroethane	ND	200 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	2,000 µg/L	53 1,2,3-Trichloropropane	ND	800 µg/L
10 Dichloromethane	ND	800 µg/L	54 Isopropylbenzene	ND	200 µg/L
11 Freon-113	ND	200 µg/L	55 Bromobenzene	ND	200 µg/L
12 Carbon disulfide	ND	1,000 µg/L	56 n-Propylbenzene	ND	200 µg/L
13 trans-1,2-Dichloroethene	ND	200 µg/L	57 4-Chlorotoluene	ND	200 µg/L
14 Methyl tert-butyl ether (MTBE)	760	100 µg/L	58 2-Chlorotoluene	ND	200 µg/L
15 1,1-Dichloroethane	ND	200 µg/L	59 1,3,5-Trimethylbenzene	ND	200 µg/L
16 Vinyl acetate	ND	20,000 µg/L	60 tert-Butylbenzene	ND	200 µg/L
17 2-Butanone (MEK)	ND	4,000 µg/L	61 1,2,4-Trimethylbenzene	ND	200 µg/L
18 Di-isopropyl Ether (DIPE)	ND	200 µg/L	62 sec-Butylbenzene	ND	200 µg/L
19 cis-1,2-Dichloroethene	ND	200 µg/L	63 1,3-Dichlorobenzene	ND	200 µg/L
20 Bromochloromethane	ND	200 µg/L	64 1,4-Dichlorobenzene	ND	200 µg/L
21 Chloroform	ND	200 µg/L	65 4-Isopropyltoluene	ND	200 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	200 µg/L	66 1,2-Dichlorobenzene	ND	200 µg/L
23 2,2-Dichloropropane	ND	200 µg/L	67 n-Butylbenzene	ND	200 µg/L
24 1,2-Dichloroethane	ND	200 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	1,200 µg/L
25 1,1,1-Trichloroethane	ND	200 µg/L	69 1,2,4-Trichlorobenzene	ND	800 µg/L
26 1,1-Dichloropropene	ND	200 µg/L	70 Naphthalene	ND	800 µg/L
27 Carbon tetrachloride	ND	200 µg/L	71 1,2,3-Trichlorobenzene	ND	800 µg/L
28 Benzene	9,100	100 µg/L	72 Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	200 µg/L	73 Surr: Toluene-d8	99	(70-130) %REC
30 Dibromomethane	ND	200 µg/L	74 Surr: 4-Bromofluorobenzene	99	(70-130) %REC
31 1,2-Dichloropropane	ND	200 µg/L			
32 Trichloroethene	ND	200 µg/L			
33 Bromodichloromethane	ND	200 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	1,000 µg/L			
35 cis-1,3-Dichloropropene	ND	200 µg/L			
36 trans-1,3-Dichloropropene	ND	200 µg/L			
37 1,1,2-Trichloroethane	ND	200 µg/L			
38 Toluene	120	100 µg/L			
39 1,3-Dichloropropane	ND	200 µg/L			
40 2-Hexanone	ND	2,000 µg/L			
41 Dibromochloromethane	ND	200 µg/L			
42 1,2-Dibromoethane (EDB)	ND	400 µg/L			
43 Trachloroethene	ND	200 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	200 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

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10/24/11

Report Date



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101442-21A  
Client I.D. Number: EB-7

Sampled: 10/13/11 11:15  
Received: 10/14/11  
Extracted: 10/19/11  
Analyzed: 10/19/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	99	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	101	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

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*PS*

10/24/11

Report Date



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101442-22A  
Client I.D. Number: DUP-6

Sampled: 10/13/11 00:00  
Received: 10/14/11  
Extracted: 10/19/11  
Analyzed: 10/19/11

### Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	200 µg/L	45 Chlorobenzene	ND	200 µg/L
2 Chloromethane	ND	800 µg/L	46 Ethylbenzene	1,300	100 µg/L
3 Vinyl chloride	ND	200 µg/L	47 m,p-Xylene	5,300	100 µg/L
4 Chloroethane	ND	200 µg/L	48 Bromoform	ND	200 µg/L
5 Bromomethane	ND	800 µg/L	49 Xylenes, Total	7,900	100 µg/L
6 Trichlorofluoromethane	ND	200 µg/L	50 Styrene	ND	200 µg/L
7 Acetone	ND	4,000 µg/L	51 o-Xylene	2,600	100 µg/L
8 1,1-Dichloroethene	ND	200 µg/L	52 1,1,2,2-Tetrachloroethane	ND	200 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	2,000 µg/L	53 1,2,3-Trichloropropane	ND	800 µg/L
10 Dichloromethane	ND	800 µg/L	54 Isopropylbenzene	ND	200 µg/L
11 Freon-113	ND	200 µg/L	55 Bromobenzene	ND	200 µg/L
12 Carbon disulfide	ND	1,000 µg/L	56 n-Propylbenzene	ND	200 µg/L
13 trans-1,2-Dichloroethene	ND	200 µg/L	57 4-Chlorotoluene	ND	200 µg/L
14 Methyl tert-butyl ether (MTBE)	7,100	100 µg/L	58 2-Chlorotoluene	ND	200 µg/L
15 1,1-Dichloroethane	ND	200 µg/L	59 1,3,5-Trimethylbenzene	220	200 µg/L
16 Vinyl acetate	ND	20,000 µg/L	60 tert-Butylbenzene	ND	200 µg/L
17 2-Butanone (MEK)	ND	4,000 µg/L	61 1,2,4-Trimethylbenzene	780	200 µg/L
18 Di-isopropyl Ether (DIPE)	ND	200 µg/L	62 sec-Butylbenzene	ND	200 µg/L
19 cis-1,2-Dichloroethene	ND	200 µg/L	63 1,3-Dichlorobenzene	ND	200 µg/L
20 Bromochloromethane	ND	200 µg/L	64 1,4-Dichlorobenzene	ND	200 µg/L
21 Chloroform	ND	200 µg/L	65 4-Isopropyltoluene	ND	200 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	200 µg/L	66 1,2-Dichlorobenzene	ND	200 µg/L
23 2,2-Dichloropropane	ND	200 µg/L	67 n-Butylbenzene	ND	200 µg/L
24 1,2-Dichloroethane	ND	200 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	1,200 µg/L
25 1,1,1-Trichloroethane	ND	200 µg/L	69 1,2,4-Trichlorobenzene	ND	800 µg/L
26 1,1-Dichloropropene	ND	200 µg/L	70 Naphthalene	ND	800 µg/L
27 Carbon tetrachloride	ND	200 µg/L	71 1,2,3-Trichlorobenzene	ND	800 µg/L
28 Benzene	25,000	100 µg/L	72 Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	200 µg/L	73 Surr: Toluene-d8	101	(70-130) %REC
30 Dibromomethane	ND	200 µg/L	74 Surr: 4-Bromofluorobenzene	99	(70-130) %REC
31 1,2-Dichloropropane	ND	200 µg/L			
32 Trichloroethene	ND	200 µg/L			
33 Bromodichloromethane	ND	200 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	1,000 µg/L			
35 cis-1,3-Dichloropropene	ND	200 µg/L			
36 trans-1,3-Dichloropropene	ND	200 µg/L			
37 1,1,2-Trichloroethane	ND	200 µg/L			
38 Toluene	20,000	100 µg/L			
39 1,3-Dichloropropane	ND	200 µg/L			
40 2-Hexanone	ND	2,000 µg/L			
41 Dibromochloromethane	ND	200 µg/L			
42 1,2-Dibromoethane (EDB)	ND	400 µg/L			
43 Tetrachloroethene	ND	200 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	200 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

*Roger Scholl*      *Randy Gardner*      *Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

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10/24/11

Report Date



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## VOC Sample Preservation Report

Work Order: CHH11101442

Job: KMEP Norwalk

Alpha's Sample ID	Client's Sample ID	Matrix	pH
11101442-01A	GWR-3	Aqueous	5
11101442-02A	GMW-9	Aqueous	5
11101442-03A	GMW-24	Aqueous	5
11101442-04A	GMW-36	Aqueous	2
11101442-05A	MW-SF-2	Aqueous	5
11101442-06A	MW-SF-6	Aqueous	5
11101442-07A	MW-SF-11	Aqueous	5
11101442-08A	GMW-O-12	Aqueous	6
11101442-09A	GMW-O-15	Aqueous	2
11101442-10A	GMW-O-20	Aqueous	5
11101442-11A	EB-6	Aqueous	2
11101442-12A	TB-4	Aqueous	2
11101442-13A	DUP-5	Aqueous	5
11101442-14A	GMW-25	Aqueous	5
11101442-15A	GMW-O-10	Aqueous	2
11101442-16A	GMW-O-23	Aqueous	5
11101442-17A	MW-SF-5	Aqueous	5
11101442-18A	MW-SF-10	Aqueous	5
11101442-19A	MW-SF-12	Aqueous	5
11101442-20A	MW-SF-14	Aqueous	5
11101442-21A	EB-7	Aqueous	2
11101442-22A	DUP-6	Aqueous	5

10/24/11

Report Date

Page 1 of 1



# Alpha Analytical, Inc.

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Date:  
21-Oct-11

## QC Summary Report

Work Order:  
11101442

### Method Blank

Type **MBLK** Test Code: **EPA Method SW8015B/C Ext**

File ID: **7A10141105.D**

Batch ID: **27491**

Analysis Date: **10/14/2011 15:33**

Sample ID: **MBLK-27491**

Units : **mg/L**

Run ID: **FID\_7\_111014B**

Prep Date: **10/14/2011 12:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (Fuel Product)	ND	0.1								
Surr: Nonane	0.146		0.15		97	49	145			

### Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015B/C Ext**

File ID: **7A10141106.D**

Batch ID: **27491**

Analysis Date: **10/14/2011 15:59**

Sample ID: **LCS-27491**

Units : **mg/L**

Run ID: **FID\_7\_111014B**

Prep Date: **10/14/2011 12:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.21	0.05	2.5		88	70	130			
Surr: Nonane	0.147		0.15		98	49	145			

### Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8015B/C Ext**

File ID: **7A10141108.D**

Batch ID: **27491**

Analysis Date: **10/14/2011 16:53**

Sample ID: **11101322-21AMS**

Units : **mg/L**

Run ID: **FID\_7\_111014B**

Prep Date: **10/14/2011 12:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.61	0.05	2.5	0	104	53	150			
Surr: Nonane	0.11		0.15		73	49	145			

### Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8015B/C Ext**

File ID: **7A10141109.D**

Batch ID: **27491**

Analysis Date: **10/14/2011 17:19**

Sample ID: **11101322-21AMSD**

Units : **mg/L**

Run ID: **FID\_7\_111014B**

Prep Date: **10/14/2011 12:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.41	0.05	2.5	0	96	53	150	2.605	7.7(47)	
Surr: Nonane	0.105		0.15		70	49	145			

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:  
21-Oct-11

## QC Summary Report

Work Order:  
11101442

### Method Blank

Type **MBLK** Test Code: **EPA Method SW8015B/C Ext**

File ID: **7A10141137.D**

Batch ID: **27493**

Analysis Date: **10/15/2011 05:50**

Sample ID: **MBLK-27493**

Units : **mg/L**

Run ID: **FID\_7\_111014A**

Prep Date: **10/14/2011 13:57**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (Fuel Product)	ND	0.1								
Surr: Nonane	0.161		0.15		107	49	145			

### Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015B/C Ext**

File ID: **7A10141138.D**

Batch ID: **27493**

Analysis Date: **10/15/2011 06:17**

Sample ID: **LCS-27493**

Units : **mg/L**

Run ID: **FID\_7\_111014A**

Prep Date: **10/14/2011 13:57**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.47	0.05	2.5		99	70	130			
Surr: Nonane	0.158		0.15		105	49	145			

### Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8015B/C Ext**

File ID: **7A10141140.D**

Batch ID: **27493**

Analysis Date: **10/15/2011 07:11**

Sample ID: **11101442-01AMS**

Units : **mg/L**

Run ID: **FID\_7\_111014A**

Prep Date: **10/14/2011 13:57**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	6.06	0.05	2.5	1.99	163	53	150			M1
Surr: Nonane	0.126		0.15		84	49	145			

### Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8015B/C Ext**

File ID: **7A10141141.D**

Batch ID: **27493**

Analysis Date: **10/15/2011 07:38**

Sample ID: **11101442-01AMSD**

Units : **mg/L**

Run ID: **FID\_7\_111014A**

Prep Date: **10/14/2011 13:57**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	6.29	0.05	2.5	1.99	172	53	150	6.058	3.7(47)	M1
Surr: Nonane	0.134		0.15		89	49	145			

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

M1 = Matrix spike recovery was high, the method control sample recovery was acceptable.





# Alpha Analytical, Inc.

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Date:  
21-Oct-11

## QC Summary Report

Work Order:  
11101442

### Method Blank

Type **MBLK** Test Code: **EPA Method SW8015B/C**

File ID: **11101807.D**

Batch ID: **MS15W1018B**

Analysis Date: **10/18/2011 11:56**

Sample ID: **MBLK MS15W1018B**

Units : **mg/L**

Run ID: **MSD\_15\_111018A**

Prep Date: **10/18/2011 11:56**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	0.05								
Surr: 1,2-Dichloroethane-d4	0.00995		0.01		100	70	130			
Surr: Toluene-d8	0.0101		0.01		101	70	130			
Surr: 4-Bromofluorobenzene	0.00974		0.01		97	70	130			

### Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015B/C**

File ID: **11101803.D**

Batch ID: **MS15W1018B**

Analysis Date: **10/18/2011 10:30**

Sample ID: **GLCS MS15W1018B**

Units : **mg/L**

Run ID: **MSD\_15\_111018A**

Prep Date: **10/18/2011 10:30**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.396	0.05	0.4		99	70	130			
Surr: 1,2-Dichloroethane-d4	0.00967		0.01		97	70	130			
Surr: Toluene-d8	0.01		0.01		100	70	130			
Surr: 4-Bromofluorobenzene	0.00985		0.01		99	70	130			

### Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8015B/C**

File ID: **11101810.D**

Batch ID: **MS15W1018B**

Analysis Date: **10/18/2011 13:00**

Sample ID: **11101442-15AGS**

Units : **mg/L**

Run ID: **MSD\_15\_111018A**

Prep Date: **10/18/2011 13:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.98	0.25	2	0	99	51	144			
Surr: 1,2-Dichloroethane-d4	0.0502		0.05		100	70	130			
Surr: Toluene-d8	0.0499		0.05		99.8	70	130			
Surr: 4-Bromofluorobenzene	0.0505		0.05		101	70	130			

### Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8015B/C**

File ID: **11101811.D**

Batch ID: **MS15W1018B**

Analysis Date: **10/18/2011 13:21**

Sample ID: **11101442-15AGSD**

Units : **mg/L**

Run ID: **MSD\_15\_111018A**

Prep Date: **10/18/2011 13:21**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2.05	0.25	2	0	102	51	144	1.984	3.2(29)	
Surr: 1,2-Dichloroethane-d4	0.0499		0.05		99.8	70	130			
Surr: Toluene-d8	0.0491		0.05		98	70	130			
Surr: 4-Bromofluorobenzene	0.0506		0.05		101	70	130			

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:  
24-Oct-11

## QC Summary Report

Work Order:  
11101442

### Method Blank

Type: MBLK Test Code: EPA Method SW8015B/C

File ID: 11101907.D

Batch ID: MS15W1019B

Analysis Date: 10/19/2011 10:37

Sample ID: MBLK MS15W1019B

Units : mg/L

Run ID: MSD\_15\_111019A

Prep Date: 10/19/2011 10:37

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	0.05								
Surr: 1,2-Dichloroethane-d4	0.0102		0.01		102	70	130			
Surr: Toluene-d8	0.01		0.01		100	70	130			
Surr: 4-Bromofluorobenzene	0.00988		0.01		99	70	130			

### Laboratory Control Spike

Type: LCS Test Code: EPA Method SW8015B/C

File ID: 11101903.D

Batch ID: MS15W1019B

Analysis Date: 10/19/2011 09:01

Sample ID: GLCS MS15W1019B

Units : mg/L

Run ID: MSD\_15\_111019A

Prep Date: 10/19/2011 09:01

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.402	0.05	0.4		100	70	130			
Surr: 1,2-Dichloroethane-d4	0.00947		0.01		95	70	130			
Surr: Toluene-d8	0.00993		0.01		99	70	130			
Surr: 4-Bromofluorobenzene	0.0101		0.01		101	70	130			

### Sample Matrix Spike

Type: MS Test Code: EPA Method SW8015B/C

File ID: 11101910.D

Batch ID: MS15W1019B

Analysis Date: 10/19/2011 11:42

Sample ID: 11101307-02AGS

Units : mg/L

Run ID: MSD\_15\_111019A

Prep Date: 10/19/2011 11:42

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.92	0.25	2	0	96	51	144			
Surr: 1,2-Dichloroethane-d4	0.05		0.05		100	70	130			
Surr: Toluene-d8	0.0494		0.05		99	70	130			
Surr: 4-Bromofluorobenzene	0.0516		0.05		103	70	130			

### Sample Matrix Spike Duplicate

Type: MSD Test Code: EPA Method SW8015B/C

File ID: 11101911.D

Batch ID: MS15W1019B

Analysis Date: 10/19/2011 12:04

Sample ID: 11101307-02AGSD

Units : mg/L

Run ID: MSD\_15\_111019A

Prep Date: 10/19/2011 12:04

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2.19	0.25	2	0	109	51	144	1.92	13.1(29)	
Surr: 1,2-Dichloroethane-d4	0.05		0.05		100	70	130			
Surr: Toluene-d8	0.05		0.05		100	70	130			
Surr: 4-Bromofluorobenzene	0.0503		0.05		101	70	130			

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:  
21-Oct-11

## QC Summary Report

Work Order:  
11101442

### Method Blank

Type **MBLK** Test Code: **EPA Method SW8260B**

File ID: **11101807.D**

Batch ID: **MS15W1018A**

Analysis Date: **10/18/2011 11:56**

Sample ID: **MBLK MS15W1018A**

Units: **µg/L**

Run ID: **MSD\_15\_111018A**

Prep Date: **10/18/2011 11:56**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	ND		1							
Chloromethane	ND		2							
Vinyl chloride	ND	0.5								
Chloroethane	ND		1							
Bromomethane	ND		2							
Trichlorofluoromethane	ND	10								
Acetone	ND	10								
1,1-Dichloroethene	ND		1							
Tertiary Butyl Alcohol (TBA)	ND	10								
Dichloromethane	ND		5							
Freon-113	ND	10								
Carbon disulfide	ND	2.5								
trans-1,2-Dichloroethene	ND		1							
Methyl tert-butyl ether (MTBE)	ND	0.5								
1,1-Dichloroethane	ND		1							
Vinyl acetate	ND	50								
2-Butanone (MEK)	ND	10								
Di-isopropyl Ether (DIPE)	ND		1							
cis-1,2-Dichloroethene	ND		1							
Bromochloromethane	ND		1							
Chloroform	ND		1							
Ethyl Tertiary Butyl Ether (ETBE)	ND		1							
2,2-Dichloropropane	ND		1							
1,2-Dichloroethane	ND	0.5								
1,1,1-Trichloroethane	ND		1							
1,1-Dichloropropene	ND		1							
Carbon tetrachloride	ND		1							
Benzene	ND	0.5								
Tertiary Amyl Methyl Ether (TAME)	ND		1							
Dibromomethane	ND		1							
1,2-Dichloropropane	ND		1							
Trichloroethene	ND		1							
Bromodichloromethane	ND		1							
4-Methyl-2-pentanone (MIBK)	ND	10								
cis-1,3-Dichloropropene	ND	0.5								
trans-1,3-Dichloropropene	ND	0.5								
1,1,2-Trichloroethane	ND		1							
Toluene	ND	0.5								
1,3-Dichloropropane	ND		1							
2-Hexanone	ND	5								
Dibromochloromethane	ND		1							
1,2-Dibromoethane (EDB)	ND	2								
Tetrachloroethene	ND		1							
1,1,1,2-Tetrachloroethane	ND		1							
Chlorobenzene	ND		1							
Ethylbenzene	ND	0.5								
m,p-Xylene	ND	0.5								
Bromoform	ND		1							
Styrene	ND		1							
o-Xylene	ND	0.5								
1,1,2,2-Tetrachloroethane	ND		1							
1,2,3-Trichloropropane	ND	2								
Isopropylbenzene	ND		1							
Bromobenzene	ND		1							
n-Propylbenzene	ND		1							
4-Chlorotoluene	ND		1							
2-Chlorotoluene	ND		1							
1,3,5-Trimethylbenzene	ND		1							
tert-Butylbenzene	ND		1							
1,2,4-Trimethylbenzene	ND		1							
sec-Butylbenzene	ND		1							
1,3-Dichlorobenzene	ND		1							
1,4-Dichlorobenzene	ND		1							
4-Isopropyltoluene	ND		1							
1,2-Dichlorobenzene	ND		1							



# Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:  
21-Oct-11

## QC Summary Report

Work Order:  
11101442

n-Butylbenzene	ND	1				
1,2-Dibromo-3-chloropropane (DBCP)	ND	5				
1,2,4-Trichlorobenzene	ND	2				
Naphthalene	ND	10				
1,2,3-Trichlorobenzene	ND	2				
Xylenes, Total	ND	0.5				
Surr: 1,2-Dichloroethane-d4	9.95		10	100	70	130
Surr: Toluene-d8	10.1		10	101	70	130
Surr: 4-Bromofluorobenzene	9.74		10	97	70	130

### Laboratory Control Spike

Type LCS

Test Code: EPA Method SW8260B

File ID: 11101804.D

Batch ID: MS15W1018A

Analysis Date: 10/18/2011 10:52

Sample ID: LCS MS15W1018A

Units: µg/L

Run ID: MSD\_15\_111018A

Prep Date: 10/18/2011 10:52

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	9.97	1	10		99.7	80	120			
Methyl tert-butyl ether (MTBE)	11.6	0.5	10		116	65	140			
Benzene	10.6	0.5	10		106	70	130			
Trichloroethene	10.6	1	10		106	65	144			
Toluene	9.99	0.5	10		99.9	80	120			
Chlorobenzene	10	1	10		100	70	130			
Ethylbenzene	10.8	0.5	10		108	80	120			
m,p-Xylene	10.5	0.5	10		105	70	130			
o-Xylene	10.5	0.5	10		105	70	130			
Xylenes, Total	21.1	0.5	20		105	70	130			
Surr: 1,2-Dichloroethane-d4	9.81		10		98	70	130			
Surr: Toluene-d8	9.58		10		96	70	130			
Surr: 4-Bromofluorobenzene	10		10		100	70	130			

### Sample Matrix Spike

Type MS

Test Code: EPA Method SW8260B

File ID: 11101808.D

Batch ID: MS15W1018A

Analysis Date: 10/18/2011 12:18

Sample ID: 11101442-15AMS

Units: µg/L

Run ID: MSD\_15\_111018A

Prep Date: 10/18/2011 12:18

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	37.5	2.5	50	0	75	64	130			
Methyl tert-butyl ether (MTBE)	61	1.3	50	0	122	47	150			
Benzene	54.2	1.3	50	0	108	59	138			
Trichloroethene	53.8	2.5	50	0	108	65	144			
Toluene	51.4	1.3	50	0	103	68	130			
Chlorobenzene	51.5	2.5	50	0	103	70	130			
Ethylbenzene	55.6	1.3	50	0	111	68	130			
m,p-Xylene	53.9	1.3	50	0	108	68	131			
o-Xylene	54.1	1.3	50	0	108	70	130			
Xylenes, Total	108	1.3	100	0	108	70	130			
Surr: 1,2-Dichloroethane-d4	49.4		50		99	70	130			
Surr: Toluene-d8	49.2		50		98	70	130			
Surr: 4-Bromofluorobenzene	50.8		50		102	70	130			

### Sample Matrix Spike Duplicate

Type MSD

Test Code: EPA Method SW8260B

File ID: 11101809.D

Batch ID: MS15W1018A

Analysis Date: 10/18/2011 12:38

Sample ID: 11101442-15AMSD

Units: µg/L

Run ID: MSD\_15\_111018A

Prep Date: 10/18/2011 12:38

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	48.8	2.5	50	0	98	64	130	37.5	26.2(21)	R5
Methyl tert-butyl ether (MTBE)	58.7	1.3	50	0	117	47	150	61.04	3.9(40)	
Benzene	51.4	1.3	50	0	103	59	138	54.2	5.4(21)	
Trichloroethene	51.1	2.5	50	0	102	65	144	53.79	5.1(20)	
Toluene	48.7	1.3	50	0	97	68	130	51.36	5.3(20)	
Chlorobenzene	48.8	2.5	50	0	98	70	130	51.46	5.4(20)	
Ethylbenzene	52.4	1.3	50	0	105	68	130	55.64	5.9(20)	
m,p-Xylene	51	1.3	50	0	102	68	131	53.89	5.5(20)	
o-Xylene	51.5	1.3	50	0	103	70	130	54.09	4.9(20)	
Xylenes, Total	103	1.3	100	0	103	70	130	108	5.2(20)	
Surr: 1,2-Dichloroethane-d4	49.9		50		99.8	70	130			
Surr: Toluene-d8	49		50		98	70	130			
Surr: 4-Bromofluorobenzene	50.5		50		101	70	130			



# *Alpha Analytical, Inc.*

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

**Date:**  
*21-Oct-11*

## QC Summary Report

**Work Order:**  
11101442

**Comments:**

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

R5 = MS/MSD RPD exceeded the laboratory control limit. Recovery met acceptance criteria.





# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:  
24-Oct-11

## QC Summary Report

Work Order:  
11101442

n-Butylbenzene	ND	1							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5							
1,2,4-Trichlorobenzene	ND	2							
Naphthalene	ND	10							
1,2,3-Trichlorobenzene	ND	2							
Xylenes, Total	ND	0.5							
Surr: 1,2-Dichloroethane-d4	10.2		10		102	70	130		
Surr: Toluene-d8	10		10		100	70	130		
Surr: 4-Bromofluorobenzene	9.88		10		99	70	130		

### Laboratory Control Spike

Type: LCS Test Code: EPA Method SW8260B

File ID: 11101904.D

Batch ID: MS15W1019A

Analysis Date: 10/19/2011 09:23

Sample ID: LCS MS15W1019A

Units: µg/L

Run ID: MSD\_15\_111019A

Prep Date: 10/19/2011 09:23

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	9.6	1	10		96	80	120			
Methyl tert-butyl ether (MTBE)	11.3	0.5	10		113	65	140			
Benzene	10.2	0.5	10		102	70	130			
Trichloroethene	10.1	1	10		101	65	144			
Toluene	9.64	0.5	10		96	80	120			
Chlorobenzene	9.69	1	10		97	70	130			
Ethylbenzene	10.5	0.5	10		105	80	120			
m,p-Xylene	10.2	0.5	10		102	70	130			
o-Xylene	10.1	0.5	10		101	70	130			
Xylenes, Total	20.3	0.5	20		102	70	130			
Surr: 1,2-Dichloroethane-d4	9.98		10		99.8	70	130			
Surr: Toluene-d8	9.72		10		97	70	130			
Surr: 4-Bromofluorobenzene	10.2		10		102	70	130			

### Sample Matrix Spike

Type: MS Test Code: EPA Method SW8260B

File ID: 11101908.D

Batch ID: MS15W1019A

Analysis Date: 10/19/2011 10:59

Sample ID: 11101307-02AMS

Units: µg/L

Run ID: MSD\_15\_111019A

Prep Date: 10/19/2011 10:59

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	45.1	2.5	50	0	90	64	130			
Methyl tert-butyl ether (MTBE)	55	1.3	50	0.62	109	47	150			
Benzene	47.8	1.3	50	0	96	59	138			
Trichloroethene	46.9	2.5	50	0	94	65	144			
Toluene	44	1.3	50	0	88	68	130			
Chlorobenzene	44.7	2.5	50	0	89	70	130			
Ethylbenzene	47.8	1.3	50	0	96	68	130			
m,p-Xylene	46	1.3	50	0	92	68	131			
o-Xylene	46.7	1.3	50	0	93	70	130			
Xylenes, Total	92.7	1.3	100	0	93	70	130			
Surr: 1,2-Dichloroethane-d4	51.3		50		103	70	130			
Surr: Toluene-d8	47.7		50		95	70	130			
Surr: 4-Bromofluorobenzene	50.1		50		100	70	130			

### Sample Matrix Spike Duplicate

Type: MSD Test Code: EPA Method SW8260B

File ID: 11101909.D

Batch ID: MS15W1019A

Analysis Date: 10/19/2011 11:20

Sample ID: 11101307-02AMSD

Units: µg/L

Run ID: MSD\_15\_111019A

Prep Date: 10/19/2011 11:20

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	43.2	2.5	50	0	86	64	130	45.07	4.3(21)	
Methyl tert-butyl ether (MTBE)	53.4	1.3	50	0.62	106	47	150	54.98	2.9(40)	
Benzene	45.4	1.3	50	0	91	59	138	47.82	5.1(21)	
Trichloroethene	44.3	2.5	50	0	89	65	144	46.86	5.6(20)	
Toluene	42	1.3	50	0	84	68	130	44	4.7(20)	
Chlorobenzene	42.2	2.5	50	0	84	70	130	44.66	5.8(20)	
Ethylbenzene	45.1	1.3	50	0	90	68	130	47.84	5.8(20)	
m,p-Xylene	43.6	1.3	50	0	87	68	131	46.02	5.3(20)	
o-Xylene	44.1	1.3	50	0	88	70	130	46.68	5.8(20)	
Xylenes, Total	87.7	1.3	100	0	88	70	130	92.7	5.6(20)	
Surr: 1,2-Dichloroethane-d4	50.6		50		101	70	130			
Surr: Toluene-d8	48.7		50		97	70	130			
Surr: 4-Bromofluorobenzene	50.5		50		101	70	130			



# *Alpha Analytical, Inc.*

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

**Date:**  
24-Oct-11

## QC Summary Report

**Work Order:**  
11101442

**Comments:**

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Billing Information :

# CHAIN-OF-CUSTODY RECORD

**AMENDED**  
CA

## Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : CHHL11101442

Report Due By : 5:00 PM On : 25-Oct-11

Client:

CH2M Hill  
1000 Wilshire Boulevard  
21st Floor  
Los Angeles, CA 90017

Report Attention Phone Number Email Address

Daniel Jablonski (213) 228-8271 x daniel.jablonski@ch2m.com  
Matthew Mayry (213) 228-8271 x mathew.mayry@ch2m.com

EDD Required : Yes

Sampled by : S. Patel

Cooler Temp Samples Received

2°C 14-Oct-11

Date Printed

21-Oct-11

Client's COC # : none

Job : KMEP Norwalk

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD with Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles		Requested Tests			Sample Remarks	
			Alpha	Sub	TAT	TPHE_W	TPHP_W		VOC_W
CHH11101442-01A	GWR-3	AQ 10/13/11 12:09	8	0	7	TPHE(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	
CHH11101442-02A	GMW-9	AQ 10/13/11 11:26	8	0	7	TPHE(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	
CHH11101442-03A	GMW-24	AQ 10/13/11 14:35	8	0	7	TPHE(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	
CHH11101442-04A	GMW-36	AQ 10/13/11 15:31	8	0	7	TPHE(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	
CHH11101442-05A	NW-SF-2	AQ 10/13/11 08:50	8	0	7	TPHE(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	
CHH11101442-06A	NW-SF-6	AQ 10/13/11 08:08	8	0	7	TPHE(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	
CHH11101442-07A	NW-SF-11	AQ 10/13/11 13:09	8	0	7	TPHE(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	
CHH11101442-08A	GMW-O-12	AQ 10/13/11 10:49	8	0	7	TPHE(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	

Comments: Security seals intact. Frozen Ice. Analysis: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values. Amended 10/21/11 @ 8:00 to add Total Xylenes per email from Dan Jablonski. SC.

Signature

*Daniel Jablonski*

Print Name

Sara Coffee

Company

Alpha Analytical, Inc.

Date/Time

10/21/11 8:03

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

# CHAIN-OF-CUSTODY RECORD

# AMENDED

## Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
TEL: (775) 355-1044 FAX: (775) 355-0406

# CA

WorkOrder : CHHL11101442  
Report Due By : 5:00 PM On : 25-Oct-11

Client: CH2M Hill  
1000 Wilshire Boulevard  
21st Floor  
Los Angeles, CA 90017

Report Attention	Phone Number	Email Address
Daniel Jablonski	(213) 228-8271 x	daniel.jablonski@ch2m.com
Mathew Mayry	(213) 228-8271 x	mathew.mayry@ch2m.com

EDD Required : Yes

Sampled by : S. Patel

Client's COC # : none

Job : KMEP Norwalk

Cooler Temp 2 °C Samples Received 14-Oct-11 Date Printed 21-Oct-11

QC Level : S3 = Final Rpt, MBLK, LCS, MSMSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles Alpha Sub TAT	Requested Tests			Sample Remarks
				TPHE_W	TPHP_W	VOC_W	
CHH11101442-09A	GMW-O-15	AQ 10/13/11 15:08	8 0 7	TPHE(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	
CHH11101442-10A	GMW-O-20	AQ 10/13/11 09:58	8 0 7	TPHE(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	
CHH11101442-11A	EB-6	AQ 10/13/11 10:55	8 0 7	TPHE(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	
CHH11101442-12A	TB-4	AQ 10/13/11 06:40	2 0 7			\$260/OXYS +Vmyl acetate	Reno Trip Blank 9/6/11
CHH11101442-13A	DUP-5	AQ 10/13/11 00:00	8 0 7	TPHE(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	
CHH11101442-14A	GMW-25	AQ 10/13/11 14:50	8 0 7	TPHE(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	
CHH11101442-15A	GMW-O-10	AQ 10/13/11 10:25	8 0 7	TPHE(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	
CHH11101442-16A	GMW-O-23	AQ 10/13/11 09:45	8 0 7	TPHE(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	

Comments: Security seals intact. Frozen Ice. Analysis: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values. Amended 10/21/11 @ 8:00 to add Total Xylenes per email from Dan Jablonski, SC.

Logged in by: Sara Coffee Signature: Sara Coffee Print Name: Sara Coffee Company: Alpha Analytical, Inc. Date/Time: 10/21/11 8:03

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tredlar B-Brass P-Plastic OT-Other

Billing Information :

**CHAIN-OF-CUSTODY RECORD**

**AMENDED**  
**CA**

**Alpha Analytical, Inc.**

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : CHHL11101442

Report Due By : 5:00 PM On : 25-Oct-11

Client: CH2M Hill  
1000 Wilshire Boulevard  
21st Floor  
Los Angeles, CA 90017

Report Attention: Daniel Jablonski (213) 228-8271 x  
Daniel Jablonski (213) 228-8271 x daniel.jablonski@ch2m.com  
Matthew Mayry (213) 228-8271 x mathew.mayry@ch2m.com

EDD Required : Yes

Sampled by : S. Patel

Client's COC # : none = Final Rpt, MBLK, LCS, MS/MSD with Surrogates

Job : KMEP Norwalk

Cooler Temp 2 °C

Samples Received 14-Oct-11

Date Printed 21-Oct-11

Alpha Sample ID	Client Sample ID	Collection Date	No. of Bottles Alpha	Sub TAT	Requested Tests			Sample Remarks	
					TPHE_W	TPHP_W	VOC_W		
CHH11101442-17A	MMW-SF-5	10/13/11 08:00	7	0	7	TPHE(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	1 VOA received broken
CHH11101442-18A	MMW-SF-10	10/13/11 13:10	8	0	7	TPHE(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	
CHH11101442-19A	MMW-SF-12	10/13/11 11:50	8	0	7	TPHE(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	
CHH11101442-20A	MMW-SF-14	10/13/11 08:35	7	0	7	TPHE(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	1 VOA received broken
CHH11101442-21A	EB-7	10/13/11 11:15	8	0	7	TPHE(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	
CHH11101442-22A	DUP-6	10/13/11 00:00	8	0	7	TPHE(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	

Comments: Security seals intact. Frozen Ice. Analysts: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values. Amended 10/21/11 @ 8:00 to add Total Xylenes per email from Dan Jablonski, SC.

Logged in by: Sara Coffee Signature: Sara Coffee Print Name: Sara Coffee Company: Alpha Analytical Inc. Date/Time: 10/21/11 8:03

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

# CHAIN-OF-CUSTODY RECORD

# CA

**Alpha Analytical, Inc.**  
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
 TEL: (775) 355-1044 FAX: (775) 355-0406

**WorkOrder : CHHL11101442**  
**Report Due By : 5:00 PM On : 25-Oct-11**

Client:  
 CH2M Hill  
 1000 Wilshire Boulevard  
 21st Floor  
 Los Angeles, CA 90017

Report Attention: Daniel Jablonski (213) 228-8271 x  
 Daniel Jablonski (213) 228-8271 x  
 Mathew Mayry (213) 228-8271 x  
 Phone Number: 228-8271 x  
 Email Address: daniel.jablonski@ch2m.com  
 mathew.mayry@ch2m.com

EDD Required : Yes

Sampled by : S. Patel

Cooler Temp: 2°C Samples Received: 14-Oct-11 Date Printed: 14-Oct-11

Client's COC # : none

Job : KMEP Norwalk

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests			Sample Remarks
						TPHE <sub>0.10</sub> +Vinyl acetate	TPHP <sub>0.10</sub> acetate	VOC <sub>0.10</sub> +Vinyl acetate	
CHH11101442-01A	GWR-3	10/13/11 12:09	8	0	7	TPHE <sub>0.10</sub> +Vinyl acetate	TPHP <sub>0.10</sub> acetate	TPHE <sub>0.10</sub> +Vinyl acetate	
CHH11101442-02A	GMMW-9	10/13/11 11:26	8	0	7	TPHE <sub>0.10</sub> +Vinyl acetate	TPHP <sub>0.10</sub> acetate	TPHE <sub>0.10</sub> +Vinyl acetate	
CHH11101442-03A	GMMW-24	10/13/11 14:35	8	0	7	TPHE <sub>0.10</sub> +Vinyl acetate	TPHP <sub>0.10</sub> acetate	TPHE <sub>0.10</sub> +Vinyl acetate	
CHH11101442-04A	GMMW-36	10/13/11 15:31	8	0	7	TPHE <sub>0.10</sub> +Vinyl acetate	TPHP <sub>0.10</sub> acetate	TPHE <sub>0.10</sub> +Vinyl acetate	
CHH11101442-05A	MW-SF-2	10/13/11 08:50	8	0	7	TPHE <sub>0.10</sub> +Vinyl acetate	TPHP <sub>0.10</sub> acetate	TPHE <sub>0.10</sub> +Vinyl acetate	
CHH11101442-06A	MW-SF-6	10/13/11 08:08	8	0	7	TPHE <sub>0.10</sub> +Vinyl acetate	TPHP <sub>0.10</sub> acetate	TPHE <sub>0.10</sub> +Vinyl acetate	
CHH11101442-07A	MW-SF-11	10/13/11 13:09	8	0	7	TPHE <sub>0.10</sub> +Vinyl acetate	TPHP <sub>0.10</sub> acetate	TPHE <sub>0.10</sub> +Vinyl acetate	
CHH11101442-08A	GMMW-O-12	10/13/11 10:49	8	0	7	TPHE <sub>0.10</sub> +Vinyl acetate	TPHP <sub>0.10</sub> acetate	TPHE <sub>0.10</sub> +Vinyl acetate	

Comments: Security seals intact. Frozen Ice. Analysts: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values.

Logged in by: *Alexander Leefer* Signature: \_\_\_\_\_ Print Name: *Sara Chee* Company: Alpha Analytical, Inc. Date/Time: 10/14/11 10:54

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type: AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

# CHAIN-OF-CUSTODY RECORD

## Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
 TEL: (775) 355-1044 FAX: (775) 355-0406

# CA

WorkOrder : CHH11101442

Report Due By : 5:00 PM On : 25-Oct-11

Client: CH2M Hill  
 1000 Wilshire Boulevard  
 21st Floor  
 Los Angeles, CA 90017

Report Attention: Daniel Jablonski (213) 228-8271 x  
 Daniel Jablonski (213) 228-8271 x  
 mathew.mayry@ch2m.com  
 Mathew Mayry (213) 228-8271 x

EDD Required : Yes

Sampled by : S. Patel

Client's COC # : none

Job : KMEP Norwalk

2 °C

14-Oct-11

14-Oct-11

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles Alpha	Sub	TAT	Requested Tests	Sample Remarks
CHH11101442-09A	GMW-O-15	AQ 10/13/11 15:08	8	0	7	TPHE(0.10) +Vnyl acetate TPHE(0.10) +Vnyl acetate	
CHH11101442-10A	GMW-O-20	AQ 10/13/11 09:58	8	0	7	TPHE(0.10) +Vnyl acetate TPHE(0.10) +Vnyl acetate	
CHH11101442-11A	EB-6	AQ 10/13/11 10:55	8	0	7	TPHE(0.10) +Vnyl acetate TPHE(0.10) +Vnyl acetate	
CHH11101442-12A	TB-4	AQ 10/13/11 06:40	2	0	7	8260/OXYS	Reno Trip Blank 9/6/11
CHH11101442-13A	DUP-5	AQ 10/13/11 00:00	8	0	7	TPHE(0.10) +Vnyl acetate TPHE(0.10) +Vnyl acetate	
CHH11101442-14A	GMW-25	AQ 10/13/11 14:50	8	0	7	TPHE(0.10) +Vnyl acetate TPHE(0.10) +Vnyl acetate	
CHH11101442-15A	GMW-O-10	AQ 10/13/11 10:25	8	0	7	TPHE(0.10) +Vnyl acetate TPHE(0.10) +Vnyl acetate	
CHH11101442-16A	GMW-O-23	AQ 10/13/11 09:45	8	0	7	TPHE(0.10) +Vnyl acetate TPHE(0.10) +Vnyl acetate	
CHH11101442-17A	MW-SF-5	AQ 10/13/11 08:00	7	0	7	TPHE(0.10) +Vnyl acetate TPHE(0.10) +Vnyl acetate	1 VOA received broken

Comments: Security seals intact. Frozen Ice. Analysis: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values.

Logged in by: *Sharon Smulder* Signature: \_\_\_\_\_ Print Name: Sara Coffee  
 Company: Alpha Analytical, Inc. Date/Time: 10/14/11 10:54

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.  
 The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.  
 Matrix Type: Aq(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

# CHAIN-OF-CUSTODY RECORD

# CA

## Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
 TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : CHHL1101442

Report Due By : 5:00 PM On : 25-Oct-11

Client: CH2M Hill  
 1000 Wilshire Boulevard  
 21st Floor  
 Los Angeles, CA 90017

Report Attention: Daniel Jablonski  
 Phone Number: (213) 228-8271 x  
 Email Address: daniel.jablonski@ch2m.com  
 Matthew Mayry (213) 228-8271 x  
 matthew.mayry@ch2m.com

EDD Required : Yes

Sampled by : S. Patel

Client's COC # : none

Job : KMEP Norwalk

Cooler Temp 2 °C

Samples Received 14-Oct-11

Date Printed 14-Oct-11

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD with Surrogates

Alpha Sample ID	Client Sample ID	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests			Sample Remarks
						TPH_E_W +VinyI acetate	TPHP_W +VinyI acetate	VOC_W +VinyI acetate	
CHH11101442-18A	MMW-SF-10	10/13/11 13:10	8	0	7	TPHEQ.10 +VinyI acetate	TPHEQ.10 +VinyI acetate	TPHEQ.10 +VinyI acetate	
CHH11101442-19A	MMW-SF-12	10/13/11 11:50	8	0	7	TPHEQ.10 +VinyI acetate	TPHEQ.10 +VinyI acetate	TPHEQ.10 +VinyI acetate	
CHH11101442-20A	MMW-SF-14	10/13/11 08:35	7	0	7	TPHEQ.10 +VinyI acetate	TPHEQ.10 +VinyI acetate	TPHEQ.10 +VinyI acetate	1 VOA received broken
CHH11101442-21A	EB-7	10/13/11 11:15	8	0	7	TPHEQ.10 +VinyI acetate	TPHEQ.10 +VinyI acetate	TPHEQ.10 +VinyI acetate	
CHH11101442-22A	DUP-6	10/13/11 00:00	8	0	7	TPHEQ.10 +VinyI acetate	TPHEQ.10 +VinyI acetate	TPHEQ.10 +VinyI acetate	

Comments: Security seals intact. Frozen Ice. Analysis: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values. .

Signature	Print Name	Company	Date/Time
<i>Sara Coffee</i>	Sara Coffee	Alpha Analytical, Inc.	10/14/11 10:54

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.  
 The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.  
 Matrix Type : AQA(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

# BLAINE

TECH SERVICES, INC.

1680 ROGERS AVENUE  
 SAN JOSE, CALIFORNIA 95112-1105  
 FAX (408) 573-7771  
 PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT

LAB

Alpha Analytical COC

of 3

CHAIN OF CUSTODY

CLIENT: Kinder Morgan  
 SITE: DFSP Norwalk  
 15306 Norwalk Blvd, Norwalk

Billing Information:  
 Kinder Morgan  
 1100 Town and Country Rd.  
 Orange CA 95112  
 Kinder Morgan Norwalk  
 Report to:  
 Dan Jablonski  
 CH2MHILL  
 1000 Wilshire Blvd 21st floor  
 Los Angeles, CA 90017

SAMPLE I.D.	DATE	TIME	MATRIX AQ = Water	#	Preservation	Type	CONTAINERS		TPHg, TPHfp (EPA 8015M)	VOC's & Oxygenates (EPA 8260B)	ADDL INFORMATION	STATUS	CONDITION	LAB SAMPLE #	
Gmw-3	10-13-11	1209	AR	8	HCY	UDAS			X	X				CHH11101142	- 01A
Gmw-9		1126							X	X					- 02A
Gmw-24		1435							X	X					- 03A
Gmw-36		1531							X	X					- 04A
hw-sp-2		0850							X	X					- 05A
hw-sp-6		0808							X	X					- 06A
hw-sp-11		1319							X	X					- 07A
Gmw-0-12		1049							X	X					- 08A
Gmw-0-15		1508							X	X					- 09A
Gmw-0-20		0958							X	X					- 10A

RESULTS NEEDED  
 NO LATER THAN

Standard

RELEASED BY: *[Signature]* DATE: 10/13/11 TIME: 1635  
 RECEIVED BY: Nicole (sample Custodian) DATE: 10/13/11 TIME: 1635  
 RELEASED BY: *[Signature]* DATE: 10/14/11 TIME: 1215  
 RECEIVED BY: *[Signature]* DATE: 10/14/11 TIME: 1215

SHIPPED VIA: *[Signature]* TIME SENT: 1215  
 COOLER #

# BLAINE

TECH SERVICES, INC.

1680 ROGERS AVENUE  
 SAN JOSE, CALIFORNIA 95112-1105  
 FAX (408) 573-7771  
 PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT

LAB Alpha Analytical COC 2 of 2

Billing Information:  
 Kinder Morgan  
 1100 Town and Country Rd.  
 Orange CA 95112

Kinder Morgan Norwalk  
 Report to:  
 Dan Jablonski  
 CH2MHILL  
 1000 Wilshire Blvd 21st floor  
 Los Angeles, CA 90017

CHAIN OF CUSTODY

CLIENT Kinder Morgan

SITE DFSP Norwalk

15306 Norwalk Blvd, Norwalk

SAMPLE I.D.	DATE	TIME	MATRIX # of Water	CONTAINERS		TPHg, TPHfp (EPA 8015M)	VOC's & Oxygenates (EPA 8260B)	RESULTS NEEDED	STATUS	CONDITION	LAB SAMPLE #
				Preservation	Type						
EG-6	10/31/11	1955	AQ	8	HCl	VOCs	X	X			11A
TG-4		0645		2			X	X			12A
OP-5				8			X	X			13A
GMW-25		1450					X	X			14A
GMW-20-10		1025					X	X			15A
GMW-6-23		0945					X	X			16A
AW-SF-25		0800					X	X			17A
AW-SF-10		1310					X	X			18A
AW-SF-12		1150					X	X			19A
AW-SF-14		0835					X	X			20A

RELEASED BY: *J.P. Pugh* TIME: 10:35 RECEIVED BY: *M. Cole (aq)* DATE: 10/13/11 TIME: 16:35

RELEASED BY: *M. Cole (sc)* TIME: 17:15 RECEIVED BY: *Anthony Stas* DATE: 10/13/11 TIME: 17:15

RELEASED BY: *Anthony Stas* TIME: 17:15 RECEIVED BY: *Dave Sulejcek* DATE: 10/14/11 TIME: 10:44

SHIPPED VIA: \_\_\_\_\_ TIME SENT: \_\_\_\_\_ COOLER #: \_\_\_\_\_



# BLAINE

TECH SERVICES, INC.

1680 ROGERS AVENUE  
SAN JOSE, CALIFORNIA 95112-1105  
FAX (408) 573-7771  
PHONE (408) 573-0555

## CHAIN OF CUSTODY

CLIENT **Kinder Morgan**  
SITE **DFSP Norwalk**  
**15306 Norwalk Blvd, Norwalk**

## CONDUCT ANALYSIS TO DETECT

SAMPLE I.D.	DATE	TIME	MATRIX AQ = Water	#	CONTAINERS		CONDUCT ANALYSIS TO DETECT		ADDL. INFORMATION	STATUS	CONDITION	LAB SAMPLE #
					Preservation	Type	TPHg, TPHfp (EPA 8015M)	VOC's & Oxygenates (EPA 8260B)				
EG-7	10-3-11	1115	AQ	8	HCl	WOB	X	X				- 21A
DUP-6							X	X				- 23A

LAB Alpha Analytical COC 3 of 3

Billing Information:  
Kinder Morgan  
1100 Town and Country Rd.  
Orange CA 95112

Kinder Morgan Norwalk  
Report to:  
Dan Jablonski  
CH2MHILL  
1000 Wilshire Blvd 21st floor  
Los Angeles, CA 90017

RESULTS NEEDED  
NO LATER THAN **Standard**

RELEASED BY **Pat** TIME 1635 RECEIVED BY **Nicole (SC)** DATE 10/13/11 TIME 1625

RELEASED BY **Nicole (SC)** TIME 1715 RECEIVED BY **Hannah Lee** DATE 10/13/11 TIME 1715

SHIPPED VIA \_\_\_\_\_ TIME SENT \_\_\_\_\_ COOLER # \_\_\_\_\_



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135  
Date Received : 10/15/11

Job: KMEP Norwalk

Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B  
Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B

	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID :	<b>GMW-O-18</b>				
Lab ID :	CHH11101741-01A	TPH-E (Fuel Product)	36 **	1.0 mg/L	10/17/11
Date Sampled	10/14/11 07:50	Surr: Nonane	90	(49-145) %REC	10/17/11
		TPH-P (GRO)	6.0	2.0 mg/L	10/19/11
		Surr: 1,2-Dichloroethane-d4	102	(70-130) %REC	10/19/11
		Surr: Toluene-d8	98	(70-130) %REC	10/19/11
		Surr: 4-Bromofluorobenzene	95	(70-130) %REC	10/19/11
Client ID :	<b>MW-O-1</b>				
Lab ID :	CHH11101741-02A	TPH-E (Fuel Product)	22 **	1.0 mg/L	10/17/11
Date Sampled	10/14/11 11:45	Surr: Nonane	0 S50	(49-145) %REC	10/17/11
		TPH-P (GRO)	15	2.0 mg/L	10/19/11
		Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC	10/19/11
		Surr: Toluene-d8	99	(70-130) %REC	10/19/11
		Surr: 4-Bromofluorobenzene	101	(70-130) %REC	10/19/11
Client ID :	<b>MW-SF-3</b>				
Lab ID :	CHH11101741-03A	TPH-E (Fuel Product)	3.4 **	1.0 mg/L	10/17/11
Date Sampled	10/14/11 10:44	Surr: Nonane	0 S50	(49-145) %REC	10/17/11
		TPH-P (GRO)	9.5	5.0 mg/L	10/19/11
		Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC	10/19/11
		Surr: Toluene-d8	101	(70-130) %REC	10/19/11
		Surr: 4-Bromofluorobenzene	99	(70-130) %REC	10/19/11
Client ID :	<b>MW-SF-13</b>				
Lab ID :	CHH11101741-04A	TPH-E (Fuel Product)	13 **	1.0 mg/L	10/17/11
Date Sampled	10/14/11 09:39	Surr: Nonane	0 S50	(49-145) %REC	10/17/11
		TPH-P (GRO)	42	20 mg/L	10/19/11
		Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC	10/19/11
		Surr: Toluene-d8	101	(70-130) %REC	10/19/11
		Surr: 4-Bromofluorobenzene	100	(70-130) %REC	10/19/11
Client ID :	<b>PZ-5</b>				
Lab ID :	CHH11101741-05A	TPH-E (Fuel Product)	1.5	0.10 mg/L	10/17/11
Date Sampled	10/14/11 08:20	Surr: Nonane	0 S51	(49-145) %REC	10/17/11
		TPH-P (GRO)	4.6	1.0 mg/L	10/20/11
		Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC	10/20/11
		Surr: Toluene-d8	99	(70-130) %REC	10/20/11
		Surr: 4-Bromofluorobenzene	100	(70-130) %REC	10/20/11
Client ID :	<b>EB-8</b>				
Lab ID :	CHH11101741-07A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/17/11
Date Sampled	10/14/11 08:25	Surr: Nonane	109	(49-145) %REC	10/17/11
		TPH-P (GRO)	ND	0.050 mg/L	10/19/11
		Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC	10/19/11
		Surr: Toluene-d8	100	(70-130) %REC	10/19/11
		Surr: 4-Bromofluorobenzene	99	(70-130) %REC	10/19/11



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

<b>Client ID : DUP-7</b>						
Lab ID :	CHH11101741-08A	TPH-E (Fuel Product)	49	**	0.10 mg/L	10/17/11 10/20/11
Date Sampled	10/14/11 00:00	Surr: Nonane	130		(49-145) %REC	10/17/11 10/20/11
		TPH-P (GRO)	7.1		0.50 mg/L	10/20/11 10/20/11
		Surr: 1,2-Dichloroethane-d4	97		(70-130) %REC	10/20/11 10/20/11
		Surr: Toluene-d8	97		(70-130) %REC	10/20/11 10/20/11
		Surr: 4-Bromofluorobenzene	101		(70-130) %REC	10/20/11 10/20/11
<b>Client ID : DUP-8</b>						
Lab ID :	CHH11101741-09A	TPH-E (Fuel Product)	1.5		0.10 mg/L	10/17/11 10/18/11
Date Sampled	10/14/11 00:00	Surr: Nonane	117		(49-145) %REC	10/17/11 10/18/11
		TPH-P (GRO)	4.6		1.0 mg/L	10/20/11 10/20/11
		Surr: 1,2-Dichloroethane-d4	98		(70-130) %REC	10/20/11 10/20/11
		Surr: Toluene-d8	99		(70-130) %REC	10/20/11 10/20/11
		Surr: 4-Bromofluorobenzene	99		(70-130) %REC	10/20/11 10/20/11
<b>Client ID : GMW-10</b>						
Lab ID :	CHH11101741-10A	TPH-E (Fuel Product)	11	**	1.0 mg/L	10/17/11 10/18/11
Date Sampled	10/14/11 07:50	Surr: Nonane	0	S50	(49-145) %REC	10/17/11 10/18/11
		TPH-P (GRO)	3.7		0.50 mg/L	10/20/11 10/20/11
		Surr: 1,2-Dichloroethane-d4	98		(70-130) %REC	10/20/11 10/20/11
		Surr: Toluene-d8	99		(70-130) %REC	10/20/11 10/20/11
		Surr: 4-Bromofluorobenzene	102		(70-130) %REC	10/20/11 10/20/11
<b>Client ID : GMW-22</b>						
Lab ID :	CHH11101741-11A	TPH-E (Fuel Product)	9.0	**	1.0 mg/L	10/17/11 10/18/11
Date Sampled	10/14/11 08:30	Surr: Nonane	71		(49-145) %REC	10/17/11 10/18/11
		TPH-P (GRO)	28		20 mg/L	10/19/11 10/19/11
		Surr: 1,2-Dichloroethane-d4	101		(70-130) %REC	10/19/11 10/19/11
		Surr: Toluene-d8	100		(70-130) %REC	10/19/11 10/19/11
		Surr: 4-Bromofluorobenzene	97		(70-130) %REC	10/19/11 10/19/11
<b>Client ID : GMW-O-21</b>						
Lab ID :	CHH11101741-12A	TPH-E (Fuel Product)	6.4	**	1.0 mg/L	10/17/11 10/18/11
Date Sampled	10/14/11 10:35	Surr: Nonane	138		(49-145) %REC	10/17/11 10/18/11
		TPH-P (GRO)	31		10 mg/L	10/19/11 10/19/11
		Surr: 1,2-Dichloroethane-d4	99		(70-130) %REC	10/19/11 10/19/11
		Surr: Toluene-d8	99		(70-130) %REC	10/19/11 10/19/11
		Surr: 4-Bromofluorobenzene	100		(70-130) %REC	10/19/11 10/19/11
<b>Client ID : MW-SF-15</b>						
Lab ID :	CHH11101741-13A	TPH-E (Fuel Product)	39	**	1.0 mg/L	10/17/11 10/18/11
Date Sampled	10/14/11 09:25	Surr: Nonane	143		(49-145) %REC	10/17/11 10/18/11
		TPH-P (GRO)	35		20 mg/L	10/19/11 10/19/11
		Surr: 1,2-Dichloroethane-d4	99		(70-130) %REC	10/19/11 10/19/11
		Surr: Toluene-d8	100		(70-130) %REC	10/19/11 10/19/11
		Surr: 4-Bromofluorobenzene	97		(70-130) %REC	10/19/11 10/19/11
<b>Client ID : MW-SF-16</b>						
Lab ID :	CHH11101741-14A	TPH-E (Fuel Product)	2.5	**	0.10 mg/L	10/17/11 10/18/11
Date Sampled	10/14/11 10:00	Surr: Nonane	0	S51	(49-145) %REC	10/17/11 10/18/11
		TPH-P (GRO)	7.9		5.0 mg/L	10/20/11 10/20/11
		Surr: 1,2-Dichloroethane-d4	100		(70-130) %REC	10/20/11 10/20/11
		Surr: Toluene-d8	100		(70-130) %REC	10/20/11 10/20/11
		Surr: 4-Bromofluorobenzene	99		(70-130) %REC	10/20/11 10/20/11
<b>Client ID : EB-7</b>						
Lab ID :	CHH11101741-15A	TPH-E (Fuel Product)	ND		0.10 mg/L	10/17/11 10/18/11
Date Sampled	10/14/11 08:40	Surr: Nonane	96		(49-145) %REC	10/17/11 10/18/11
		TPH-P (GRO)	ND		0.050 mg/L	10/20/11 10/20/11
		Surr: 1,2-Dichloroethane-d4	100		(70-130) %REC	10/20/11 10/20/11
		Surr: Toluene-d8	101		(70-130) %REC	10/20/11 10/20/11
		Surr: 4-Bromofluorobenzene	101		(70-130) %REC	10/20/11 10/20/11



# Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Client ID : **DUP-9**

Lab ID :	CHH11101741-16A	TPH-E (Fuel Product)	32	**	0.10 mg/L	10/17/11	10/18/11
Date Sampled	10/14/11 00:00	Surr: Nonane	0	S51	(49-145) %REC	10/17/11	10/18/11
		TPH-P (GRO)	52		20 mg/L	10/20/11	10/20/11
		Surr: 1,2-Dichloroethane-d4	102		(70-130) %REC	10/20/11	10/20/11
		Surr: Toluene-d8	100		(70-130) %REC	10/20/11	10/20/11
		Surr: 4-Bromofluorobenzene	95		(70-130) %REC	10/20/11	10/20/11

\*\*Note: Reported TPH-E (Fuel Product) may contain undifferentiated diesel range hydrocarbons.

Gasoline Range Organics (GRO) C4-C13

S50 = The analysis of the sample required a dilution such that the surrogate concentration was diluted below the laboratory acceptance criteria. The laboratory control sample was acceptable.

S51 = Surrogate recovery could not be determined due to the presence of co-eluting hydrocarbons.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

**10/26/11**

**Report Date**



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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101741-01A  
Client I.D. Number: GMW-O-18

Sampled: 10/14/11 07:50  
Received: 10/15/11  
Extracted: 10/19/11  
Analyzed: 10/19/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	20 µg/L	45 Chlorobenzene	ND	20 µg/L
2 Chloromethane	ND	80 µg/L	46 Ethylbenzene	36	10 µg/L
3 Vinyl chloride	ND	20 µg/L	47 m,p-Xylene	48	10 µg/L
4 Chloroethane	ND	20 µg/L	48 Bromoform	ND	20 µg/L
5 Bromomethane	ND	80 µg/L	49 Xylenes, Total	100	10 µg/L
6 Trichlorofluoromethane	ND	20 µg/L	50 Styrene	ND	20 µg/L
7 Acetone	ND	400 µg/L	51 o-Xylene	52	10 µg/L
8 1,1-Dichloroethene	ND	20 µg/L	52 1,1,2,2-Tetrachloroethane	ND	20 µg/L
9 Tertiary Butyl Alcohol (TBA)	6,600	200 µg/L	53 1,2,3-Trichloropropane	ND	80 µg/L
10 Dichloromethane	ND	80 µg/L	54 Isopropylbenzene	ND	20 µg/L
11 Freon-113	ND	20 µg/L	55 Bromobenzene	ND	20 µg/L
12 Carbon disulfide	ND	100 µg/L	56 n-Propylbenzene	ND	20 µg/L
13 trans-1,2-Dichloroethene	ND	20 µg/L	57 4-Chlorotoluene	ND	20 µg/L
14 Methyl tert-butyl ether (MTBE)	1,600	10 µg/L	58 2-Chlorotoluene	ND	20 µg/L
15 1,1-Dichloroethane	ND	20 µg/L	59 1,3,5-Trimethylbenzene	82	20 µg/L
16 Vinyl acetate	ND	2,000 µg/L	60 tert-Butylbenzene	ND	20 µg/L
17 2-Butanone (MEK)	ND	400 µg/L	61 1,2,4-Trimethylbenzene	120	20 µg/L
18 Di-isopropyl Ether (DIPE)	ND	20 µg/L	62 sec-Butylbenzene	ND	20 µg/L
19 cis-1,2-Dichloroethene	ND	20 µg/L	63 1,3-Dichlorobenzene	ND	20 µg/L
20 Bromochloromethane	ND	20 µg/L	64 1,4-Dichlorobenzene	ND	20 µg/L
21 Chloroform	ND	20 µg/L	65 4-Isopropyltoluene	ND	20 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/L	66 1,2-Dichlorobenzene	ND	20 µg/L
23 2,2-Dichloropropane	ND	20 µg/L	67 n-Butylbenzene	ND	20 µg/L
24 1,2-Dichloroethane	ND	20 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	120 µg/L
25 1,1,1-Trichloroethane	ND	20 µg/L	69 1,2,4-Trichlorobenzene	ND	80 µg/L
26 1,1-Dichloropropene	ND	20 µg/L	70 Naphthalene	ND	80 µg/L
27 Carbon tetrachloride	ND	20 µg/L	71 1,2,3-Trichlorobenzene	ND	80 µg/L
28 Benzene	190	10 µg/L	72 Surr: 1,2-Dichloroethane-d4	102	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	26	20 µg/L	73 Surr: Toluene-d8	98	(70-130) %REC
30 Dibromomethane	ND	20 µg/L	74 Surr: 4-Bromofluorobenzene	95	(70-130) %REC
31 1,2-Dichloropropane	ND	20 µg/L			
32 Trichloroethene	ND	20 µg/L			
33 Bromodichloromethane	ND	20 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	100 µg/L			
35 cis-1,3-Dichloropropene	ND	20 µg/L			
36 trans-1,3-Dichloropropene	ND	20 µg/L			
37 1,1,2-Trichloroethane	ND	20 µg/L			
38 Toluene	13	10 µg/L			
39 1,3-Dichloropropane	ND	20 µg/L			
40 2-Hexanone	ND	200 µg/L			
41 Dibromochloromethane	ND	20 µg/L			
42 1,2-Dibromoethane (EDB)	ND	40 µg/L			
43 Tetrachloroethene	ND	20 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	20 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

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10/26/11

Report Date



# Alpha Analytical, Inc.

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## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101741-02A  
Client I.D. Number: MW-O-1

Sampled: 10/14/11 11:45  
Received: 10/15/11  
Extracted: 10/19/11  
Analyzed: 10/19/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	20 µg/L	45 Chlorobenzene	ND	20 µg/L
2 Chloromethane	ND	80 µg/L	46 Ethylbenzene	580	10 µg/L
3 Vinyl chloride	ND	20 µg/L	47 m,p-Xylene	870	10 µg/L
4 Chloroethane	ND	20 µg/L	48 Bromoform	ND	20 µg/L
5 Bromomethane	ND	80 µg/L	49 Xylenes, Total	1,800	10 µg/L
6 Trichlorofluoromethane	ND	20 µg/L	50 Styrene	ND	20 µg/L
7 Acetone	ND	400 µg/L	51 o-Xylene	940	10 µg/L
8 1,1-Dichloroethene	ND	20 µg/L	52 1,1,2,2-Tetrachloroethane	ND	20 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	200 µg/L	53 1,2,3-Trichloropropane	ND	80 µg/L
10 Dichloromethane	ND	80 µg/L	54 Isopropylbenzene	ND	20 µg/L
11 Freon-113	ND	20 µg/L	55 Bromobenzene	ND	20 µg/L
12 Carbon disulfide	ND	100 µg/L	56 n-Propylbenzene	39	20 µg/L
13 trans-1,2-Dichloroethene	ND	20 µg/L	57 4-Chlorotoluene	ND	20 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	10 µg/L	58 2-Chlorotoluene	ND	20 µg/L
15 1,1-Dichloroethane	ND	20 µg/L	59 1,3,5-Trimethylbenzene	ND	20 µg/L
16 Vinyl acetate	ND	2,000 µg/L	60 tert-Butylbenzene	ND	20 µg/L
17 2-Butanone (MEK)	ND	400 µg/L	61 1,2,4-Trimethylbenzene	650	20 µg/L
18 Di-isopropyl Ether (DIPE)	ND	20 µg/L	62 sec-Butylbenzene	ND	20 µg/L
19 cis-1,2-Dichloroethene	ND	20 µg/L	63 1,3-Dichlorobenzene	ND	20 µg/L
20 Bromochloromethane	ND	20 µg/L	64 1,4-Dichlorobenzene	ND	20 µg/L
21 Chloroform	ND	20 µg/L	65 4-Isopropyltoluene	ND	20 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/L	66 1,2-Dichlorobenzene	ND	20 µg/L
23 2,2-Dichloropropane	ND	20 µg/L	67 n-Butylbenzene	ND	20 µg/L
24 1,2-Dichloroethane	ND	20 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	120 µg/L
25 1,1,1-Trichloroethane	ND	20 µg/L	69 1,2,4-Trichlorobenzene	ND	80 µg/L
26 1,1-Dichloropropene	ND	20 µg/L	70 Naphthalene	150	80 µg/L
27 Carbon tetrachloride	ND	20 µg/L	71 1,2,3-Trichlorobenzene	ND	80 µg/L
28 Benzene	580	10 µg/L	72 Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	26	20 µg/L	73 Surr: Toluene-d8	99	(70-130) %REC
30 Dibromomethane	ND	20 µg/L	74 Surr: 4-Bromofluorobenzene	101	(70-130) %REC
31 1,2-Dichloropropane	ND	20 µg/L			
32 Trichloroethene	ND	20 µg/L			
33 Bromodichloromethane	ND	20 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	100 µg/L			
35 cis-1,3-Dichloropropene	ND	20 µg/L			
36 trans-1,3-Dichloropropene	ND	20 µg/L			
37 1,1,2-Trichloroethane	ND	20 µg/L			
38 Toluene	240	10 µg/L			
39 1,3-Dichloropropane	ND	20 µg/L			
40 2-Hexanone	ND	200 µg/L			
41 Dibromochloromethane	ND	20 µg/L			
42 1,2-Dibromoethane (EDB)	ND	40 µg/L			
43 Tetrachloroethene	ND	20 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	20 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

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10/26/11

Report Date



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101741-03A  
Client I.D. Number: MW-SF-3

Sampled: 10/14/11 10:44  
Received: 10/15/11  
Extracted: 10/19/11  
Analyzed: 10/19/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	50 µg/L	45 Chlorobenzene	ND	50 µg/L
2 Chloromethane	ND	200 µg/L	46 Ethylbenzene	28	25 µg/L
3 Vinyl chloride	ND	50 µg/L	47 m,p-Xylene	38	25 µg/L
4 Chloroethane	ND	50 µg/L	48 Bromoform	ND	50 µg/L
5 Bromomethane	ND	200 µg/L	49 Xylenes, Total	38	25 µg/L
6 Trichlorofluoromethane	ND	50 µg/L	50 Styrene	ND	50 µg/L
7 Acetone	ND	1,000 µg/L	51 o-Xylene	ND	25 µg/L
8 1,1-Dichloroethene	ND	50 µg/L	52 1,1,2,2-Tetrachloroethane	ND	50 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	500 µg/L	53 1,2,3-Trichloropropane	ND	200 µg/L
10 Dichloromethane	ND	200 µg/L	54 Isopropylbenzene	ND	50 µg/L
11 Freon-113	ND	50 µg/L	55 Bromobenzene	ND	50 µg/L
12 Carbon disulfide	ND	250 µg/L	56 n-Propylbenzene	ND	50 µg/L
13 trans-1,2-Dichloroethene	ND	50 µg/L	57 4-Chlorotoluene	ND	50 µg/L
14 Methyl tert-butyl ether (MTBE)	98	25 µg/L	58 2-Chlorotoluene	ND	50 µg/L
15 1,1-Dichloroethane	ND	50 µg/L	59 1,3,5-Trimethylbenzene	ND	50 µg/L
16 Vinyl acetate	ND	5,000 µg/L	60 tert-Butylbenzene	ND	50 µg/L
17 2-Butanone (MEK)	ND	1,000 µg/L	61 1,2,4-Trimethylbenzene	ND	50 µg/L
18 Di-isopropyl Ether (DIPE)	ND	50 µg/L	62 sec-Butylbenzene	ND	50 µg/L
19 cis-1,2-Dichloroethene	ND	50 µg/L	63 1,3-Dichlorobenzene	ND	50 µg/L
20 Bromochloromethane	ND	50 µg/L	64 1,4-Dichlorobenzene	ND	50 µg/L
21 Chloroform	ND	50 µg/L	65 4-Isopropyltoluene	ND	50 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	50 µg/L	66 1,2-Dichlorobenzene	ND	50 µg/L
23 2,2-Dichloropropane	ND	50 µg/L	67 n-Butylbenzene	ND	50 µg/L
24 1,2-Dichloroethane	ND	50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	300 µg/L
25 1,1,1-Trichloroethane	ND	50 µg/L	69 1,2,4-Trichlorobenzene	ND	200 µg/L
26 1,1-Dichloropropene	ND	50 µg/L	70 Naphthalene	ND	200 µg/L
27 Carbon tetrachloride	ND	50 µg/L	71 1,2,3-Trichlorobenzene	ND	200 µg/L
28 Benzene	4,300	25 µg/L	72 Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	50 µg/L	73 Surr: Toluene-d8	101	(70-130) %REC
30 Dibromomethane	ND	50 µg/L	74 Surr: 4-Bromofluorobenzene	99	(70-130) %REC
31 1,2-Dichloropropane	ND	50 µg/L			
32 Trichloroethene	ND	50 µg/L			
33 Bromodichloromethane	ND	50 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	250 µg/L			
35 cis-1,3-Dichloropropene	ND	50 µg/L			
36 trans-1,3-Dichloropropene	ND	50 µg/L			
37 1,1,2-Trichloroethane	ND	50 µg/L			
38 Toluene	ND	25 µg/L			
39 1,3-Dichloropropane	ND	50 µg/L			
40 2-Hexanone	ND	500 µg/L			
41 Dibromochloromethane	ND	50 µg/L			
42 1,2-Dibromoethane (EDB)	ND	100 µg/L			
43 Tetrachloroethene	ND	50 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	50 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

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10/26/11

Report Date



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## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101741-04A  
Client I.D. Number: MW-SF-13

Sampled: 10/14/11 09:39  
Received: 10/15/11  
Extracted: 10/19/11  
Analyzed: 10/19/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	200 µg/L	45 Chlorobenzene	ND	200 µg/L
2 Chloromethane	ND	800 µg/L	46 Ethylbenzene	300	100 µg/L
3 Vinyl chloride	ND	200 µg/L	47 m,p-Xylene	1,500	100 µg/L
4 Chloroethane	ND	200 µg/L	48 Bromoform	ND	200 µg/L
5 Bromomethane	ND	800 µg/L	49 Xylenes, Total	2,200	100 µg/L
6 Trichlorofluoromethane	ND	200 µg/L	50 Styrene	ND	200 µg/L
7 Acetone	4,000	µg/L	51 o-Xylene	710	100 µg/L
8 1,1-Dichloroethene	ND	200 µg/L	52 1,1,2,2-Tetrachloroethane	ND	200 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	2,000 µg/L	53 1,2,3-Trichloropropane	ND	800 µg/L
10 Dichloromethane	ND	800 µg/L	54 Isopropylbenzene	ND	200 µg/L
11 Freon-113	ND	200 µg/L	55 Bromobenzene	ND	200 µg/L
12 Carbon disulfide	ND	1,000 µg/L	56 n-Propylbenzene	ND	200 µg/L
13 trans-1,2-Dichloroethene	ND	200 µg/L	57 4-Chlorotoluene	ND	200 µg/L
14 Methyl tert-butyl ether (MTBE)	580	100 µg/L	58 2-Chlorotoluene	ND	200 µg/L
15 1,1-Dichloroethane	ND	200 µg/L	59 1,3,5-Trimethylbenzene	ND	200 µg/L
16 Vinyl acetate	ND	20,000 µg/L	60 tert-Butylbenzene	ND	200 µg/L
17 2-Butanone (MEK)	ND	4,000 µg/L	61 1,2,4-Trimethylbenzene	240	200 µg/L
18 Di-isopropyl Ether (DIPE)	ND	200 µg/L	62 sec-Butylbenzene	ND	200 µg/L
19 cis-1,2-Dichloroethene	ND	200 µg/L	63 1,3-Dichlorobenzene	ND	200 µg/L
20 Bromochloromethane	ND	200 µg/L	64 1,4-Dichlorobenzene	ND	200 µg/L
21 Chloroform	ND	200 µg/L	65 4-Isopropyltoluene	ND	200 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	200 µg/L	66 1,2-Dichlorobenzene	ND	200 µg/L
23 2,2-Dichloropropane	ND	200 µg/L	67 n-Butylbenzene	ND	200 µg/L
24 1,2-Dichloroethane	ND	200 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	1,200 µg/L
25 1,1,1-Trichloroethane	ND	200 µg/L	69 1,2,4-Trichlorobenzene	ND	800 µg/L
26 1,1-Dichloropropene	ND	200 µg/L	70 Naphthalene	ND	800 µg/L
27 Carbon tetrachloride	ND	200 µg/L	71 1,2,3-Trichlorobenzene	ND	800 µg/L
28 Benzene	12,000	100 µg/L	72 Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	200 µg/L	73 Surr: Toluene-d8	101	(70-130) %REC
30 Dibromomethane	ND	200 µg/L	74 Surr: 4-Bromofluorobenzene	100	(70-130) %REC
31 1,2-Dichloropropane	ND	200 µg/L			
32 Trichloroethene	ND	200 µg/L			
33 Bromodichloromethane	ND	200 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	1,000 µg/L			
35 cis-1,3-Dichloropropene	ND	200 µg/L			
36 trans-1,3-Dichloropropene	ND	200 µg/L			
37 1,1,2-Trichloroethane	ND	200 µg/L			
38 Toluene	5,200	100 µg/L			
39 1,3-Dichloropropane	ND	200 µg/L			
40 2-Hexanone	ND	2,000 µg/L			
41 Dibromochloromethane	ND	200 µg/L			
42 1,2-Dibromoethane (EDB)	ND	400 µg/L			
43 Tetrachloroethene	ND	200 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	200 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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10/26/11

Report Date





# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101741-05A  
Client I.D. Number: PZ-5

Sampled: 10/14/11 08:20  
Received: 10/15/11  
Extracted: 10/20/11  
Analyzed: 10/20/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	10 µg/L	45 Chlorobenzene	ND	10 µg/L
2 Chloromethane	ND	40 µg/L	46 Ethylbenzene	130	5.0 µg/L
3 Vinyl chloride	ND	10 µg/L	47 m,p-Xylene	69	5.0 µg/L
4 Chloroethane	ND	10 µg/L	48 Bromoform	ND	10 µg/L
5 Bromomethane	ND	40 µg/L	49 Xylenes, Total	190	5.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	10 µg/L
7 Acetone	ND	200 µg/L	51 o-Xylene	120	5.0 µg/L
8 1,1-Dichloroethene	ND	10 µg/L	52 1,1,2,2-Tetrachloroethane	ND	10 µg/L
9 Tertiary Butyl Alcohol (TBA)	58,000	2,000 µg/L	53 1,2,3-Trichloropropane	ND	40 µg/L
10 Dichloromethane	ND	40 µg/L	54 Isopropylbenzene	ND	10 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	10 µg/L
12 Carbon disulfide	ND	50 µg/L	56 n-Propylbenzene	ND	10 µg/L
13 trans-1,2-Dichloroethene	ND	10 µg/L	57 4-Chlorotoluene	ND	10 µg/L
14 Methyl tert-butyl ether (MTBE)	170	5.0 µg/L	58 2-Chlorotoluene	ND	10 µg/L
15 1,1-Dichloroethane	ND	10 µg/L	59 1,3,5-Trimethylbenzene	ND	10 µg/L
16 Vinyl acetate	ND	1,000 µg/L	60 tert-Butylbenzene	ND	10 µg/L
17 2-Butanone (MEK)	ND	200 µg/L	61 1,2,4-Trimethylbenzene	38	10 µg/L
18 Di-isopropyl Ether (DIPE)	ND	10 µg/L	62 sec-Butylbenzene	ND	10 µg/L
19 cis-1,2-Dichloroethene	ND	10 µg/L	63 1,3-Dichlorobenzene	ND	10 µg/L
20 Bromochloromethane	ND	10 µg/L	64 1,4-Dichlorobenzene	ND	10 µg/L
21 Chloroform	ND	10 µg/L	65 4-Isopropyltoluene	ND	10 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	10 µg/L	66 1,2-Dichlorobenzene	ND	10 µg/L
23 2,2-Dichloropropane	ND	10 µg/L	67 n-Butylbenzene	ND	10 µg/L
24 1,2-Dichloroethane	ND	10 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	60 µg/L
25 1,1,1-Trichloroethane	ND	10 µg/L	69 1,2,4-Trichlorobenzene	ND	40 µg/L
26 1,1-Dichloropropene	ND	10 µg/L	70 Naphthalene	ND	40 µg/L
27 Carbon tetrachloride	ND	10 µg/L	71 1,2,3-Trichlorobenzene	ND	40 µg/L
28 Benzene	1,500	5.0 µg/L	72 Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	10 µg/L	73 Surr: Toluene-d8	99	(70-130) %REC
30 Dibromomethane	ND	10 µg/L	74 Surr: 4-Bromofluorobenzene	100	(70-130) %REC
31 1,2-Dichloropropane	ND	10 µg/L			
32 Trichloroethene	ND	10 µg/L			
33 Bromodichloromethane	ND	10 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	50 µg/L			
35 cis-1,3-Dichloropropene	ND	10 µg/L			
36 trans-1,3-Dichloropropene	ND	10 µg/L			
37 1,1,2-Trichloroethane	ND	10 µg/L			
38 Toluene	31	5.0 µg/L			
39 1,3-Dichloropropane	ND	10 µg/L			
40 2-Hexanone	ND	100 µg/L			
41 Dibromochloromethane	ND	10 µg/L			
42 1,2-Dibromoethane (EDB)	ND	20 µg/L			
43 Tetrachloroethene	ND	10 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	10 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

\*This analyte was analyzed separately on 10/19/11 in order to achieve lower reporting limits for the other analytes.

ND = Not Detected

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10/26/11

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# Alpha Analytical, Inc.

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## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101741-06A  
Client I.D. Number: TB-5

Sampled: 10/14/11 06:40  
Received: 10/15/11  
Extracted: 10/19/11  
Analyzed: 10/19/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	101	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	101	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	98	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

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10/26/11

Report Date



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101741-07A  
Client I.D. Number: EB-8

Sampled: 10/14/11 08:25  
Received: 10/15/11  
Extracted: 10/19/11  
Analyzed: 10/19/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	100	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	99	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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10/26/11

Report Date

Page 1 of 1



# Alpha Analytical, Inc.

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## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101741-08A  
Client I.D. Number: DUP-7

Sampled: 10/14/11 00:00  
Received: 10/15/11  
Extracted: 10/20/11  
Analyzed: 10/20/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	5.0 µg/L	45 Chlorobenzene	ND	5.0 µg/L
2 Chloromethane	ND	20 µg/L	46 Ethylbenzene	40	2.5 µg/L
3 Vinyl chloride	ND	5.0 µg/L	47 m,p-Xylene	52	2.5 µg/L
4 Chloroethane	ND	5.0 µg/L	48 Bromoform	ND	5.0 µg/L
5 Bromomethane	ND	20 µg/L	49 Xylenes, Total	110	2.5 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	5.0 µg/L
7 Acetone	ND	100 µg/L	51 o-Xylene	56	2.5 µg/L
8 1,1-Dichloroethene	ND	5.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	5.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	6,400	50 µg/L	53 1,2,3-Trichloropropane	ND	20 µg/L
10 Dichloromethane	ND	20 µg/L	54 Isopropylbenzene	ND	5.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	5.0 µg/L
12 Carbon disulfide	ND	25 µg/L	56 n-Propylbenzene	8.6	5.0 µg/L
13 trans-1,2-Dichloroethene	ND	5.0 µg/L	57 4-Chlorotoluene	ND	5.0 µg/L
14 Methyl tert-butyl ether (MTBE)	1,500	2.5 µg/L	58 2-Chlorotoluene	ND	5.0 µg/L
15 1,1-Dichloroethane	ND	5.0 µg/L	59 1,3,5-Trimethylbenzene	83	5.0 µg/L
16 Vinyl acetate	ND	500 µg/L	60 tert-Butylbenzene	ND	5.0 µg/L
17 2-Butanone (MEK)	ND	100 µg/L	61 1,2,4-Trimethylbenzene	120	5.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	5.0 µg/L	62 sec-Butylbenzene	ND	5.0 µg/L
19 cis-1,2-Dichloroethene	ND	5.0 µg/L	63 1,3-Dichlorobenzene	ND	5.0 µg/L
20 Bromochloromethane	ND	5.0 µg/L	64 1,4-Dichlorobenzene	ND	5.0 µg/L
21 Chloroform	ND	5.0 µg/L	65 4-Isopropyltoluene	ND	5.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	5.0 µg/L	66 1,2-Dichlorobenzene	ND	5.0 µg/L
23 2,2-Dichloropropane	ND	5.0 µg/L	67 n-Butylbenzene	ND	5.0 µg/L
24 1,2-Dichloroethane	ND	5.0 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	30 µg/L
25 1,1,1-Trichloroethane	ND	5.0 µg/L	69 1,2,4-Trichlorobenzene	ND	20 µg/L
26 1,1-Dichloropropene	ND	5.0 µg/L	70 Naphthalene	52	20 µg/L
27 Carbon tetrachloride	ND	5.0 µg/L	71 1,2,3-Trichlorobenzene	ND	20 µg/L
28 Benzene	190	2.5 µg/L	72 Surr: 1,2-Dichloroethane-d4	97	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	27	5.0 µg/L	73 Surr: Toluene-d8	97	(70-130) %REC
30 Dibromomethane	ND	5.0 µg/L	74 Surr: 4-Bromofluorobenzene	101	(70-130) %REC
31 1,2-Dichloropropane	ND	5.0 µg/L			
32 Trichloroethene	ND	5.0 µg/L			
33 Bromodichloromethane	ND	5.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	25 µg/L			
35 cis-1,3-Dichloropropene	ND	5.0 µg/L			
36 trans-1,3-Dichloropropene	ND	5.0 µg/L			
37 1,1,2-Trichloroethane	ND	5.0 µg/L			
38 Toluene	13	2.5 µg/L			
39 1,3-Dichloropropane	ND	5.0 µg/L			
40 2-Hexanone	ND	50 µg/L			
41 Dibromochloromethane	ND	5.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	10 µg/L			
43 Tetrachloroethene	ND	5.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	5.0 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

*PS*

10/26/11

Report Date



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101741-09A  
Client I.D. Number: DUP-8

Sampled: 10/14/11 00:00  
Received: 10/15/11  
Extracted: 10/20/11  
Analyzed: 10/20/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	10 µg/L	45 Chlorobenzene	ND	10 µg/L
2 Chloromethane	ND	40 µg/L	46 Ethylbenzene	130	5.0 µg/L
3 Vinyl chloride	ND	10 µg/L	47 m,p-Xylene	77	5.0 µg/L
4 Chloroethane	ND	10 µg/L	48 Bromoform	ND	10 µg/L
5 Bromomethane	ND	40 µg/L	49 Xylenes, Total	200	5.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	10 µg/L
7 Acetone	ND	200 µg/L	51 o-Xylene	120	5.0 µg/L
8 1,1-Dichloroethene	ND	10 µg/L	52 1,1,2,2-Tetrachloroethane	ND	10 µg/L
9 Tertiary Butyl Alcohol (TBA)	65,000	2,000 µg/L	53 1,2,3-Trichloropropane	ND	40 µg/L
10 Dichloromethane	ND	40 µg/L	54 Isopropylbenzene	ND	10 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	10 µg/L
12 Carbon disulfide	ND	50 µg/L	56 n-Propylbenzene	ND	10 µg/L
13 trans-1,2-Dichloroethene	ND	10 µg/L	57 4-Chlorotoluene	ND	10 µg/L
14 Methyl tert-butyl ether (MTBE)	170	5.0 µg/L	58 2-Chlorotoluene	ND	10 µg/L
15 1,1-Dichloroethane	ND	10 µg/L	59 1,3,5-Trimethylbenzene	ND	10 µg/L
16 Vinyl acetate	ND	1,000 µg/L	60 tert-Butylbenzene	ND	10 µg/L
17 2-Butanone (MEK)	ND	200 µg/L	61 1,2,4-Trimethylbenzene	41	10 µg/L
18 Di-isopropyl Ether (DIPE)	ND	10 µg/L	62 sec-Butylbenzene	ND	10 µg/L
19 cis-1,2-Dichloroethene	ND	10 µg/L	63 1,3-Dichlorobenzene	ND	10 µg/L
20 Bromochloromethane	ND	10 µg/L	64 1,4-Dichlorobenzene	ND	10 µg/L
21 Chloroform	ND	10 µg/L	65 4-Isopropyltoluene	ND	10 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	10 µg/L	66 1,2-Dichlorobenzene	ND	10 µg/L
23 2,2-Dichloropropane	ND	10 µg/L	67 n-Butylbenzene	ND	10 µg/L
24 1,2-Dichloroethane	ND	10 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	60 µg/L
25 1,1,1-Trichloroethane	ND	10 µg/L	69 1,2,4-Trichlorobenzene	ND	40 µg/L
26 1,1-Dichloropropene	ND	10 µg/L	70 Naphthalene	ND	40 µg/L
27 Carbon tetrachloride	ND	10 µg/L	71 1,2,3-Trichlorobenzene	ND	40 µg/L
28 Benzene	1,400	5.0 µg/L	72 Surr: 1,2-Dichloroethane-d4	98	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	10 µg/L	73 Surr: Toluene-d8	99	(70-130) %REC
30 Dibromomethane	ND	10 µg/L	74 Surr: 4-Bromofluorobenzene	99	(70-130) %REC
31 1,2-Dichloropropane	ND	10 µg/L			
32 Trichloroethene	ND	10 µg/L			
33 Bromodichloromethane	ND	10 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	50 µg/L			
35 cis-1,3-Dichloropropene	ND	10 µg/L			
36 trans-1,3-Dichloropropene	ND	10 µg/L			
37 1,1,2-Trichloroethane	ND	10 µg/L			
38 Toluene	32	5.0 µg/L			
39 1,3-Dichloropropane	ND	10 µg/L			
40 2-Hexanone	ND	100 µg/L			
41 Dibromochloromethane	ND	10 µg/L			
42 1,2-Dibromoethane (EDB)	ND	20 µg/L			
43 Tetrachloroethene	ND	10 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	10 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

\*This analyte was analyzed separately on 10/19/11 in order to achieve lower reporting limits for the other analytes.

ND = Not Detected

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10/26/11

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## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101741-10A  
Client I.D. Number: GMW-10

Sampled: 10/14/11 07:50  
Received: 10/15/11  
Extracted: 10/20/11  
Analyzed: 10/20/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	5.0 µg/L	45 Chlorobenzene	ND	5.0 µg/L
2 Chloromethane	ND	20 µg/L	46 Ethylbenzene	75	2.5 µg/L
3 Vinyl chloride	ND	5.0 µg/L	47 m,p-Xylene	7.8	2.5 µg/L
4 Chloroethane	ND	5.0 µg/L	48 Bromoform	ND	5.0 µg/L
5 Bromomethane	ND	20 µg/L	49 Xylenes, Total	7.8	2.5 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	5.0 µg/L
7 Acetone	ND	100 µg/L	51 o-Xylene	ND	2.5 µg/L
8 1,1-Dichloroethene	ND	5.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	5.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	590	50 µg/L	53 1,2,3-Trichloropropane	ND	20 µg/L
10 Dichloromethane	ND	20 µg/L	54 Isopropylbenzene	30	5.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	5.0 µg/L
12 Carbon disulfide	ND	25 µg/L	56 n-Propylbenzene	33	5.0 µg/L
13 trans-1,2-Dichloroethene	ND	5.0 µg/L	57 4-Chlorotoluene	ND	5.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	2.5 µg/L	58 2-Chlorotoluene	ND	5.0 µg/L
15 1,1-Dichloroethane	ND	5.0 µg/L	59 1,3,5-Trimethylbenzene	ND	5.0 µg/L
16 Vinyl acetate	ND	500 µg/L	60 tert-Butylbenzene	ND	5.0 µg/L
17 2-Butanone (MEK)	ND	100 µg/L	61 1,2,4-Trimethylbenzene	ND	5.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	5.0 µg/L	62 sec-Butylbenzene	6.5	5.0 µg/L
19 cis-1,2-Dichloroethene	ND	5.0 µg/L	63 1,3-Dichlorobenzene	ND	5.0 µg/L
20 Bromochloromethane	ND	5.0 µg/L	64 1,4-Dichlorobenzene	ND	5.0 µg/L
21 Chloroform	ND	5.0 µg/L	65 4-Isopropyltoluene	ND	5.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	5.0 µg/L	66 1,2-Dichlorobenzene	ND	5.0 µg/L
23 2,2-Dichloropropane	ND	5.0 µg/L	67 n-Butylbenzene	ND	5.0 µg/L
24 1,2-Dichloroethane	ND	5.0 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	30 µg/L
25 1,1,1-Trichloroethane	ND	5.0 µg/L	69 1,2,4-Trichlorobenzene	ND	20 µg/L
26 1,1-Dichloropropene	ND	5.0 µg/L	70 Naphthalene	97	20 µg/L
27 Carbon tetrachloride	ND	5.0 µg/L	71 1,2,3-Trichlorobenzene	ND	20 µg/L
28 Benzene	580	2.5 µg/L	72 Surr: 1,2-Dichloroethane-d4	98	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	5.0 µg/L	73 Surr: Toluene-d8	99	(70-130) %REC
30 Dibromomethane	ND	5.0 µg/L	74 Surr: 4-Bromofluorobenzene	102	(70-130) %REC
31 1,2-Dichloropropane	ND	5.0 µg/L			
32 Trichloroethene	ND	5.0 µg/L			
33 Bromodichloromethane	ND	5.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	25 µg/L			
35 cis-1,3-Dichloropropene	ND	5.0 µg/L			
36 trans-1,3-Dichloropropene	ND	5.0 µg/L			
37 1,1,2-Trichloroethane	ND	5.0 µg/L			
38 Toluene	3.3	2.5 µg/L			
39 1,3-Dichloropropane	ND	5.0 µg/L			
40 2-Hexanone	ND	50 µg/L			
41 Dibromochloromethane	ND	5.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	10 µg/L			
43 Tetrachloroethene	ND	5.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	5.0 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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*[Signature]*

10/26/11

Report Date



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101741-11A  
Client I.D. Number: GMW-22

Sampled: 10/14/11 08:30  
Received: 10/15/11  
Extracted: 10/19/11  
Analyzed: 10/19/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	200 µg/L	45 Chlorobenzene	ND	200 µg/L
2 Chloromethane	ND	800 µg/L	46 Ethylbenzene	470	100 µg/L
3 Vinyl chloride	ND	200 µg/L	47 m,p-Xylene	200	100 µg/L
4 Chloroethane	ND	200 µg/L	48 Bromoform	ND	200 µg/L
5 Bromomethane	ND	800 µg/L	49 Xylenes, Total	200	100 µg/L
6 Trichlorofluoromethane	ND	200 µg/L	50 Styrene	ND	200 µg/L
7 Acetone	ND	4,000 µg/L	51 o-Xylene	ND	100 µg/L
8 1,1-Dichloroethene	ND	200 µg/L	52 1,1,2,2-Tetrachloroethane	ND	200 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	2,000 µg/L	53 1,2,3-Trichloropropane	ND	800 µg/L
10 Dichloromethane	ND	800 µg/L	54 Isopropylbenzene	ND	200 µg/L
11 Freon-113	ND	200 µg/L	55 Bromobenzene	ND	200 µg/L
12 Carbon disulfide	ND	1,000 µg/L	56 n-Propylbenzene	ND	200 µg/L
13 trans-1,2-Dichloroethene	ND	200 µg/L	57 4-Chlorotoluene	ND	200 µg/L
14 Methyl tert-butyl ether (MTBE)	130	100 µg/L	58 2-Chlorotoluene	ND	200 µg/L
15 1,1-Dichloroethane	ND	200 µg/L	59 1,3,5-Trimethylbenzene	ND	200 µg/L
16 Vinyl acetate	ND	20,000 µg/L	60 tert-Butylbenzene	ND	200 µg/L
17 2-Butanone (MEK)	ND	4,000 µg/L	61 1,2,4-Trimethylbenzene	ND	200 µg/L
18 Di-isopropyl Ether (DIPE)	ND	200 µg/L	62 sec-Butylbenzene	ND	200 µg/L
19 cis-1,2-Dichloroethene	ND	200 µg/L	63 1,3-Dichlorobenzene	ND	200 µg/L
20 Bromochloromethane	ND	200 µg/L	64 1,4-Dichlorobenzene	ND	200 µg/L
21 Chloroform	ND	200 µg/L	65 4-Isopropyltoluene	ND	200 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	200 µg/L	66 1,2-Dichlorobenzene	ND	200 µg/L
23 2,2-Dichloropropane	ND	200 µg/L	67 n-Butylbenzene	ND	200 µg/L
24 1,2-Dichloroethane	ND	200 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	1,200 µg/L
25 1,1,1-Trichloroethane	ND	200 µg/L	69 1,2,4-Trichlorobenzene	ND	800 µg/L
26 1,1-Dichloropropene	ND	200 µg/L	70 Naphthalene	ND	800 µg/L
27 Carbon tetrachloride	ND	200 µg/L	71 1,2,3-Trichlorobenzene	ND	800 µg/L
28 Benzene	13,000	100 µg/L	72 Surr: 1,2-Dichloroethane-d4	101	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	200 µg/L	73 Surr: Toluene-d8	100	(70-130) %REC
30 Dibromomethane	ND	200 µg/L	74 Surr: 4-Bromofluorobenzene	97	(70-130) %REC
31 1,2-Dichloropropane	ND	200 µg/L			
32 Trichloroethene	ND	200 µg/L			
33 Bromodichloromethane	ND	200 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	1,000 µg/L			
35 cis-1,3-Dichloropropene	ND	200 µg/L			
36 trans-1,3-Dichloropropene	ND	200 µg/L			
37 1,1,2-Trichloroethane	ND	200 µg/L			
38 Toluene	ND	100 µg/L			
39 1,3-Dichloropropane	ND	200 µg/L			
40 2-Hexanone	ND	2,000 µg/L			
41 Dibromochloromethane	ND	200 µg/L			
42 1,2-Dibromoethane (EDB)	ND	400 µg/L			
43 Tetrachloroethene	ND	200 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	200 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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10/26/11

Report Date



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101741-12A  
Client I.D. Number: GMW-O-21

Sampled: 10/14/11 10:35  
Received: 10/15/11  
Extracted: 10/19/11  
Analyzed: 10/19/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	100 µg/L	45 Chlorobenzene	ND	100 µg/L
2 Chloromethane	ND	400 µg/L	46 Ethylbenzene	290	50 µg/L
3 Vinyl chloride	ND	100 µg/L	47 m,p-Xylene	1,500	50 µg/L
4 Chloroethane	ND	100 µg/L	48 Bromoform	ND	100 µg/L
5 Bromomethane	ND	400 µg/L	49 Xylenes, Total	2,400	50 µg/L
6 Trichlorofluoromethane	ND	100 µg/L	50 Styrene	ND	100 µg/L
7 Acetone	ND	2,000 µg/L	51 o-Xylene	880	50 µg/L
8 1,1-Dichloroethene	ND	100 µg/L	52 1,1,2,2-Tetrachloroethane	ND	100 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	1,000 µg/L	53 1,2,3-Trichloropropane	ND	400 µg/L
10 Dichloromethane	ND	400 µg/L	54 Isopropylbenzene	ND	100 µg/L
11 Freon-113	ND	100 µg/L	55 Bromobenzene	ND	100 µg/L
12 Carbon disulfide	ND	500 µg/L	56 n-Propylbenzene	ND	100 µg/L
13 trans-1,2-Dichloroethene	ND	100 µg/L	57 4-Chlorotoluene	ND	100 µg/L
14 Methyl tert-butyl ether (MTBE)	51	50 µg/L	58 2-Chlorotoluene	ND	100 µg/L
15 1,1-Dichloroethane	ND	100 µg/L	59 1,3,5-Trimethylbenzene	ND	100 µg/L
16 Vinyl acetate	ND	10,000 µg/L	60 tert-Butylbenzene	ND	100 µg/L
17 2-Butanone (MEK)	ND	2,000 µg/L	61 1,2,4-Trimethylbenzene	240	100 µg/L
18 Di-isopropyl Ether (DIPE)	ND	100 µg/L	62 sec-Butylbenzene	ND	100 µg/L
19 cis-1,2-Dichloroethene	ND	100 µg/L	63 1,3-Dichlorobenzene	ND	100 µg/L
20 Bromochloromethane	ND	100 µg/L	64 1,4-Dichlorobenzene	ND	100 µg/L
21 Chloroform	ND	100 µg/L	65 4-Isopropyltoluene	ND	100 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	100 µg/L	66 1,2-Dichlorobenzene	ND	100 µg/L
23 2,2-Dichloropropane	ND	100 µg/L	67 n-Butylbenzene	ND	100 µg/L
24 1,2-Dichloroethane	ND	100 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	600 µg/L
25 1,1,1-Trichloroethane	ND	100 µg/L	69 1,2,4-Trichlorobenzene	ND	400 µg/L
26 1,1-Dichloropropene	ND	100 µg/L	70 Naphthalene	ND	400 µg/L
27 Carbon tetrachloride	ND	100 µg/L	71 1,2,3-Trichlorobenzene	ND	400 µg/L
28 Benzene	8,300	50 µg/L	72 Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	100 µg/L	73 Surr: Toluene-d8	99	(70-130) %REC
30 Dibromomethane	ND	100 µg/L	74 Surr: 4-Bromofluorobenzene	100	(70-130) %REC
31 1,2-Dichloropropane	ND	100 µg/L			
32 Trichloroethene	ND	100 µg/L			
33 Bromodichloromethane	ND	100 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	500 µg/L			
35 cis-1,3-Dichloropropene	ND	100 µg/L			
36 trans-1,3-Dichloropropene	ND	100 µg/L			
37 1,1,2-Trichloroethane	ND	100 µg/L			
38 Toluene	4,100	50 µg/L			
39 1,3-Dichloropropane	ND	100 µg/L			
40 2-Hexanone	ND	1,000 µg/L			
41 Dibromochloromethane	ND	100 µg/L			
42 1,2-Dibromoethane (EDB)	ND	200 µg/L			
43 Tetrachloroethene	ND	100 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	100 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

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10/26/11

Report Date





# Alpha Analytical, Inc.

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## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101741-13A  
Client I.D. Number: MW-SF-15

Sampled: 10/14/11 09:25  
Received: 10/15/11  
Extracted: 10/19/11  
Analyzed: 10/19/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	200 µg/L	45 Chlorobenzene	ND	200 µg/L
2 Chloromethane	ND	800 µg/L	46 Ethylbenzene	210	100 µg/L
3 Vinyl chloride	ND	200 µg/L	47 m,p-Xylene	1,300	100 µg/L
4 Chloroethane	ND	200 µg/L	48 Bromoform	ND	200 µg/L
5 Bromomethane	ND	800 µg/L	49 Xylenes, Total	1,700	100 µg/L
6 Trichlorofluoromethane	ND	200 µg/L	50 Styrene	ND	200 µg/L
7 Acetone	ND	4,000 µg/L	51 o-Xylene	460	100 µg/L
8 1,1-Dichloroethene	ND	200 µg/L	52 1,1,2,2-Tetrachloroethane	ND	200 µg/L
9 Tertiary Butyl Alcohol (TBA)	2,300	2,000 µg/L	53 1,2,3-Trichloropropane	ND	800 µg/L
10 Dichloromethane	ND	800 µg/L	54 Isopropylbenzene	ND	200 µg/L
11 Freon-113	ND	200 µg/L	55 Bromobenzene	ND	200 µg/L
12 Carbon disulfide	ND	1,000 µg/L	56 n-Propylbenzene	ND	200 µg/L
13 trans-1,2-Dichloroethene	ND	200 µg/L	57 4-Chlorotoluene	ND	200 µg/L
14 Methyl tert-butyl ether (MTBE)	780	100 µg/L	58 2-Chlorotoluene	ND	200 µg/L
15 1,1-Dichloroethane	ND	200 µg/L	59 1,3,5-Trimethylbenzene	ND	200 µg/L
16 Vinyl acetate	ND	20,000 µg/L	60 tert-Butylbenzene	ND	200 µg/L
17 2-Butanone (MEK)	ND	4,000 µg/L	61 1,2,4-Trimethylbenzene	490	200 µg/L
18 Di-isopropyl Ether (DIPE)	ND	200 µg/L	62 sec-Butylbenzene	ND	200 µg/L
19 cis-1,2-Dichloroethene	ND	200 µg/L	63 1,3-Dichlorobenzene	ND	200 µg/L
20 Bromochloromethane	ND	200 µg/L	64 1,4-Dichlorobenzene	ND	200 µg/L
21 Chloroform	ND	200 µg/L	65 4-Isopropyltoluene	ND	200 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	200 µg/L	66 1,2-Dichlorobenzene	ND	200 µg/L
23 2,2-Dichloropropane	ND	200 µg/L	67 n-Butylbenzene	ND	200 µg/L
24 1,2-Dichloroethane	ND	200 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	1,200 µg/L
25 1,1,1-Trichloroethane	ND	200 µg/L	69 1,2,4-Trichlorobenzene	ND	800 µg/L
26 1,1-Dichloropropene	ND	200 µg/L	70 Naphthalene	ND	800 µg/L
27 Carbon tetrachloride	ND	200 µg/L	71 1,2,3-Trichlorobenzene	ND	800 µg/L
28 Benzene	11,000	100 µg/L	72 Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	200 µg/L	73 Surr: Toluene-d8	100	(70-130) %REC
30 Dibromomethane	ND	200 µg/L	74 Surr: 4-Bromofluorobenzene	97	(70-130) %REC
31 1,2-Dichloropropane	ND	200 µg/L			
32 Trichloroethene	ND	200 µg/L			
33 Bromodichloromethane	ND	200 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	1,000 µg/L			
35 cis-1,3-Dichloropropene	ND	200 µg/L			
36 trans-1,3-Dichloropropene	ND	200 µg/L			
37 1,1,2-Trichloroethane	ND	200 µg/L			
38 Toluene	860	100 µg/L			
39 1,3-Dichloropropane	ND	200 µg/L			
40 2-Hexanone	ND	2,000 µg/L			
41 Dibromochloromethane	ND	200 µg/L			
42 1,2-Dibromoethane (EDB)	ND	400 µg/L			
43 Tetrachloroethene	ND	200 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	200 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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*JSJ*

10/26/11

Report Date



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101741-14A  
Client I.D. Number: MW-SF-16

Sampled: 10/14/11 10:00  
Received: 10/15/11  
Extracted: 10/20/11  
Analyzed: 10/20/11

### Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	50 µg/L	45 Chlorobenzene	ND	50 µg/L
2 Chloromethane	ND	200 µg/L	46 Ethylbenzene	140	25 µg/L
3 Vinyl chloride	ND	50 µg/L	47 m,p-Xylene	350	25 µg/L
4 Chloroethane	ND	50 µg/L	48 Bromoform	ND	50 µg/L
5 Bromomethane	ND	200 µg/L	49 Xylenes, Total	380	25 µg/L
6 Trichlorofluoromethane	ND	50 µg/L	50 Styrene	ND	50 µg/L
7 Acetone	ND	1,000 µg/L	51 o-Xylene	35	25 µg/L
8 1,1-Dichloroethene	ND	50 µg/L	52 1,1,2,2-Tetrachloroethane	ND	50 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	500 µg/L	53 1,2,3-Trichloropropane	ND	200 µg/L
10 Dichloromethane	ND	200 µg/L	54 Isopropylbenzene	ND	50 µg/L
11 Freon-113	ND	50 µg/L	55 Bromobenzene	ND	50 µg/L
12 Carbon disulfide	ND	250 µg/L	56 n-Propylbenzene	ND	50 µg/L
13 trans-1,2-Dichloroethene	ND	50 µg/L	57 4-Chlorotoluene	ND	50 µg/L
14 Methyl tert-butyl ether (MTBE)	200	25 µg/L	58 2-Chlorotoluene	ND	50 µg/L
15 1,1-Dichloroethane	ND	50 µg/L	59 1,3,5-Trimethylbenzene	ND	50 µg/L
16 Vinyl acetate	ND	5,000 µg/L	60 tert-Butylbenzene	ND	50 µg/L
17 2-Butanone (MEK)	ND	1,000 µg/L	61 1,2,4-Trimethylbenzene	75	50 µg/L
18 Di-isopropyl Ether (DIPE)	ND	50 µg/L	62 sec-Butylbenzene	ND	50 µg/L
19 cis-1,2-Dichloroethene	ND	50 µg/L	63 1,3-Dichlorobenzene	ND	50 µg/L
20 Bromochloromethane	ND	50 µg/L	64 1,4-Dichlorobenzene	ND	50 µg/L
21 Chloroform	ND	50 µg/L	65 4-Isopropyltoluene	ND	50 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	50 µg/L	66 1,2-Dichlorobenzene	ND	50 µg/L
23 2,2-Dichloropropane	ND	50 µg/L	67 n-Butylbenzene	ND	50 µg/L
24 1,2-Dichloroethane	ND	50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	300 µg/L
25 1,1,1-Trichloroethane	ND	50 µg/L	69 1,2,4-Trichlorobenzene	ND	200 µg/L
26 1,1-Dichloropropene	ND	50 µg/L	70 Naphthalene	ND	200 µg/L
27 Carbon tetrachloride	ND	50 µg/L	71 1,2,3-Trichlorobenzene	ND	200 µg/L
28 Benzene	2,900	25 µg/L	72 Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	50 µg/L	73 Surr: Toluene-d8	100	(70-130) %REC
30 Dibromomethane	ND	50 µg/L	74 Surr: 4-Bromofluorobenzene	99	(70-130) %REC
31 1,2-Dichloropropane	ND	50 µg/L			
32 Trichloroethene	ND	50 µg/L			
33 Bromodichloromethane	ND	50 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	250 µg/L			
35 cis-1,3-Dichloropropene	ND	50 µg/L			
36 trans-1,3-Dichloropropene	ND	50 µg/L			
37 1,1,2-Trichloroethane	ND	50 µg/L			
38 Toluene	130	25 µg/L			
39 1,3-Dichloropropane	ND	50 µg/L			
40 2-Hexanone	ND	500 µg/L			
41 Dibromochloromethane	ND	50 µg/L			
42 1,2-Dibromoethane (EDB)	ND	100 µg/L			
43 Tetrachloroethene	ND	50 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	50 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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10/26/11

Report Date



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101741-15A  
Client I.D. Number: EB-7

Sampled: 10/14/11 08:40  
Received: 10/15/11  
Extracted: 10/20/11  
Analyzed: 10/20/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Xylenes, Total	ND	0.50 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 Styrene	ND	1.0 µg/L
7 Acetone	ND	10 µg/L	51 o-Xylene	ND	0.50 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 1,2,3-Trichloropropane	ND	2.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Isopropylbenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 Bromobenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 n-Propylbenzene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 4-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 2-Chlorotoluene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 1,3,5-Trimethylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 tert-Butylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 1,2,4-Trimethylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 sec-Butylbenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,3-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 1,4-Dichlorobenzene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 4-Isopropyltoluene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 1,2-Dichlorobenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 n-Butylbenzene	ND	1.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 1,2,4-Trichlorobenzene	ND	2.0 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 Naphthalene	ND	10 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 1,2,3-Trichlorobenzene	ND	2.0 µg/L
28 Benzene	ND	0.50 µg/L	72 Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: Toluene-d8	101	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L	74 Surr: 4-Bromofluorobenzene	101	(70-130) %REC
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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*RSJ*  
10/26/11

Report Date

Page 1 of 1



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

CH2M Hill  
1000 Wilshire Boulevard  
Los Angeles, CA 90017  
Job: KMEP Norwalk

Attn: Daniel Jablonski  
Phone: (213) 228-8271  
Fax: (714) 424-2135

Alpha Analytical Number: CHH11101741-16A  
Client I.D. Number: DUP-9

Sampled: 10/14/11 00:00  
Received: 10/15/11  
Extracted: 10/20/11  
Analyzed: 10/20/11

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	200 µg/L	45 Chlorobenzene	ND	200 µg/L
2 Chloromethane	ND	800 µg/L	46 Ethylbenzene	380	100 µg/L
3 Vinyl chloride	ND	200 µg/L	47 m,p-Xylene	3,200	100 µg/L
4 Chloroethane	ND	200 µg/L	48 Bromoform	ND	200 µg/L
5 Bromomethane	ND	800 µg/L	49 Xylenes, Total	4,500	100 µg/L
6 Trichlorofluoromethane	ND	200 µg/L	50 Styrene	ND	200 µg/L
7 Acetone	ND	4,000 µg/L	51 o-Xylene	1,300	100 µg/L
8 1,1-Dichloroethene	ND	200 µg/L	52 1,1,2,2-Tetrachloroethane	ND	200 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	2,000 µg/L	53 1,2,3-Trichloropropane	ND	800 µg/L
10 Dichloromethane	ND	800 µg/L	54 Isopropylbenzene	ND	200 µg/L
11 Freon-113	ND	200 µg/L	55 Bromobenzene	ND	200 µg/L
12 Carbon disulfide	ND	1,000 µg/L	56 n-Propylbenzene	ND	200 µg/L
13 trans-1,2-Dichloroethene	ND	200 µg/L	57 4-Chlorotoluene	ND	200 µg/L
14 Methyl tert-butyl ether (MTBE)	840	100 µg/L	58 2-Chlorotoluene	ND	200 µg/L
15 1,1-Dichloroethane	ND	200 µg/L	59 1,3,5-Trimethylbenzene	360	200 µg/L
16 Vinyl acetate	ND	20,000 µg/L	60 tert-Butylbenzene	ND	200 µg/L
17 2-Butanone (MEK)	ND	4,000 µg/L	61 1,2,4-Trimethylbenzene	1,200	200 µg/L
18 Di-isopropyl Ether (DIPE)	ND	200 µg/L	62 sec-Butylbenzene	ND	200 µg/L
19 cis-1,2-Dichloroethene	ND	200 µg/L	63 1,3-Dichlorobenzene	ND	200 µg/L
20 Bromochloromethane	ND	200 µg/L	64 1,4-Dichlorobenzene	ND	200 µg/L
21 Chloroform	ND	200 µg/L	65 4-Isopropyltoluene	ND	200 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	200 µg/L	66 1,2-Dichlorobenzene	ND	200 µg/L
23 2,2-Dichloropropane	ND	200 µg/L	67 n-Butylbenzene	ND	200 µg/L
24 1,2-Dichloroethane	ND	200 µg/L	68 1,2-Dibromo-3-chloropropane (DBCP)	ND	1,200 µg/L
25 1,1,1-Trichloroethane	ND	200 µg/L	69 1,2,4-Trichlorobenzene	ND	800 µg/L
26 1,1-Dichloropropene	ND	200 µg/L	70 Naphthalene	ND	800 µg/L
27 Carbon tetrachloride	ND	200 µg/L	71 1,2,3-Trichlorobenzene	ND	800 µg/L
28 Benzene	10,000	100 µg/L	72 Surr: 1,2-Dichloroethane-d4	102	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	200 µg/L	73 Surr: Toluene-d8	100	(70-130) %REC
30 Dibromomethane	ND	200 µg/L	74 Surr: 4-Bromofluorobenzene	95	(70-130) %REC
31 1,2-Dichloropropane	ND	200 µg/L			
32 Trichloroethene	ND	200 µg/L			
33 Bromodichloromethane	ND	200 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	1,000 µg/L			
35 cis-1,3-Dichloropropene	ND	200 µg/L			
36 trans-1,3-Dichloropropene	ND	200 µg/L			
37 1,1,2-Trichloroethane	ND	200 µg/L			
38 Toluene	2,300	100 µg/L			
39 1,3-Dichloropropane	ND	200 µg/L			
40 2-Hexanone	ND	2,000 µg/L			
41 Dibromochloromethane	ND	200 µg/L			
42 1,2-Dibromoethane (EDB)	ND	400 µg/L			
43 Tetrachloroethene	ND	200 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	200 µg/L			

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

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10/26/11

Report Date



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## VOC Sample Preservation Report

**Work Order:** CHH11101741

**Job:** KMEP Norwalk

Alpha's Sample ID	Client's Sample ID	Matrix	pH
11101741-01A	GMW-O-18	Aqueous	2
11101741-02A	MW-O-1	Aqueous	5
11101741-03A	MW-SF-3	Aqueous	5
11101741-04A	MW-SF-13	Aqueous	5
11101741-05A	PZ-5	Aqueous	5
11101741-06A	TB-5	Aqueous	2
11101741-07A	EB-8	Aqueous	2
11101741-08A	DUP-7	Aqueous	3
11101741-09A	DUP-8	Aqueous	5
11101741-10A	GMW-10	Aqueous	5
11101741-11A	GMW-22	Aqueous	5
11101741-12A	GMW-O-21	Aqueous	5
11101741-13A	MW-SF-15	Aqueous	5
11101741-14A	MW-SF-16	Aqueous	5
11101741-15A	EB-7	Aqueous	2
11101741-16A	DUP-9	Aqueous	5

**10/26/11**  
**Report Date**



# Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:  
26-Oct-11

## QC Summary Report

Work Order:  
11101741

### Method Blank

Type **MBLK** Test Code: **EPA Method SW8015B/C Ext**

File ID: **7A10181106.D**

Batch ID: **27498**

Analysis Date: **10/18/2011 11:56**

Sample ID: **MBLK-27498**

Units : **mg/L**

Run ID: **FID\_7\_111017B**

Prep Date: **10/17/2011 12:13**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (Fuel Product)	ND	0.1								
Surr: Nonane	0.148		0.15		99	49	145			

### Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015B/C Ext**

File ID: **7A10181107.D**

Batch ID: **27498**

Analysis Date: **10/18/2011 12:23**

Sample ID: **LCS-27498**

Units : **mg/L**

Run ID: **FID\_7\_111017B**

Prep Date: **10/17/2011 12:13**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.1	0.05	2.5		84	70	130			
Surr: Nonane	0.142		0.15		95	49	145			

### Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8015B/C Ext**

File ID: **7A10181109.D**

Batch ID: **27498**

Analysis Date: **10/18/2011 13:16**

Sample ID: **11101307-01AMS**

Units : **mg/L**

Run ID: **FID\_7\_111017B**

Prep Date: **10/17/2011 12:13**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.99	0.05	2.5		0 119	53	150			
Surr: Nonane	0.143		0.15		95	49	145			

### Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8015B/C Ext**

File ID: **7A10181110.D**

Batch ID: **27498**

Analysis Date: **10/18/2011 13:43**

Sample ID: **11101307-01AMSD**

Units : **mg/L**

Run ID: **FID\_7\_111017B**

Prep Date: **10/17/2011 12:13**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.53	0.05	2.5		0 101	53	150	2.987	16.4(47)	
Surr: Nonane	0.152		0.15		101	49	145			

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



# Alpha Analytical, Inc.

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Date:  
26-Oct-11

## QC Summary Report

Work Order:  
11101741

### Method Blank

Type **MBLK** Test Code: **EPA Method SW8015B/C**

File ID: **11101907.D**

Batch ID: **MS15W1019B**

Analysis Date: **10/19/2011 10:37**

Sample ID: **MBLK MS15W1019B**

Units : **mg/L**

Run ID: **MSD\_15\_111019A**

Prep Date: **10/19/2011 10:37**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	0.05								
Surr: 1,2-Dichloroethane-d4	0.0102		0.01		102	70	130			
Surr: Toluene-d8	0.01		0.01		100	70	130			
Surr: 4-Bromofluorobenzene	0.00988		0.01		99	70	130			

### Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015B/C**

File ID: **11101903.D**

Batch ID: **MS15W1019B**

Analysis Date: **10/19/2011 09:01**

Sample ID: **GLCS MS15W1019B**

Units : **mg/L**

Run ID: **MSD\_15\_111019A**

Prep Date: **10/19/2011 09:01**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.402	0.05	0.4		100	70	130			
Surr: 1,2-Dichloroethane-d4	0.00947		0.01		95	70	130			
Surr: Toluene-d8	0.00993		0.01		99	70	130			
Surr: 4-Bromofluorobenzene	0.0101		0.01		101	70	130			

### Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8015B/C**

File ID: **11101910.D**

Batch ID: **MS15W1019B**

Analysis Date: **10/19/2011 11:42**

Sample ID: **11101307-02AGS**

Units : **mg/L**

Run ID: **MSD\_15\_111019A**

Prep Date: **10/19/2011 11:42**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.92	0.25	2	0	96	51	144			
Surr: 1,2-Dichloroethane-d4	0.05		0.05		100	70	130			
Surr: Toluene-d8	0.0494		0.05		99	70	130			
Surr: 4-Bromofluorobenzene	0.0516		0.05		103	70	130			

### Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8015B/C**

File ID: **11101911.D**

Batch ID: **MS15W1019B**

Analysis Date: **10/19/2011 12:04**

Sample ID: **11101307-02AGSD**

Units : **mg/L**

Run ID: **MSD\_15\_111019A**

Prep Date: **10/19/2011 12:04**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2.19	0.25	2	0	109	51	144	1.92	13.1(29)	
Surr: 1,2-Dichloroethane-d4	0.05		0.05		100	70	130			
Surr: Toluene-d8	0.05		0.05		100	70	130			
Surr: 4-Bromofluorobenzene	0.0503		0.05		101	70	130			

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.







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**Date:**

26-Oct-11

## QC Summary Report

**Work Order:**

11101741

n-Butylbenzene	ND	1				
1,2-Dibromo-3-chloropropane (DBCP)	ND	5				
1,2,4-Trichlorobenzene	ND	2				
Naphthalene	ND	10				
1,2,3-Trichlorobenzene	ND	2				
Xylenes, Total	ND	0.5				
Surr: 1,2-Dichloroethane-d4	10.2		10	102	70	130
Surr: Toluene-d8	10		10	100	70	130
Surr: 4-Bromofluorobenzene	9.88		10	99	70	130



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Date:  
26-Oct-11

## QC Summary Report

Work Order:  
11101741

### Laboratory Control Spike

Type: LCS

Test Code: EPA Method SW8260B

File ID: 11101904.D

Batch ID: MS15W1019A

Analysis Date: 10/19/2011 09:23

Sample ID: LCS MS15W1019A

Units: µg/L

Run ID: MSD\_15\_111019A

Prep Date: 10/19/2011 09:23

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	8.4	1	10		84	37	137			
Chloromethane	11	2	10		110	43	140			
Vinyl chloride	10.4	1	10		104	80	120			
Chloroethane	11.7	1	10		117	43	141			
Bromomethane	7.54	2	10		75	11	160			
Trichlorofluoromethane	12.3	1	10		123	40	148			
Acetone	290	10	200		145	36	171			
1,1-Dichloroethene	9.6	1	10		96	80	120			
Tertiary Butyl Alcohol (TBA)	115	10	100		115	44	156			
Dichloromethane	9.49	2	10		95	69	130			
Freon-113	10.8	1	10		108	70	137			
trans-1,2-Dichloroethene	9.83	1	10		98	70	130			
Methyl tert-butyl ether (MTBE)	11.3	0.5	10		113	65	140			
1,1-Dichloroethane	10.3	1	10		103	70	130			
2-Butanone (MEK)	277	10	200		139	23	182			
Di-isopropyl Ether (DIPE)	10.7	1	10		107	70	130			
cis-1,2-Dichloroethene	9.94	1	10		99	70	130			
Bromochloromethane	10.6	1	10		106	70	132			
Chloroform	10.6	1	10		106	80	120			
Ethyl Tertiary Butyl Ether (ETBE)	10.4	1	10		104	65	139			
2,2-Dichloropropane	10.3	1	10		103	68	154			
1,2-Dichloroethane	11.7	1	10		117	70	132			
1,1,1-Trichloroethane	10.6	1	10		106	70	135			
1,1-Dichloropropene	10.9	1	10		109	70	130			
Carbon tetrachloride	10.3	1	10		103	61	148			
Benzene	10.2	0.5	10		102	70	130			
Tertiary Amyl Methyl Ether (TAME)	11.7	1	10		117	68	134			
Dibromomethane	11.1	1	10		111	70	130			
1,2-Dichloropropane	10.1	1	10		101	80	120			
Trichloroethene	10.1	1	10		101	65	144			
Bromodichloromethane	10.7	1	10		107	50	157			
4-Methyl-2-pentanone (MIBK)	32	2.5	25		128	20	182			
cis-1,3-Dichloropropene	10.4	1	10		104	70	131			
trans-1,3-Dichloropropene	9.99	1	10		99.9	70	136			
1,1,2-Trichloroethane	11	1	10		110	70	130			
Toluene	9.64	0.5	10		96	80	120			
1,3-Dichloropropane	9.98	1	10		99.8	70	130			
2-Hexanone	108	5	100		108	20	182			
Dibromochloromethane	8.86	1	10		89	42	155			
1,2-Dibromoethane (EDB)	20.4	2	20		102	70	130			
Tetrachloroethene	9.64	1	10		96	70	130			
1,1,1,2-Tetrachloroethane	9.97	1	10		99.7	70	130			
Chlorobenzene	9.69	1	10		97	70	130			
Ethylbenzene	10.5	0.5	10		105	80	120			
m,p-Xylene	10.2	0.5	10		102	70	130			
Bromoform	9.01	1	10		90	68	143			
Styrene	8.78	1	10		88	64	153			
o-Xylene	10.1	0.5	10		101	70	130			
1,1,2,2-Tetrachloroethane	9.92	1	10		99	70	130			
1,2,3-Trichloropropane	21.5	2	20		107	70	130			
Isopropylbenzene	9.05	1	10		91	68	138			
Bromobenzene	9.59	1	10		96	70	130			
n-Propylbenzene	9.44	1	10		94	70	133			
4-Chlorotoluene	9.05	1	10		91	70	130			
2-Chlorotoluene	8.96	1	10		90	70	130			
1,3,5-Trimethylbenzene	9.71	1	10		97	70	134			
tert-Butylbenzene	9.3	1	10		93	55	147			
1,2,4-Trimethylbenzene	9.77	1	10		98	70	134			
sec-Butylbenzene	9.2	1	10		92	70	135			
1,3-Dichlorobenzene	9.85	1	10		99	70	130			
1,4-Dichlorobenzene	9.1	1	10		91	70	130			
4-Isopropyltoluene	9.6	1	10		96	70	132			
1,2-Dichlorobenzene	9.2	1	10		92	70	130			
n-Butylbenzene	9.78	1	10		98	70	134			
1,2-Dibromo-3-chloropropane (DBCP)	51.7	3	50		103	67	130			



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**Date:**

26-Oct-11

## QC Summary Report

**Work Order:**

11101741

1,2,4-Trichlorobenzene	9.02	2	10	90	67	132
Naphthalene	9	2	10	90	38	154
1,2,3-Trichlorobenzene	9.6	2	10	96	56	137
Xylenes, Total	20.3	0.5	20	102	70	130
Surr: 1,2-Dichloroethane-d4	9.98		10	99.8	70	130
Surr: Toluene-d8	9.72		10	97	70	130
Surr: 4-Bromofluorobenzene	10.2		10	102	70	130



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Date:  
26-Oct-11

## QC Summary Report

Work Order:  
11101741

### Sample Matrix Spike

File ID: 11101908.D

Type: MS

Test Code: EPA Method SW8260B

Sample ID: 11101307-02AMS

Units: µg/L

Run ID: MSD\_15\_111019A

Batch ID: MS15W1019A

Analysis Date: 10/19/2011 10:59

Prep Date: 10/19/2011 10:59

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	42.4	2.5	50	0	85	21	138			
Chloromethane	51	10	50	0	102	23	144			
Vinyl chloride	58.3	2.5	50	0	117	49	136			
Chloroethane	58.7	2.5	50	0	117	21	159			
Bromomethane	35.1	10	50	0	70	10	174			
Trichlorofluoromethane	61.6	2.5	50	0	123	32	154			
Acetone	710	50	1000	0	71	10	171			
1,1-Dichloroethene	45.1	2.5	50	0	90	64	130			
Tertiary Butyl Alcohol (TBA)	10500	25	500	9771	136	41	157			E2
Dichloromethane	45	10	50	0	90	69	130			
Freon-113	51.6	2.5	50	0	103	55	141			
trans-1,2-Dichloroethene	46	2.5	50	0	92	63	130			
Methyl tert-butyl ether (MTBE)	55	1.3	50	0.62	109	47	150			
1,1-Dichloroethane	47.6	2.5	50	0	95	66	130			
2-Butanone (MEK)	978	50	1000	0	98	23	182			
Di-isopropyl Ether (DIPE)	50.9	2.5	50	0	102	59	139			
cis-1,2-Dichloroethene	46.4	2.5	50	0	93	70	130			
Bromochloromethane	49.7	2.5	50	0	99	70	132			
Chloroform	49.5	2.5	50	0	99	70	130			
Ethyl Tertiary Butyl Ether (ETBE)	50.3	2.5	50	0	101	59	182			
2,2-Dichloropropane	48.1	2.5	50	0	96	38	154			
1,2-Dichloroethane	56	2.5	50	0	112	65	134			
1,1,1-Trichloroethane	49.8	2.5	50	0	99.6	65	136			
1,1-Dichloropropene	50.9	2.5	50	0	102	68	132			
Carbon tetrachloride	49	2.5	50	0	98	58	148			
Benzene	47.8	1.3	50	0	96	59	138			
Tertiary Amyl Methyl Ether (TAME)	57	2.5	50	0	114	63	135			
Dibromomethane	53.2	2.5	50	0	106	70	130			
1,2-Dichloropropane	47.4	2.5	50	0	95	70	131			
Trichloroethene	46.9	2.5	50	0	94	65	144			
Bromodichloromethane	50	2.5	50	0	100	50	157			
4-Methyl-2-pentanone (MIBK)	152	13	125	0	122	20	182			
cis-1,3-Dichloropropene	46.5	2.5	50	0	93	63	131			
trans-1,3-Dichloropropene	46.1	2.5	50	0	92	65	136			
1,1,2-Trichloroethane	52.1	2.5	50	0	104	70	131			
Toluene	44	1.3	50	0	88	68	130			
1,3-Dichloropropane	47.2	2.5	50	0	94	70	130			
2-Hexanone	354	25	500	0	71	20	182			
Dibromochloromethane	41.3	2.5	50	0	83	42	155			
1,2-Dibromoethane (EDB)	96.1	5	100	0	96	70	130			
Tetrachloroethene	43.7	2.5	50	0	87	65	130			
1,1,1,2-Tetrachloroethane	46.5	2.5	50	0	93	70	130			
Chlorobenzene	44.7	2.5	50	0	89	70	130			
Ethylbenzene	47.8	1.3	50	0	96	68	130			
m,p-Xylene	46	1.3	50	0	92	68	131			
Bromoform	41.8	2.5	50	0	84	65	143			
Styrene	39.9	2.5	50	0	80	59	153			
o-Xylene	46.7	1.3	50	0	93	70	130			
1,1,2,2-Tetrachloroethane	47.2	2.5	50	0	94	67	130			
1,2,3-Trichloropropane	102	10	100	0	102	70	130			
Isopropylbenzene	41	2.5	50	0	82	55	138			
Bromobenzene	44.2	2.5	50	0	88	70	130			
n-Propylbenzene	42.8	2.5	50	0	86	67	133			
4-Chlorotoluene	41.2	2.5	50	0	82	70	130			
2-Chlorotoluene	41	2.5	50	0	82	70	130			
1,3,5-Trimethylbenzene	44.2	2.5	50	0	88	67	134			
tert-Butylbenzene	42.5	2.5	50	0	85	55	147			
1,2,4-Trimethylbenzene	43.9	2.5	50	0	88	65	135			
sec-Butylbenzene	41.7	2.5	50	0	83	68	135			
1,3-Dichlorobenzene	44.6	2.5	50	0	89	70	130			
1,4-Dichlorobenzene	41.5	2.5	50	0	83	70	130			
4-Isopropyltoluene	43.5	2.5	50	0	87	68	132			
1,2-Dichlorobenzene	42	2.5	50	0	84	70	130			
n-Butylbenzene	44.6	2.5	50	0	89	62	134			
1,2-Dibromo-3-chloropropane (DBCP)	242	15	250	0	97	64	130			



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**Date:**

26-Oct-11

## QC Summary Report

**Work Order:**

11101741

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1,2,4-Trichlorobenzene	40.6	10	50	0	81	62	133
Naphthalene	40.5	10	50	0	81	32	166
1,2,3-Trichlorobenzene	43.3	10	50	0	87	55	138
Xylenes, Total	92.7	1.3	100	0	93	70	130
Surr: 1,2-Dichloroethane-d4	51.3		50		103	70	130
Surr: Toluene-d8	47.7		50		95	70	130
Surr: 4-Bromofluorobenzene	50.1		50		100	70	130



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Date:  
26-Oct-11

## QC Summary Report

Work Order:  
11101741

### Sample Matrix Spike Duplicate

Type: MSD Test Code: EPA Method SW8260B

File ID: 11101909.D

Batch ID: MS15W1019A

Analysis Date: 10/19/2011 11:20

Sample ID: 11101307-02AMSD

Units: µg/L

Run ID: MSD\_15\_111019A

Prep Date: 10/19/2011 11:20

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	40.3	2.5	50	0	81	21	138	42.44	5.3(33)	
Chloromethane	49.8	10	50	0	99.6	23	144	50.98	2.3(27)	
Vinyl chloride	53.3	2.5	50	0	107	49	136	58.28	9.0(21)	
Chloroethane	53.9	2.5	50	0	108	21	159	58.69	8.5(40)	
Bromomethane	37.2	10	50	0	74	10	174	35.05	5.9(40)	
Trichlorofluoromethane	57.2	2.5	50	0	114	32	154	61.61	7.5(37)	
Acetone	700	50	1000	0	70	10	171	710.3	1.5(23)	
1,1-Dichloroethene	43.2	2.5	50	0	86	64	130	45.07	4.3(21)	
Tertiary Butyl Alcohol (TBA)	11500	25	500	9771	336	41	157	10450	9.1(30)	M3 E2
Dichloromethane	42.7	10	50	0	85	69	130	44.96	5.1(20)	
Freon-113	48.6	2.5	50	0	97	55	141	51.6	6.0(40)	
trans-1,2-Dichloroethene	43.7	2.5	50	0	87	63	130	45.98	5.0(20)	
Methyl tert-butyl ether (MTBE)	53.4	1.3	50	0.62	106	47	150	54.98	2.9(40)	
1,1-Dichloroethane	46	2.5	50	0	92	66	130	47.59	3.4(20)	
2-Butanone (MEK)	948	50	1000	0	95	23	182	977.7	3.1(22)	
Di-isopropyl Ether (DIPE)	48.8	2.5	50	0	98	59	139	50.92	4.4(20)	
cis-1,2-Dichloroethene	44.8	2.5	50	0	90	70	130	46.37	3.4(20)	
Bromochloromethane	48.2	2.5	50	0	96	70	132	49.72	3.0(20)	
Chloroform	47.3	2.5	50	0	95	70	130	49.51	4.6(20)	
Ethyl Tertiary Butyl Ether (ETBE)	48.5	2.5	50	0	97	59	182	50.27	3.7(40)	
2,2-Dichloropropane	46.2	2.5	50	0	92	38	154	48.12	4.1(22)	
1,2-Dichloroethane	52.8	2.5	50	0	106	65	134	56.03	6.0(20)	
1,1,1-Trichloroethane	47.4	2.5	50	0	95	65	136	49.82	5.0(20)	
1,1-Dichloropropene	48.2	2.5	50	0	96	68	132	50.94	5.6(20)	
Carbon tetrachloride	46.6	2.5	50	0	93	58	148	49.02	5.1(20)	
Benzene	45.4	1.3	50	0	91	59	138	47.82	5.1(21)	
Tertiary Amyl Methyl Ether (TAME)	53.2	2.5	50	0	106	63	135	56.95	6.9(40)	
Dibromomethane	50.4	2.5	50	0	101	70	130	53.22	5.4(20)	
1,2-Dichloropropane	44.9	2.5	50	0	90	70	131	47.38	5.5(20)	
Trichloroethene	44.3	2.5	50	0	89	65	144	46.86	5.6(20)	
Bromodichloromethane	47.4	2.5	50	0	95	50	157	50.02	5.4(20)	
4-Methyl-2-pentanone (MIBK)	143	13	125	0	115	20	182	152.4	6.1(20)	
cis-1,3-Dichloropropene	43.7	2.5	50	0	87	63	131	46.46	6.1(20)	
trans-1,3-Dichloropropene	43.4	2.5	50	0	87	65	136	46.08	6.1(20)	
1,1,2-Trichloroethane	48.9	2.5	50	0	98	70	131	52.07	6.3(20)	
Toluene	42	1.3	50	0	84	68	130	44	4.7(20)	
1,3-Dichloropropane	44.6	2.5	50	0	89	70	130	47.19	5.6(20)	
2-Hexanone	343	25	500	0	69	20	182	354.3	3.2(20)	
Dibromochloromethane	39.6	2.5	50	0	79	42	155	41.25	4.2(20)	
1,2-Dibromoethane (EDB)	90.5	5	100	0	91	70	130	96.05	5.9(20)	
Tetrachloroethene	41.7	2.5	50	0	83	65	130	43.69	4.6(20)	
1,1,1,2-Tetrachloroethane	44	2.5	50	0	88	70	130	46.52	5.6(20)	
Chlorobenzene	42.2	2.5	50	0	84	70	130	44.66	5.8(20)	
Ethylbenzene	45.1	1.3	50	0	90	68	130	47.84	5.8(20)	
m,p-Xylene	43.6	1.3	50	0	87	68	131	46.02	5.3(20)	
Bromoform	40	2.5	50	0	80	65	143	41.82	4.4(20)	
Styrene	37.8	2.5	50	0	76	59	153	39.86	5.4(37)	
o-Xylene	44.1	1.3	50	0	88	70	130	46.68	5.8(20)	
1,1,2,2-Tetrachloroethane	44.6	2.5	50	0	89	67	130	47.15	5.6(20)	
1,2,3-Trichloropropane	97.9	10	100	0	98	70	130	102.4	4.5(20)	
Isopropylbenzene	39.4	2.5	50	0	79	55	138	41.01	4.1(20)	
Bromobenzene	42.6	2.5	50	0	85	70	130	44.22	3.7(20)	
n-Propylbenzene	41.3	2.5	50	0	83	67	133	42.82	3.5(30)	
4-Chlorotoluene	39.8	2.5	50	0	80	70	130	41.19	3.4(20)	
2-Chlorotoluene	39.5	2.5	50	0	79	70	130	40.95	3.7(20)	
1,3,5-Trimethylbenzene	42.6	2.5	50	0	85	67	134	44.16	3.6(21)	
tert-Butylbenzene	40.8	2.5	50	0	82	55	147	42.53	4.2(20)	
1,2,4-Trimethylbenzene	42.5	2.5	50	0	85	65	135	43.85	3.2(25)	
sec-Butylbenzene	40.7	2.5	50	0	81	68	135	41.74	2.7(20)	
1,3-Dichlorobenzene	43.4	2.5	50	0	87	70	130	44.6	2.8(20)	
1,4-Dichlorobenzene	40.3	2.5	50	0	81	70	130	41.54	3.1(20)	
4-Isopropyltoluene	42	2.5	50	0	84	68	132	43.46	3.5(20)	
1,2-Dichlorobenzene	40.7	2.5	50	0	81	70	130	42.02	3.3(20)	
n-Butylbenzene	43.2	2.5	50	0	86	62	134	44.61	3.3(21)	
1,2-Dibromo-3-chloropropane (DBCP)	246	15	250	0	99	64	130	241.7	1.9(20)	



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

**Date:** 26-Oct-11 **QC Summary Report** **Work Order:** 11101741

1,2,4-Trichlorobenzene	41.3	10	50	0	83	62	133	40.6	1.8(29)
Naphthalene	42.8	10	50	0	86	32	166	40.47	5.6(40)
1,2,3-Trichlorobenzene	45.3	10	50	0	91	55	138	43.34	4.4(36)
Xylenes, Total	87.7	1.3	100	0	88	70	130	92.7	5.6(20)
Surr: 1,2-Dichloroethane-d4	50.6		50		101	70	130		
Surr: Toluene-d8	48.7		50		97	70	130		
Surr: 4-Bromofluorobenzene	50.5		50		101	70	130		

**Comments:**

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

E2 = Concentration estimated. Analyte exceeded calibration range. Reanalysis not performed due to sample matrix.

M3 = The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to the spike level. The method control sample recovery was acceptable.

Billing Information :

CHAIN-OF-CUSTODY RECORD

AMENDED CA Page: 1 of 2

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : CHHL1101741  
Report Due By : 5:00 PM On : 26-Oct-11

Client: CH2M Hill  
1000 Wilshire Boulevard  
21st Floor  
Los Angeles, CA 90017

Report Attention Daniel Jablonski  
Phone Number (213) 228-8271 x  
Email Address daniel.jablonski@ch2m.com  
Matthew Mayry (213) 228-8271 x  
matthew.mayry@ch2m.com

EDD Required : Yes

Sampled by : S. Patel

PO : Client's COC # : none Job : KMEP Norwalk  
Cooler Temp 1 °C Samples Received 15-Oct-11 Date Printed 21-Oct-11

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles Alpha Sub TAT	Requested Tests			Sample Remarks
				TPHE_W +Vnvl acetate	TPHP_W +Vnvl acetate	VOC_W +Vnvl acetate	
CHH1101741-01A	GMW-O-18	AQ 10/14/11 07:50	8 0 7	TPHE(0.10) +Vnvl acetate	TPHE(0.10) +Vnvl acetate	TPHE(0.10) +Vnvl acetate	
CHH1101741-02A	MMW-O-1	AQ 10/14/11 11:45	8 0 7	TPHE(0.10) +Vnvl acetate	TPHE(0.10) +Vnvl acetate	TPHE(0.10) +Vnvl acetate	
CHH1101741-03A	MMW-SF-3	AQ 10/14/11 10:44	8 0 7	TPHE(0.10) +Vnvl acetate	TPHE(0.10) +Vnvl acetate	TPHE(0.10) +Vnvl acetate	
CHH1101741-04A	MMW-SF-13	AQ 10/14/11 09:39	8 0 7	TPHE(0.10) +Vnvl acetate	TPHE(0.10) +Vnvl acetate	TPHE(0.10) +Vnvl acetate	
CHH1101741-05A	PZ-5	AQ 10/14/11 08:20	8 0 7	TPHE(0.10) +Vnvl acetate	TPHE(0.10) +Vnvl acetate	TPHE(0.10) +Vnvl acetate	
CHH1101741-06A	TB-5	AQ 10/14/11 06:40	2 0 7			8260/OXYS +Vnvl acetate	Reno Trip Blank 9/6/11
CHH1101741-07A	EB-8	AQ 10/14/11 08:25	8 0 7	TPHE(0.10) +Vnvl acetate	TPHE(0.10) +Vnvl acetate	TPHE(0.10) +Vnvl acetate	
CHH1101741-08A	DUP-7	AQ 10/14/11 00:00	8 0 7	TPHE(0.10) +Vnvl acetate	TPHE(0.10) +Vnvl acetate	TPHE(0.10) +Vnvl acetate	

Comments: Security seals intact. Saturday delivery. Samples kept cold and secure until loggin Monday. Frozen Ice. Sample -14A labeled per client COC. Analysis: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values. Amended 10/21/11 @ 12:40 to add Total Xylenes, per email from Dan Jablonski, SC

Logged in by: *Dane Smeltzer* Signature *Sara Coffee* Print Name  
Alpha Analytical, Inc. Company 10/21/11 12:43 Date/Time

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other



Billing Information :

# CHAIN-OF-CUSTODY RECORD

# AMENDED CA

## Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
TEL: (775) 355-1044 FAX: (775) 355-0406

Workorder : CHHL1101741

Report Due By : 5:00 PM On : 26-Oct-11

Client: CH2M Hill  
1000 Wilshire Boulevard  
21st Floor  
Los Angeles, CA 90017

Report Attention Daniel Jablonski (213) 228-8271 x daniel.jablonski@ch2m.com  
Matthew Mayry (213) 228-8271 x matthew.mayry@ch2m.com

EDD Required : Yes

Sampled by : S. Patel

Client's COC # : none

Job : KMEP Norwalk

Cooler Temp 1 °C Samples Received 15-Oct-11 Date Printed 21-Oct-11

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD with Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles Alpha Sub	TAT	Requested Tests			Sample Remarks	
					TPHE_W	TPHP_W	VOC_W		
CHH1101741-09A	DUP-8	AQ 10/14/11 00:00	8	0	7	TPHE(0.10) +Vinyl acetate	TPHP(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
CHH1101741-10A	GMW-10	AQ 10/14/11 07:50	8	0	7	TPHE(0.10) +Vinyl acetate	TPHP(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
CHH1101741-11A	GMW-22	AQ 10/14/11 08:30	8	0	7	TPHE(0.10) +Vinyl acetate	TPHP(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
CHH1101741-12A	GMW-O-21	AQ 10/14/11 10:35	8	0	7	TPHE(0.10) +Vinyl acetate	TPHP(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
CHH1101741-13A	MW-SF-15	AQ 10/14/11 09:25	8	0	7	TPHE(0.10) +Vinyl acetate	TPHP(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
CHH1101741-14A	MW-SF-16	AQ 10/14/11 10:00	7	0	7	TPHE(0.10) +Vinyl acetate	TPHP(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	1 VOA received broken. 1 VOA labeled MW-SF-14
CHH1101741-15A	EB-7	AQ 10/14/11 08:40	8	0	7	TPHE(0.10) +Vinyl acetate	TPHP(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
CHH1101741-16A	DUP-9	AQ 10/14/11 00:00	8	0	7	TPHE(0.10) +Vinyl acetate	TPHP(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	

Comments: Security seals intact. Saturday delivery. Samples kept cold and secure until login Monday. Frozen Ice. Sample -14A labeled per client COC. Analysts: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values. Amended 10/21/11 @ 12:40 to add Total Xylenes, per email from Dan Jablonski, SC

Logged in by: Sara Lopez Signature: Sara Lopez Print Name: Sara Lopez Company: Alpha Analytical, Inc. Date/Time: 10/21/11 12:43

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

# CHAIN-OF-CUSTODY RECORD

# CA

## Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778

TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : CHHL1101741

Report Due By : 5:00 PM On : 26-Oct-11

Client:

CH2M Hill  
1000 Wilshire Boulevard  
21st Floor  
Los Angeles, CA 90017

Report Attention

Daniel Jablonski (213) 228-8271 x daniel.jablonski@ch2m.com  
Mathew Mayry (213) 228-8271 x mathew.mayry@ch2m.com

Phone Number

Email Address

EDD Required : Yes

Sampled by : S. Patel

PO :

Cooler Temp

Samples Received

Date Printed

Client's COC # : none

Job : KMEP Norwalk

1 °C

15-Oct-11

17-Oct-11

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles Alpha Sub	TAT	Requested Tests			Sample Remarks	
					TPHE_W	TPHP_W	VOC_W		
CHH1101741-01A	GMW-O-18	10/14/11 07:50	8	0	7	TPHE(0.10) +Vinyl acetate	TPHP(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
CHH1101741-02A	MW-O-1	10/14/11 11:45	8	0	7	TPHE(0.10) +Vinyl acetate	TPHP(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
CHH1101741-03A	MW-SF-3	10/14/11 10:44	8	0	7	TPHE(0.10) +Vinyl acetate	TPHP(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
CHH1101741-04A	MW-SF-13	10/14/11 09:39	8	0	7	TPHE(0.10) +Vinyl acetate	TPHP(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
CHH1101741-05A	PZ-5	10/14/11 08:20	8	0	7	TPHE(0.10) +Vinyl acetate	TPHP(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
CHH1101741-06A	TB-5	10/14/11 06:40	2	0	7			8260/OXYS	Reno Trip Blank 9/6/11
CHH1101741-07A	EB-8	10/14/11 08:25	8	0	7	TPHE(0.10) +Vinyl acetate	TPHP(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
CHH1101741-08A	DUP-7	10/14/11 00:00	8	0	7	TPHE(0.10) +Vinyl acetate	TPHP(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
CHH1101741-09A	DUP-8	10/14/11 00:00	8	0	7	TPHE(0.10) +Vinyl acetate	TPHP(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	

Comments: Security seals intact. Saturday delivery. Samples kept cold and secure until login Monday. Frozen Ice. Sample -14A labeled per client COC. Analysts: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values.

Signature

Print Name

Sara Coffee

Company

Alpha Analytical, Inc.

Date/Time

10/17/11 9:55

Logged in by:

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

# CHAIN-OF-CUSTODY RECORD

# CA

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
 TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : CHHL11101741  
 Report Due By : 5:00 PM On : 26-Oct-11

Client: CH2M Hill  
 1000 Wilshire Boulevard  
 21st Floor  
 Los Angeles, CA 90017

Report Attention: Daniel Jablonski (213) 228-8271 x  
 Matthew Mayry (213) 228-8271 x  
 Email Address: daniel.jablonski@ch2m.com  
 mathew.mayry@ch2m.com

EDD Required : Yes

Sampled by : S. Patel

Client's COC # : none Job : KMEP Norwalk

Cooler Temp 1 °C Samples Received 15-Oct-11 Date Printed 17-Oct-11

QC Level : S3 = Final Rpt MBLK, LCS, MSMSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles		Requested Tests			Sample Remarks	
			Alpha	Sub TAT	TPHE_W	TPHP_W	VOC_W		
CHH11101741-10A	GMW-10	AQ 10/14/11 07:50	8	0	7	TPHE(0.10) +Vmyl acetate	TPHP(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	
CHH11101741-11A	GMW-22	AQ 10/14/11 08:30	8	0	7	TPHE(0.10) +Vmyl acetate	TPHP(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	
CHH11101741-12A	GMW-O-21	AQ 10/14/11 10:35	8	0	7	TPHE(0.10) +Vmyl acetate	TPHP(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	
CHH11101741-13A	MW-SF-15	AQ 10/14/11 09:25	8	0	7	TPHE(0.10) +Vmyl acetate	TPHP(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	
CHH11101741-14A	MW-SF-16	AQ 10/14/11 10:00	7	0	7	TPHE(0.10) +Vmyl acetate	TPHP(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	1 VOA received broken. 1 VOA labeled MW-SF-14
CHH11101741-15A	EB-7	AQ 10/14/11 08:40	8	0	7	TPHE(0.10) +Vmyl acetate	TPHP(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	
CHH11101741-16A	DUP-9	AQ 10/14/11 00:00	8	0	7	TPHE(0.10) +Vmyl acetate	TPHP(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	

Comments: Security seals intact. Saturday delivery. Samples kept cold and secure until login Monday. Frozen Ice Sample-14A labeled per client COC. : Analysts: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values.

Logged in by: *Sara Coffee* Signature: *Sara Coffee* Print Name: Sara Coffee Company: Alpha Analytical, Inc. Date/Time: 10/17/11 9:55

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

# BLAINE

TECH SERVICES, INC.

1680 ROGERS AVENUE  
 SAN JOSE, CALIFORNIA 95112-1105  
 FAX (408) 573-7771  
 PHONE (408) 573-0555

Alpha Analytical COC 1 of 2

CHAIN OF CUSTODY

CLIENT: Kinder Morgan  
 SITE: DFSP Norwalk  
 15306 Norwalk Blvd, Norwalk

LAB: Alpha Analytical  
 Billing Information:  
 Kinder Morgan  
 1100 Town and Country Rd.  
 Orange CA 95112  
 Kinder Morgan Norwalk  
 Report to:  
 Dan Jablonski  
 CH2MHILL  
 1000 Wilshire Blvd 21st floor  
 Los Angeles, CA 90017

SAMPLE I.D.	DATE	TIME	MATRIX	CONTAINERS		TPHg, TPHfp (EPA 8015M)	VOC's & Oxygenates (EPA 8260B)	ADDL. INFORMATION	STATUS	CONDITION	LAB SAMPLE #
				#	Preservation Type						
GMU-0-18	10-14-11	0750	AQ Water	8	KIC VOLS	X	X				CHL110741-01A
MU-0-1		1145				X	X				-02A
MU-SF-3		1044				X	X				-03A
MU-SF-13		0939				X	X				-04A
12-5		0820				X	X				-05A
TG-5		0646				X	X				-06A
EG-8		0825		8		X	X				-07A
NU-7		-				X	X				-08A
NU-8		-				X	X				-09A
GMU-10		0750				X	X				-10A

SAMPLING COMPLETED 10-14-11 1200  
 RELEASED BY: A. Pahl  
 TIME: 1315  
 RECEIVED BY: Nicole (Sample Custodian)  
 DATE: 10/14/11  
 TIME: 1315

RECEIVED BY: A. Pahl  
 TIME: 1600  
 RECEIVED BY: Anthony Starr  
 DATE: 10/14/11  
 TIME: 1600

SHIPPED VIA: Anthony Starr  
 TIME SENT: 1600  
 COOLER #: [blank]  
 DATE: 10/14/11  
 TIME: 9:05

RESULTS NEEDED: Standard

# BLAINE

TECH SERVICES, INC.

1680 ROGERS AVENUE  
SAN JOSE, CALIFORNIA 95112-1105  
FAX (408) 573-7771  
PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT

LAB

Alpha Analytical COC 2 of 2

Billing Information:  
Kinder Morgan  
1100 Town and Country Rd.  
Orange CA 95112

Kinder Morgan Norwalk  
Report to:  
Dan Jablonski  
CH2MHILL  
1000 Wilshire Blvd 21st floor  
Los Angeles, CA 90017

CHAIN OF CUSTODY

CLIENT

Kinder Morgan

SITE

DFSP Norwalk

15306 Norwalk Blvd, Norwalk

SAMPLE I.D.	DATE	TIME	MATRIX	#	Preservation	Type	CONTAINERS		CONDUCT ANALYSIS TO DETECT		RECEIVED BY	DATE	TIME	
							AQ#	Water	TPHg, TPHfp (EPA 8015M)	VOC's & Oxygenates (EPA 8260B)				
Gmw-22	10-19-11	0830	AP	8	HCl	000			X	X				
Gmw-0-21		1035							X	X				
Mw-SF-15		0925							X	X				
Mw-SF-16		1000							X	X				
EO-7		0840							X	X				
APP-9									X	X				

SAMPLING DATE | TIME | SAMPLING PERFORMED BY | RESULTS NEEDED | NO LATER THAN | STANDARD

10/19/11 | 1500 | Sun? | Analy

RELEASED BY | TIME | RECEIVED BY | DATE | TIME

H. Park | 1315 | Nicole (Sample Custodian) | 10/16/11 | 1315

RELEASED BY | TIME | RECEIVED BY | DATE | TIME

Nicole (Sample Custodian) | 1600 | Anthony Stark | 10/14/11 | 1600

SHIPPED VIA | TIME SENT | COOLER #

Anthony Stark | 1600 | None