Appendix E
Laboratory Analytical Reports and Chain-of-Custody Documents – February, March, and May 2011 Monthly Monitoring Events

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 : 02/26/11

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 :	**GMW-O-19**						
Lab ID :	CHH11022802-02A	TPH-E (Fuel Product)	ND		0.10 mg/L	03/03/11	03/03/11
Date Sampled	02/24/11 08:01	Surr: Nonane	123		(49-145) %REC	03/03/11	03/03/11
		TPH-P (GRO)	ND		0.050 mg/L	03/02/11	03/02/11
		Surr: 1,2-Dichloroethane-d4	106		(70-130) %REC	03/02/11	03/02/11
		Surr: Toluene-d8	108		(70-130) %REC	03/02/11	03/02/11
		Surr: 4-Bromofluorobenzene	100		(70-130) %REC	03/02/11	03/02/11
Client ID :	**GMW-O-16**						
Lab ID :	CHH11022802-03A	TPH-E (Fuel Product)	ND		0.10 mg/L	03/03/11	03/03/11
Date Sampled	02/24/11 08:45	Surr: Nonane	115		(49-145) %REC	03/03/11	03/03/11
		TPH-P (GRO)	ND		0.050 mg/L	03/02/11	03/02/11
		Surr: 1,2-Dichloroethane-d4	103		(70-130) %REC	03/02/11	03/02/11
		Surr: Toluene-d8	110		(70-130) %REC	03/02/11	03/02/11
		Surr: 4-Bromofluorobenzene	101		(70-130) %REC	03/02/11	03/02/11
Client ID :	**GMW-6**						
Lab ID :	CHH11022802-04A	TPH-E (Fuel Product)	0.12		0.10 mg/L	03/03/11	03/03/11
Date Sampled	02/24/11 09:37	Surr: Nonane	117		(49-145) %REC	03/03/11	03/03/11
		TPH-P (GRO)	ND		0.050 mg/L	03/02/11	03/02/11
		Surr: 1,2-Dichloroethane-d4	105		(70-130) %REC	03/02/11	03/02/11
		Surr: Toluene-d8	107		(70-130) %REC	03/02/11	03/02/11
		Surr: 4-Bromofluorobenzene	99		(70-130) %REC	03/02/11	03/02/11
Client ID :	**GMW-O-18**						
Lab ID :	CHH11022802-06A	TPH-E (Fuel Product)	2.1	*	0.10 mg/L	03/03/11	03/03/11
Date Sampled	02/24/11 10:21	Surr: Nonane	123		(49-145) %REC	03/03/11	03/03/11
		TPH-P (GRO)	1.4		0.050 mg/L	03/02/11	03/02/11
		Surr: 1,2-Dichloroethane-d4	105		(70-130) %REC	03/02/11	03/02/11
		Surr: Toluene-d8	100		(70-130) %REC	03/02/11	03/02/11
		Surr: 4-Bromofluorobenzene	91		(70-130) %REC	03/02/11	03/02/11
Client ID :	**DUP-1**						
Lab ID :	CHH11022802-07A	TPH-E (Fuel Product)	0.50	**	0.10 mg/L	03/03/11	03/03/11
Date Sampled	02/24/11 00:00	Surr: Nonane	114		(49-145) %REC	03/03/11	03/03/11
		TPH-P (GRO)	2.7		0.20 mg/L	03/03/11	03/03/11
		Surr: 1,2-Dichloroethane-d4	95		(70-130) %REC	03/03/11	03/03/11
		Surr: Toluene-d8	104		(70-130) %REC	03/03/11	03/03/11
		Surr: 4-Bromofluorobenzene	97		(70-130) %REC	03/03/11	03/03/11
Client ID :	**PZ-5**						
Lab ID :	CHH11022802-08A	TPH-E (Fuel Product)	0.40	**	0.10 mg/L	03/03/11	03/03/11
Date Sampled	02/24/11 11:04	Surr: Nonane	121		(49-145) %REC	03/03/11	03/03/11
		TPH-P (GRO)	1.4		0.40 mg/L	03/03/11	03/03/11
		Surr: 1,2-Dichloroethane-d4	95		(70-130) %REC	03/03/11	03/03/11
		Surr: Toluene-d8	107		(70-130) %REC	03/03/11	03/03/11
		Surr: 4-Bromofluorobenzene	102		(70-130) %REC	03/03/11	03/03/11

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Client ID :	**GMW-O-15**						
Lab ID :	CHH11022802-09A	TPH-E (Fuel Product)	10	**	0.10 mg/L	03/03/11	03/03/11
Date Sampled	02/24/11 12:08	Surr: Nonane	141		(49-145) %REC	03/03/11	03/03/11
		TPH-P (GRO)	12		1.0 mg/L	03/02/11	03/02/11
		Surr: 1,2-Dichloroethane-d4	97		(70-130) %REC	03/02/11	03/02/11
		Surr: Toluene-d8	101		(70-130) %REC	03/02/11	03/02/11
		Surr: 4-Bromofluorobenzene	93		(70-130) %REC	03/02/11	03/02/11
Client ID :	**GMW-36**						
Lab ID :	CHH11022802-10A	TPH-E (Fuel Product)	3.9	*	0.10 mg/L	03/03/11	03/03/11
Date Sampled	02/24/11 13:09	Surr: Nonane	127		(49-145) %REC	03/03/11	03/03/11
		TPH-P (GRO)	1.6		0.10 mg/L	03/02/11	03/02/11
		Surr: 1,2-Dichloroethane-d4	97		(70-130) %REC	03/02/11	03/02/11
		Surr: Toluene-d8	104		(70-130) %REC	03/02/11	03/02/11
		Surr: 4-Bromofluorobenzene	95		(70-130) %REC	03/02/11	03/02/11
Client ID :	**EB-1**						
Lab ID :	CHH11022802-11A	TPH-E (Fuel Product)	ND		0.10 mg/L	03/03/11	03/03/11
Date Sampled	02/24/11 13:45	Surr: Nonane	128		(49-145) %REC	03/03/11	03/03/11
		TPH-P (GRO)	ND		0.050 mg/L	03/02/11	03/02/11
		Surr: 1,2-Dichloroethane-d4	102		(70-130) %REC	03/02/11	03/02/11
		Surr: Toluene-d8	102		(70-130) %REC	03/02/11	03/02/11
		Surr: 4-Bromofluorobenzene	96		(70-130) %REC	03/02/11	03/02/11

**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.

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) 736-7522 / 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.

3/8/11

Report Date

Alpha Analytical, Inc.

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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: CHH11022802-01A
Client I.D. Number: TB-1

Sampled: 02/24/11 07:00
Received: 02/26/11
Extracted: 03/02/11
Analyzed: 03/02/11

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	95	(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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Attn: Daniel Jablonski
Phone: (213) 228-8271
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Alpha Analytical Number: CHH11022802-02A
Client I.D. Number: GMW-O-19

Sampled: 02/24/11 08:01
Received: 02/26/11
Extracted: 03/02/11
Analyzed: 03/02/11

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	106	(70-130)	%REC
28	Benzene	ND	0.50	µg/L	72 Surr: Toluene-d8	108	(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

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Phone: (213) 228-8271
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Alpha Analytical Number: CHH11022802-03A
Client I.D. Number: GMW-O-16

Sampled: 02/24/11 08:45
Received: 02/26/11
Extracted: 03/02/11
Analyzed: 03/02/11

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)	0.67	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	103	(70-130)	%REC
28	Benzene	ND	0.50	µg/L	72	Surr: Toluene-d8	110	(70-130)	%REC
29	Tertiary Amyl Methyl Ether (TAME)	ND	1.0	µg/L	73	Surr: 4-Bromofluorobenzene	101	(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) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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3/8/11
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: CHH11022802-04A
Client I.D. Number: GMW-6

Sampled: 02/24/11 09:37
Received: 02/26/11
Extracted: 03/02/11
Analyzed: 03/02/11

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)	120	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)	9.6	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	105	(70-130)	%REC
28	Benzene	0.53	0.50	µg/L	72 Surr: Toluene-d8	107	(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

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3/8/11
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: CHH11022802-05A
Client I.D. Number: DUP-2

Sampled: 02/24/11 00:00
Received: 02/26/11
Extracted: 03/02/11
Analyzed: 03/02/11

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)	130	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)	9.9	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	106	(70-130)	%REC
28	Benzene	0.51	0.50	µg/L	72 Surr: Toluene-d8	108	(70-130)	%REC
29	Tertiary Amyl Methyl Ether (TAME)	ND	1.0	µg/L	73 Surr: 4-Bromofluorobenzene	96	(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

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3/8/11
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: CHH11022802-06A
Client I.D. Number: GMW-O-18

Sampled: 02/24/11 10:21
Received: 02/26/11
Extracted: 03/02/11
Analyzed: 03/02/11

Volatile Organics by GC/MS
EPA Method SW8260B

	Compound	Concentration		Reporting Limit	
1	Dichlorodifluoromethane	ND		1.0	µg/L
2	Chloromethane	ND		2.0	µg/L
3	Vinyl chloride	ND		0.50	µg/L
4	Chloroethane	ND		1.0	µg/L
5	Bromomethane	ND		2.0	µg/L
6	Trichlorofluoromethane	ND		10	µg/L
7	Acetone	ND		10	µg/L
8	1,1-Dichloroethene	ND		1.0	µg/L
9	Tertiary Butyl Alcohol (TBA)	1,600	*	20	µg/L
10	Dichloromethane	ND		5.0	µg/L
11	Freon-113	ND		10	µg/L
12	Carbon disulfide	ND		2.5	µg/L
13	trans-1,2-Dichloroethene	ND		1.0	µg/L
14	Methyl tert-butyl ether (MTBE)	380		0.50	µg/L
15	1,1-Dichloroethane	ND		1.0	µg/L
16	Vinyl acetate	ND		50	µg/L
17	2-Butanone (MEK)	ND		10	µg/L
18	Di-isopropyl Ether (DIPE)	ND		1.0	µg/L
19	cis-1,2-Dichloroethene	ND		1.0	µg/L
20	Bromochloromethane	ND		1.0	µg/L
21	Chloroform	ND		1.0	µg/L
22	Ethyl Tertiary Butyl Ether (ETBE)	ND		1.0	µg/L
23	2,2-Dichloropropane	ND		1.0	µg/L
24	1,2-Dichloroethane	ND		0.50	µg/L
25	1,1,1-Trichloroethane	ND		1.0	µg/L
26	1,1-Dichloropropene	ND		1.0	µg/L
27	Carbon tetrachloride	ND		1.0	µg/L
28	Benzene	60		0.50	µg/L
29	Tertiary Amyl Methyl Ether (TAME)	3.9		1.0	µg/L
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	31		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
45	Chlorobenzene	ND		1.0	µg/L
46	Ethylbenzene	19		0.50	µg/L
47	m,p-Xylene	85		0.50	µg/L
48	Bromoform	ND		1.0	µg/L
49	Styrene	ND		1.0	µg/L
50	o-Xylene	38		0.50	µg/L
51	1,1,2,2-Tetrachloroethane	ND		1.0	µg/L
52	1,2,3-Trichloropropane	ND		2.0	µg/L
53	Isopropylbenzene	1.1		1.0	µg/L
54	Bromobenzene	ND		1.0	µg/L
55	n-Propylbenzene	4.8		1.0	µg/L
56	4-Chlorotoluene	ND		1.0	µg/L
57	2-Chlorotoluene	ND		1.0	µg/L
58	1,3,5-Trimethylbenzene	16		1.0	µg/L
59	tert-Butylbenzene	ND		1.0	µg/L
60	1,2,4-Trimethylbenzene	54		1.0	µg/L
61	sec-Butylbenzene	1.3		1.0	µg/L
62	1,3-Dichlorobenzene	ND		1.0	µg/L
63	1,4-Dichlorobenzene	ND		1.0	µg/L
64	4-Isopropyltoluene	ND		1.0	µg/L
65	1,2-Dichlorobenzene	ND		1.0	µg/L
66	n-Butylbenzene	2.2		1.0	µg/L
67	1,2-Dibromo-3-chloropropane (DBCP)	ND		5.0	µg/L
68	1,2,4-Trichlorobenzene	ND		2.0	µg/L
69	Naphthalene	44		10	µg/L
70	1,2,3-Trichlorobenzene	ND		2.0	µg/L
71	Surr: 1,2-Dichloroethane-d4	105		(70-130)	%REC
72	Surr: Toluene-d8	100		(70-130)	%REC
73	Surr: 4-Bromofluorobenzene	91		(70-130)	%REC

*This analyte was analyzed separately on 3/3/11 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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3/8/11
Report Date

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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: CHH11022802-07A
Client I.D. Number: DUP-1

Sampled: 02/24/11 00:00
Received: 02/26/11
Extracted: 03/02/11
Analyzed: 03/02/11

Volatile Organics by GC/MS
EPA Method SW8260B

	Compound	Concentration		Reporting Limit	
1	Dichlorodifluoromethane	ND		1.0	µg/L
2	Chloromethane	ND		4.0	µg/L
3	Vinyl chloride	ND		1.0	µg/L
4	Chloroethane	ND		1.0	µg/L
5	Bromomethane	ND		4.0	µg/L
6	Trichlorofluoromethane	ND		10	µg/L
7	Acetone	ND		20	µg/L
8	1,1-Dichloroethene	ND		1.0	µg/L
9	Tertiary Butyl Alcohol (TBA)	1,800	*	20	µg/L
10	Dichloromethane	ND		5.0	µg/L
11	Freon-113	ND		10	µg/L
12	Carbon disulfide	ND		5.0	µg/L
13	trans-1,2-Dichloroethene	ND		1.0	µg/L
14	Methyl tert-butyl ether (MTBE)	400		0.50	µg/L
15	1,1-Dichloroethane	ND		1.0	µg/L
16	Vinyl acetate	ND		100	µg/L
17	2-Butanone (MEK)	ND		20	µg/L
18	Di-isopropyl Ether (DIPE)	ND		1.0	µg/L
19	cis-1,2-Dichloroethene	ND		1.0	µg/L
20	Bromochloromethane	ND		1.0	µg/L
21	Chloroform	ND		1.0	µg/L
22	Ethyl Tertiary Butyl Ether (ETBE)	ND		1.0	µg/L
23	2,2-Dichloropropane	ND		1.0	µg/L
24	1,2-Dichloroethane	ND		1.0	µg/L
25	1,1,1-Trichloroethane	ND		1.0	µg/L
26	1,1-Dichloropropene	ND		1.0	µg/L
27	Carbon tetrachloride	ND		1.0	µg/L
28	Benzene	130		0.50	µg/L
29	Tertiary Amyl Methyl Ether (TAME)	5.3		1.0	µg/L
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		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	70		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
45	Chlorobenzene	ND		1.0	µg/L
46	Ethylbenzene	56		0.50	µg/L
47	m,p-Xylene	220	*	1.0	µg/L
48	Bromoform	ND		1.0	µg/L
49	Styrene	ND		1.0	µg/L
50	o-Xylene	86		0.50	µg/L
51	1,1,2,2-Tetrachloroethane	ND		1.0	µg/L
52	1,2,3-Trichloropropane	ND		4.0	µg/L
53	Isopropylbenzene	4.4		1.0	µg/L
54	Bromobenzene	ND		1.0	µg/L
55	n-Propylbenzene	19		1.0	µg/L
56	4-Chlorotoluene	ND		1.0	µg/L
57	2-Chlorotoluene	ND		1.0	µg/L
58	1,3,5-Trimethylbenzene	50		1.0	µg/L
59	tert-Butylbenzene	ND		1.0	µg/L
60	1,2,4-Trimethylbenzene	140		1.0	µg/L
61	sec-Butylbenzene	5.3		1.0	µg/L
62	1,3-Dichlorobenzene	ND		1.0	µg/L
63	1,4-Dichlorobenzene	ND		1.0	µg/L
64	4-Isopropyltoluene	1.8		1.0	µg/L
65	1,2-Dichlorobenzene	ND		1.0	µg/L
66	n-Butylbenzene	7.7		1.0	µg/L
67	1,2-Dibromo-3-chloropropane (DBCP)	ND		6.0	µg/L
68	1,2,4-Trichlorobenzene	ND		4.0	µg/L
69	Naphthalene	50		10	µg/L
70	1,2,3-Trichlorobenzene	ND		4.0	µg/L
71	Surr: 1,2-Dichloroethane-d4	101		(70-130)	%REC
72	Surr: Toluene-d8	102		(70-130)	%REC
73	Surr: 4-Bromofluorobenzene	94		(70-130)	%REC

*This analyte was analyzed separately on 3/3/11 in order to achieve lower reporting limits for the other analytes.

Some 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) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

3/8/11
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: CHH11022802-08A
Client I.D. Number: PZ-5

Sampled: 02/24/11 11:04
Received: 02/26/11
Extracted: 03/03/11
Analyzed: 03/03/11

Volatile Organics by GC/MS
EPA Method SW8260B

	Compound	Concentration		Reporting Limit			Compound	Concentration	Reporting Limit	
1	Dichlorodifluoromethane	ND		4.0	µg/L	45	Chlorobenzene	ND	4.0	µg/L
2	Chloromethane	ND		16	µg/L	46	Ethylbenzene	ND	2.0	µg/L
3	Vinyl chloride	ND		4.0	µg/L	47	m,p-Xylene	3.8	2.0	µg/L
4	Chloroethane	ND		4.0	µg/L	48	Bromoform	ND	4.0	µg/L
5	Bromomethane	ND		16	µg/L	49	Styrene	ND	4.0	µg/L
6	Trichlorofluoromethane	ND		10	µg/L	50	o-Xylene	ND	2.0	µg/L
7	Acetone	ND		80	µg/L	51	1,1,2,2-Tetrachloroethane	ND	4.0	µg/L
8	1,1-Dichloroethene	ND		4.0	µg/L	52	1,2,3-Trichloropropane	ND	16	µg/L
9	Tertiary Butyl Alcohol (TBA)	27,000	*	200	µg/L	53	Isopropylbenzene	ND	4.0	µg/L
10	Dichloromethane	ND		16	µg/L	54	Bromobenzene	ND	4.0	µg/L
11	Freon-113	ND		10	µg/L	55	n-Propylbenzene	ND	4.0	µg/L
12	Carbon disulfide	ND		20	µg/L	56	4-Chlorotoluene	ND	4.0	µg/L
13	trans-1,2-Dichloroethene	ND		4.0	µg/L	57	2-Chlorotoluene	ND	4.0	µg/L
14	Methyl tert-butyl ether (MTBE)	84		2.0	µg/L	58	1,3,5-Trimethylbenzene	ND	4.0	µg/L
15	1,1-Dichloroethane	ND		4.0	µg/L	59	tert-Butylbenzene	ND	4.0	µg/L
16	Vinyl acetate	ND		400	µg/L	60	1,2,4-Trimethylbenzene	ND	4.0	µg/L
17	2-Butanone (MEK)	ND		80	µg/L	61	sec-Butylbenzene	ND	4.0	µg/L
18	Di-isopropyl Ether (DIPE)	ND		4.0	µg/L	62	1,3-Dichlorobenzene	ND	4.0	µg/L
19	cis-1,2-Dichloroethene	ND		4.0	µg/L	63	1,4-Dichlorobenzene	ND	4.0	µg/L
20	Bromochloromethane	ND		4.0	µg/L	64	4-Isopropyltoluene	ND	4.0	µg/L
21	Chloroform	ND		4.0	µg/L	65	1,2-Dichlorobenzene	ND	4.0	µg/L
22	Ethyl Tertiary Butyl Ether (ETBE)	ND		4.0	µg/L	66	n-Butylbenzene	ND	4.0	µg/L
23	2,2-Dichloropropane	ND		4.0	µg/L	67	1,2-Dibromo-3-chloropropane (DBCP)	ND	24	µg/L
24	1,2-Dichloroethane	ND		4.0	µg/L	68	1,2,4-Trichlorobenzene	ND	16	µg/L
25	1,1,1-Trichloroethane	ND		4.0	µg/L	69	Naphthalene	ND	16	µg/L
26	1,1-Dichloropropene	ND		4.0	µg/L	70	1,2,3-Trichlorobenzene	ND	16	µg/L
27	Carbon tetrachloride	ND		4.0	µg/L	71	Surr: 1,2-Dichloroethane-d4	95	(70-130)	%REC
28	Benzene	390		2.0	µg/L	72	Surr: Toluene-d8	107	(70-130)	%REC
29	Tertiary Amyl Methyl Ether (TAME)	ND		4.0	µg/L	73	Surr: 4-Bromofluorobenzene	102	(70-130)	%REC
30	Dibromomethane	ND		4.0	µg/L					
31	1,2-Dichloropropane	ND		4.0	µg/L					
32	Trichloroethene	ND		4.0	µg/L					
33	Bromodichloromethane	ND		4.0	µg/L					
34	4-Methyl-2-pentanone (MIBK)	ND		20	µg/L					
35	cis-1,3-Dichloropropene	ND		4.0	µg/L					
36	trans-1,3-Dichloropropene	ND		4.0	µg/L					
37	1,1,2-Trichloroethane	ND		4.0	µg/L					
38	Toluene	ND		2.0	µg/L					
39	1,3-Dichloropropane	ND		4.0	µg/L					
40	2-Hexanone	ND		40	µg/L					
41	Dibromochloromethane	ND		4.0	µg/L					
42	1,2-Dibromoethane (EDB)	ND		8.0	µg/L					
43	Tetrachloroethene	ND		4.0	µg/L					
44	1,1,1,2-Tetrachloroethane	ND		4.0	µg/L					

*This analyte was analyzed separately on 3/2/11 in order to achieve lower reporting limits for the other analytes.

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.

3/8/11
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: CHH11022802-09A
Client I.D. Number: GMW-O-15

Sampled: 02/24/11 12:08
Received: 02/26/11
Extracted: 03/02/11
Analyzed: 03/02/11

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	310	5.0	µg/L
3	Vinyl chloride	ND	10	µg/L	47 m,p-Xylene	1,300	5.0	µg/L
4	Chloroethane	ND	10	µg/L	48 Bromoform	ND	10	µg/L
5	Bromomethane	ND	40	µg/L	49 Styrene	ND	10	µg/L
6	Trichlorofluoromethane	ND	10	µg/L	50 o-Xylene	470	5.0	µg/L
7	Acetone	ND	200	µg/L	51 1,1,2,2-Tetrachloroethane	ND	10	µg/L
8	1,1-Dichloroethene	ND	10	µg/L	52 1,2,3-Trichloropropane	ND	40	µg/L
9	Tertiary Butyl Alcohol (TBA)	4,100	100	µg/L	53 Isopropylbenzene	17	10	µg/L
10	Dichloromethane	ND	40	µg/L	54 Bromobenzene	ND	10	µg/L
11	Freon-113	ND	10	µg/L	55 n-Propylbenzene	68	10	µg/L
12	Carbon disulfide	ND	50	µg/L	56 4-Chlorotoluene	ND	10	µg/L
13	trans-1,2-Dichloroethene	ND	10	µg/L	57 2-Chlorotoluene	ND	10	µg/L
14	Methyl tert-butyl ether (MTBE)	970	5.0	µg/L	58 1,3,5-Trimethylbenzene	190	10	µg/L
15	1,1-Dichloroethane	ND	10	µg/L	59 tert-Butylbenzene	ND	10	µg/L
16	Vinyl acetate	ND	1,000	µg/L	60 1,2,4-Trimethylbenzene	570	10	µg/L
17	2-Butanone (MEK)	ND	200	µg/L	61 sec-Butylbenzene	11	10	µg/L
18	Di-isopropyl Ether (DIPE)	ND	10	µg/L	62 1,3-Dichlorobenzene	ND	10	µg/L
19	cis-1,2-Dichloroethene	ND	10	µg/L	63 1,4-Dichlorobenzene	ND	10	µg/L
20	Bromochloromethane	ND	10	µg/L	64 4-Isopropyltoluene	ND	10	µg/L
21	Chloroform	ND	10	µg/L	65 1,2-Dichlorobenzene	ND	10	µg/L
22	Ethyl Tertiary Butyl Ether (ETBE)	ND	10	µg/L	66 n-Butylbenzene	14	10	µg/L
23	2,2-Dichloropropane	ND	10	µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	60	µg/L
24	1,2-Dichloroethane	ND	10	µg/L	68 1,2,4-Trichlorobenzene	ND	40	µg/L
25	1,1,1-Trichloroethane	ND	10	µg/L	69 Naphthalene	150	40	µg/L
26	1,1-Dichloropropene	ND	10	µg/L	70 1,2,3-Trichlorobenzene	ND	40	µg/L
27	Carbon tetrachloride	ND	10	µg/L	71 Surr: 1,2-Dichloroethane-d4	97	(70-130)	%REC
28	Benzene	700	5.0	µg/L	72 Surr: Toluene-d8	101	(70-130)	%REC
29	Tertiary Amyl Methyl Ether (TAME)	20	10	µg/L	73 Surr: 4-Bromofluorobenzene	93	(70-130)	%REC
30	Dibromomethane	ND	10	µg/L				
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	450	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

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) 736-7522 / 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.

3/8/11
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: CHH11022802-10A
Client I.D. Number: GMW-36

Sampled: 02/24/11 13:09
Received: 02/26/11
Extracted: 03/02/11
Analyzed: 03/02/11

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		4.0	µg/L	46 Ethylbenzene	19	0.50	µg/L
3	Vinyl chloride	ND		1.0	µg/L	47 m,p-Xylene	130	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 Styrene	ND	1.0	µg/L
6	Trichlorofluoromethane	ND		10	µg/L	50 o-Xylene	58	0.50	µg/L
7	Acetone	ND		20	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	4.0	µg/L
9	Tertiary Butyl Alcohol (TBA)	2,200	*	20	µg/L	53 Isopropylbenzene	1.2	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	3.5	1.0	µg/L
12	Carbon disulfide	ND		5.0	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)	2.5		0.50	µg/L	58 1,3,5-Trimethylbenzene	32	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		100	µg/L	60 1,2,4-Trimethylbenzene	58	1.0	µg/L
17	2-Butanone (MEK)	ND		20	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	6.0	µg/L
24	1,2-Dichloroethane	ND		1.0	µg/L	68 1,2,4-Trichlorobenzene	ND	4.0	µg/L
25	1,1,1-Trichloroethane	ND		1.0	µg/L	69 Naphthalene	26	10	µg/L
26	1,1-Dichloropropene	ND		1.0	µg/L	70 1,2,3-Trichlorobenzene	ND	4.0	µg/L
27	Carbon tetrachloride	ND		1.0	µg/L	71 Surr: 1,2-Dichloroethane-d4	97	(70-130)	%REC
28	Benzene	110		0.50	µg/L	72 Surr: Toluene-d8	104	(70-130)	%REC
29	Tertiary Amyl Methyl Ether (TAME)	ND		1.0	µg/L	73 Surr: 4-Bromofluorobenzene	95	(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		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	77		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				

*This analyte was analyzed separately on 3/3/11 in order to achieve lower reporting limits for the other analytes.

Some 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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3/8/11
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 DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH11022802-11A
Client I.D. Number: EB-1

Sampled: 02/24/11 13:45
Received: 02/26/11
Extracted: 03/02/11
Analyzed: 03/02/11

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	102	(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	96	(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) 736-7522 / 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.

3/8/11
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: CHH11022802 **Job:** KMEP DFSP Norwalk

Alpha's Sample ID	Client's Sample ID	Matrix	pH
11022802-01A	TB-1	Aqueous	2
11022802-02A	GMW-O-19	Aqueous	2
11022802-03A	GMW-O-16	Aqueous	2
11022802-04A	GMW-6	Aqueous	2
11022802-05A	DUP-2	Aqueous	2
11022802-06A	GMW-O-18	Aqueous	2
11022802-07A	DUP-1	Aqueous	2
11022802-08A	PZ-5	Aqueous	5
11022802-09A	GMW-O-15	Aqueous	2
11022802-10A	GMW-36	Aqueous	2
11022802-11A	EB-1	Aqueous	2

3/8/11

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: *08-Mar-11*

QC Summary Report

Work Order: 11022802

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015B/C Ext**

File ID: **1A02221155.D** Batch ID: **26094** Analysis Date: **03/03/2011 11:27**

Sample ID: **MBLK-26094** Units : **mg/L** Run ID: **FID_1_110303A** Prep Date: **03/03/2011 08:51**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (Fuel Product)	ND	0.1								
Surr: Nonane	0.176		0.15		117	49	145			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015B/C Ext**

File ID: **1A02221156.D** Batch ID: **26094** Analysis Date: **03/03/2011 11:52**

Sample ID: **LCS-26094** Units : **mg/L** Run ID: **FID_1_110303A** Prep Date: **03/03/2011 08:51**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.51	0.05	2.5		100	70	130			
Surr: Nonane	0.173		0.15		115	49	145			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8015B/C Ext**

File ID: **1A02221158.D** Batch ID: **26094** Analysis Date: **03/03/2011 12:43**

Sample ID: **11030249-01AMS** Units : **mg/L** Run ID: **FID_1_110303A** Prep Date: **03/03/2011 08:51**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.64	0.05	2.5	0	106	53	150			
Surr: Nonane	0.17		0.15		113	49	145			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8015B/C Ext**

File ID: **1A02221159.D** Batch ID: **26094** Analysis Date: **03/03/2011 13:08**

Sample ID: **11030249-01AMSD** Units : **mg/L** Run ID: **FID_1_110303A** Prep Date: **03/03/2011 08:51**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.44	0.05	2.5	0	98	53	150	2.642	8.0(47)	
Surr: Nonane	0.182		0.15		121	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: *08-Mar-11*

QC Summary Report

Work Order: 11022802

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015B/C**

File ID: **11030207.D** Batch ID: **MS15W0302B** Analysis Date: **03/02/2011 09:50**

Sample ID: **MBLK MS15W0302B** Units : **mg/L** Run ID: **MSD_15_110302A** Prep Date: **03/02/2011 09:50**

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	0.0104		0.01		104	70	130			
Surr: Toluene-d8	0.0102		0.01		102	70	130			
Surr: 4-Bromofluorobenzene	0.00947		0.01		95	70	130			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015B/C**

File ID: **11030204.D** Batch ID: **MS15W0302B** Analysis Date: **03/02/2011 08:35**

Sample ID: **GLCS MS15W0302B** Units : **mg/L** Run ID: **MSD_15_110302A** Prep Date: **03/02/2011 08:35**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.431	0.05	0.4		108	70	130			
Surr: 1,2-Dichloroethane-d4	0.011		0.01		110	70	130			
Surr: Toluene-d8	0.00983		0.01		98	70	130			
Surr: 4-Bromofluorobenzene	0.00939		0.01		94	70	130			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8015B/C**

File ID: **11030210.D** Batch ID: **MS15W0302B** Analysis Date: **03/02/2011 10:55**

Sample ID: **11022802-02AGS** Units : **mg/L** Run ID: **MSD_15_110302A** Prep Date: **03/02/2011 10:55**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.73	0.25	2	0	87	51	144			
Surr: 1,2-Dichloroethane-d4	0.0512		0.05		102	70	130			
Surr: Toluene-d8	0.053		0.05		106	70	130			
Surr: 4-Bromofluorobenzene	0.0485		0.05		97	70	130			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8015B/C**

File ID: **11030211.D** Batch ID: **MS15W0302B** Analysis Date: **03/02/2011 11:17**

Sample ID: **11022802-02AGSD** Units : **mg/L** Run ID: **MSD_15_110302A** Prep Date: **03/02/2011 11:17**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.9	0.25	2	0	95	51	144	1.733	9.1(29)	
Surr: 1,2-Dichloroethane-d4	0.052		0.05		104	70	130			
Surr: Toluene-d8	0.0526		0.05		105	70	130			
Surr: 4-Bromofluorobenzene	0.0473		0.05		95	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.

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Date: *08-Mar-11*

QC Summary Report

Work Order: 11022802

Method Blank Type **MBLK** Test Code: **EPA Method SW8260B**

File ID: **11030207.D** Batch ID: **MS15W0302A** Analysis Date: **03/02/2011 09:50**

Sample ID: **MBLK MS15W0302A** Units : **µg/L** Run ID: **MSD_15_110302A** Prep Date: **03/02/2011 09:50**

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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Date: *08-Mar-11*

QC Summary Report

Work Order: 11022802

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	10.4		10		104	70	130			
Surr: Toluene-d8	10.2		10		102	70	130			
Surr: 4-Bromofluorobenzene	9.47		10		95	70	130			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8260B**

File ID: **11030203.D** Batch ID: **MS15W0302A** Analysis Date: **03/02/2011 08:13**

Sample ID: **LCS MS15W0302A** Units : **µg/L** Run ID: **MSD_15_110302A** Prep Date: **03/02/2011 08:13**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	10.5	1	10		105	80	120			
Methyl tert-butyl ether (MTBE)	8.94	0.5	10		89	65	140			
Benzene	9.41	0.5	10		94	70	130			
Trichloroethene	10.3	1	10		103	65	144			
Toluene	9.78	0.5	10		98	80	120			
Chlorobenzene	9.82	1	10		98	70	130			
Ethylbenzene	10.1	0.5	10		101	80	120			
m,p-Xylene	10.2	0.5	10		102	70	130			
o-Xylene	10.3	0.5	10		103	70	130			
Surr: 1,2-Dichloroethane-d4	10.5		10		105	70	130			
Surr: Toluene-d8	9.8		10		98	70	130			
Surr: 4-Bromofluorobenzene	9.64		10		96	70	130			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8260B**

File ID: **11030208.D** Batch ID: **MS15W0302A** Analysis Date: **03/02/2011 10:12**

Sample ID: **11022802-02AMS** Units : **µg/L** Run ID: **MSD_15_110302A** Prep Date: **03/02/2011 10:12**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	47.6	2.5	50	0	95	64	130			
Methyl tert-butyl ether (MTBE)	48.5	1.3	50	0	97	47	150			
Benzene	44.3	1.3	50	0	89	59	138			
Trichloroethene	47.6	2.5	50	0	95	65	144			
Toluene	48.3	1.3	50	0	97	68	130			
Chlorobenzene	46.7	2.5	50	0	93	70	130			
Ethylbenzene	46.7	1.3	50	0	93	68	130			
m,p-Xylene	47.3	1.3	50	0	95	68	131			
o-Xylene	47.6	1.3	50	0	95	70	130			
Surr: 1,2-Dichloroethane-d4	53.2		50		106	70	130			
Surr: Toluene-d8	50.9		50		102	70	130			
Surr: 4-Bromofluorobenzene	45.8		50		92	70	130			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8260B**

File ID: **11030209.D** Batch ID: **MS15W0302A** Analysis Date: **03/02/2011 10:34**

Sample ID: **11022802-02AMSD** Units : **µg/L** Run ID: **MSD_15_110302A** Prep Date: **03/02/2011 10:34**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	49.1	2.5	50	0	98	64	130	47.6	3.1(21)	
Methyl tert-butyl ether (MTBE)	51.1	1.3	50	0	102	47	150	48.52	5.2(40)	
Benzene	45.8	1.3	50	0	92	59	138	44.33	3.2(21)	
Trichloroethene	49	2.5	50	0	98	65	144	47.61	2.8(20)	
Toluene	47.5	1.3	50	0	95	68	130	48.34	1.8(20)	
Chlorobenzene	48.1	2.5	50	0	96	70	130	46.7	2.9(20)	
Ethylbenzene	48.6	1.3	50	0	97	68	130	46.7	3.9(20)	
m,p-Xylene	49.8	1.3	50	0	100	68	131	47.29	5.1(20)	
o-Xylene	51.1	1.3	50	0	102	70	130	47.64	7.1(20)	
Surr: 1,2-Dichloroethane-d4	52.2		50		104	70	130			
Surr: Toluene-d8	48.9		50		98	70	130			
Surr: 4-Bromofluorobenzene	47.1		50		94	70	130			

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

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Date: *08-Mar-11*

QC Summary Report

Work Order: 11022802

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

CA

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : CHHL11022802

Report Due By : 5:00 PM On : 08-Mar-2011

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
Vladimir Carino	(213) 228-8271 x	vladimir.carino@ch2m.com

EDD Required : **Yes**

Sampled by : T. Rhymes

PO :

Client's COC # : none Job : KMEP DFSP Norwalk

Cooler Temp	Samples Received	Date Printed
0 °C	26-Feb-2011	**28-Feb-2011**

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 TPH/E_W	TPH/P_W	VOC_W						Sample Remarks
CHH11022802-01A	TB-1	AQ	02/24/11 07:00	2	0	6			TPHE(0.10) +Vinyl acetate						2 Reno Trip Blanks: (1) 11/2/10 (1) 10/26/10
CHH11022802-02A	GMW-O-19	AQ	02/24/11 08:01	6	0	6	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate						
CHH11022802-03A	GMW-O-16	AQ	02/24/11 08:45	6	0	6	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate						
CHH11022802-04A	GMW-6	AQ	02/24/11 09:37	6	0	6	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate						
CHH11022802-05A	DUP-2	AQ	02/24/11 00:00	3	0	6			TPHE(0.10) +Vinyl acetate						
CHH11022802-06A	GMW-O-18	AQ	02/24/11 10:21	6	0	6	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate						
CHH11022802-07A	DUP-1	AQ	02/24/11 00:00	6	0	6	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate						
CHH11022802-08A	PZ-5	AQ	02/24/11 11:04	6	0	6	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate						

Comments: Security seals intact. Frozen ice. Saturday delivery. Samples received 2/26/11 kept cold and secure until login on 2/28/11. Analysts: 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
Logged in by:	Elizabeth Adcox	Elizabeth Adcox	**Alpha Analytical, Inc.**	2-28-11 10:02

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 : CHHL11022802

Report Due By : 5:00 PM On : 08-Mar-2011

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
Vladimir Carino	(213) 228-8271 x	vladimir.carino@ch2m.com

EDD Required : **Yes**

Sampled by : T. Rhymes

PO :

Client's COC # : none Job : KMEP DFSP Norwalk

Cooler Temp	Samples Received	Date Printed
0 °C	26-Feb-2011	28-Feb-2011

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 TPH/E_W	TPH/P_W	VOC_W						Sample Remarks
CHH11022802-09A	GMW-O-15	AQ	02/24/11 12:08	6	0	6	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate						
CHH11022802-10A	GMW-36	AQ	02/24/11 13:09	6	0	6	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate						
CHH11022802-11A	EB-1	AQ	02/24/11 13:45	6	0	6	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate						

Comments: Security seals intact. Frozen ice. Saturday delivery. Samples received 2/26/11 kept cold and secure until login on 2/28/11. Analysts: 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
Logged in by:	Elizabeth Adcox	Elizabeth Adcox	Alpha Analytical, Inc.	2-28-11 10:02

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

CONDUCT ANALYSIS TO DETECT

LAB: Alpha Analytical COC 1 of 2

Billing Information:
Kinder Morgan
1100 Town and CountryRd.
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	CONTAINERS #	Preservation	Type	TPHg, TPHfp (EPA 8015M)	VOC's & Oxygenates (EPA 8260B)	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
TB-1	2/24/11	0700	AQ	2	HCl	VOA		X				CHH110228Z-01
GMW-9-19		0801		6	HCl	VOA	X	X				-02
GMW-9-16		0945		6	HCl	VOA	X	X				-03
GMW-6		0931		6	HCl	VOA	X	X				-04
DUP-2		—		3	HCl	VOA		X				-05
GMW-9-18		1021		6	HCl	VOA	X	X				-06
DUP-1		—		6	HCl	VOA	X	X				-07
P2-5		1104		6	HCl	VOA	X	X				-08
GMW-9-15		1208		6	HCl	VOA	X	X				-09
GMW-36	↓	1309	↓	6	HCl	VOA	X	X				-10

SAMPLING COMPLETED: DATE 2/24/11 TIME 1400

SAMPLING PERFORMED BY: T.RHYMES

RESULTS NEEDED NO LATER THAN: Standard

RELEASED BY	TIME	RECEIVED BY	DATE	TIME
TRH	1500	TRH	2/24/11	1500
(Sample Custody)	1045		3/25/11	1045
	1045	Elizabeth Adcox	2-28-11	10:02

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

LAB: Alpha Analytical COC 2 of 2

Billing Information:
Kinder Morgan
1100 Town and CountryRd.
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	CONTAINERS #	Preservation	Type	TPHg, TPHfp (EPA 8015M)	VOC's & Oxygenates (EPA 8260B)	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
EB-1	2/24/11	1345	AQ	6	HCl	VOA	X	X				11

SAMPLING COMPLETED: DATE 2/24/11 TIME 1400

SAMPLING PERFORMED BY: T RHYMES

RESULTS NEEDED NO LATER THAN: Standard

RELEASED BY	TIME	RECEIVED BY	DATE	TIME
TRH	1500	TRH	2/24/11	1500
e (Sample Custody)	1045		2/25/11	1045
	1045	Elizabeth Ad Cox	2-28-11	10:02

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 : 03/25/11

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 :	**GMW-O-15**						
Lab ID :	CHH11032502-01A	TPH-E (Fuel Product)	4.3	**	0.10 mg/L	03/29/11	03/29/11
Date Sampled	03/23/11 10:06	Surr: Nonane	132		(49-145) %REC	03/29/11	03/29/11
		TPH-P (GRO)	2.4		0.20 mg/L	03/29/11	03/29/11
		Surr: 1,2-Dichloroethane-d4	95		(70-130) %REC	03/29/11	03/29/11
		Surr: Toluene-d8	100		(70-130) %REC	03/29/11	03/29/11
		Surr: 4-Bromofluorobenzene	98		(70-130) %REC	03/29/11	03/29/11
Client ID :	**GMW-O-16**						
Lab ID :	CHH11032502-02A	TPH-E (Fuel Product)	0.10	**	0.10 mg/L	03/29/11	03/29/11
Date Sampled	03/23/11 09:28	Surr: Nonane	114		(49-145) %REC	03/29/11	03/29/11
		TPH-P (GRO)	ND		0.050 mg/L	03/29/11	03/29/11
		Surr: 1,2-Dichloroethane-d4	99		(70-130) %REC	03/29/11	03/29/11
		Surr: Toluene-d8	103		(70-130) %REC	03/29/11	03/29/11
		Surr: 4-Bromofluorobenzene	100		(70-130) %REC	03/29/11	03/29/11
Client ID :	**GMW-O-18**						
Lab ID :	CHH11032502-03A	TPH-E (Fuel Product)	0.23	**	0.10 mg/L	03/29/11	03/29/11
Date Sampled	03/23/11 11:24	Surr: Nonane	115		(49-145) %REC	03/29/11	03/29/11
		TPH-P (GRO)	0.11		0.050 mg/L	03/29/11	03/29/11
		Surr: 1,2-Dichloroethane-d4	97		(70-130) %REC	03/29/11	03/29/11
		Surr: Toluene-d8	103		(70-130) %REC	03/29/11	03/29/11
		Surr: 4-Bromofluorobenzene	96		(70-130) %REC	03/29/11	03/29/11
Client ID :	**GMW-O-19**						
Lab ID :	CHH11032502-04A	TPH-E (Fuel Product)	ND		0.10 mg/L	03/29/11	03/29/11
Date Sampled	03/23/11 08:47	Surr: Nonane	110		(49-145) %REC	03/29/11	03/29/11
		TPH-P (GRO)	ND		0.050 mg/L	03/31/11	03/31/11
		Surr: 1,2-Dichloroethane-d4	100		(70-130) %REC	03/31/11	03/31/11
		Surr: Toluene-d8	103		(70-130) %REC	03/31/11	03/31/11
		Surr: 4-Bromofluorobenzene	99		(70-130) %REC	03/31/11	03/31/11
Client ID :	**GMW-36**						
Lab ID :	CHH11032502-05A	TPH-E (Fuel Product)	2.9	**	0.10 mg/L	03/29/11	03/29/11
Date Sampled	03/23/11 10:45	Surr: Nonane	117		(49-145) %REC	03/29/11	03/29/11
		TPH-P (GRO)	3.2		0.30 mg/L	03/29/11	03/29/11
		Surr: 1,2-Dichloroethane-d4	97		(70-130) %REC	03/29/11	03/29/11
		Surr: Toluene-d8	101		(70-130) %REC	03/29/11	03/29/11
		Surr: 4-Bromofluorobenzene	98		(70-130) %REC	03/29/11	03/29/11
Client ID :	**PZ-5**						
Lab ID :	CHH11032502-06A	TPH-E (Fuel Product)	0.82	**	0.10 mg/L	03/29/11	03/29/11
Date Sampled	03/23/11 12:15	Surr: Nonane	113		(49-145) %REC	03/29/11	03/29/11
		TPH-P (GRO)	1.1		0.20 mg/L	03/29/11	03/29/11
		Surr: 1,2-Dichloroethane-d4	96		(70-130) %REC	03/29/11	03/29/11
		Surr: Toluene-d8	101		(70-130) %REC	03/29/11	03/29/11
		Surr: 4-Bromofluorobenzene	99		(70-130) %REC	03/29/11	03/29/11

Alpha Analytical, Inc.

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Client ID :	**DUP-1**						
Lab ID :	CHH11032502-07A	TPH-E (Fuel Product)	0.82	**	0.10 mg/L	03/29/11	03/30/11
Date Sampled	03/23/11 00:00	Surr: Nonane	114		(49-145) %REC	03/29/11	03/30/11
		TPH-P (GRO)	1.1		0.20 mg/L	03/29/11	03/29/11
		Surr: 1,2-Dichloroethane-d4	96		(70-130) %REC	03/29/11	03/29/11
		Surr: Toluene-d8	104		(70-130) %REC	03/29/11	03/29/11
		Surr: 4-Bromofluorobenzene	99		(70-130) %REC	03/29/11	03/29/11
Client ID :	**EB-1**						
Lab ID :	CHH11032502-08A	TPH-E (Fuel Product)	ND		0.10 mg/L	03/29/11	03/30/11
Date Sampled	03/23/11 09:38	Surr: Nonane	115		(49-145) %REC	03/29/11	03/30/11
		TPH-P (GRO)	ND		0.050 mg/L	03/29/11	03/29/11
		Surr: 1,2-Dichloroethane-d4	96		(70-130) %REC	03/29/11	03/29/11
		Surr: Toluene-d8	103		(70-130) %REC	03/29/11	03/29/11
		Surr: 4-Bromofluorobenzene	103		(70-130) %REC	03/29/11	03/29/11

**Note: Reported TPH-E (Fuel Product) may contain undifferentiated diesel range hydrocarbons.

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) 736-7522 / 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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4/8/11

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: CHH11032502-01A
Client I.D. Number: GMW-O-15

Sampled: 03/23/11 10:06
Received: 03/25/11
Extracted: 03/29/11
Analyzed: 03/29/11

Volatile Organics by GC/MS
EPA Method SW8260B

	Compound	Concentration	Reporting Limit	
1	Dichlorodifluoromethane	ND	2.0	µg/L
2	Chloromethane	ND	8.0	µg/L
3	Vinyl chloride	ND	2.0	µg/L
4	Chloroethane	ND	2.0	µg/L
5	Bromomethane	ND	8.0	µg/L
6	Trichlorofluoromethane	ND	10	µg/L
7	Acetone	ND	40	µg/L
8	1,1-Dichloroethene	ND	2.0	µg/L
9	Tertiary Butyl Alcohol (TBA)	3,600	20	µg/L
10	Dichloromethane	ND	8.0	µg/L
11	Freon-113	ND	10	µg/L
12	Carbon disulfide	ND	10	µg/L
13	trans-1,2-Dichloroethene	ND	2.0	µg/L
14	Methyl tert-butyl ether (MTBE)	310	1.0	µg/L
15	1,1-Dichloroethane	ND	2.0	µg/L
16	Vinyl acetate	ND	200	µg/L
17	2-Butanone (MEK)	ND	40	µg/L
18	Di-isopropyl Ether (DIPE)	ND	2.0	µg/L
19	cis-1,2-Dichloroethene	ND	2.0	µg/L
20	Bromochloromethane	ND	2.0	µg/L
21	Chloroform	ND	2.0	µg/L
22	Ethyl Tertiary Butyl Ether (ETBE)	ND	2.0	µg/L
23	2,2-Dichloropropane	ND	2.0	µg/L
24	1,2-Dichloroethane	ND	2.0	µg/L
25	1,1,1-Trichloroethane	ND	2.0	µg/L
26	1,1-Dichloropropene	ND	2.0	µg/L
27	Carbon tetrachloride	ND	2.0	µg/L
28	Benzene	210	1.0	µg/L
29	Tertiary Amyl Methyl Ether (TAME)	5.2	2.0	µg/L
30	Dibromomethane	ND	2.0	µg/L
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	47	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
45	Chlorobenzene	ND	2.0	µg/L
46	Ethylbenzene	39	1.0	µg/L
47	m,p-Xylene	190	1.0	µg/L
48	Bromoform	ND	2.0	µg/L
49	Styrene	ND	2.0	µg/L
50	o-Xylene	60	1.0	µg/L
51	1,1,2,2-Tetrachloroethane	ND	2.0	µg/L
52	1,2,3-Trichloropropane	ND	8.0	µg/L
53	Isopropylbenzene	2.8	2.0	µg/L
54	Bromobenzene	ND	2.0	µg/L
55	n-Propylbenzene	10	2.0	µg/L
56	4-Chlorotoluene	ND	2.0	µg/L
57	2-Chlorotoluene	ND	2.0	µg/L
58	1,3,5-Trimethylbenzene	36	2.0	µg/L
59	tert-Butylbenzene	ND	2.0	µg/L
60	1,2,4-Trimethylbenzene	98	2.0	µg/L
61	sec-Butylbenzene	3.0	2.0	µg/L
62	1,3-Dichlorobenzene	ND	2.0	µg/L
63	1,4-Dichlorobenzene	ND	2.0	µg/L
64	4-Isopropyltoluene	ND	2.0	µg/L
65	1,2-Dichlorobenzene	ND	2.0	µg/L
66	n-Butylbenzene	4.0	2.0	µg/L
67	1,2-Dibromo-3-chloropropane (DBCP)	ND	12	µg/L
68	1,2,4-Trichlorobenzene	ND	8.0	µg/L
69	Naphthalene	28	10	µg/L
70	1,2,3-Trichlorobenzene	ND	8.0	µg/L
71	Surr: 1,2-Dichloroethane-d4	95	(70-130)	%REC
72	Surr: Toluene-d8	100	(70-130)	%REC
73	Surr: 4-Bromofluorobenzene	98	(70-130)	%REC

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) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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4/8/11
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 DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH11032502-02A
Client I.D. Number: GMW-O-16

Sampled: 03/23/11 09:28
Received: 03/25/11
Extracted: 03/29/11
Analyzed: 03/29/11

Volatile Organics by GC/MS
EPA Method SW8260B

	Compound	Concentration	Reporting Limit	
1	Dichlorodifluoromethane	ND	1.0	µg/L
2	Chloromethane	ND	2.0	µg/L
3	Vinyl chloride	ND	0.50	µg/L
4	Chloroethane	ND	1.0	µg/L
5	Bromomethane	ND	2.0	µg/L
6	Trichlorofluoromethane	ND	10	µg/L
7	Acetone	ND	10	µg/L
8	1,1-Dichloroethene	ND	1.0	µg/L
9	Tertiary Butyl Alcohol (TBA)	ND	10	µg/L
10	Dichloromethane	ND	5.0	µg/L
11	Freon-113	ND	10	µg/L
12	Carbon disulfide	ND	2.5	µg/L
13	trans-1,2-Dichloroethene	ND	1.0	µg/L
14	Methyl tert-butyl ether (MTBE)	1.6	0.50	µg/L
15	1,1-Dichloroethane	ND	1.0	µg/L
16	Vinyl acetate	ND	50	µg/L
17	2-Butanone (MEK)	ND	10	µg/L
18	Di-isopropyl Ether (DIPE)	ND	1.0	µg/L
19	cis-1,2-Dichloroethene	ND	1.0	µg/L
20	Bromochloromethane	ND	1.0	µg/L
21	Chloroform	ND	1.0	µg/L
22	Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0	µg/L
23	2,2-Dichloropropane	ND	1.0	µg/L
24	1,2-Dichloroethane	ND	0.50	µg/L
25	1,1,1-Trichloroethane	ND	1.0	µg/L
26	1,1-Dichloropropene	ND	1.0	µg/L
27	Carbon tetrachloride	ND	1.0	µg/L
28	Benzene	ND	0.50	µg/L
29	Tertiary Amyl Methyl Ether (TAME)	ND	1.0	µg/L
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
45	Chlorobenzene	ND	1.0	µg/L
46	Ethylbenzene	ND	0.50	µg/L
47	m,p-Xylene	ND	0.50	µg/L
48	Bromoform	ND	1.0	µg/L
49	Styrene	ND	1.0	µg/L
50	o-Xylene	ND	0.50	µg/L
51	1,1,2,2-Tetrachloroethane	ND	1.0	µg/L
52	1,2,3-Trichloropropane	ND	2.0	µg/L
53	Isopropylbenzene	ND	1.0	µg/L
54	Bromobenzene	ND	1.0	µg/L
55	n-Propylbenzene	ND	1.0	µg/L
56	4-Chlorotoluene	ND	1.0	µg/L
57	2-Chlorotoluene	ND	1.0	µg/L
58	1,3,5-Trimethylbenzene	ND	1.0	µg/L
59	tert-Butylbenzene	ND	1.0	µg/L
60	1,2,4-Trimethylbenzene	ND	1.0	µg/L
61	sec-Butylbenzene	ND	1.0	µg/L
62	1,3-Dichlorobenzene	ND	1.0	µg/L
63	1,4-Dichlorobenzene	ND	1.0	µg/L
64	4-Isopropyltoluene	ND	1.0	µg/L
65	1,2-Dichlorobenzene	ND	1.0	µg/L
66	n-Butylbenzene	ND	1.0	µg/L
67	1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L
68	1,2,4-Trichlorobenzene	ND	2.0	µg/L
69	Naphthalene	ND	10	µg/L
70	1,2,3-Trichlorobenzene	ND	2.0	µg/L
71	Surr: 1,2-Dichloroethane-d4	99	(70-130)	%REC
72	Surr: Toluene-d8	103	(70-130)	%REC
73	Surr: 4-Bromofluorobenzene	100	(70-130)	%REC

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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4/8/11
Report Date

Alpha Analytical, Inc.

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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: CHH11032502-03A
Client I.D. Number: GMW-O-18

Sampled: 03/23/11 11:24
Received: 03/25/11
Extracted: 03/29/11
Analyzed: 03/29/11

Volatile Organics by GC/MS
EPA Method SW8260B

	Compound	Concentration		Reporting Limit	
1	Dichlorodifluoromethane	ND		1.0	µg/L
2	Chloromethane	ND		2.0	µg/L
3	Vinyl chloride	ND		0.50	µg/L
4	Chloroethane	ND		1.0	µg/L
5	Bromomethane	ND		2.0	µg/L
6	Trichlorofluoromethane	ND		10	µg/L
7	Acetone	ND		10	µg/L
8	1,1-Dichloroethene	ND		1.0	µg/L
9	Tertiary Butyl Alcohol (TBA)	3,300	*	10	µg/L
10	Dichloromethane	ND		5.0	µg/L
11	Freon-113	ND		10	µg/L
12	Carbon disulfide	ND		2.5	µg/L
13	trans-1,2-Dichloroethene	ND		1.0	µg/L
14	Methyl tert-butyl ether (MTBE)	2.9		0.50	µg/L
15	1,1-Dichloroethane	ND		1.0	µg/L
16	Vinyl acetate	ND		50	µg/L
17	2-Butanone (MEK)	ND		10	µg/L
18	Di-isopropyl Ether (DIPE)	ND		1.0	µg/L
19	cis-1,2-Dichloroethene	ND		1.0	µg/L
20	Bromochloromethane	ND		1.0	µg/L
21	Chloroform	ND		1.0	µg/L
22	Ethyl Tertiary Butyl Ether (ETBE)	ND		1.0	µg/L
23	2,2-Dichloropropane	ND		1.0	µg/L
24	1,2-Dichloroethane	ND		0.50	µg/L
25	1,1,1-Trichloroethane	ND		1.0	µg/L
26	1,1-Dichloropropene	ND		1.0	µg/L
27	Carbon tetrachloride	ND		1.0	µg/L
28	Benzene	6.0		0.50	µg/L
29	Tertiary Amyl Methyl Ether (TAME)	ND		1.0	µg/L
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	1.4		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
45	Chlorobenzene	ND		1.0	µg/L
46	Ethylbenzene	1.1		0.50	µg/L
47	m,p-Xylene	6.3		0.50	µg/L
48	Bromoform	ND		1.0	µg/L
49	Styrene	ND		1.0	µg/L
50	o-Xylene	1.8		0.50	µg/L
51	1,1,2,2-Tetrachloroethane	ND		1.0	µg/L
52	1,2,3-Trichloropropane	ND		2.0	µg/L
53	Isopropylbenzene	ND		1.0	µg/L
54	Bromobenzene	ND		1.0	µg/L
55	n-Propylbenzene	ND		1.0	µg/L
56	4-Chlorotoluene	ND		1.0	µg/L
57	2-Chlorotoluene	ND		1.0	µg/L
58	1,3,5-Trimethylbenzene	1.2		1.0	µg/L
59	tert-Butylbenzene	ND		1.0	µg/L
60	1,2,4-Trimethylbenzene	2.6		1.0	µg/L
61	sec-Butylbenzene	ND		1.0	µg/L
62	1,3-Dichlorobenzene	ND		1.0	µg/L
63	1,4-Dichlorobenzene	ND		1.0	µg/L
64	4-Isopropyltoluene	ND		1.0	µg/L
65	1,2-Dichlorobenzene	ND		1.0	µg/L
66	n-Butylbenzene	ND		1.0	µg/L
67	1,2-Dibromo-3-chloropropane (DBCP)	ND		5.0	µg/L
68	1,2,4-Trichlorobenzene	ND		2.0	µg/L
69	Naphthalene	ND		10	µg/L
70	1,2,3-Trichlorobenzene	ND		2.0	µg/L
71	Surr: 1,2-Dichloroethane-d4	97		(70-130)	%REC
72	Surr: Toluene-d8	103		(70-130)	%REC
73	Surr: 4-Bromofluorobenzene	96		(70-130)	%REC

*This compound exceeded the instrument's calibration range and is an estimated value.

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) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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4/8/11
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: CHH11032502-04A
Client I.D. Number: GMW-O-19

Sampled: 03/23/11 08:47
Received: 03/25/11
Extracted: 03/31/11
Analyzed: 03/31/11

Volatile Organics by GC/MS
EPA Method SW8260B

	Compound	Concentration	Reporting Limit	
1	Dichlorodifluoromethane	ND	1.0	µg/L
2	Chloromethane	ND	2.0	µg/L
3	Vinyl chloride	ND	0.50	µg/L
4	Chloroethane	ND	1.0	µg/L
5	Bromomethane	ND	2.0	µg/L
6	Trichlorofluoromethane	ND	10	µg/L
7	Acetone	ND	10	µg/L
8	1,1-Dichloroethene	ND	1.0	µg/L
9	Tertiary Butyl Alcohol (TBA)	ND	10	µg/L
10	Dichloromethane	ND	5.0	µg/L
11	Freon-113	ND	10	µg/L
12	Carbon disulfide	ND	2.5	µg/L
13	trans-1,2-Dichloroethene	ND	1.0	µg/L
14	Methyl tert-butyl ether (MTBE)	ND	0.50	µg/L
15	1,1-Dichloroethane	ND	1.0	µg/L
16	Vinyl acetate	ND	50	µg/L
17	2-Butanone (MEK)	ND	10	µg/L
18	Di-isopropyl Ether (DIPE)	ND	1.0	µg/L
19	cis-1,2-Dichloroethene	ND	1.0	µg/L
20	Bromochloromethane	ND	1.0	µg/L
21	Chloroform	ND	1.0	µg/L
22	Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0	µg/L
23	2,2-Dichloropropane	ND	1.0	µg/L
24	1,2-Dichloroethane	ND	0.50	µg/L
25	1,1,1-Trichloroethane	ND	1.0	µg/L
26	1,1-Dichloropropene	ND	1.0	µg/L
27	Carbon tetrachloride	ND	1.0	µg/L
28	Benzene	ND	0.50	µg/L
29	Tertiary Amyl Methyl Ether (TAME)	ND	1.0	µg/L
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
45	Chlorobenzene	ND	1.0	µg/L
46	Ethylbenzene	ND	0.50	µg/L
47	m,p-Xylene	ND	0.50	µg/L
48	Bromoform	ND	1.0	µg/L
49	Styrene	ND	1.0	µg/L
50	o-Xylene	ND	0.50	µg/L
51	1,1,2,2-Tetrachloroethane	ND	1.0	µg/L
52	1,2,3-Trichloropropane	ND	2.0	µg/L
53	Isopropylbenzene	ND	1.0	µg/L
54	Bromobenzene	ND	1.0	µg/L
55	n-Propylbenzene	ND	1.0	µg/L
56	4-Chlorotoluene	ND	1.0	µg/L
57	2-Chlorotoluene	ND	1.0	µg/L
58	1,3,5-Trimethylbenzene	ND	1.0	µg/L
59	tert-Butylbenzene	ND	1.0	µg/L
60	1,2,4-Trimethylbenzene	ND	1.0	µg/L
61	sec-Butylbenzene	ND	1.0	µg/L
62	1,3-Dichlorobenzene	ND	1.0	µg/L
63	1,4-Dichlorobenzene	ND	1.0	µg/L
64	4-Isopropyltoluene	ND	1.0	µg/L
65	1,2-Dichlorobenzene	ND	1.0	µg/L
66	n-Butylbenzene	ND	1.0	µg/L
67	1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L
68	1,2,4-Trichlorobenzene	ND	2.0	µg/L
69	Naphthalene	ND	10	µg/L
70	1,2,3-Trichlorobenzene	ND	2.0	µg/L
71	Surr: 1,2-Dichloroethane-d4	100	(70-130)	%REC
72	Surr: Toluene-d8	103	(70-130)	%REC
73	Surr: 4-Bromofluorobenzene	99	(70-130)	%REC

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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4/8/11
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: CHH11032502-05A
Client I.D. Number: GMW-36

Sampled: 03/23/11 10:45
Received: 03/25/11
Extracted: 03/29/11
Analyzed: 03/29/11

Volatile Organics by GC/MS
EPA Method SW8260B

	Compound	Concentration	Reporting Limit	
1	Dichlorodifluoromethane	ND	3.0	µg/L
2	Chloromethane	ND	12	µg/L
3	Vinyl chloride	ND	3.0	µg/L
4	Chloroethane	ND	3.0	µg/L
5	Bromomethane	ND	12	µg/L
6	Trichlorofluoromethane	ND	10	µg/L
7	Acetone	ND	60	µg/L
8	1,1-Dichloroethene	ND	3.0	µg/L
9	Tertiary Butyl Alcohol (TBA)	2,400	30	µg/L
10	Dichloromethane	ND	12	µg/L
11	Freon-113	ND	10	µg/L
12	Carbon disulfide	ND	15	µg/L
13	trans-1,2-Dichloroethene	ND	3.0	µg/L
14	Methyl tert-butyl ether (MTBE)	7.6	1.5	µg/L
15	1,1-Dichloroethane	ND	3.0	µg/L
16	Vinyl acetate	ND	300	µg/L
17	2-Butanone (MEK)	ND	60	µg/L
18	Di-isopropyl Ether (DIPE)	ND	3.0	µg/L
19	cis-1,2-Dichloroethene	ND	3.0	µg/L
20	Bromochloromethane	ND	3.0	µg/L
21	Chloroform	ND	3.0	µg/L
22	Ethyl Tertiary Butyl Ether (ETBE)	ND	3.0	µg/L
23	2,2-Dichloropropane	ND	3.0	µg/L
24	1,2-Dichloroethane	ND	3.0	µg/L
25	1,1,1-Trichloroethane	ND	3.0	µg/L
26	1,1-Dichloropropene	ND	3.0	µg/L
27	Carbon tetrachloride	ND	3.0	µg/L
28	Benzene	360	1.5	µg/L
29	Tertiary Amyl Methyl Ether (TAME)	ND	3.0	µg/L
30	Dibromomethane	ND	3.0	µg/L
31	1,2-Dichloropropane	ND	3.0	µg/L
32	Trichloroethene	ND	3.0	µg/L
33	Bromodichloromethane	ND	3.0	µg/L
34	4-Methyl-2-pentanone (MIBK)	ND	15	µg/L
35	cis-1,3-Dichloropropene	ND	3.0	µg/L
36	trans-1,3-Dichloropropene	ND	3.0	µg/L
37	1,1,2-Trichloroethane	ND	3.0	µg/L
38	Toluene	340	1.5	µg/L
39	1,3-Dichloropropane	ND	3.0	µg/L
40	2-Hexanone	ND	30	µg/L
41	Dibromochloromethane	ND	3.0	µg/L
42	1,2-Dibromoethane (EDB)	ND	6.0	µg/L
43	Tetrachloroethene	ND	3.0	µg/L
44	1,1,1,2-Tetrachloroethane	ND	3.0	µg/L
45	Chlorobenzene	ND	3.0	µg/L
46	Ethylbenzene	28	1.5	µg/L
47	m,p-Xylene	240	1.5	µg/L
48	Bromoform	ND	3.0	µg/L
49	Styrene	ND	3.0	µg/L
50	o-Xylene	120	1.5	µg/L
51	1,1,2,2-Tetrachloroethane	ND	3.0	µg/L
52	1,2,3-Trichloropropane	ND	12	µg/L
53	Isopropylbenzene	ND	3.0	µg/L
54	Bromobenzene	ND	3.0	µg/L
55	n-Propylbenzene	ND	3.0	µg/L
56	4-Chlorotoluene	ND	3.0	µg/L
57	2-Chlorotoluene	ND	3.0	µg/L
58	1,3,5-Trimethylbenzene	46	3.0	µg/L
59	tert-Butylbenzene	ND	3.0	µg/L
60	1,2,4-Trimethylbenzene	90	3.0	µg/L
61	sec-Butylbenzene	ND	3.0	µg/L
62	1,3-Dichlorobenzene	ND	3.0	µg/L
63	1,4-Dichlorobenzene	ND	3.0	µg/L
64	4-Isopropyltoluene	ND	3.0	µg/L
65	1,2-Dichlorobenzene	ND	3.0	µg/L
66	n-Butylbenzene	ND	3.0	µg/L
67	1,2-Dibromo-3-chloropropane (DBCP)	ND	18	µg/L
68	1,2,4-Trichlorobenzene	ND	12	µg/L
69	Naphthalene	49	12	µg/L
70	1,2,3-Trichlorobenzene	ND	12	µg/L
71	Surr: 1,2-Dichloroethane-d4	97	(70-130)	%REC
72	Surr: Toluene-d8	101	(70-130)	%REC
73	Surr: 4-Bromofluorobenzene	98	(70-130)	%REC

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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4/8/11
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: CHH11032502-06A
Client I.D. Number: PZ-5

Sampled: 03/23/11 12:15
Received: 03/25/11
Extracted: 03/29/11
Analyzed: 03/29/11

Volatile Organics by GC/MS
EPA Method SW8260B

	Compound	Concentration		Reporting Limit	
1	Dichlorodifluoromethane	ND		2.0	µg/L
2	Chloromethane	ND		8.0	µg/L
3	Vinyl chloride	ND		2.0	µg/L
4	Chloroethane	ND		2.0	µg/L
5	Bromomethane	ND		8.0	µg/L
6	Trichlorofluoromethane	ND		10	µg/L
7	Acetone	ND		40	µg/L
8	1,1-Dichloroethene	ND		2.0	µg/L
9	Tertiary Butyl Alcohol (TBA)	29,000	*	200	µg/L
10	Dichloromethane	ND		8.0	µg/L
11	Freon-113	ND		10	µg/L
12	Carbon disulfide	ND		10	µg/L
13	trans-1,2-Dichloroethene	ND		2.0	µg/L
14	Methyl tert-butyl ether (MTBE)	140		1.0	µg/L
15	1,1-Dichloroethane	ND		2.0	µg/L
16	Vinyl acetate	ND		200	µg/L
17	2-Butanone (MEK)	ND		40	µg/L
18	Di-isopropyl Ether (DIPE)	ND		2.0	µg/L
19	cis-1,2-Dichloroethene	ND		2.0	µg/L
20	Bromochloromethane	ND		2.0	µg/L
21	Chloroform	ND		2.0	µg/L
22	Ethyl Tertiary Butyl Ether (ETBE)	ND		2.0	µg/L
23	2,2-Dichloropropane	ND		2.0	µg/L
24	1,2-Dichloroethane	ND		2.0	µg/L
25	1,1,1-Trichloroethane	ND		2.0	µg/L
26	1,1-Dichloropropene	ND		2.0	µg/L
27	Carbon tetrachloride	ND		2.0	µg/L
28	Benzene	210		1.0	µg/L
29	Tertiary Amyl Methyl Ether (TAME)	ND		2.0	µg/L
30	Dibromomethane	ND		2.0	µg/L
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
45	Chlorobenzene	ND		2.0	µg/L
46	Ethylbenzene	ND		1.0	µg/L
47	m,p-Xylene	2.4		1.0	µg/L
48	Bromoform	ND		2.0	µg/L
49	Styrene	ND		2.0	µg/L
50	o-Xylene	ND		1.0	µg/L
51	1,1,2,2-Tetrachloroethane	ND		2.0	µg/L
52	1,2,3-Trichloropropane	ND		8.0	µg/L
53	Isopropylbenzene	ND		2.0	µg/L
54	Bromobenzene	ND		2.0	µg/L
55	n-Propylbenzene	ND		2.0	µg/L
56	4-Chlorotoluene	ND		2.0	µg/L
57	2-Chlorotoluene	ND		2.0	µg/L
58	1,3,5-Trimethylbenzene	ND		2.0	µg/L
59	tert-Butylbenzene	ND		2.0	µg/L
60	1,2,4-Trimethylbenzene	4.3		2.0	µg/L
61	sec-Butylbenzene	ND		2.0	µg/L
62	1,3-Dichlorobenzene	ND		2.0	µg/L
63	1,4-Dichlorobenzene	ND		2.0	µg/L
64	4-Isopropyltoluene	ND		2.0	µg/L
65	1,2-Dichlorobenzene	ND		2.0	µg/L
66	n-Butylbenzene	ND		2.0	µg/L
67	1,2-Dibromo-3-chloropropane (DBCP)	ND		12	µg/L
68	1,2,4-Trichlorobenzene	ND		8.0	µg/L
69	Naphthalene	ND		10	µg/L
70	1,2,3-Trichlorobenzene	ND		8.0	µg/L
71	Surr: 1,2-Dichloroethane-d4	96		(70-130)	%REC
72	Surr: Toluene-d8	101		(70-130)	%REC
73	Surr: 4-Bromofluorobenzene	99		(70-130)	%REC

*This analyte was analyzed separately in order to achieve lower reporting limits for the other analytes.

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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4/8/11
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 DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH11032502-07A
Client I.D. Number: DUP-1

Sampled: 03/23/11 00:00
Received: 03/25/11
Extracted: 03/29/11
Analyzed: 03/29/11

Volatile Organics by GC/MS
EPA Method SW8260B

	Compound	Concentration		Reporting Limit	
1	Dichlorodifluoromethane	ND		2.0	µg/L
2	Chloromethane	ND		8.0	µg/L
3	Vinyl chloride	ND		2.0	µg/L
4	Chloroethane	ND		2.0	µg/L
5	Bromomethane	ND		8.0	µg/L
6	Trichlorofluoromethane	ND		10	µg/L
7	Acetone	ND		40	µg/L
8	1,1-Dichloroethene	ND		2.0	µg/L
9	Tertiary Butyl Alcohol (TBA)	30,000	*	200	µg/L
10	Dichloromethane	ND		8.0	µg/L
11	Freon-113	ND		10	µg/L
12	Carbon disulfide	ND		10	µg/L
13	trans-1,2-Dichloroethene	ND		2.0	µg/L
14	Methyl tert-butyl ether (MTBE)	140		1.0	µg/L
15	1,1-Dichloroethane	ND		2.0	µg/L
16	Vinyl acetate	ND		200	µg/L
17	2-Butanone (MEK)	ND		40	µg/L
18	Di-isopropyl Ether (DIPE)	ND		2.0	µg/L
19	cis-1,2-Dichloroethene	ND		2.0	µg/L
20	Bromochloromethane	ND		2.0	µg/L
21	Chloroform	ND		2.0	µg/L
22	Ethyl Tertiary Butyl Ether (ETBE)	2.0		2.0	µg/L
23	2,2-Dichloropropane	ND		2.0	µg/L
24	1,2-Dichloroethane	ND		2.0	µg/L
25	1,1,1-Trichloroethane	ND		2.0	µg/L
26	1,1-Dichloropropene	ND		2.0	µg/L
27	Carbon tetrachloride	ND		2.0	µg/L
28	Benzene	220		1.0	µg/L
29	Tertiary Amyl Methyl Ether (TAME)	ND		2.0	µg/L
30	Dibromomethane	ND		2.0	µg/L
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
45	Chlorobenzene	ND		2.0	µg/L
46	Ethylbenzene	ND		1.0	µg/L
47	m,p-Xylene	2.2		1.0	µg/L
48	Bromoform	ND		2.0	µg/L
49	Styrene	ND		2.0	µg/L
50	o-Xylene	ND		1.0	µg/L
51	1,1,2,2-Tetrachloroethane	ND		2.0	µg/L
52	1,2,3-Trichloropropane	ND		8.0	µg/L
53	Isopropylbenzene	ND		2.0	µg/L
54	Bromobenzene	ND		2.0	µg/L
55	n-Propylbenzene	ND		2.0	µg/L
56	4-Chlorotoluene	ND		2.0	µg/L
57	2-Chlorotoluene	ND		2.0	µg/L
58	1,3,5-Trimethylbenzene	ND		2.0	µg/L
59	tert-Butylbenzene	ND		2.0	µg/L
60	1,2,4-Trimethylbenzene	4.1		2.0	µg/L
61	sec-Butylbenzene	ND		2.0	µg/L
62	1,3-Dichlorobenzene	ND		2.0	µg/L
63	1,4-Dichlorobenzene	ND		2.0	µg/L
64	4-Isopropyltoluene	ND		2.0	µg/L
65	1,2-Dichlorobenzene	ND		2.0	µg/L
66	n-Butylbenzene	ND		2.0	µg/L
67	1,2-Dibromo-3-chloropropane (DBCP)	ND		12	µg/L
68	1,2,4-Trichlorobenzene	ND		8.0	µg/L
69	Naphthalene	ND		10	µg/L
70	1,2,3-Trichlorobenzene	ND		8.0	µg/L
71	Surr: 1,2-Dichloroethane-d4	96		(70-130)	%REC
72	Surr: Toluene-d8	104		(70-130)	%REC
73	Surr: 4-Bromofluorobenzene	99		(70-130)	%REC

*This analyte was analyzed separately in order to achieve lower reporting limits for the other analytes.

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) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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4/8/11
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: CHH11032502-08A
Client I.D. Number: EB-1

Sampled: 03/23/11 09:38
Received: 03/25/11
Extracted: 03/29/11
Analyzed: 03/29/11

Volatile Organics by GC/MS
EPA Method SW8260B

	Compound	Concentration	Reporting Limit	
1	Dichlorodifluoromethane	ND	1.0	µg/L
2	Chloromethane	ND	2.0	µg/L
3	Vinyl chloride	ND	0.50	µg/L
4	Chloroethane	ND	1.0	µg/L
5	Bromomethane	ND	2.0	µg/L
6	Trichlorofluoromethane	ND	10	µg/L
7	Acetone	ND	10	µg/L
8	1,1-Dichloroethene	ND	1.0	µg/L
9	Tertiary Butyl Alcohol (TBA)	ND	10	µg/L
10	Dichloromethane	ND	5.0	µg/L
11	Freon-113	ND	10	µg/L
12	Carbon disulfide	ND	2.5	µg/L
13	trans-1,2-Dichloroethene	ND	1.0	µg/L
14	Methyl tert-butyl ether (MTBE)	ND	0.50	µg/L
15	1,1-Dichloroethane	ND	1.0	µg/L
16	Vinyl acetate	ND	50	µg/L
17	2-Butanone (MEK)	ND	10	µg/L
18	Di-isopropyl Ether (DIPE)	ND	1.0	µg/L
19	cis-1,2-Dichloroethene	ND	1.0	µg/L
20	Bromochloromethane	ND	1.0	µg/L
21	Chloroform	ND	1.0	µg/L
22	Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0	µg/L
23	2,2-Dichloropropane	ND	1.0	µg/L
24	1,2-Dichloroethane	ND	0.50	µg/L
25	1,1,1-Trichloroethane	ND	1.0	µg/L
26	1,1-Dichloropropene	ND	1.0	µg/L
27	Carbon tetrachloride	ND	1.0	µg/L
28	Benzene	ND	0.50	µg/L
29	Tertiary Amyl Methyl Ether (TAME)	ND	1.0	µg/L
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
45	Chlorobenzene	ND	1.0	µg/L
46	Ethylbenzene	ND	0.50	µg/L
47	m,p-Xylene	ND	0.50	µg/L
48	Bromoform	ND	1.0	µg/L
49	Styrene	ND	1.0	µg/L
50	o-Xylene	ND	0.50	µg/L
51	1,1,2,2-Tetrachloroethane	ND	1.0	µg/L
52	1,2,3-Trichloropropane	ND	2.0	µg/L
53	Isopropylbenzene	ND	1.0	µg/L
54	Bromobenzene	ND	1.0	µg/L
55	n-Propylbenzene	ND	1.0	µg/L
56	4-Chlorotoluene	ND	1.0	µg/L
57	2-Chlorotoluene	ND	1.0	µg/L
58	1,3,5-Trimethylbenzene	ND	1.0	µg/L
59	tert-Butylbenzene	ND	1.0	µg/L
60	1,2,4-Trimethylbenzene	ND	1.0	µg/L
61	sec-Butylbenzene	ND	1.0	µg/L
62	1,3-Dichlorobenzene	ND	1.0	µg/L
63	1,4-Dichlorobenzene	ND	1.0	µg/L
64	4-Isopropyltoluene	ND	1.0	µg/L
65	1,2-Dichlorobenzene	ND	1.0	µg/L
66	n-Butylbenzene	ND	1.0	µg/L
67	1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L
68	1,2,4-Trichlorobenzene	ND	2.0	µg/L
69	Naphthalene	ND	10	µg/L
70	1,2,3-Trichlorobenzene	ND	2.0	µg/L
71	Surr: 1,2-Dichloroethane-d4	96	(70-130)	%REC
72	Surr: Toluene-d8	103	(70-130)	%REC
73	Surr: 4-Bromofluorobenzene	103	(70-130)	%REC

ND = Not Detected

Roger Scholl Randy Gardner Walter Hinchman

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4/8/11
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 DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH11032502-09A
Client I.D. Number: TB-1

Sampled: 03/23/11 07:00
Received: 03/25/11
Extracted: 03/29/11
Analyzed: 03/29/11

Volatile Organics by GC/MS
EPA Method SW8260B

	Compound	Concentration	Reporting Limit	
1	Dichlorodifluoromethane	ND	1.0	µg/L
2	Chloromethane	ND	2.0	µg/L
3	Vinyl chloride	ND	0.50	µg/L
4	Chloroethane	ND	1.0	µg/L
5	Bromomethane	ND	2.0	µg/L
6	Trichlorofluoromethane	ND	10	µg/L
7	Acetone	ND	10	µg/L
8	1,1-Dichloroethene	ND	1.0	µg/L
9	Tertiary Butyl Alcohol (TBA)	ND	10	µg/L
10	Dichloromethane	ND	5.0	µg/L
11	Freon-113	ND	10	µg/L
12	Carbon disulfide	ND	2.5	µg/L
13	trans-1,2-Dichloroethene	ND	1.0	µg/L
14	Methyl tert-butyl ether (MTBE)	ND	0.50	µg/L
15	1,1-Dichloroethane	ND	1.0	µg/L
16	Vinyl acetate	ND	50	µg/L
17	2-Butanone (MEK)	ND	10	µg/L
18	Di-isopropyl Ether (DIPE)	ND	1.0	µg/L
19	cis-1,2-Dichloroethene	ND	1.0	µg/L
20	Bromochloromethane	ND	1.0	µg/L
21	Chloroform	ND	1.0	µg/L
22	Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0	µg/L
23	2,2-Dichloropropane	ND	1.0	µg/L
24	1,2-Dichloroethane	ND	0.50	µg/L
25	1,1,1-Trichloroethane	ND	1.0	µg/L
26	1,1-Dichloropropene	ND	1.0	µg/L
27	Carbon tetrachloride	ND	1.0	µg/L
28	Benzene	ND	0.50	µg/L
29	Tertiary Amyl Methyl Ether (TAME)	ND	1.0	µg/L
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
45	Chlorobenzene	ND	1.0	µg/L
46	Ethylbenzene	ND	0.50	µg/L
47	m,p-Xylene	ND	0.50	µg/L
48	Bromoform	ND	1.0	µg/L
49	Styrene	ND	1.0	µg/L
50	o-Xylene	ND	0.50	µg/L
51	1,1,2,2-Tetrachloroethane	ND	1.0	µg/L
52	1,2,3-Trichloropropane	ND	2.0	µg/L
53	Isopropylbenzene	ND	1.0	µg/L
54	Bromobenzene	ND	1.0	µg/L
55	n-Propylbenzene	ND	1.0	µg/L
56	4-Chlorotoluene	ND	1.0	µg/L
57	2-Chlorotoluene	ND	1.0	µg/L
58	1,3,5-Trimethylbenzene	ND	1.0	µg/L
59	tert-Butylbenzene	ND	1.0	µg/L
60	1,2,4-Trimethylbenzene	ND	1.0	µg/L
61	sec-Butylbenzene	ND	1.0	µg/L
62	1,3-Dichlorobenzene	ND	1.0	µg/L
63	1,4-Dichlorobenzene	ND	1.0	µg/L
64	4-Isopropyltoluene	ND	1.0	µg/L
65	1,2-Dichlorobenzene	ND	1.0	µg/L
66	n-Butylbenzene	ND	1.0	µg/L
67	1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L
68	1,2,4-Trichlorobenzene	ND	2.0	µg/L
69	Naphthalene	ND	10	µg/L
70	1,2,3-Trichlorobenzene	ND	2.0	µg/L
71	Surr: 1,2-Dichloroethane-d4	95	(70-130)	%REC
72	Surr: Toluene-d8	104	(70-130)	%REC
73	Surr: 4-Bromofluorobenzene	101	(70-130)	%REC

ND = Not Detected

Roger Scholl Randy Gardner Walter Hinchman

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4/8/11
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: CHH11032502 **Job:** KMEP DFSP Norwalk

Alpha's Sample ID	Client's Sample ID	Matrix	pH
11032502-01A	GMW-O-15	Aqueous	2
11032502-02A	GMW-O-16	Aqueous	2
11032502-03A	GMW-O-18	Aqueous	2
11032502-04A	GMW-O-19	Aqueous	2
11032502-05A	GMW-36	Aqueous	2
11032502-06A	PZ-5	Aqueous	2
11032502-07A	DUP-1	Aqueous	2
11032502-08A	EB-1	Aqueous	2
11032502-09A	TB-1	Aqueous	2

4/8/11

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: *07-Apr-11*

QC Summary Report

Work Order: 11032502

Method Blank

Type: **MBLK** Test Code: **EPA Method SW8015B/C Ext**

File ID: **1A03251141.D** Batch ID: **26229** Analysis Date: **03/29/2011 14:34**

Sample ID: **MBLK-26229** Units : **mg/L** Run ID: **FID_1_110329A** Prep Date: **03/29/2011 09:57**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (Fuel Product)	ND	0.1								
Surr: Nonane	0.169		0.15		113	49	145			

Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method SW8015B/C Ext**

File ID: **1A03251138.D** Batch ID: **26229** Analysis Date: **03/29/2011 13:16**

Sample ID: **LCS-26229** Units : **mg/L** Run ID: **FID_1_110329A** Prep Date: **03/29/2011 09:57**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.62	0.05	2.5		105	70	130			
Surr: Nonane	0.174		0.15		116	49	145			

Sample Matrix Spike

Type: **MS** Test Code: **EPA Method SW8015B/C Ext**

File ID: **1A03251140.D** Batch ID: **26229** Analysis Date: **03/29/2011 14:08**

Sample ID: **11032940-01AMS** Units : **mg/L** Run ID: **FID_1_110329A** Prep Date: **03/29/2011 09:57**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.58	0.05	2.5	0	103	53	150			
Surr: Nonane	0.164		0.15		109	49	145			

Sample Matrix Spike Duplicate

Type: **MSD** Test Code: **EPA Method SW8015B/C Ext**

File ID: **1A03251142.D** Batch ID: **26229** Analysis Date: **03/29/2011 15:00**

Sample ID: **11032940-01AMSD** Units : **mg/L** Run ID: **FID_1_110329A** Prep Date: **03/29/2011 09:57**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.4	0.05	2.5	0	96	53	150	2.579	7.1(47)	
Surr: Nonane	0.135		0.15		90	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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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: *07-Apr-11*

QC Summary Report

Work Order: 11032502

Method Blank

Type: **MBLK** Test Code: **EPA Method SW8015B/C**

File ID: **11032907.D** Batch ID: **MS15W0329B** Analysis Date: **03/29/2011 10:43**

Sample ID: **MBLK MS15W0329B** Units : **mg/L** Run ID: **MSD_15_110329A** Prep Date: **03/29/2011 10:43**

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	0.00951		0.01		95	70	130			
Surr: Toluene-d8	0.0105		0.01		105	70	130			
Surr: 4-Bromofluorobenzene	0.01		0.01		100	70	130			

Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method SW8015B/C**

File ID: **11032904.D** Batch ID: **MS15W0329B** Analysis Date: **03/29/2011 09:29**

Sample ID: **GLCS MS15W0329B** Units : **mg/L** Run ID: **MSD_15_110329A** Prep Date: **03/29/2011 09:29**

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	0.00978		0.01		98	70	130			
Surr: Toluene-d8	0.00993		0.01		99	70	130			
Surr: 4-Bromofluorobenzene	0.00988		0.01		99	70	130			

Sample Matrix Spike

Type: **MS** Test Code: **EPA Method SW8015B/C**

File ID: **11032910.D** Batch ID: **MS15W0329B** Analysis Date: **03/29/2011 11:48**

Sample ID: **11032502-02AGS** Units : **mg/L** Run ID: **MSD_15_110329A** Prep Date: **03/29/2011 11:48**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.89	0.25	2	0	95	51	144			
Surr: 1,2-Dichloroethane-d4	0.0473		0.05		95	70	130			
Surr: Toluene-d8	0.0509		0.05		102	70	130			
Surr: 4-Bromofluorobenzene	0.0524		0.05		105	70	130			

Sample Matrix Spike Duplicate

Type: **MSD** Test Code: **EPA Method SW8015B/C**

File ID: **11032911.D** Batch ID: **MS15W0329B** Analysis Date: **03/29/2011 12:10**

Sample ID: **11032502-02AGSD** Units : **mg/L** Run ID: **MSD_15_110329A** Prep Date: **03/29/2011 12:10**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.95	0.25	2	0	97	51	144	1.89	3.0(29)	
Surr: 1,2-Dichloroethane-d4	0.0478		0.05		96	70	130			
Surr: Toluene-d8	0.0495		0.05		99	70	130			
Surr: 4-Bromofluorobenzene	0.0516		0.05		103	70	130			

Comments:

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Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: *07-Apr-11*

QC Summary Report

Work Order: 11032502

Method Blank Type: **MBLK** Test Code: **EPA Method SW8260B**

File ID: **11032907.D** Batch ID: **MS15W0329A** Analysis Date: **03/29/2011 10:43**

Sample ID: **MBLK MS15W0329A** Units : **µg/L** Run ID: **MSD_15_110329A** Prep Date: **03/29/2011 10:43**

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.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: *07-Apr-11*

QC Summary Report

Work Order: 11032502

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	9.51		10		95	70	130		
Surr: Toluene-d8	10.5		10		105	70	130		
Surr: 4-Bromofluorobenzene	10		10		100	70	130		

Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method SW8260B**

File ID: **11032903.D** Batch ID: **MS15W0329A** Analysis Date: **03/29/2011 09:07**

Sample ID: **LCS MS15W0329A** Units : **µg/L** Run ID: **MSD_15_110329A** Prep Date: **03/29/2011 09:07**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	10.6	1	10		106	80	120			
Methyl tert-butyl ether (MTBE)	9.61	0.5	10		96	65	140			
Benzene	10.6	0.5	10		106	70	130			
Trichloroethene	10.5	1	10		105	65	144			
Toluene	10.8	0.5	10		108	80	120			
Chlorobenzene	10.6	1	10		106	70	130			
Ethylbenzene	10.5	0.5	10		105	80	120			
m,p-Xylene	10.6	0.5	10		106	70	130			
o-Xylene	10.8	0.5	10		108	70	130			
Surr: 1,2-Dichloroethane-d4	9.21		10		92	70	130			
Surr: Toluene-d8	10.1		10		101	70	130			
Surr: 4-Bromofluorobenzene	10.4		10		104	70	130			

Sample Matrix Spike

Type: **MS** Test Code: **EPA Method SW8260B**

File ID: **11032908.D** Batch ID: **MS15W0329A** Analysis Date: **03/29/2011 11:05**

Sample ID: **11032502-02AMS** Units : **µg/L** Run ID: **MSD_15_110329A** Prep Date: **03/29/2011 11:05**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	47.9	2.5	50	0	96	64	130			
Methyl tert-butyl ether (MTBE)	49.6	1.3	50	1.58	96	47	150			
Benzene	48.7	1.3	50	0	97	59	138			
Trichloroethene	47.5	2.5	50	0	95	65	144			
Toluene	49	1.3	50	0	98	68	130			
Chlorobenzene	48.4	2.5	50	0	97	70	130			
Ethylbenzene	48.4	1.3	50	0	97	68	130			
m,p-Xylene	49.1	1.3	50	0	98	68	131			
o-Xylene	49	1.3	50	0	98	70	130			
Surr: 1,2-Dichloroethane-d4	47.2		50		94	70	130			
Surr: Toluene-d8	49.9		50		99.8	70	130			
Surr: 4-Bromofluorobenzene	51.7		50		103	70	130			

Sample Matrix Spike Duplicate

Type: **MSD** Test Code: **EPA Method SW8260B**

File ID: **11032909.D** Batch ID: **MS15W0329A** Analysis Date: **03/29/2011 11:27**

Sample ID: **11032502-02AMSD** Units : **µg/L** Run ID: **MSD_15_110329A** Prep Date: **03/29/2011 11:27**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	51.9	2.5	50	0	104	64	130	47.87	8.0(21)	
Methyl tert-butyl ether (MTBE)	55.9	1.3	50	1.58	109	47	150	49.62	11.9(40)	
Benzene	51.4	1.3	50	0	103	59	138	48.67	5.4(21)	
Trichloroethene	51.3	2.5	50	0	103	65	144	47.51	7.7(20)	
Toluene	53.2	1.3	50	0	106	68	130	49.01	8.1(20)	
Chlorobenzene	52.2	2.5	50	0	104	70	130	48.35	7.6(20)	
Ethylbenzene	51.6	1.3	50	0	103	68	130	48.37	6.5(20)	
m,p-Xylene	52.8	1.3	50	0	106	68	131	49.07	7.2(20)	
o-Xylene	52.6	1.3	50	0	105	70	130	49.01	7.1(20)	
Surr: 1,2-Dichloroethane-d4	49.2		50		98	70	130			
Surr: Toluene-d8	50.3		50		101	70	130			
Surr: 4-Bromofluorobenzene	50.3		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: *07-Apr-11*

QC Summary Report

Work Order: 11032502

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

CA

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : CHHL11032502

Report Due By : 5:00 PM On : 04-Apr-2011

,

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
Vladimir Carino	(213) 228-8271 x	vladimir.carino@ch2m.com

EDD Required : **Yes**

Sampled by : Sunil Patel

PO :

Client's COC # : none Job : KMEP DFSP Norwalk

Cooler Temp	Samples Received	Date Printed
0 °C	25-Mar-2011	**25-Mar-2011**

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 TPH/E_W	TPH/P_W	VOC_W						Sample Remarks
CHH11032502-01A	GMW-O-15	AQ	03/23/11 10:06	6	0	6	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate						
CHH11032502-02A	GMW-O-16	AQ	03/23/11 09:28	6	0	6	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate						
CHH11032502-03A	GMW-O-18	AQ	03/23/11 11:24	6	0	6	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate						
CHH11032502-04A	GMW-O-19	AQ	03/23/11 08:47	6	0	6	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate						
CHH11032502-05A	GMW-36	AQ	03/23/11 10:45	6	0	6	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate						
CHH11032502-06A	PZ-5	AQ	03/23/11 12:15	6	0	6	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate						
CHH11032502-07A	DUP-1	AQ	03/23/11 00:00	6	0	6	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate						
CHH11032502-08A	EB-1	AQ	03/23/11 09:38	6	0	6	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +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. :

	Signature	Print Name	Company	Date/Time
Logged in by:	Elizabeth Adcox	Elizabeth Adcox	**Alpha Analytical, Inc.**	3.25.11 1403

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 : CHHL11032502

Report Due By : 5:00 PM On : 04-Apr-2011

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
Vladimir Carino	(213) 228-8271 x	vladimir.carino@ch2m.com

EDD Required : **Yes**

Sampled by : Sunil Patel

PO :

Client's COC # : none Job : KMEP DFSP Norwalk

Cooler Temp	Samples Received	Date Printed
0 °C	25-Mar-2011	**25-Mar-2011**

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 TPH/E_W	TPH/P_W	VOC_W						Sample Remarks
CHH11032502-09A	TB-1	AQ	03/23/11 07:00	3	0	6			TPHE(0.10) +Vinyl acetate						3 Reno Trip Blanks: (2) 10/26/10 (1) 11/2/10

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. :

	Signature	Print Name	Company	Date/Time
Logged in by:	Elizabeth Adcox	Elizabeth Adcox	**Alpha Analytical, Inc.**	3.25.11 1403

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

LAB: Alpha Analytical COC 1 of 1

Billing Information:
Kinder Morgan
1100 Town and CountryRd.
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	CONTAINERS #	Preservation	Type	CONDUCT ANALYSIS TO DETECT: TPHg, TPHfp (EPA 8015M)	VOC's & Oxygenates (EPA 8260B)	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
GMW-O-15	3-23-11	1006	AQ	6	HCl	VOA	X	X				CHH110325201
GMW-O-16		0928					X	X				-02
GMW-O-18		1124					X	X				-03
GMW-O-19		0847					X	X				-04
GMW-36		1045					X	X				-05
PZ-5		1215					X	X				-06
DUP-1		—					X	X				-07
EB-1		0938					X	X				-08
TB-1		0700		3				X				-09

SAMPLING COMPLETED	DATE	TIME
	3-23-11	1230

SAMPLING PERFORMED BY: Sunil Patel

RESULTS NEEDED NO LATER THAN: Standard

RELEASED BY	TIME	RECEIVED BY	DATE	TIME
Sunil Patel	1425	(Sample Custody)	3/23/11	1425
(Sample Custody)	1300		3/24/11	1300
	1300	Elizabeth Adcox	3/25/11	1403

SHIPPED VIA	TIME SENT	COOLER #

Alpha Analytical, Inc.

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ANALYTICAL REPORT

CH2M Hill
1000 Wilshire Boulevard
Los Angeles, CA 90017

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135
Date Received : 05/17/11

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 :	**GMW-O-15**						
Lab ID :	CHH11051705-01A	TPH-E (Fuel Product)	1.6	**	0.10 mg/L	05/20/11	05/20/11
Date Sampled	05/13/11 10:32	Surr: Nonane	109		(49-145) %REC	05/20/11	05/20/11
		TPH-P (GRO)	1.3		0.20 mg/L	05/19/11	05/19/11
		Surr: 1,2-Dichloroethane-d4	101		(70-130) %REC	05/19/11	05/19/11
		Surr: Toluene-d8	101		(70-130) %REC	05/19/11	05/19/11
		Surr: 4-Bromofluorobenzene	93		(70-130) %REC	05/19/11	05/19/11
Client ID :	**GMW-O-16**						
Lab ID :	CHH11051705-02A	TPH-E (Fuel Product)	ND		0.10 mg/L	05/20/11	05/20/11
Date Sampled	05/13/11 09:51	Surr: Nonane	108		(49-145) %REC	05/20/11	05/20/11
		TPH-P (GRO)	ND		0.050 mg/L	05/19/11	05/19/11
		Surr: 1,2-Dichloroethane-d4	98		(70-130) %REC	05/19/11	05/19/11
		Surr: Toluene-d8	102		(70-130) %REC	05/19/11	05/19/11
		Surr: 4-Bromofluorobenzene	95		(70-130) %REC	05/19/11	05/19/11
Client ID :	**GMW-O-18**						
Lab ID :	CHH11051705-03A	TPH-E (Fuel Product)	0.23	*	0.10 mg/L	05/20/11	05/20/11
Date Sampled	05/13/11 07:39	Surr: Nonane	87		(49-145) %REC	05/20/11	05/20/11
		TPH-P (GRO)	ND	O	0.10 mg/L	05/19/11	05/19/11
		Surr: 1,2-Dichloroethane-d4	97		(70-130) %REC	05/19/11	05/19/11
		Surr: Toluene-d8	102		(70-130) %REC	05/19/11	05/19/11
		Surr: 4-Bromofluorobenzene	92		(70-130) %REC	05/19/11	05/19/11
Client ID :	**GMW-O-19**						
Lab ID :	CHH11051705-04A	TPH-E (Fuel Product)	ND		0.10 mg/L	05/20/11	05/20/11
Date Sampled	05/13/11 09:02	Surr: Nonane	91		(49-145) %REC	05/20/11	05/20/11
		TPH-P (GRO)	ND		0.050 mg/L	05/19/11	05/19/11
		Surr: 1,2-Dichloroethane-d4	101		(70-130) %REC	05/19/11	05/19/11
		Surr: Toluene-d8	103		(70-130) %REC	05/19/11	05/19/11
		Surr: 4-Bromofluorobenzene	94		(70-130) %REC	05/19/11	05/19/11
Client ID :	**GMW-36**						
Lab ID :	CHH11051705-05A	TPH-E (Fuel Product)	11	**	0.10 mg/L	05/20/11	05/20/11
Date Sampled	05/13/11 11:03	Surr: Nonane	115		(49-145) %REC	05/20/11	05/20/11
		TPH-P (GRO)	13		2.0 mg/L	05/19/11	05/19/11
		Surr: 1,2-Dichloroethane-d4	99		(70-130) %REC	05/19/11	05/19/11
		Surr: Toluene-d8	101		(70-130) %REC	05/19/11	05/19/11
		Surr: 4-Bromofluorobenzene	91		(70-130) %REC	05/19/11	05/19/11
Client ID :	**PZ-5**						
Lab ID :	CHH11051705-06A	TPH-E (Fuel Product)	0.83	**	0.10 mg/L	05/20/11	05/20/11
Date Sampled	05/13/11 08:14	Surr: Nonane	84		(49-145) %REC	05/20/11	05/20/11
		TPH-P (GRO)	2.0		0.50 mg/L	05/19/11	05/19/11
		Surr: 1,2-Dichloroethane-d4	97		(70-130) %REC	05/19/11	05/19/11
		Surr: Toluene-d8	100		(70-130) %REC	05/19/11	05/19/11
		Surr: 4-Bromofluorobenzene	92		(70-130) %REC	05/19/11	05/19/11

Alpha Analytical, Inc.

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Client ID :	**DUP-1**						
Lab ID :	CHH11051705-07A	TPH-E (Fuel Product)	0.75	**	0.10 mg/L	05/20/11	05/20/11
Date Sampled	05/13/11 00:00	Surr: Nonane	109		(49-145) %REC	05/20/11	05/20/11
		TPH-P (GRO)	2.2		0.50 mg/L	05/19/11	05/19/11
		Surr: 1,2-Dichloroethane-d4	99		(70-130) %REC	05/19/11	05/19/11
		Surr: Toluene-d8	101		(70-130) %REC	05/19/11	05/19/11
		Surr: 4-Bromofluorobenzene	91		(70-130) %REC	05/19/11	05/19/11
Client ID :	**EB-1**						
Lab ID :	CHH11051705-08A	TPH-E (Fuel Product)	ND		0.10 mg/L	05/20/11	05/20/11
Date Sampled	05/13/11 11:20	Surr: Nonane	114		(49-145) %REC	05/20/11	05/20/11
		TPH-P (GRO)	ND		0.050 mg/L	05/19/11	05/19/11
		Surr: 1,2-Dichloroethane-d4	97		(70-130) %REC	05/19/11	05/19/11
		Surr: Toluene-d8	103		(70-130) %REC	05/19/11	05/19/11
		Surr: 4-Bromofluorobenzene	97		(70-130) %REC	05/19/11	05/19/11

**Note: Reported TPH-E (Fuel Product) may contain undifferentiated 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

O = 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) 736-7522 / 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.

RS

5/24/11

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 DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH11051705-01A
Client I.D. Number: GMW-O-15

Sampled: 05/13/11 10:32
Received: 05/17/11
Extracted: 05/19/11
Analyzed: 05/19/11

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	22	1.0	µg/L
3	Vinyl chloride	ND	2.0	µg/L	47 m,p-Xylene	100	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 Styrene	ND	2.0	µg/L
6	Trichlorofluoromethane	ND	10	µg/L	50 o-Xylene	27	1.0	µg/L
7	Acetone	ND	80	µg/L	51 1,1,2,2-Tetrachloroethane	ND	2.0	µg/L
8	1,1-Dichloroethene	ND	2.0	µg/L	52 1,2,3-Trichloropropane	ND	8.0	µg/L
9	Tertiary Butyl Alcohol (TBA)	6,600 *	40	µg/L	53 Isopropylbenzene	ND	2.0	µg/L
10	Dichloromethane	ND	8.0	µg/L	54 Bromobenzene	ND	2.0	µg/L
11	Freon-113	ND	10	µg/L	55 n-Propylbenzene	3.1	2.0	µg/L
12	Carbon disulfide	ND	10	µg/L	56 4-Chlorotoluene	ND	2.0	µg/L
13	trans-1,2-Dichloroethene	ND	2.0	µg/L	57 2-Chlorotoluene	ND	2.0	µg/L
14	Methyl tert-butyl ether (MTBE)	350	1.0	µg/L	58 1,3,5-Trimethylbenzene	11	2.0	µg/L
15	1,1-Dichloroethane	ND	2.0	µg/L	59 tert-Butylbenzene	ND	2.0	µg/L
16	Vinyl acetate	ND	200	µg/L	60 1,2,4-Trimethylbenzene	31	2.0	µg/L
17	2-Butanone (MEK)	ND	40	µg/L	61 sec-Butylbenzene	ND	2.0	µg/L
18	Di-isopropyl Ether (DIPE)	ND	2.0	µg/L	62 1,3-Dichlorobenzene	ND	2.0	µg/L
19	cis-1,2-Dichloroethene	ND	2.0	µg/L	63 1,4-Dichlorobenzene	ND	2.0	µg/L
20	Bromochloromethane	ND	2.0	µg/L	64 4-Isopropyltoluene	ND	2.0	µg/L
21	Chloroform	ND	2.0	µg/L	65 1,2-Dichlorobenzene	ND	2.0	µg/L
22	Ethyl Tertiary Butyl Ether (ETBE)	ND	2.0	µg/L	66 n-Butylbenzene	ND	2.0	µg/L
23	2,2-Dichloropropane	ND	2.0	µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	12	µg/L
24	1,2-Dichloroethane	ND	2.0	µg/L	68 1,2,4-Trichlorobenzene	ND	8.0	µg/L
25	1,1,1-Trichloroethane	ND	2.0	µg/L	69 Naphthalene	ND	10	µg/L
26	1,1-Dichloropropene	ND	2.0	µg/L	70 1,2,3-Trichlorobenzene	ND	8.0	µg/L
27	Carbon tetrachloride	ND	2.0	µg/L	71 Surr: 1,2-Dichloroethane-d4	101	(70-130)	%REC
28	Benzene	200	1.0	µg/L	72 Surr: Toluene-d8	101	(70-130)	%REC
29	Tertiary Amyl Methyl Ether (TAME)	3.6	2.0	µg/L	73 Surr: 4-Bromofluorobenzene	93	(70-130)	%REC
30	Dibromomethane	ND	2.0	µg/L				
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	18	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				

Some Reporting Limits were increased due to high concentrations of target analytes.

*This analyte was analyzed separately 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
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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5/24/11
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 DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH11051705-02A
Client I.D. Number: GMW-O-16

Sampled: 05/13/11 09:51
Received: 05/17/11
Extracted: 05/19/11
Analyzed: 05/19/11

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 Styrene	ND	1.0	µg/L
6	Trichlorofluoromethane	ND	10	µg/L	50 o-Xylene	ND	0.50	µg/L
7	Acetone	ND	20	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)	1.8	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	98	(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	95	(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				

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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5/24/11
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 DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH11051705-03A
Client I.D. Number: GMW-O-18

Sampled: 05/13/11 07:39
Received: 05/17/11
Extracted: 05/19/11
Analyzed: 05/19/11

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	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 Styrene	ND	1.0	µg/L
6	Trichlorofluoromethane	ND	10	µg/L	50 o-Xylene	ND	0.50	µg/L
7	Acetone	ND	40	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	4.0	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	5.0	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	100	µg/L	60 1,2,4-Trimethylbenzene	ND	1.0	µg/L
17	2-Butanone (MEK)	ND	20	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	6.0	µg/L
24	1,2-Dichloroethane	ND	1.0	µg/L	68 1,2,4-Trichlorobenzene	ND	4.0	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	4.0	µg/L
27	Carbon tetrachloride	ND	1.0	µg/L	71 Surr: 1,2-Dichloroethane-d4	97	(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	92	(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	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 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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5/24/11
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 DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH11051705-04A
Client I.D. Number: GMW-O-19

Sampled: 05/13/11 09:02
Received: 05/17/11
Extracted: 05/19/11
Analyzed: 05/19/11

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 Styrene	ND	1.0	µg/L
6	Trichlorofluoromethane	ND	10	µg/L	50 o-Xylene	ND	0.50	µg/L
7	Acetone	ND	20	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	103	(70-130)	%REC
29	Tertiary Amyl Methyl Ether (TAME)	ND	1.0	µg/L	73 Surr: 4-Bromofluorobenzene	94	(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
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5/24/11
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 DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH11051705-05A
Client I.D. Number: GMW-36

Sampled: 05/13/11 11:03
Received: 05/17/11
Extracted: 05/19/11
Analyzed: 05/19/11

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	93	10	µg/L
3	Vinyl chloride	ND	20	µg/L	47 m,p-Xylene	1,100	10	µg/L
4	Chloroethane	ND	20	µg/L	48 Bromoform	ND	20	µg/L
5	Bromomethane	ND	80	µg/L	49 Styrene	ND	20	µg/L
6	Trichlorofluoromethane	ND	20	µg/L	50 o-Xylene	540	10	µg/L
7	Acetone	ND	800	µg/L	51 1,1,2,2-Tetrachloroethane	ND	20	µg/L
8	1,1-Dichloroethene	ND	20	µg/L	52 1,2,3-Trichloropropane	ND	80	µg/L
9	Tertiary Butyl Alcohol (TBA)	ND	200	µg/L	53 Isopropylbenzene	ND	20	µg/L
10	Dichloromethane	ND	80	µg/L	54 Bromobenzene	ND	20	µg/L
11	Freon-113	ND	20	µg/L	55 n-Propylbenzene	ND	20	µg/L
12	Carbon disulfide	ND	100	µg/L	56 4-Chlorotoluene	ND	20	µg/L
13	trans-1,2-Dichloroethene	ND	20	µg/L	57 2-Chlorotoluene	ND	20	µg/L
14	Methyl tert-butyl ether (MTBE)	43	10	µg/L	58 1,3,5-Trimethylbenzene	84	20	µg/L
15	1,1-Dichloroethane	ND	20	µg/L	59 tert-Butylbenzene	ND	20	µg/L
16	Vinyl acetate	ND	2,000	µg/L	60 1,2,4-Trimethylbenzene	220	20	µg/L
17	2-Butanone (MEK)	ND	400	µg/L	61 sec-Butylbenzene	ND	20	µg/L
18	Di-isopropyl Ether (DIPE)	ND	20	µg/L	62 1,3-Dichlorobenzene	ND	20	µg/L
19	cis-1,2-Dichloroethene	ND	20	µg/L	63 1,4-Dichlorobenzene	ND	20	µg/L
20	Bromochloromethane	ND	20	µg/L	64 4-Isopropyltoluene	ND	20	µg/L
21	Chloroform	ND	20	µg/L	65 1,2-Dichlorobenzene	ND	20	µg/L
22	Ethyl Tertiary Butyl Ether (ETBE)	ND	20	µg/L	66 n-Butylbenzene	ND	20	µg/L
23	2,2-Dichloropropane	ND	20	µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	120	µg/L
24	1,2-Dichloroethane	ND	20	µg/L	68 1,2,4-Trichlorobenzene	ND	80	µg/L
25	1,1,1-Trichloroethane	ND	20	µg/L	69 Naphthalene	110	80	µg/L
26	1,1-Dichloropropene	ND	20	µg/L	70 1,2,3-Trichlorobenzene	ND	80	µg/L
27	Carbon tetrachloride	ND	20	µg/L	71 Surr: 1,2-Dichloroethane-d4	99	(70-130)	%REC
28	Benzene	2,300	10	µg/L	72 Surr: Toluene-d8	101	(70-130)	%REC
29	Tertiary Amyl Methyl Ether (TAME)	ND	20	µg/L	73 Surr: 4-Bromofluorobenzene	91	(70-130)	%REC
30	Dibromomethane	ND	20	µg/L				
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	2,100	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 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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5/24/11
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 DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH11051705-06A
Client I.D. Number: PZ-5

Sampled: 05/13/11 08:14
Received: 05/17/11
Extracted: 05/19/11
Analyzed: 05/19/11

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	25	2.5	µg/L
3	Vinyl chloride	ND		5.0	µg/L	47	m,p-Xylene	16	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	Styrene	ND	5.0	µg/L
6	Trichlorofluoromethane	ND		10	µg/L	50	o-Xylene	9.8	2.5	µg/L
7	Acetone	ND		200	µg/L	51	1,1,2,2-Tetrachloroethane	ND	5.0	µg/L
8	1,1-Dichloroethene	ND		5.0	µg/L	52	1,2,3-Trichloropropane	ND	20	µg/L
9	Tertiary Butyl Alcohol (TBA)	34,000	*	500	µg/L	53	Isopropylbenzene	ND	5.0	µg/L
10	Dichloromethane	ND		20	µg/L	54	Bromobenzene	ND	5.0	µg/L
11	Freon-113	ND		10	µg/L	55	n-Propylbenzene	ND	5.0	µg/L
12	Carbon disulfide	ND		25	µg/L	56	4-Chlorotoluene	ND	5.0	µg/L
13	trans-1,2-Dichloroethene	ND		5.0	µg/L	57	2-Chlorotoluene	ND	5.0	µg/L
14	Methyl tert-butyl ether (MTBE)	140		2.5	µg/L	58	1,3,5-Trimethylbenzene	ND	5.0	µg/L
15	1,1-Dichloroethane	ND		5.0	µg/L	59	tert-Butylbenzene	ND	5.0	µg/L
16	Vinyl acetate	ND		500	µg/L	60	1,2,4-Trimethylbenzene	14	5.0	µg/L
17	2-Butanone (MEK)	ND		100	µg/L	61	sec-Butylbenzene	ND	5.0	µg/L
18	Di-isopropyl Ether (DIPE)	ND		5.0	µg/L	62	1,3-Dichlorobenzene	ND	5.0	µg/L
19	cis-1,2-Dichloroethene	ND		5.0	µg/L	63	1,4-Dichlorobenzene	ND	5.0	µg/L
20	Bromochloromethane	ND		5.0	µg/L	64	4-Isopropyltoluene	ND	5.0	µg/L
21	Chloroform	ND		5.0	µg/L	65	1,2-Dichlorobenzene	ND	5.0	µg/L
22	Ethyl Tertiary Butyl Ether (ETBE)	ND		5.0	µg/L	66	n-Butylbenzene	ND	5.0	µg/L
23	2,2-Dichloropropane	ND		5.0	µg/L	67	1,2-Dibromo-3-chloropropane (DBCP)	ND	30	µg/L
24	1,2-Dichloroethane	ND		5.0	µg/L	68	1,2,4-Trichlorobenzene	ND	20	µg/L
25	1,1,1-Trichloroethane	ND		5.0	µg/L	69	Naphthalene	ND	20	µg/L
26	1,1-Dichloropropene	ND		5.0	µg/L	70	1,2,3-Trichlorobenzene	ND	20	µg/L
27	Carbon tetrachloride	ND		5.0	µg/L	71	Surr: 1,2-Dichloroethane-d4	97	(70-130)	%REC
28	Benzene	710		2.5	µg/L	72	Surr: Toluene-d8	100	(70-130)	%REC
29	Tertiary Amyl Methyl Ether (TAME)	ND		5.0	µg/L	73	Surr: 4-Bromofluorobenzene	92	(70-130)	%REC
30	Dibromomethane	ND		5.0	µg/L					
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	4.7		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.

*This analyte was analyzed separately 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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5/24/11
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 DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH11051705-07A
Client I.D. Number: DUP-1

Sampled: 05/13/11 00:00
Received: 05/17/11
Extracted: 05/19/11
Analyzed: 05/19/11

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	27		2.5	µg/L
3	Vinyl chloride	ND		5.0	µg/L	47	m,p-Xylene	17		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	Styrene	ND		5.0	µg/L
6	Trichlorofluoromethane	ND		10	µg/L	50	o-Xylene	11		2.5	µg/L
7	Acetone	ND		200	µg/L	51	1,1,2,2-Tetrachloroethane	ND		5.0	µg/L
8	1,1-Dichloroethene	ND		5.0	µg/L	52	1,2,3-Trichloropropane	ND		20	µg/L
9	Tertiary Butyl Alcohol (TBA)	33,000	*	500	µg/L	53	Isopropylbenzene	ND		5.0	µg/L
10	Dichloromethane	ND		20	µg/L	54	Bromobenzene	ND		5.0	µg/L
11	Freon-113	ND		10	µg/L	55	n-Propylbenzene	ND		5.0	µg/L
12	Carbon disulfide	ND		25	µg/L	56	4-Chlorotoluene	ND		5.0	µg/L
13	trans-1,2-Dichloroethene	ND		5.0	µg/L	57	2-Chlorotoluene	ND		5.0	µg/L
14	Methyl tert-butyl ether (MTBE)	150		2.5	µg/L	58	1,3,5-Trimethylbenzene	ND		5.0	µg/L
15	1,1-Dichloroethane	ND		5.0	µg/L	59	tert-Butylbenzene	ND		5.0	µg/L
16	Vinyl acetate	ND		500	µg/L	60	1,2,4-Trimethylbenzene	15		5.0	µg/L
17	2-Butanone (MEK)	ND		100	µg/L	61	sec-Butylbenzene	ND		5.0	µg/L
18	Di-isopropyl Ether (DIPE)	ND		5.0	µg/L	62	1,3-Dichlorobenzene	ND		5.0	µg/L
19	cis-1,2-Dichloroethene	ND		5.0	µg/L	63	1,4-Dichlorobenzene	ND		5.0	µg/L
20	Bromochloromethane	ND		5.0	µg/L	64	4-Isopropyltoluene	ND		5.0	µg/L
21	Chloroform	ND		5.0	µg/L	65	1,2-Dichlorobenzene	ND		5.0	µg/L
22	Ethyl Tertiary Butyl Ether (ETBE)	ND		5.0	µg/L	66	n-Butylbenzene	ND		5.0	µg/L
23	2,2-Dichloropropane	ND		5.0	µg/L	67	1,2-Dibromo-3-chloropropane (DBCP)	ND		30	µg/L
24	1,2-Dichloroethane	ND		5.0	µg/L	68	1,2,4-Trichlorobenzene	ND		20	µg/L
25	1,1,1-Trichloroethane	ND		5.0	µg/L	69	Naphthalene	ND		20	µg/L
26	1,1-Dichloropropene	ND		5.0	µg/L	70	1,2,3-Trichlorobenzene	ND		20	µg/L
27	Carbon tetrachloride	ND		5.0	µg/L	71	Surr: 1,2-Dichloroethane-d4	99		(70-130)	%REC
28	Benzene	770		2.5	µg/L	72	Surr: Toluene-d8	101		(70-130)	%REC
29	Tertiary Amyl Methyl Ether (TAME)	ND		5.0	µg/L	73	Surr: 4-Bromofluorobenzene	91		(70-130)	%REC
30	Dibromomethane	ND		5.0	µg/L						
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	4.9		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.

*This analyte was analyzed separately 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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5/24/11
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 DFSP Norwalk

Attn: Daniel Jablonski
Phone: (213) 228-8271
Fax: (714) 424-2135

Alpha Analytical Number: CHH11051705-08A
Client I.D. Number: EB-1

Sampled: 05/13/11 11:20
Received: 05/17/11
Extracted: 05/19/11
Analyzed: 05/19/11

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 Styrene	ND	1.0	µg/L
6	Trichlorofluoromethane	ND	10	µg/L	50 o-Xylene	ND	0.50	µg/L
7	Acetone	ND	20	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	97	(70-130)	%REC
28	Benzene	ND	0.50	µg/L	72 Surr: Toluene-d8	103	(70-130)	%REC
29	Tertiary Amyl Methyl Ether (TAME)	ND	1.0	µg/L	73 Surr: 4-Bromofluorobenzene	97	(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

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5/24/11
Report Date

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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: CHH11051705-09A
Client I.D. Number: TB-1

Sampled: 05/13/11 07:00
Received: 05/17/11
Extracted: 05/19/11
Analyzed: 05/19/11

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 Styrene	ND	1.0	µg/L
6	Trichlorofluoromethane	ND	10	µg/L	50 o-Xylene	ND	0.50	µg/L
7	Acetone	ND	20	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	94	(70-130)	%REC
28	Benzene	ND	0.50	µg/L	72 Surr: Toluene-d8	103	(70-130)	%REC
29	Tertiary Amyl Methyl Ether (TAME)	ND	1.0	µg/L	73 Surr: 4-Bromofluorobenzene	92	(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) 736-7522 / 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.

5/24/11
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: CHH11051705 **Job:** KMEP DFSP Norwalk

Alpha's Sample ID	Client's Sample ID	Matrix	pH
11051705-01A	GMW-O-15	Aqueous	2
11051705-02A	GMW-O-16	Aqueous	2
11051705-03A	GMW-O-18	Aqueous	2
11051705-04A	GMW-O-19	Aqueous	2
11051705-05A	GMW-36	Aqueous	2
11051705-06A	PZ-5	Aqueous	2
11051705-07A	DUP-1	Aqueous	2
11051705-08A	EB-1	Aqueous	2
11051705-09A	TB-1	Aqueous	2

5/24/11

Report Date

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
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Date: *23-May-11*

QC Summary Report

Work Order: 11051705

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015B/C Ext**

File ID: **2A05201106.D** Batch ID: **26585** Analysis Date: **05/20/2011 14:17**

Sample ID: **MBLK-26585** Units : **mg/L** Run ID: **FID_2_110520A** Prep Date: **05/20/2011 12:11**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (Fuel Product)	ND	0.1								
Surr: Nonane	0.171		0.15		114	49	145			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015B/C Ext**

File ID: **2A05201107.D** Batch ID: **26585** Analysis Date: **05/20/2011 14:42**

Sample ID: **LCS-26585** Units : **mg/L** Run ID: **FID_2_110520A** Prep Date: **05/20/2011 12:11**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.52	0.05	2.5		101	70	130			
Surr: Nonane	0.159		0.15		106	49	145			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8015B/C Ext**

File ID: **2A05201123.D** Batch ID: **26585** Analysis Date: **05/20/2011 21:24**

Sample ID: **11051924-06AMS** Units : **mg/L** Run ID: **FID_2_110520A** Prep Date: **05/20/2011 12:11**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.83	0.05	2.5	0	113	53	150			
Surr: Nonane	0.166		0.15		111	49	145			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8015B/C Ext**

File ID: **2A05201124.D** Batch ID: **26585** Analysis Date: **05/20/2011 21:49**

Sample ID: **11051924-06AMSD** Units : **mg/L** Run ID: **FID_2_110520A** Prep Date: **05/20/2011 12:11**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.48	0.05	2.5	0	99	53	150	2.828	13.2(47)	
Surr: Nonane	0.14		0.15		93	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: *23-May-11*

QC Summary Report

Work Order: 11051705

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015B/C**

File ID: **11051907.D** Batch ID: **MS15W0519B** Analysis Date: **05/19/2011 10:15**

Sample ID: **MBLK MS15W0519B** Units : **mg/L** Run ID: **MSD_15_110519A** Prep Date: **05/19/2011 10:15**

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	0.00967		0.01		97	70	130			
Surr: Toluene-d8	0.0101		0.01		101	70	130			
Surr: 4-Bromofluorobenzene	0.00939		0.01		94	70	130			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015B/C**

File ID: **11051904.D** Batch ID: **MS15W0519B** Analysis Date: **05/19/2011 09:10**

Sample ID: **GLCS MS15W0519B** Units : **mg/L** Run ID: **MSD_15_110519A** Prep Date: **05/19/2011 09:10**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.399	0.05	0.4		99.7	70	130			
Surr: 1,2-Dichloroethane-d4	0.00972		0.01		97	70	130			
Surr: Toluene-d8	0.0101		0.01		101	70	130			
Surr: 4-Bromofluorobenzene	0.0094		0.01		94	70	130			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8015B/C**

File ID: **11051917.D** Batch ID: **MS15W0519B** Analysis Date: **05/19/2011 13:51**

Sample ID: **11051705-02AGS** Units : **mg/L** Run ID: **MSD_15_110519A** Prep Date: **05/19/2011 13:51**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.72	0.25	2	0	86	51	144			
Surr: 1,2-Dichloroethane-d4	0.05		0.05		100	70	130			
Surr: Toluene-d8	0.0504		0.05		101	70	130			
Surr: 4-Bromofluorobenzene	0.0471		0.05		94	70	130			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8015B/C**

File ID: **11051918.D** Batch ID: **MS15W0519B** Analysis Date: **05/19/2011 14:13**

Sample ID: **11051705-02AGSD** Units : **mg/L** Run ID: **MSD_15_110519A** Prep Date: **05/19/2011 14:13**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.65	0.25	2	0	82	51	144	1.72	4.2(29)	
Surr: 1,2-Dichloroethane-d4	0.0496		0.05		99	70	130			
Surr: Toluene-d8	0.0503		0.05		101	70	130			
Surr: 4-Bromofluorobenzene	0.0475		0.05		95	70	130			

Comments:

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Alpha Analytical, Inc.

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Date: 23-May-11

QC Summary Report

Work Order: 11051705

Method Blank Type **MBLK** Test Code: **EPA Method SW8260B**

File ID: **11051907.D** Batch ID: **MS15W0519A** Analysis Date: **05/19/2011 10:15**

Sample ID: **MBLK MS15W0519A** Units : **µg/L** Run ID: **MSD_15_110519A** Prep Date: **05/19/2011 10:15**

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: *23-May-11*

QC Summary Report

Work Order: 11051705

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	9.67		10	97	70	130
Surr: Toluene-d8	10.1		10	101	70	130
Surr: 4-Bromofluorobenzene	9.39		10	94	70	130

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Date: 23-May-11

QC Summary Report

Work Order: 11051705

Laboratory Control Spike Type **LCS** Test Code: **EPA Method SW8260B**

File ID: **11051903.D** Batch ID: **MS15W0519A** Analysis Date: **05/19/2011 08:48**

Sample ID: **LCS MS15W0519A** Units : **µg/L** Run ID: **MSD_15_110519A** Prep Date: **05/19/2011 08:48**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	11	1	10		110	37	137			
Chloromethane	8.83	2	10		88	43	140			
Vinyl chloride	10.3	1	10		103	80	120			
Chloroethane	9.84	1	10		98	43	141			
Bromomethane	9.03	2	10		90	11	160			
Trichlorofluoromethane	11	1	10		110	40	148			
Acetone	178	10	200		89	36	171			
1,1-Dichloroethene	10.7	1	10		107	80	120			
Tertiary Butyl Alcohol (TBA)	66.6	10	100		67	44	156			
Dichloromethane	9.43	2	10		94	69	130			
Freon-113	11.5	1	10		115	70	137			
trans-1,2-Dichloroethene	10.4	1	10		104	70	130			
Methyl tert-butyl ether (MTBE)	8.17	0.5	10		82	65	140			
1,1-Dichloroethane	9.76	1	10		98	70	130			
2-Butanone (MEK)	177	10	200		89	23	182			
Di-isopropyl Ether (DIPE)	8.91	1	10		89	70	130			
cis-1,2-Dichloroethene	9.79	1	10		98	70	130			
Bromochloromethane	9.28	1	10		93	70	132			
Chloroform	9.68	1	10		97	80	120			
Ethyl Tertiary Butyl Ether (ETBE)	8.03	1	10		80	65	139			
2,2-Dichloropropane	9.52	1	10		95	68	154			
1,2-Dichloroethane	8.73	1	10		87	70	132			
1,1,1-Trichloroethane	10.1	1	10		101	70	135			
1,1-Dichloropropene	10.4	1	10		104	70	130			
Carbon tetrachloride	10.5	1	10		105	61	148			
Benzene	9.76	0.5	10		98	70	130			
Tertiary Amyl Methyl Ether (TAME)	7.96	1	10		80	68	134			
Dibromomethane	8.7	1	10		87	70	130			
1,2-Dichloropropane	9.27	1	10		93	80	120			
Trichloroethene	10.1	1	10		101	65	144			
Bromodichloromethane	9.03	1	10		90	50	157			
4-Methyl-2-pentanone (MIBK)	19.9	2.5	25		80	20	182			
cis-1,3-Dichloropropene	8.27	1	10		83	70	131			
trans-1,3-Dichloropropene	7.58	1	10		76	70	136			
1,1,2-Trichloroethane	8.14	1	10		81	70	130			
Toluene	10.1	0.5	10		101	80	120			
1,3-Dichloropropane	8.64	1	10		86	70	130			
2-Hexanone	87.5	5	100		88	20	182			
Dibromochloromethane	8.43	1	10		84	42	155			
1,2-Dibromoethane (EDB)	18.2	2	20		91	70	130			
Tetrachloroethene	10.9	1	10		109	70	130			
1,1,1,2-Tetrachloroethane	9.53	1	10		95	70	130			
Chlorobenzene	10.1	1	10		101	70	130			
Ethylbenzene	10.1	0.5	10		101	80	120			
m,p-Xylene	10.4	0.5	10		104	70	130			
Bromoform	7.57	1	10		76	68	143			
Styrene	9.98	1	10		99.8	64	153			
o-Xylene	10.2	0.5	10		102	70	130			
1,1,2,2-Tetrachloroethane	7.85	1	10		79	70	130			
1,2,3-Trichloropropane	17	2	20		85	70	130			
Isopropylbenzene	9.97	1	10		99.7	68	138			
Bromobenzene	9.45	1	10		95	70	130			
n-Propylbenzene	10.4	1	10		104	70	133			
4-Chlorotoluene	10.1	1	10		101	70	130			
2-Chlorotoluene	9.99	1	10		99.9	70	130			
1,3,5-Trimethylbenzene	10	1	10		100	70	134			
tert-Butylbenzene	9.93	1	10		99	55	147			
1,2,4-Trimethylbenzene	9.83	1	10		98	70	134			
sec-Butylbenzene	10.3	1	10		103	70	135			
1,3-Dichlorobenzene	9.94	1	10		99	70	130			
1,4-Dichlorobenzene	9.28	1	10		93	70	130			
4-Isopropyltoluene	10.1	1	10		101	70	132			
1,2-Dichlorobenzene	8.89	1	10		89	70	130			
n-Butylbenzene	10.3	1	10		103	70	134			
1,2-Dibromo-3-chloropropane (DBCP)	34.2	3	50		68	67	130			

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Date: *23-May-11*

QC Summary Report

Work Order: 11051705

1,2,4-Trichlorobenzene	9.06	2	10	91	67	132
Naphthalene	5.83	2	10	58	38	154
1,2,3-Trichlorobenzene	8.29	2	10	83	56	137
Surr: 1,2-Dichloroethane-d4	9.05		10	91	70	130
Surr: Toluene-d8	10.3		10	103	70	130
Surr: 4-Bromofluorobenzene	9.68		10	97	70	130

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Date: 23-May-11

QC Summary Report

Work Order: 11051705

Sample Matrix Spike Type **MS** Test Code: **EPA Method SW8260B**

File ID: **11051915.D** Batch ID: **MS15W0519A** Analysis Date: **05/19/2011 13:08**

Sample ID: **11051705-02AMS** Units : **µg/L** Run ID: **MSD_15_110519A** Prep Date: **05/19/2011 13:08**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	46.9	2.5	50	0	94	21	138			
Chloromethane	30.8	10	50	0	62	23	144			
Vinyl chloride	51.8	2.5	50	0	104	49	136			
Chloroethane	46.8	2.5	50	0	94	21	159			
Bromomethane	58	10	50	0	116	10	174			
Trichlorofluoromethane	54.3	2.5	50	0	109	32	154			
Acetone	519	50	1000	0	51	10	171			
1,1-Dichloroethene	52.2	2.5	50	0	104	64	130			
Tertiary Butyl Alcohol (TBA)	478	25	500	0	96	41	157			
Dichloromethane	48.1	10	50	0	96	69	130			
Freon-113	55	2.5	50	0	110	55	141			
trans-1,2-Dichloroethene	52.4	2.5	50	0	105	63	130			
Methyl tert-butyl ether (MTBE)	50.7	1.3	50	1.81	98	47	150			
1,1-Dichloroethane	48.3	2.5	50	0	97	66	130			
2-Butanone (MEK)	723	50	1000	0	72	23	182			
Di-isopropyl Ether (DIPE)	48.1	2.5	50	0	96	59	139			
cis-1,2-Dichloroethene	50.5	2.5	50	0	101	70	130			
Bromochloromethane	51.1	2.5	50	0	102	70	132			
Chloroform	49.3	2.5	50	0	99	70	130			
Ethyl Tertiary Butyl Ether (ETBE)	47.3	2.5	50	0	95	59	182			
2,2-Dichloropropane	46	2.5	50	0	92	38	154			
1,2-Dichloroethane	47.9	2.5	50	0	96	65	134			
1,1,1-Trichloroethane	51.1	2.5	50	0	102	65	136			
1,1-Dichloropropene	51.3	2.5	50	0	103	68	132			
Carbon tetrachloride	53.8	2.5	50	0	108	58	148			
Benzene	48.9	1.3	50	0	98	59	138			
Tertiary Amyl Methyl Ether (TAME)	45.1	2.5	50	0	90	63	135			
Dibromomethane	48.5	2.5	50	0	97	70	130			
1,2-Dichloropropane	48.6	2.5	50	0	97	70	131			
Trichloroethene	50.1	2.5	50	0	100	65	144			
Bromodichloromethane	49.2	2.5	50	0	98	50	157			
4-Methyl-2-pentanone (MIBK)	111	13	125	0	89	20	182			
cis-1,3-Dichloropropene	45	2.5	50	0	90	63	131			
trans-1,3-Dichloropropene	42.8	2.5	50	0	86	65	136			
1,1,2-Trichloroethane	45.9	2.5	50	0	92	70	131			
Toluene	49.9	1.3	50	0	99.7	68	130			
1,3-Dichloropropane	47.1	2.5	50	0	94	70	130			
2-Hexanone	321	25	500	0	64	20	182			
Dibromochloromethane	47.5	2.5	50	0	95	42	155			
1,2-Dibromoethane (EDB)	100	5	100	0	100	70	130			
Tetrachloroethene	53.7	2.5	50	0	107	65	130			
1,1,1,2-Tetrachloroethane	50.3	2.5	50	0	101	70	130			
Chlorobenzene	50.5	2.5	50	0	101	70	130			
Ethylbenzene	50	1.3	50	0	99.9	68	130			
m,p-Xylene	51.7	1.3	50	0	103	68	131			
Bromoform	44.3	2.5	50	0	89	65	143			
Styrene	49.9	2.5	50	0	99.8	59	153			
o-Xylene	50.6	1.3	50	0	101	70	130			
1,1,2,2-Tetrachloroethane	46.4	2.5	50	0	93	67	130			
1,2,3-Trichloropropane	94.3	10	100	0	94	70	130			
Isopropylbenzene	47.9	2.5	50	0	96	55	138			
Bromobenzene	49.5	2.5	50	0	99	70	130			
n-Propylbenzene	48.8	2.5	50	0	98	67	133			
4-Chlorotoluene	48.5	2.5	50	0	97	70	130			
2-Chlorotoluene	48.6	2.5	50	0	97	70	130			
1,3,5-Trimethylbenzene	47.7	2.5	50	0	95	67	134			
tert-Butylbenzene	47.6	2.5	50	0	95	55	147			
1,2,4-Trimethylbenzene	46.6	2.5	50	0	93	65	135			
sec-Butylbenzene	49.6	2.5	50	0	99	68	135			
1,3-Dichlorobenzene	52	2.5	50	0	104	70	130			
1,4-Dichlorobenzene	48	2.5	50	0	96	70	130			
4-Isopropyltoluene	49	2.5	50	0	98	68	132			
1,2-Dichlorobenzene	47.8	2.5	50	0	96	70	130			
n-Butylbenzene	50.2	2.5	50	0	100	62	134			
1,2-Dibromo-3-chloropropane (DBCP)	197	15	250	0	79	64	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: *23-May-11*

QC Summary Report

Work Order: 11051705

1,2,4-Trichlorobenzene	53.2	10	50	0	106	62	133	
Naphthalene	35.3	10	50	0	71	32	166	
1,2,3-Trichlorobenzene	44.4	10	50	0	89	55	138	
Surr: 1,2-Dichloroethane-d4	47.9		50		96	70	130	
Surr: Toluene-d8	50		50		100	70	130	
Surr: 4-Bromofluorobenzene	48.1		50		96	70	130	

Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: 23-May-11

QC Summary Report

Work Order: 11051705

Sample Matrix Spike Duplicate Type **MSD** Test Code: **EPA Method SW8260B**

File ID: **11051916.D** Batch ID: **MS15W0519A** Analysis Date: **05/19/2011 13:30**

Sample ID: **11051705-02AMSD** Units : **µg/L** Run ID: **MSD_15_110519A** Prep Date: **05/19/2011 13:30**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dichlorodifluoromethane	45.2	2.5	50	0	90	21	138	46.89	3.8(33)	
Chloromethane	31.9	10	50	0	64	23	144	30.8	3.5(27)	
Vinyl chloride	48.4	2.5	50	0	97	49	136	51.77	6.8(21)	
Chloroethane	44.5	2.5	50	0	89	21	159	46.8	5.1(40)	
Bromomethane	53.2	10	50	0	106	10	174	58.04	8.8(40)	
Trichlorofluoromethane	51.7	2.5	50	0	103	32	154	54.33	5.0(37)	
Acetone	532	50	1000	0	52	10	171	519.1	2.4(23)	
1,1-Dichloroethene	48.7	2.5	50	0	97	64	130	52.19	6.9(21)	
Tertiary Butyl Alcohol (TBA)	507	25	500	0	101	41	157	477.9	6.0(30)	
Dichloromethane	45.7	10	50	0	91	69	130	48.05	5.0(20)	
Freon-113	53.1	2.5	50	0	106	55	141	55.04	3.6(40)	
trans-1,2-Dichloroethene	49.1	2.5	50	0	98	63	130	52.36	6.4(20)	
Methyl tert-butyl ether (MTBE)	50.9	1.3	50	1.81	98	47	150	50.73	0.4(40)	
1,1-Dichloroethane	45.9	2.5	50	0	92	66	130	48.31	5.2(20)	
2-Butanone (MEK)	738	50	1000	0	74	23	182	723.1	2.0(22)	
Di-isopropyl Ether (DIPE)	46.5	2.5	50	0	93	59	139	48.09	3.3(20)	
cis-1,2-Dichloroethene	47.4	2.5	50	0	95	70	130	50.46	6.2(20)	
Bromochloromethane	48.5	2.5	50	0	97	70	132	51.07	5.2(20)	
Chloroform	47.1	2.5	50	0	94	70	130	49.3	4.6(20)	
Ethyl Tertiary Butyl Ether (ETBE)	47.1	2.5	50	0	94	59	182	47.33	0.4(40)	
2,2-Dichloropropane	43.1	2.5	50	0	86	38	154	46.03	6.6(22)	
1,2-Dichloroethane	46.9	2.5	50	0	94	65	134	47.89	2.0(20)	
1,1,1-Trichloroethane	48.2	2.5	50	0	96	65	136	51.07	5.8(20)	
1,1-Dichloropropene	48.7	2.5	50	0	97	68	132	51.34	5.4(20)	
Carbon tetrachloride	50.1	2.5	50	0	100	58	148	53.83	7.2(20)	
Benzene	46.4	1.3	50	0	93	59	138	48.94	5.3(21)	
Tertiary Amyl Methyl Ether (TAME)	44.7	2.5	50	0	89	63	135	45.11	0.9(40)	
Dibromomethane	48.1	2.5	50	0	96	70	130	48.47	0.7(20)	
1,2-Dichloropropane	46.2	2.5	50	0	92	70	131	48.6	5.1(20)	
Trichloroethene	47.4	2.5	50	0	95	65	144	50.09	5.6(20)	
Bromodichloromethane	46.1	2.5	50	0	92	50	157	49.15	6.3(20)	
4-Methyl-2-pentanone (MIBK)	116	13	125	0	93	20	182	110.9	4.8(20)	
cis-1,3-Dichloropropene	42.9	2.5	50	0	86	63	131	45.04	4.9(20)	
trans-1,3-Dichloropropene	42.1	2.5	50	0	84	65	136	42.84	1.7(20)	
1,1,2-Trichloroethane	46.3	2.5	50	0	93	70	131	45.92	0.8(20)	
Toluene	47.9	1.3	50	0	96	68	130	49.87	4.1(20)	
1,3-Dichloropropane	47.8	2.5	50	0	96	70	130	47.08	1.5(20)	
2-Hexanone	338	25	500	0	68	20	182	321	5.1(20)	
Dibromochloromethane	46.9	2.5	50	0	94	42	155	47.49	1.2(20)	
1,2-Dibromoethane (EDB)	101	5	100	0	101	70	130	100.4	0.6(20)	
Tetrachloroethene	50.6	2.5	50	0	101	65	130	53.69	5.9(20)	
1,1,1,2-Tetrachloroethane	48.9	2.5	50	0	98	70	130	50.27	2.8(20)	
Chlorobenzene	48.3	2.5	50	0	97	70	130	50.52	4.5(20)	
Ethylbenzene	47.8	1.3	50	0	96	68	130	49.96	4.4(20)	
m,p-Xylene	49.8	1.3	50	0	99.6	68	131	51.7	3.8(20)	
Bromoform	43.9	2.5	50	0	88	65	143	44.34	1.1(20)	
Styrene	48	2.5	50	0	96	59	153	49.92	4.0(37)	
o-Xylene	48.6	1.3	50	0	97	70	130	50.63	4.2(20)	
1,1,2,2-Tetrachloroethane	47.2	2.5	50	0	94	67	130	46.37	1.8(20)	
1,2,3-Trichloropropane	96.5	10	100	0	96	70	130	94.34	2.3(20)	
Isopropylbenzene	44.4	2.5	50	0	89	55	138	47.91	7.6(20)	
Bromobenzene	46	2.5	50	0	92	70	130	49.49	7.2(20)	
n-Propylbenzene	46.2	2.5	50	0	92	67	133	48.75	5.4(30)	
4-Chlorotoluene	46	2.5	50	0	92	70	130	48.53	5.4(20)	
2-Chlorotoluene	45.3	2.5	50	0	91	70	130	48.56	6.9(20)	
1,3,5-Trimethylbenzene	44.7	2.5	50	0	89	67	134	47.65	6.4(21)	
tert-Butylbenzene	44.7	2.5	50	0	89	55	147	47.62	6.3(20)	
1,2,4-Trimethylbenzene	43.8	2.5	50	0	88	65	135	46.56	6.0(25)	
sec-Butylbenzene	46.6	2.5	50	0	93	68	135	49.56	6.3(20)	
1,3-Dichlorobenzene	47.8	2.5	50	0	96	70	130	52	8.5(20)	
1,4-Dichlorobenzene	44.8	2.5	50	0	90	70	130	47.96	6.8(20)	
4-Isopropyltoluene	45.2	2.5	50	0	90	68	132	48.97	8.0(20)	
1,2-Dichlorobenzene	45	2.5	50	0	90	70	130	47.78	6.0(20)	
n-Butylbenzene	46.1	2.5	50	0	92	62	134	50.18	8.4(21)	
1,2-Dibromo-3-chloropropane (DBCP)	204	15	250	0	82	64	130	197.4	3.2(20)	

Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: *23-May-11*

QC Summary Report

Work Order: 11051705

1,2,4-Trichlorobenzene	48.8	10	50	0	98	62	133	53.2	8.6(29)
Naphthalene	35.4	10	50	0	71	32	166	35.34	0.1(40)
1,2,3-Trichlorobenzene	44.3	10	50	0	89	55	138	44.37	0.2(36)
Surr: 1,2-Dichloroethane-d4	48.3		50		97	70	130		
Surr: Toluene-d8	50.7		50		101	70	130		
Surr: 4-Bromofluorobenzene	47.4		50		95	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

CA

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : CHHL11051705

Report Due By : 5:00 PM On : 25-May-2011

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
Vladimir Carino	(213) 228-8271 x	vladimir.carino@ch2m.com

EDD Required : **Yes**

Sampled by : T.R.

PO :

Client's COC # : none Job : KMEP DFSP Norwalk

Cooler Temp	Samples Received	Date Printed
0 °C	17-May-2011	**17-May-2011**

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 TPH/E_W	TPH/P_W	VOC_W	Sample Remarks
CHH11051705-01A	GMW-O-15	AQ	05/13/11 10:32	6	0	6	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
CHH11051705-02A	GMW-O-16	AQ	05/13/11 09:51	6	0	6	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
CHH11051705-03A	GMW-O-18	AQ	05/13/11 07:39	6	0	6	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
CHH11051705-04A	GMW-O-19	AQ	05/13/11 09:02	6	0	6	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
CHH11051705-05A	GMW-36	AQ	05/13/11 11:03	6	0	6	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
CHH11051705-06A	PZ-5	AQ	05/13/11 08:14	6	0	6	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
CHH11051705-07A	DUP-1	AQ	05/13/11 00:00	6	0	6	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
CHH11051705-08A	EB-1	AQ	05/13/11 11:20	6	0	6	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +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. :

	Signature	Print Name	Company	Date/Time
Logged in by:	Elizabeth Adcox	Elizabeth Adcox	**Alpha Analytical, Inc.**	5-17-11 1250

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 : CHHL11051705

Report Due By : 5:00 PM On : 25-May-2011

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
Vladimir Carino	(213) 228-8271 x	vladimir.carino@ch2m.com

EDD Required : **Yes**

Sampled by : T.R.

PO :

Client's COC # : none Job : KMEP DFSP Norwalk

Cooler Temp	Samples Received	Date Printed
0 °C	17-May-2011	17-May-2011

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 TPH/E_W	TPH/P_W	VOC_W						Sample Remarks
CHH11051705-09A	TB-1	AQ	05/13/11 07:00	2	0	6			TPHE(0.10) +Vinyl acetate						Client provided trip blanks.

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. :

	Signature	Print Name	Company	Date/Time
Logged in by:	Elizabeth Adcox	Elizabeth Adcox	**Alpha Analytical, Inc.**	5-17-11 1250

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

CONDUCT ANALYSIS TO DETECT

LAB: Alpha Analytical COC 1 of 1

Billing Information:
Kinder Morgan
1100 Town and CountryRd.
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)	CONTAINERS #	Preservation	Type	TPHg, TPHfp (EPA 8015M)	VOC's & Oxygenates (EPA 8260B)	ADD'L INFORMATION	STATUS	CONDITION	CHH1105170 LAB SAMPLE #
GMW-O-15	5/13/11	1032	AQ	6	HCl	VOA	X	X				-01
GMW-O-16		0951		6			X	X				-02
GMW-O-18		0739		6			X	X				-03
GMW-O-19		0902		6			X	X				-04
GMW-36		1103		6			X	X				-05
P2-5		0814		6			X	X				-06
DUP-1		—		6			X	X				-07
EB-1		1120		6			X	X				-08
TB-1		0700		2				X				-09

SAMPLING COMPLETED: DATE 5/13/11 TIME 1130

SAMPLING PERFORMED BY: T.R

RESULTS NEEDED NO LATER THAN: Standard

		TIME		DATE	TIME
RELEASED BY: TR		1530	RECEIVED BY: TR	5-13-11	1530
RELEASED BY: Mary Ann Sample Courier		1500	RECEIVED BY:	5/16/11	1500
RELEASED BY:		1500	RECEIVED BY: Elizabeth Cidcox	5-17-11	1250

SHIPPED VIA	TIME SENT	COOLER #	