



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

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474
Date Received : 10/20/09

Job: KMEP Norwalk

Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B
Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B

	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed	
Client ID :	EXP-1					
Lab ID :	GMT09102041-01A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/22/09 09:23	10/22/09
Date Sampled	10/19/09 08:48	Surr: Nonane	101	(57-147) %REC	10/22/09 09:23	10/22/09
		TPH-P (GRO)	ND	0.050 mg/L	10/21/09	10/21/09
		Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC	10/21/09	10/21/09
		Surr: Toluene-d8	102	(70-130) %REC	10/21/09	10/21/09
		Surr: 4-Bromofluorobenzene	95	(70-130) %REC	10/21/09	10/21/09
Client ID :	EXP-2					
Lab ID :	GMT09102041-02A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/22/09 09:23	10/22/09
Date Sampled	10/19/09 09:38	Surr: Nonane	101	(57-147) %REC	10/22/09 09:23	10/22/09
		TPH-P (GRO)	ND	0.050 mg/L	10/21/09	10/21/09
		Surr: 1,2-Dichloroethane-d4	101	(70-130) %REC	10/21/09	10/21/09
		Surr: Toluene-d8	102	(70-130) %REC	10/21/09	10/21/09
		Surr: 4-Bromofluorobenzene	92	(70-130) %REC	10/21/09	10/21/09
Client ID :	EXP-3					
Lab ID :	GMT09102041-03A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/22/09 09:23	10/22/09
Date Sampled	10/19/09 10:38	Surr: Nonane	93	(57-147) %REC	10/22/09 09:23	10/22/09
		TPH-P (GRO)	ND	0.050 mg/L	10/21/09	10/21/09
		Surr: 1,2-Dichloroethane-d4	101	(70-130) %REC	10/21/09	10/21/09
		Surr: Toluene-d8	103	(70-130) %REC	10/21/09	10/21/09
		Surr: 4-Bromofluorobenzene	95	(70-130) %REC	10/21/09	10/21/09
Client ID :	EXP-4					
Lab ID :	GMT09102041-04A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/22/09 09:23	10/22/09
Date Sampled	10/19/09 11:27	Surr: Nonane	95	(57-147) %REC	10/22/09 09:23	10/22/09
		TPH-P (GRO)	ND	0.050 mg/L	10/21/09	10/21/09
		Surr: 1,2-Dichloroethane-d4	102	(70-130) %REC	10/21/09	10/21/09
		Surr: Toluene-d8	104	(70-130) %REC	10/21/09	10/21/09
		Surr: 4-Bromofluorobenzene	93	(70-130) %REC	10/21/09	10/21/09
Client ID :	EXP-5					
Lab ID :	GMT09102041-05A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/22/09 09:23	10/22/09
Date Sampled	10/19/09 12:12	Surr: Nonane	93	(57-147) %REC	10/22/09 09:23	10/22/09
		TPH-P (GRO)	ND	0.050 mg/L	10/21/09	10/21/09
		Surr: 1,2-Dichloroethane-d4	104	(70-130) %REC	10/21/09	10/21/09
		Surr: Toluene-d8	103	(70-130) %REC	10/21/09	10/21/09
		Surr: 4-Bromofluorobenzene	91	(70-130) %REC	10/21/09	10/21/09
Client ID :	GMW-13					
Lab ID :	GMT09102041-06A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/22/09 09:23	10/22/09
Date Sampled	10/19/09 12:57	Surr: Nonane	94	(57-147) %REC	10/22/09 09:23	10/22/09
		TPH-P (GRO)	ND	0.050 mg/L	10/21/09	10/21/09
		Surr: 1,2-Dichloroethane-d4	103	(70-130) %REC	10/21/09	10/21/09
		Surr: Toluene-d8	102	(70-130) %REC	10/21/09	10/21/09
		Surr: 4-Bromofluorobenzene	93	(70-130) %REC	10/21/09	10/21/09



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Client ID :	GMW-37					
Lab ID :	GMT09102041-07A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/22/09 09:23	10/22/09
Date Sampled	10/19/09 13:46	Surr: Nonane	92	(57-147) %REC	10/22/09 09:23	10/22/09
		TPH-P (GRO)	ND	0.050 mg/L	10/21/09	10/21/09
		Surr: 1,2-Dichloroethane-d4	102	(70-130) %REC	10/21/09	10/21/09
		Surr: Toluene-d8	104	(70-130) %REC	10/21/09	10/21/09
		Surr: 4-Bromofluorobenzene	95	(70-130) %REC	10/21/09	10/21/09
Client ID :	GMW-8					
Lab ID :	GMT09102041-08A	TPH-E (Fuel Product)	0.12 *	0.10 mg/L	10/22/09 09:23	10/22/09
Date Sampled	10/19/09 14:33	Surr: Nonane	92	(57-147) %REC	10/22/09 09:23	10/22/09
		TPH-P (GRO)	ND	0.050 mg/L	10/22/09	10/22/09
		Surr: 1,2-Dichloroethane-d4	102	(70-130) %REC	10/22/09	10/22/09
		Surr: Toluene-d8	102	(70-130) %REC	10/22/09	10/22/09
		Surr: 4-Bromofluorobenzene	94	(70-130) %REC	10/22/09	10/22/09
Client ID :	EB-1					
Lab ID :	GMT09102041-10A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/22/09 09:23	10/22/09
Date Sampled	10/19/09 15:00	Surr: Nonane	95	(57-147) %REC	10/22/09 09:23	10/22/09
		TPH-P (GRO)	ND	0.050 mg/L	10/21/09	10/21/09
		Surr: 1,2-Dichloroethane-d4	104	(70-130) %REC	10/21/09	10/21/09
		Surr: Toluene-d8	101	(70-130) %REC	10/21/09	10/21/09
		Surr: 4-Bromofluorobenzene	95	(70-130) %REC	10/21/09	10/21/09

*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 / info@alpha-analytical.com

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

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

[Signature]
10/28/09

Report Date



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Alpha Analytical Number: GMT09102041-01A
Client I.D. Number: EXP-1

Sampled: 10/19/09 08:48
Received: 10/20/09
Extracted: 10/21/09
Analyzed: 10/21/09

Volatile Organics by GC/MS EPA Method SW8260B

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

ND = Not Detected

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Randy Gardner

Walter Hinchman

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Client I.D. Number: EXP-2

Sampled: 10/19/09 09:38
Received: 10/20/09
Extracted: 10/21/09
Analyzed: 10/21/09

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	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	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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Extracted: 10/21/09
Analyzed: 10/21/09

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Styrene	ND	1.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	ND	0.50 µg/L
7 Acetone	ND	10 µg/L	51 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,2,3-Trichloropropane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 Isopropylbenzene	ND	1.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Bromobenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 n-Propylbenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 4-Chlorotoluene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 2-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 1,3,5-Trimethylbenzene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 tert-Butylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 1,2,4-Trimethylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 sec-Butylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 1,3-Dichlorobenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,4-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 4-Isopropyltoluene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 1,2-Dichlorobenzene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 n-Butylbenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2,4-Trichlorobenzene	ND	2.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 Naphthalene	ND	10 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 1,2,3-Trichlorobenzene	ND	2.0 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	101	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	103	(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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VPJ

10/28/09

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

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102041-04A
Client I.D. Number: EXP-4

Sampled: 10/19/09 11:27
Received: 10/20/09
Extracted: 10/21/09
Analyzed: 10/21/09

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	104	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	93	(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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ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102041-05A
Client I.D. Number: EXP-5

Sampled: 10/19/09 12:12
Received: 10/20/09
Extracted: 10/21/09
Analyzed: 10/21/09

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	104	(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	91	(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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ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102041-06A
Client I.D. Number: GMW-13

Sampled: 10/19/09 12:57
Received: 10/20/09
Extracted: 10/21/09
Analyzed: 10/21/09

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	103	(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	93	(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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[Signature]

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ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102041-07A
Client I.D. Number: GMW-37

Sampled: 10/19/09 13:46
Received: 10/20/09
Extracted: 10/21/09
Analyzed: 10/21/09

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	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	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer

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Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shiow-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102041-08A
Client I.D. Number: GMW-8

Sampled: 10/19/09 14:33
Received: 10/20/09
Extracted: 10/22/09
Analyzed: 10/22/09

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)	1.5	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	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

Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / info@alpha-analytical.com

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JSC

10/28/09

Report Date

Page 1 of 1



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shiow-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102041-09A
Client I.D. Number: TB-1

Sampled: 10/19/09 08:00
Received: 10/20/09
Extracted: 10/21/09
Analyzed: 10/21/09

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	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 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 / info@alpha-analytical.com

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

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10/28/09

Report Date

Page 1 of 1



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shiow-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102041-10A
Client I.D. Number: EB-1

Sampled: 10/19/09 15:00
Received: 10/20/09
Extracted: 10/21/09
Analyzed: 10/21/09

Volatile Organics by GC/MS EPA Method SW8260B

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

10/28/09

Report Date

Page 1 of 1



Alpha Analytical, Inc.

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

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

VOC Sample Preservation Report

Work Order: GMT09102041

Job: KMEP Norwalk

Alpha's Sample ID	Client's Sample ID	Matrix	pH
09102041-01A	EXP-1	Aqueous	2
09102041-02A	EXP-2	Aqueous	2
09102041-03A	EXP-3	Aqueous	2
09102041-04A	EXP-4	Aqueous	2
09102041-05A	EXP-5	Aqueous	2
09102041-06A	GMW-13	Aqueous	2
09102041-07A	GMW-37	Aqueous	2
09102041-08A	GMW-8	Aqueous	2
09102041-09A	TB-1	Aqueous	2
09102041-10A	EB-1	Aqueous	2

10/28/09
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

QC Summary Report

Date:
27-Oct-09

Work Order:
09102041

Method Blank

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (Fuel Product)	ND	0.1								
Surr: Nonane	0.132		0.15		88	57	147			

Laboratory Control Spike

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.47	0.05	2.5		99	67	130			
Surr: Nonane	0.157		0.15		105	57	147			

Sample Matrix Spike

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.68	0.05	2.5	0	107	49	150			
Surr: Nonane	0.138		0.15		92	57	147			

Sample Matrix Spike Duplicate

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.53	0.05	2.5	0	101	49	150	2.684	6.1(38)	
Surr: Nonane	0.122		0.15		81	57	147			

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:
27-Oct-09

QC Summary Report

Work Order:
09102041

Method Blank

Method Blank		Type	Test Code: EPA Method SW8015							
File ID: 09102108.D		MBLK	Batch ID: MS15W1021B					Analysis Date: 10/21/2009 10:50		
Sample ID:	MBLK MS15W1021B	Units : mg/L	Run ID: MSD_15_091021B			Prep Date: 10/21/2009 10:50				
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	0.0105		0.01		105	70	130			
Surr: Toluene-d8	0.0101		0.01		101	70	130			
Surr: 4-Bromofluorobenzene	0.00935		0.01		94	70	130			

Laboratory Control Spike

Laboratory Control Spike		Type	Test Code: EPA Method SW8015							
File ID: 09102103.D		LCS	Batch ID: MS15W1021B					Analysis Date: 10/21/2009 08:59		
Sample ID:	GLCS MS15W1021B	Units : mg/L	Run ID: MSD_15_091021B			Prep Date: 10/21/2009 08:59				
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.419	0.05	0.4		105	70	130			
Surr: 1,2-Dichloroethane-d4	0.0099		0.01		99	70	130			
Surr: Toluene-d8	0.00985		0.01		99	70	130			
Surr: 4-Bromofluorobenzene	0.00978		0.01		98	70	130			

Sample Matrix Spike

Sample Matrix Spike		Type	Test Code: EPA Method SW8015							
File ID: 09102116.D		MS	Batch ID: MS15W1021B					Analysis Date: 10/21/2009 13:48		
Sample ID:	09102041-01AGS	Units : mg/L	Run ID: MSD_15_091021B			Prep Date: 10/21/2009 13:48				
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.84	0.25	2		0	92	58	135		
Surr: 1,2-Dichloroethane-d4	0.0527		0.05		105	70	130			
Surr: Toluene-d8	0.0479		0.05		96	70	130			
Surr: 4-Bromofluorobenzene	0.0473		0.05		95	70	130			

Sample Matrix Spike Duplicate

Sample Matrix Spike Duplicate		Type	Test Code: EPA Method SW8015							
File ID: 09102117.D		MSD	Batch ID: MS15W1021B					Analysis Date: 10/21/2009 14:10		
Sample ID:	09102041-01AGSD	Units : mg/L	Run ID: MSD_15_091021B			Prep Date: 10/21/2009 14:10				
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.91	0.25	2		0	96	58	135	1.843	3.8(20)
Surr: 1,2-Dichloroethane-d4	0.0533		0.05		107	70	130			
Surr: Toluene-d8	0.0484		0.05		97	70	130			
Surr: 4-Bromofluorobenzene	0.0468		0.05		94	70	130			

Comments:

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

Date:
28-Oct-09

QC Summary Report

Work Order:
09102041

Method Blank

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

File ID: **09102108.D**

Batch ID: **MS15W1021A**

Analysis Date: **10/21/2009 10:50**

Sample ID: **MBLK MS15W1021A**

Units : **µg/L**

Run ID: **MSD_15_091021B**

Prep Date: **10/21/2009 10:50**

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

Date:
28-Oct-09

QC Summary Report

Work Order:
09102041

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	10.5		10		105	70	130		
Surr: Toluene-d8	10.1		10		101	70	130		
Surr: 4-Bromofluorobenzene	9.35		10		94	70	130		

Laboratory Control Spike

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

File ID: **09102105.D**

Batch ID: **MS15W1021A**

Analysis Date: **10/21/2009 09:43**

Sample ID: **LCS MS15W1021A**

Units : **µg/L**

Run ID: **MSD_15_091021B**

Prep Date: **10/21/2009 09:43**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	11.4	1	10		114	80	120			
Methyl tert-butyl ether (MTBE)	11.4	0.5	10		114	62	136			
Benzene	10.7	0.5	10		107	70	130			
Trichloroethene	10.8	1	10		108	70	130			
Toluene	9.72	0.5	10		97	80	120			
Chlorobenzene	10.9	1	10		109	70	130			
Ethylbenzene	10.2	0.5	10		102	80	120			
m,p-Xylene	10.4	0.5	10		104	70	130			
o-Xylene	10.3	0.5	10		103	70	130			
Surr: 1,2-Dichloroethane-d4	10.1		10		101	70	130			
Surr: Toluene-d8	9.86		10		99	70	130			
Surr: 4-Bromofluorobenzene	9.73		10		97	70	130			

Sample Matrix Spike

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

File ID: **09102114.D**

Batch ID: **MS15W1021A**

Analysis Date: **10/21/2009 13:04**

Sample ID: **09102041-01AMS**

Units : **µg/L**

Run ID: **MSD_15_091021B**

Prep Date: **10/21/2009 13:04**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	50.7	2.5	50		0 101	60	130			
Methyl tert-butyl ether (MTBE)	54.3	1.3	50		0 109	56	141			
Benzene	48.2	1.3	50		0 96	67	130			
Trichloroethene	47.5	2.5	50		0 95	69	130			
Toluene	43.5	1.3	50		0 87	66	130			
Chlorobenzene	48.3	2.5	50		0 97	70	130			
Ethylbenzene	45	1.3	50		0 90	68	130			
m,p-Xylene	45.7	1.3	50		0 91	64	130			
o-Xylene	46	1.3	50		0 92	70	130			
Surr: 1,2-Dichloroethane-d4	50.1		50		100	70	130			
Surr: Toluene-d8	49.4		50		99	70	130			
Surr: 4-Bromofluorobenzene	49.1		50		98	70	130			

Sample Matrix Spike Duplicate

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

File ID: **09102115.D**

Batch ID: **MS15W1021A**

Analysis Date: **10/21/2009 13:26**

Sample ID: **09102041-01AMSD**

Units : **µg/L**

Run ID: **MSD_15_091021B**

Prep Date: **10/21/2009 13:26**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	44.2	2.5	50		0 88	60	130	50.71	13.6(20)	
Methyl tert-butyl ether (MTBE)	53.1	1.3	50		0 106	56	141	54.25	2.2(20)	
Benzene	44.1	1.3	50		0 88	67	130	48.16	8.8(20)	
Trichloroethene	42.6	2.5	50		0 85	69	130	47.51	11.0(20)	
Toluene	39.1	1.3	50		0 78	66	130	43.51	10.7(20)	
Chlorobenzene	44.4	2.5	50		0 89	70	130	48.27	8.5(20)	
Ethylbenzene	40.1	1.3	50		0 80	68	130	44.98	11.6(20)	
m,p-Xylene	40.6	1.3	50		0 81	64	130	45.72	12.0(20)	
o-Xylene	41.8	1.3	50		0 84	70	130	46.04	9.8(20)	
Surr: 1,2-Dichloroethane-d4	50.5		50		101	70	130			
Surr: Toluene-d8	48.9		50		98	70	130			
Surr: 4-Bromofluorobenzene	49		50		98	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:
28-Oct-09

QC Summary Report

Work Order:
09102041

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

Page: 1 of 2

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

CA
 WorkOrder : GMT09102041
 Report Due By : 5:00 PM On : 29-Oct-09

Client: AMEC Geomatrix Consultants
 510 Superior Avenue, Suite 200
 Newport Beach, CA 92663-3627

Report Attention: Phone Number: Email Address
 Shiow-Whei Chou (949) 642-0245 x shiow-whei.chou@amec.com
 Thandar Phyu (949) 642-0245 x 7630 thandar.phyu@amec.com

Report J Values down to MDL : Yes
 EDD Required : Yes
 Sampled by : Bret Barker

PO :
 Client's COC # : none

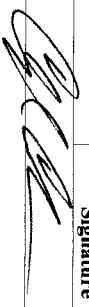
Job : KMEP Norwalk

Cooler Temp : 4 °C
 Samples Received : 20-Oct-09
 Date Printed : 20-Oct-09

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix	Date	No. of Bottles	Alpha Sub	TAT	Requested Tests			Sample Remarks
							TPHE_W	TPHP_W	VOC_W	
GMT09102041-01A	EXP-1	AQ	10/19/09	6	0	7	TPHE(0.10) +Vmyl acetate	TPHP(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	
GMT09102041-02A	EXP-2	AQ	10/19/09	6	0	7	TPHE(0.10) +Vmyl acetate	TPHP(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	
GMT09102041-03A	EXP-3	AQ	10/19/09	6	0	7	TPHE(0.10) +Vmyl acetate	TPHP(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	
GMT09102041-04A	EXP-4	AQ	10/19/09	6	0	7	TPHE(0.10) +Vmyl acetate	TPHP(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	
GMT09102041-05A	EXP-5	AQ	10/19/09	6	0	7	TPHE(0.10) +Vmyl acetate	TPHP(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	
GMT09102041-06A	GMW-13	AQ	10/19/09	6	0	7	TPHE(0.10) +Vmyl acetate	TPHP(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	
GMT09102041-07A	GMW-37	AQ	10/19/09	6	0	7	TPHE(0.10) +Vmyl acetate	TPHP(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	
GMT09102041-08A	GMW-8	AQ	10/19/09	6	0	7	TPHE(0.10) +Vmyl acetate	TPHP(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	

Comments: Security Seals intact. Frozen Ice. Analysis: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values.

Logged in by:  _____
 Signature _____ Print Name Cheryl Gamble
 Company Alpha Analytical, Inc. Date/Time 10/20/09 11:35am

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

Page: 2 of 2

Alpha Analytical, Inc.

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

WorkOrder : GMTTC09102041
Report Due By : 5:00 PM On : 29-Oct-09

Client: AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 92663-3627

Report Attention: Phone Number Email Address
Shiow-Wei Chou (949) 642-0245 x shiow-wei.chou@amec.com
Thandar Phyu (949) 642-0245 x 7630 thandar.phyu@amec.com

Report J Values down to MDL : Yes

EDD Required : Yes

Sampled by : Bret Barker

PO : Client's COC # : none

Job : KMEP Norwalk
Cooler Temp 4 °C Samples Received 20-Oct-09 Date Printed 20-Oct-09

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix	Date	No. of Bottles			Requested Tests			Sample Remarks
				Alpha	Sub	TAT	TPHE_W	TPHP_W	VOC_W	
GMT09102041-09A	TB-1	AQ	10/19/09 08:00	3	0	7	TPHE(0.10) +Vmyl acetate	TPHP(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	RENO TRIP BLANKS (1) 8/21/09 (2) 9/8/09
GMT09102041-10A	EB-1	AQ	10/19/09 15:00	6	0	7	TPHE(0.10) +Vmyl acetate	TPHP(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	

Comments: Security Seals intact. Frozen Ice. Analysis: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values.

Logged in by:  Signature _____ Print Name Cheryl Gamble Company Alpha Analytical, Inc. Date/Time 10/20/09 11:35am

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

CONDUCT ANALYSIS TO DETECT

LAB

Alpha Analytical COC 1 of 1

Billing Information:
 Kinder Morgan
 1100 Town and Country Rd.
 Orange CA 95112

Kinder Morgan Norwalk
 Report to:
 Thandat Phyu and Shioh-Whei Chou
 AMEC Geomatrix, Inc.
 510 Superior Ave. Suite 200
 Newport Beach, CA 92663

CHAIN OF CUSTODY

CLIENT Kinder Morgan

SITE Norwalk

15306 Norwalk Blvd, Norwalk

SAMPLE I.D.	DATE	TIME	MATRIX A Q Water	#	Preservation	Type	CONTAINERS		TPHg, TPHfp (EPA 8015M)	VOC's & Oxygenates (EPA 8260B)	ADDITIONAL INFORMATION	STATUS	CONDITION	LAB SAMPLE #
EXP-1	10/19/09	0848	AQ	6	HCL	VOA	X	X	X					GM109102041-01A
EXP-2		0938		6			X	X	X					-02A
EXP-3		1038		6			X	X	X					-03A
EXP-4		1127		6			X	X	X					-04A
EXP-5		1212		6			X	X	X					-05A
GMW-13		1257		6			X	X	X					-06A
GMW-37		1346		6			X	X	X					-07A
GMW-8		1433		6			X	X	X					-08A
TB-1		0800		3			X	X	X					-09A
EB-1		1500		6			X	X	X					-10A

SAMPLING PERFORMED BY *Bret Barke*

RESULTS NEEDED
 NO LATER THAN

Standard

RELEASED BY *[Signature]* TIME 1605 RECEIVED BY *[Signature]* DATE 10/19/09 TIME 1610
 RELEASED BY *[Signature]* TIME 1010 RECEIVED BY *[Signature]* DATE 10/19/09 TIME 1610

SHIPPED VIA _____ TIME SENT _____ COOLER # _____

DATE 10/20/09 TIME 11:23am



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

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474
Date Received : 10/21/09

Job: KMEP Norwalk

Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B
Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B

	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID :	GMW-O-1				
Lab ID :	GMT09102101-01A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/22/09 09:23
Date Sampled	10/20/09 07:45	Surr: Nonane	96	(57-147) %REC	10/22/09 09:23
		TPH-P (GRO)	ND	0.050 mg/L	10/22/09
		Surr: 1,2-Dichloroethane-d4	98	(70-130) %REC	10/22/09
		Surr: Toluene-d8	104	(70-130) %REC	10/22/09
		Surr: 4-Bromofluorobenzene	102	(70-130) %REC	10/22/09
Client ID :	GMW-O-19				
Lab ID :	GMT09102101-02A	TPH-E (Fuel Product)	ND	0.20 mg/L	10/22/09 09:23
Date Sampled	10/20/09 08:28	Surr: Nonane	95	(57-147) %REC	10/22/09 09:23
		TPH-P (GRO)	ND	0.050 mg/L	10/22/09
		Surr: 1,2-Dichloroethane-d4	98	(70-130) %REC	10/22/09
		Surr: Toluene-d8	105	(70-130) %REC	10/22/09
		Surr: 4-Bromofluorobenzene	103	(70-130) %REC	10/22/09
Client ID :	GMW-O-2				
Lab ID :	GMT09102101-03A	TPH-E (Fuel Product)	0.13 **	0.10 mg/L	10/22/09 09:23
Date Sampled	10/20/09 09:50	Surr: Nonane	91	(57-147) %REC	10/22/09 09:23
		TPH-P (GRO)	ND	0.050 mg/L	10/22/09
		Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC	10/22/09
		Surr: Toluene-d8	103	(70-130) %REC	10/22/09
		Surr: 4-Bromofluorobenzene	101	(70-130) %REC	10/22/09
Client ID :	GMW-O-3				
Lab ID :	GMT09102101-04A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/22/09 09:23
Date Sampled	10/20/09 10:53	Surr: Nonane	88	(57-147) %REC	10/22/09 09:23
		TPH-P (GRO)	ND	0.050 mg/L	10/22/09
		Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC	10/22/09
		Surr: Toluene-d8	100	(70-130) %REC	10/22/09
		Surr: 4-Bromofluorobenzene	100	(70-130) %REC	10/22/09
Client ID :	GMW-O-4				
Lab ID :	GMT09102101-05A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/22/09 09:23
Date Sampled	10/20/09 11:55	Surr: Nonane	97	(57-147) %REC	10/22/09 09:23
		TPH-P (GRO)	ND	0.050 mg/L	10/22/09
		Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC	10/22/09
		Surr: Toluene-d8	103	(70-130) %REC	10/22/09
		Surr: 4-Bromofluorobenzene	102	(70-130) %REC	10/22/09
Client ID :	GMW-O-4 (MID)				
Lab ID :	GMT09102101-06A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/22/09 09:23
Date Sampled	10/20/09 12:40	Surr: Nonane	97	(57-147) %REC	10/22/09 09:23
		TPH-P (GRO)	ND	0.050 mg/L	10/22/09
		Surr: 1,2-Dichloroethane-d4	98	(70-130) %REC	10/22/09
		Surr: Toluene-d8	104	(70-130) %REC	10/22/09
		Surr: 4-Bromofluorobenzene	102	(70-130) %REC	10/22/09



Alpha Analytical, Inc.

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Client ID :	GMW-O-5						
Lab ID :	GMT09102101-07A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/22/09 09:23	10/22/09	
Date Sampled	10/20/09 13:20	Surr: Nonane	93	(57-147) %REC	10/22/09 09:23	10/22/09	
		TPH-P (GRO)	ND	0.050 mg/L	10/22/09	10/22/09	
		Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC	10/22/09	10/22/09	
		Surr: Toluene-d8	103	(70-130) %REC	10/22/09	10/22/09	
		Surr: 4-Bromofluorobenzene	102	(70-130) %REC	10/22/09	10/22/09	
Client ID :	GMW-O-9						
Lab ID :	GMT09102101-08A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/22/09 09:23	10/23/09	
Date Sampled	10/20/09 14:05	Surr: Nonane	88	(57-147) %REC	10/22/09 09:23	10/23/09	
		TPH-P (GRO)	ND	0.050 mg/L	10/22/09	10/22/09	
		Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC	10/22/09	10/22/09	
		Surr: Toluene-d8	103	(70-130) %REC	10/22/09	10/22/09	
		Surr: 4-Bromofluorobenzene	100	(70-130) %REC	10/22/09	10/22/09	
Client ID :	EB-2						
Lab ID :	GMT09102101-09A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/22/09 09:23	10/23/09	
Date Sampled	10/20/09 15:00	Surr: Nonane	92	(57-147) %REC	10/22/09 09:23	10/23/09	
		TPH-P (GRO)	ND	0.050 mg/L	10/23/09	10/23/09	
		Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC	10/23/09	10/23/09	
		Surr: Toluene-d8	102	(70-130) %REC	10/23/09	10/23/09	
		Surr: 4-Bromofluorobenzene	102	(70-130) %REC	10/23/09	10/23/09	
Client ID :	TB-2						
Lab ID :	GMT09102101-10A						
Date Sampled	10/20/09 07:10						

The TPH-E reporting limit was increased on GMW-O-19 due to matrix interference.

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

Gasoline Range Organics (GRO) C4-C13

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / info@alpha-analytical.com

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

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

10/30/09

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

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102101-01A
Client I.D. Number: GMW-O-1

Sampled: 10/20/09 07:45
Received: 10/21/09
Extracted: 10/22/09
Analyzed: 10/22/09

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Styrene	ND	1.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	ND	0.50 µg/L
7 Acetone	ND	10 µg/L	51 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,2,3-Trichloropropane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 Isopropylbenzene	ND	1.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Bromobenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 n-Propylbenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 4-Chlorotoluene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 2-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 1,3,5-Trimethylbenzene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 tert-Butylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 1,2,4-Trimethylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 sec-Butylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 1,3-Dichlorobenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,4-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 4-Isopropyltoluene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 1,2-Dichlorobenzene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 n-Butylbenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2,4-Trichlorobenzene	ND	2.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 Naphthalene	ND	10 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 1,2,3-Trichlorobenzene	ND	2.0 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	98	(70-130) %REC
28 Benzene	ND	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	102	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / info@alpha-analytical.com

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Page 1 of 1



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102101-02A
Client I.D. Number: GMW-O-19

Sampled: 10/20/09 08:28
Received: 10/21/09
Extracted: 10/22/09
Analyzed: 10/22/09

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	98	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	105	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	103	(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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ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102101-03A
Client I.D. Number: GMW-O-2

Sampled: 10/20/09 09:50
Received: 10/21/09
Extracted: 10/22/09
Analyzed: 10/22/09

Volatile Organics by GC/MS EPA Method SW8260B

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

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Alpha Analytical, Inc.

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ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102101-04A
Client I.D. Number: GMW-O-3

Sampled: 10/20/09 10:53
Received: 10/21/09
Extracted: 10/22/09
Analyzed: 10/22/09

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	1.0 µg/L	50 o-Xylene	ND	0.50 µg/L
7 Acetone	ND	10 µg/L	51 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,2,3-Trichloropropane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 Isopropylbenzene	ND	1.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Bromobenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 n-Propylbenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 4-Chlorotoluene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 2-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 1,3,5-Trimethylbenzene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 tert-Butylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 1,2,4-Trimethylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 sec-Butylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 1,3-Dichlorobenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,4-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 4-Isopropyltoluene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 1,2-Dichlorobenzene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 n-Butylbenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2,4-Trichlorobenzene	ND	2.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 Naphthalene	ND	10 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 1,2,3-Trichlorobenzene	ND	2.0 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	100	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	100	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer

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PS

10/29/09

Report Date

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Alpha Analytical, Inc.

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

ANALYTICAL REPORT

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Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102101-05A
Client I.D. Number: GMW-O-4

Sampled: 10/20/09 11:55
Received: 10/21/09
Extracted: 10/22/09
Analyzed: 10/22/09

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	1.0 µg/L	50 o-Xylene	ND	0.50 µg/L
7 Acetone	ND	10 µg/L	51 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,2,3-Trichloropropane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 Isopropylbenzene	ND	1.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Bromobenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 n-Propylbenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 4-Chlorotoluene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 2-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 1,3,5-Trimethylbenzene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 tert-Butylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 1,2,4-Trimethylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 sec-Butylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 1,3-Dichlorobenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,4-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 4-Isopropyltoluene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 1,2-Dichlorobenzene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 n-Butylbenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2,4-Trichlorobenzene	ND	2.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 Naphthalene	ND	10 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 1,2,3-Trichlorobenzene	ND	2.0 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	103	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	102	(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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[Signature]
10/29/09

Report Date



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Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102101-06A
Client I.D. Number: GMW-O-4 (MID)

Sampled: 10/20/09 12:40
Received: 10/21/09
Extracted: 10/22/09
Analyzed: 10/22/09

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	98	(70-130) %REC
28 Benzene	ND	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	102	(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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[Signature]
10/29/09

Report Date

Page 1 of 1



Alpha Analytical, Inc.

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ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102101-07A
Client I.D. Number: GMW-O-5

Sampled: 10/20/09 13:20
Received: 10/21/09
Extracted: 10/22/09
Analyzed: 10/22/09

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Styrene	ND	1.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	ND	0.50 µg/L
7 Acetone	ND	10 µg/L	51 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,2,3-Trichloropropane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 Isopropylbenzene	ND	1.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Bromobenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 n-Propylbenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 4-Chlorotoluene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 2-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 1,3,5-Trimethylbenzene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 tert-Butylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 1,2,4-Trimethylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 sec-Butylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 1,3-Dichlorobenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,4-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 4-Isopropyltoluene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 1,2-Dichlorobenzene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 n-Butylbenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2,4-Trichlorobenzene	ND	2.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 Naphthalene	ND	10 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 1,2,3-Trichlorobenzene	ND	2.0 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	103	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	102	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer

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10/29/09

Report Date



Alpha Analytical, Inc.

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ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102101-08A
Client I.D. Number: GMW-O-9

Sampled: 10/20/09 14:05
Received: 10/21/09
Extracted: 10/22/09
Analyzed: 10/22/09

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Styrene	ND	1.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	ND	0.50 µg/L
7 Acetone	ND	10 µg/L	51 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,2,3-Trichloropropane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 Isopropylbenzene	ND	1.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Bromobenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 n-Propylbenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 4-Chlorotoluene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 2-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 1,3,5-Trimethylbenzene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 tert-Butylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 1,2,4-Trimethylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 sec-Butylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 1,3-Dichlorobenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,4-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 4-Isopropyltoluene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 1,2-Dichlorobenzene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 n-Butylbenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2,4-Trichlorobenzene	ND	2.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 Naphthalene	ND	10 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 1,2,3-Trichlorobenzene	ND	2.0 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	100	(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	100	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

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10/29/09

Report Date

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Alpha Analytical, Inc.

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ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102101-09A
Client I.D. Number: EB-2

Sampled: 10/20/09 15:00
Received: 10/21/09
Extracted: 10/23/09
Analyzed: 10/23/09

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	1.0 µg/L	50 o-Xylene	ND	0.50 µg/L
7 Acetone	ND	10 µg/L	51 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,2,3-Trichloropropane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 Isopropylbenzene	ND	1.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Bromobenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 n-Propylbenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 4-Chlorotoluene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 2-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 1,3,5-Trimethylbenzene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 tert-Butylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 1,2,4-Trimethylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 sec-Butylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 1,3-Dichlorobenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,4-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 4-Isopropyltoluene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 1,2-Dichlorobenzene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 n-Butylbenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2,4-Trichlorobenzene	ND	2.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 Naphthalene	ND	10 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 1,2,3-Trichlorobenzene	ND	2.0 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	102	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	102	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

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10/29/09

Report Date

Page 1 of 1



Alpha Analytical, Inc.

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ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102101-10A
Client I.D. Number: TB-2

Sampled: 10/20/09 07:10
Received: 10/21/09
Extracted: 10/22/09
Analyzed: 10/22/09

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	97	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	105	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	102	(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 / info@alpha-analytical.com

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

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

10/29/09

Report Date

Page 1 of 1



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

VOC Sample Preservation Report

Work Order: GMT09102101

Job: KMEP Norwalk

Alpha's Sample ID	Client's Sample ID	Matrix	pH
09102101-01A	GMW-O-1	Aqueous	2
09102101-02A	GMW-O-19	Aqueous	2
09102101-03A	GMW-O-2	Aqueous	2
09102101-04A	GMW-O-3	Aqueous	2
09102101-05A	GMW-O-4	Aqueous	2
09102101-06A	GMW-O-4 (MID)	Aqueous	2
09102101-07A	GMW-O-5	Aqueous	2
09102101-08A	GMW-O-9	Aqueous	2
09102101-09A	EB-2	Aqueous	2
09102101-10A	TB-2	Aqueous	2

10/29/09

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:
28-Oct-09

QC Summary Report

Work Order:
09102101

Method Blank

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (Fuel Product)	ND	0.1								
Surr: Nonane	0.132		0.15		88	57	147			

Laboratory Control Spike

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.47	0.05	2.5		99	67	130			
Surr: Nonane	0.157		0.15		105	57	147			

Sample Matrix Spike

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.68	0.05	2.5	0	107	49	150			
Surr: Nonane	0.138		0.15		92	57	147			

Sample Matrix Spike Duplicate

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.53	0.05	2.5	0	101	49	150	2.684	6.1(38)	
Surr: Nonane	0.122		0.15		81	57	147			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
28-Oct-09

QC Summary Report

Work Order:
09102101

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015**

File ID: C:\HPCHEM\MS07\DATA\091022\09102206.D

Batch ID: **MS07W1022B**

Analysis Date: **10/22/2009 18:24**

Sample ID: **MBLK MS07W1022B**

Units : **mg/L**

Run ID: **MSD_07_091022A**

Prep Date: **10/22/2009 18:24**

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	0.00976		0.01		98	70	130			
Surr: Toluene-d8	0.0103		0.01		103	70	130			
Surr: 4-Bromofluorobenzene	0.0101		0.01		101	70	130			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015**

File ID: C:\HPCHEM\MS07\DATA\091022\09102203.D

Batch ID: **MS07W1022B**

Analysis Date: **10/22/2009 17:16**

Sample ID: **GLCS MS07W1022B**

Units : **mg/L**

Run ID: **MSD_07_091022A**

Prep Date: **10/22/2009 17:16**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.382	0.05	0.4		95	70	130			
Surr: 1,2-Dichloroethane-d4	0.00968		0.01		97	70	130			
Surr: Toluene-d8	0.0101		0.01		101	70	130			
Surr: 4-Bromofluorobenzene	0.0102		0.01		102	70	130			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8015**

File ID: C:\HPCHEM\MS07\DATA\091022\09102211.D

Batch ID: **MS07W1022B**

Analysis Date: **10/22/2009 20:19**

Sample ID: **09102101-01AGS**

Units : **mg/L**

Run ID: **MSD_07_091022A**

Prep Date: **10/22/2009 20:19**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.9	0.25	2	0	95	58	135			
Surr: 1,2-Dichloroethane-d4	0.0474		0.05		95	70	130			
Surr: Toluene-d8	0.0511		0.05		102	70	130			
Surr: 4-Bromofluorobenzene	0.0513		0.05		103	70	130			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8015**

File ID: C:\HPCHEM\MS07\DATA\091022\09102212.D

Batch ID: **MS07W1022B**

Analysis Date: **10/22/2009 20:42**

Sample ID: **09102101-01AGSD**

Units : **mg/L**

Run ID: **MSD_07_091022A**

Prep Date: **10/22/2009 20:42**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.86	0.25	2	0	93	58	135	1.9	2.2(20)	
Surr: 1,2-Dichloroethane-d4	0.0479		0.05		96	70	130			
Surr: Toluene-d8	0.0509		0.05		102	70	130			
Surr: 4-Bromofluorobenzene	0.051		0.05		102	70	130			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Alpha Analytical, Inc.

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

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

Date:
28-Oct-09

QC Summary Report

Work Order:
09102101

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	9.76		10	98	70	130	
Surr: Toluene-d8	10.3		10	103	70	130	
Surr: 4-Bromofluorobenzene	10.1		10	101	70	130	

Laboratory Control Spike

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

File ID: C:\HPCHEM\MS07\DATA\091022\09102204.D

Batch ID: **MS07W1022A**

Analysis Date: **10/22/2009 17:40**

Sample ID: **LCS MS07W1022A**

Units: **µg/L**

Run ID: **MSD_07_091022A**

Prep Date: **10/22/2009 17:40**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	9.78	1	10		98	80	120			
Methyl tert-butyl ether (MTBE)	9.66	0.5	10		97	62	136			
Benzene	10.2	0.5	10		102	70	130			
Trichloroethene	9.62	1	10		96	70	130			
Toluene	9.94	0.5	10		99	80	120			
Chlorobenzene	10	1	10		100	70	130			
Ethylbenzene	9.16	0.5	10		92	80	120			
m,p-Xylene	10.4	0.5	10		104	70	130			
o-Xylene	10.6	0.5	10		106	70	130			
Surr: 1,2-Dichloroethane-d4	9.71		10		97	70	130			
Surr: Toluene-d8	10.1		10		101	70	130			
Surr: 4-Bromofluorobenzene	9.7		10		97	70	130			

Sample Matrix Spike

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

File ID: C:\HPCHEM\MS07\DATA\091022\09102209.D

Batch ID: **MS07W1022A**

Analysis Date: **10/22/2009 19:33**

Sample ID: **09102101-01AMS**

Units: **µg/L**

Run ID: **MSD_07_091022A**

Prep Date: **10/22/2009 19:33**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	46.2	2.5	50	0	92	60	130			
Methyl tert-butyl ether (MTBE)	44.5	1.3	50	0	89	56	141			
Benzene	49.9	1.3	50	0	99.8	67	130			
Trichloroethene	45.9	2.5	50	0	92	69	130			
Toluene	47.2	1.3	50	0	94	66	130			
Chlorobenzene	48.9	2.5	50	0	98	70	130			
Ethylbenzene	44.3	1.3	50	0	89	68	130			
m,p-Xylene	49.6	1.3	50	0	99	64	130			
o-Xylene	51	1.3	50	0	102	70	130			
Surr: 1,2-Dichloroethane-d4	48.7		50		97	70	130			
Surr: Toluene-d8	49.3		50		99	70	130			
Surr: 4-Bromofluorobenzene	47		50		94	70	130			

Sample Matrix Spike Duplicate

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

File ID: C:\HPCHEM\MS07\DATA\091022\09102210.D

Batch ID: **MS07W1022A**

Analysis Date: **10/22/2009 19:56**

Sample ID: **09102101-01AMSD**

Units: **µg/L**

Run ID: **MSD_07_091022A**

Prep Date: **10/22/2009 19:56**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	47	2.5	50	0	94	60	130	46.21	1.7(20)	
Methyl tert-butyl ether (MTBE)	47.2	1.3	50	0	94	56	141	44.53	5.8(20)	
Benzene	51.4	1.3	50	0	103	67	130	49.9	2.9(20)	
Trichloroethene	46.9	2.5	50	0	94	69	130	45.89	2.1(20)	
Toluene	49	1.3	50	0	98	66	130	47.24	3.6(20)	
Chlorobenzene	50.9	2.5	50	0	102	70	130	48.89	4.0(20)	
Ethylbenzene	46.1	1.3	50	0	92	68	130	44.26	4.0(20)	
m,p-Xylene	51.3	1.3	50	0	103	64	130	49.59	3.4(20)	
o-Xylene	53	1.3	50	0	106	70	130	50.96	3.9(20)	
Surr: 1,2-Dichloroethane-d4	48.5		50		97	70	130			
Surr: Toluene-d8	49.7		50		99	70	130			
Surr: 4-Bromofluorobenzene	47.2		50		94	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:
28-Oct-09

QC Summary Report

Work Order:
09102101

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

Alpha Analytical, Inc.

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

CA

WorkOrder : GMTC09102101

Report Due By : 5:00 PM On : 30-Oct-2009

Client: AMEC Geomatrix Consultants
 510 Superior Avenue, Suite 200
 Newport Beach, CA 92663-3627

Report Attention Phone Number (949) 642-0245 x shiow-wei.chou@amec.com
 Email Address shiow-wei.chou@amec.com
 Thandar Phyu (949) 642-0245 x 7630 thandar.phyu@amec.com

Report J Values down to MDL : Yes
EDD Required : Yes

Sampled by : Bret Barker

PO :

Job : KMEP Norwalk

Cooler Temp 4 °C Samples Received 21-Oct-2009 Date Printed 21-Oct-2009

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD with Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles Alpha Sub	TAT	TPHE_W	TPHP_W	VOC_W	Requested Tests	Sample Remarks
GMT09102101-01A	GMW-O-1	AQ 10/20/09 07:45	6	0	7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
GMT09102101-02A	GMW-O-19	AQ 10/20/09 08:28	6	0	7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
GMT09102101-03A	GMW-O-2	AQ 10/20/09 09:50	6	0	7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
GMT09102101-04A	GMW-O-3	AQ 10/20/09 10:53	6	0	7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
GMT09102101-05A	GMW-O-4	AQ 10/20/09 11:55	6	0	7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
GMT09102101-06A	GMW-O-4 (MID)	AQ 10/20/09 12:40	6	0	7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
GMT09102101-07A	GMW-O-5	AQ 10/20/09 13:20	6	0	7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
GMT09102101-08A	GMW-O-9	AQ 10/20/09 14:05	6	0	7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	All voas labeled GMW-O-8 logged in per amended COC.

Comments: Security seals intact. Frozen ice. Analysis: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values, per Randy and Roger. Logged in per amended COC from Cody Sharprough via Larica. :

Logged in by: Elizabeth Alder Signature: Elizabeth Alder Print Name: Elizabeth Alder Company: Alpha Analytical, Inc. Date/Time: 10-21-09 10:01

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-Orho 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 : GMTC09102101

Report Due By : 5:00 PM On : 30-Oct-2009

Client:

AMEC Geomatrix Consultants
 510 Superior Avenue, Suite 200

Report Attention

Shiow-Whai Chou (949) 642-0245 x show-whai.chou@amec.com
 Thandar Phyu (949) 642-0245 x 7630 thandar.phyu@amec.com

Report J Values down to MDL : Yes

EDD Required : Yes

Sampled by : Bret Barker

Cooler Temp 4 °C

Samples Received 21-Oct-2009

Date Printed 21-Oct-2009

Newport Beach, CA 92663-3627

PO :

Client's COC # : none

Job : KMEP Norwalk

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha

Sample ID Client Sample ID Collection Date Alpha Sub TAT

Requested Tests

TPHE_W TPHIP_W VOC_W Sample Remarks

Sample ID	Client Sample ID	Collection Date	Alpha Sub	TAT	TPHE_W +Vhyl acetate	TPHIP_W +Vhyl acetate	VOC_W +Vhyl acetate	Sample Remarks
GMT09102101-09A	EB-2	10/20/09 15:00	6	0	7	TPHE(0.10) +Vhyl acetate	TPHE(0.10) +Vhyl acetate	
GMT09102101-10A	TB-2	10/20/09 07:10	3	0	7	TPHE(0.10) +Vhyl acetate	TPHE(0.10) +Vhyl acetate	3 Reno Trip Blanks (2) 8/21/09 (1) 9/8/09

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. per Randy and Roger. Logged in per amended COC from Cody Sharbrough via Latricia .

Signature

Print Name

Company

Date/Time

Logged in by:

Elizabeth Alder

Elizabeth Alder

Alpha Analytical, Inc.

10-21-09 10:01

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

CONDUCT ANALYSIS TO DETECT

LAB
 Billing Information:
 Kinder Morgan
 1100 Town and Country Rd.
 Orange CA 95112

Alpha Analytical COC of

Client: Kinder Morgan
 TE: Norwalk
 15306 Norwalk Blvd, Norwalk

Kinderg Morgan Norwalk
 Report to:
 Thandak Phyu and Shlow-Whei Chou
 AMEC Geomatrix, Inc.
 510 Superior Ave. Suite 200
 Newport Beach, CA 92663

IMPLEID.	DATE	TIME	MATRIX	AD #	Water	#	Preservation	Type	CONTAINERS	TPHg, TPHfp (EPA 8015M)	VOC's & Oxygenates (EPA 8260B)	ADDL INFORMATION	STATUS	CONDITION	LAB SAMPLE #
GMU-0-1	10/21/01	0745	AQ			6	HCL	VDA		X	X				GM109102201
GMU-0-19		0828				6				X	X				
GMU-0-2		0950				6				X	X				
GMU-0-3		1053				6				X	X				
GMU-0-4		1155				6				X	X				
GMU-0-4 (MID)		1240				6				X	X				
GMU-0-5		1320				6				X	X				
GMU-0-8		1405				6				X	X				
TR-2		1500				6				X	X				
TR-2		0710				3				X	X				

RESULTS NEEDED
 NO LATER THAN

Standard

EASED BY
 EASED BY
 EASED BY

RECEIVED BY
 RECEIVED BY
 RECEIVED BY
 TIME 1600
 TIME 1630
 TIME 1630

RECEIVED BY

TIME SENT

COOLER #

DATE 10-21-09

TIME 10:01

TIME 10:01



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

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474
Date Received : 10/22/09

Job: KMEP Norwalk

Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B
Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B

	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed	
Client ID :	GMW-0-8					
Lab ID :	GMT09102240-01A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/22/09 13:06	10/23/09
Date Sampled	10/21/09 08:18	Surr: Nonane	105	(57-147) %REC	10/22/09 13:06	10/23/09
		TPH-P (GRO)	ND	0.050 mg/L	10/26/09	10/26/09
		Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC	10/26/09	10/26/09
		Surr: Toluene-d8	104	(70-130) %REC	10/26/09	10/26/09
		Surr: 4-Bromofluorobenzene	101	(70-130) %REC	10/26/09	10/26/09
Client ID :	GMW-SF-7					
Lab ID :	GMT09102240-02A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/22/09 13:06	10/23/09
Date Sampled	10/21/09 09:18	Surr: Nonane	93	(57-147) %REC	10/22/09 13:06	10/23/09
		TPH-P (GRO)	ND	0.050 mg/L	10/26/09	10/26/09
		Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC	10/26/09	10/26/09
		Surr: Toluene-d8	104	(70-130) %REC	10/26/09	10/26/09
		Surr: 4-Bromofluorobenzene	102	(70-130) %REC	10/26/09	10/26/09
Client ID :	GMW-SF-8					
Lab ID :	GMT09102240-03A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/22/09 13:06	10/23/09
Date Sampled	10/21/09 10:15	Surr: Nonane	96	(57-147) %REC	10/22/09 13:06	10/23/09
		TPH-P (GRO)	ND	0.050 mg/L	10/26/09	10/26/09
		Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC	10/26/09	10/26/09
		Surr: Toluene-d8	106	(70-130) %REC	10/26/09	10/26/09
		Surr: 4-Bromofluorobenzene	101	(70-130) %REC	10/26/09	10/26/09
Client ID :	HL-2					
Lab ID :	GMT09102240-04A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/22/09 13:06	10/23/09
Date Sampled	10/21/09 11:05	Surr: Nonane	83	(57-147) %REC	10/22/09 13:06	10/23/09
		TPH-P (GRO)	ND	0.050 mg/L	10/26/09	10/26/09
		Surr: 1,2-Dichloroethane-d4	97	(70-130) %REC	10/26/09	10/26/09
		Surr: Toluene-d8	105	(70-130) %REC	10/26/09	10/26/09
		Surr: 4-Bromofluorobenzene	98	(70-130) %REC	10/26/09	10/26/09
Client ID :	PW-1					
Lab ID :	GMT09102240-05A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/22/09 13:06	10/23/09
Date Sampled	10/21/09 11:45	Surr: Nonane	94	(57-147) %REC	10/22/09 13:06	10/23/09
		TPH-P (GRO)	ND	0.050 mg/L	10/26/09	10/26/09
		Surr: 1,2-Dichloroethane-d4	102	(70-130) %REC	10/26/09	10/26/09
		Surr: Toluene-d8	105	(70-130) %REC	10/26/09	10/26/09
		Surr: 4-Bromofluorobenzene	100	(70-130) %REC	10/26/09	10/26/09
Client ID :	GMW-3					
Lab ID :	GMT09102240-06A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/22/09 13:06	10/23/09
Date Sampled	10/21/09 12:28	Surr: Nonane	100	(57-147) %REC	10/22/09 13:06	10/23/09
		TPH-P (GRO)	ND	0.050 mg/L	10/26/09	10/26/09
		Surr: 1,2-Dichloroethane-d4	101	(70-130) %REC	10/26/09	10/26/09
		Surr: Toluene-d8	103	(70-130) %REC	10/26/09	10/26/09
		Surr: 4-Bromofluorobenzene	100	(70-130) %REC	10/26/09	10/26/09



Alpha Analytical, Inc.

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Client ID : MW-12							
Lab ID :	GMT09102240-07A	TPH-E (Fuel Product)	0.15 *	0.10 mg/L	10/22/09 13:06	10/23/09	
Date Sampled	10/21/09 13:18	Surr: Nonane	100	(57-147) %REC	10/22/09 13:06	10/23/09	
		TPH-P (GRO)	ND	0.050 mg/L	10/26/09	10/26/09	
		Surr: 1,2-Dichloroethane-d4	101	(70-130) %REC	10/26/09	10/26/09	
		Surr: Toluene-d8	103	(70-130) %REC	10/26/09	10/26/09	
		Surr: 4-Bromofluorobenzene	101	(70-130) %REC	10/26/09	10/26/09	
Client ID : MW-8							
Lab ID :	GMT09102240-08A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/22/09 13:06	10/23/09	
Date Sampled	10/21/09 14:04	Surr: Nonane	98	(57-147) %REC	10/22/09 13:06	10/23/09	
		TPH-P (GRO)	ND	0.050 mg/L	10/26/09	10/26/09	
		Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC	10/26/09	10/26/09	
		Surr: Toluene-d8	106	(70-130) %REC	10/26/09	10/26/09	
		Surr: 4-Bromofluorobenzene	101	(70-130) %REC	10/26/09	10/26/09	
Client ID : DUP-1							
Lab ID :	GMT09102240-09A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/22/09 13:06	10/23/09	
Date Sampled	10/21/09 00:00	Surr: Nonane	88	(57-147) %REC	10/22/09 13:06	10/23/09	
		TPH-P (GRO)	ND	0.050 mg/L	10/27/09	10/27/09	
		Surr: 1,2-Dichloroethane-d4	101	(70-130) %REC	10/27/09	10/27/09	
		Surr: Toluene-d8	103	(70-130) %REC	10/27/09	10/27/09	
		Surr: 4-Bromofluorobenzene	101	(70-130) %REC	10/27/09	10/27/09	
Client ID : DUP-2							
Lab ID :	GMT09102240-10A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/22/09 13:06	10/23/09	
Date Sampled	10/21/09 00:00	Surr: Nonane	97	(57-147) %REC	10/22/09 13:06	10/23/09	
		TPH-P (GRO)	ND	0.050 mg/L	10/27/09	10/27/09	
		Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC	10/27/09	10/27/09	
		Surr: Toluene-d8	104	(70-130) %REC	10/27/09	10/27/09	
		Surr: 4-Bromofluorobenzene	102	(70-130) %REC	10/27/09	10/27/09	
Client ID : EB-4							
Lab ID :	GMT09102240-12A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/22/09 13:06	10/23/09	
Date Sampled	10/21/09 14:45	Surr: Nonane	90	(57-147) %REC	10/22/09 13:06	10/23/09	
		TPH-P (GRO)	ND	0.050 mg/L	10/27/09	10/27/09	
		Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC	10/27/09	10/27/09	
		Surr: Toluene-d8	103	(70-130) %REC	10/27/09	10/27/09	
		Surr: 4-Bromofluorobenzene	101	(70-130) %REC	10/27/09	10/27/09	

*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

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[Signature]

10/30/09

Report Date



Alpha Analytical, Inc.

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ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102240-01A
Client I.D. Number: GMW-0-8

Sampled: 10/21/09 08:18
Received: 10/22/09
Extracted: 10/26/09
Analyzed: 10/26/09

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Styrene	ND	1.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	ND	0.50 µg/L
7 Acetone	ND	10 µg/L	51 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,2,3-Trichloropropane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 Isopropylbenzene	ND	1.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Bromobenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 n-Propylbenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 4-Chlorotoluene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 2-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 1,3,5-Trimethylbenzene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 tert-Butylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 1,2,4-Trimethylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 sec-Butylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 1,3-Dichlorobenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,4-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 4-Isopropyltoluene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 1,2-Dichlorobenzene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 n-Butylbenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2,4-Trichlorobenzene	ND	2.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 Naphthalene	ND	10 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 1,2,3-Trichlorobenzene	ND	2.0 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	104	(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
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PS

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Page 1 of 1



Alpha Analytical, Inc.

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ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102240-02A
Client I.D. Number: GMW-SF-7

Sampled: 10/21/09 09:18
Received: 10/22/09
Extracted: 10/26/09
Analyzed: 10/26/09

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	1.0 µg/L	50 o-Xylene	ND	0.50 µg/L
7 Acetone	ND	10 µg/L	51 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,2,3-Trichloropropane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 Isopropylbenzene	ND	1.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Bromobenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 n-Propylbenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 4-Chlorotoluene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 2-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 1,3,5-Trimethylbenzene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 tert-Butylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 1,2,4-Trimethylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 sec-Butylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 1,3-Dichlorobenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,4-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 4-Isopropyltoluene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 1,2-Dichlorobenzene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 n-Butylbenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2,4-Trichlorobenzene	ND	2.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 Naphthalene	ND	10 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 1,2,3-Trichlorobenzene	ND	2.0 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	104	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	102	(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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PS
10/30/09

Report Date

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ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102240-03A
Client I.D. Number: GMW-SF-8

Sampled: 10/21/09 10:15
Received: 10/22/09
Extracted: 10/26/09
Analyzed: 10/26/09

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	3.3	1.0 µg/L	65 1,2-Dichlorobenzene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 n-Butylbenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2,4-Trichlorobenzene	ND	2.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 Naphthalene	ND	10 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 1,2,3-Trichlorobenzene	ND	2.0 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	106	(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 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 / info@alpha-analytical.com

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Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

10/30/09

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

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102240-04A
Client I.D. Number: HL-2

Sampled: 10/21/09 11:05
Received: 10/22/09
Extracted: 10/26/09
Analyzed: 10/26/09

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	97	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	105	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	98	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer

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10/30/09

Report Date

Page 1 of 1



Alpha Analytical, Inc.

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ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102240-05A
Client I.D. Number: PW-1

Sampled: 10/21/09 11:45
Received: 10/22/09
Extracted: 10/26/09
Analyzed: 10/26/09

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Styrene	ND	1.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	ND	0.50 µg/L
7 Acetone	ND	10 µg/L	51 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,2,3-Trichloropropane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 Isopropylbenzene	ND	1.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Bromobenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 n-Propylbenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 4-Chlorotoluene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 2-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 1,3,5-Trimethylbenzene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 tert-Butylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 1,2,4-Trimethylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 sec-Butylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 1,3-Dichlorobenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,4-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 4-Isopropyltoluene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 1,2-Dichlorobenzene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 n-Butylbenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2,4-Trichlorobenzene	ND	2.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 Naphthalene	ND	10 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 1,2,3-Trichlorobenzene	ND	2.0 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	102	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	105	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	100	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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10/30/09

Report Date

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Alpha Analytical, Inc.

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ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102240-06A
Client I.D. Number: GMW-3

Sampled: 10/21/09 12:28
Received: 10/22/09
Extracted: 10/26/09
Analyzed: 10/26/09

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	103	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	100	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl *Randy Gardner* *Walter Hinchman*
Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / info@alpha-analytical.com

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10/30/09

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Page 1 of 1



Alpha Analytical, Inc.

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ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102240-07A
Client I.D. Number: MW-12

Sampled: 10/21/09 13:18
Received: 10/22/09
Extracted: 10/26/09
Analyzed: 10/26/09

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	103	(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 L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer

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10/30/09

Report Date



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ANALYTICAL REPORT

AMEC Geomatrix Consultants
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Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102240-08A
Client I.D. Number: MW-8

Sampled: 10/21/09 14:04
Received: 10/22/09
Extracted: 10/26/09
Analyzed: 10/26/09

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)	570	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)	0.69	0.50 µg/L	58 1,3,5-Trimethylbenzene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 tert-Butylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 1,2,4-Trimethylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 sec-Butylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 1,3-Dichlorobenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,4-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 4-Isopropyltoluene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 1,2-Dichlorobenzene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 n-Butylbenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2,4-Trichlorobenzene	ND	2.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 Naphthalene	ND	10 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 1,2,3-Trichlorobenzene	ND	2.0 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	106	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	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 / info@alpha-analytical.com

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PS

10/30/09

Report Date

Page 1 of 1



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102240-09A
Client I.D. Number: DUP-1

Sampled: 10/21/09 00:00
Received: 10/22/09
Extracted: 10/27/09
Analyzed: 10/27/09

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Styrene	ND	1.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	ND	0.50 µg/L
7 Acetone	ND	10 µg/L	51 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,2,3-Trichloropropane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 Isopropylbenzene	ND	1.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Bromobenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 n-Propylbenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 4-Chlorotoluene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 2-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 1,3,5-Trimethylbenzene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 tert-Butylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 1,2,4-Trimethylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 sec-Butylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 1,3-Dichlorobenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,4-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 4-Isopropyltoluene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 1,2-Dichlorobenzene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 n-Butylbenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2,4-Trichlorobenzene	ND	2.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 Naphthalene	ND	10 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 1,2,3-Trichlorobenzene	ND	2.0 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	101	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	103	(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 L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer

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10/30/09

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Alpha Analytical, Inc.

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ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102240-10A
Client I.D. Number: DUP-2

Sampled: 10/21/09 00:00
Received: 10/22/09
Extracted: 10/27/09
Analyzed: 10/27/09

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)	590	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)	0.68	0.50 µg/L	58 1,3,5-Trimethylbenzene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 tert-Butylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 1,2,4-Trimethylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 sec-Butylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 1,3-Dichlorobenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,4-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 4-Isopropyltoluene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 1,2-Dichlorobenzene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 n-Butylbenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2,4-Trichlorobenzene	ND	2.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 Naphthalene	ND	10 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 1,2,3-Trichlorobenzene	ND	2.0 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	104	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	102	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

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10/30/09

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Alpha Analytical, Inc.

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

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102240-11A
Client I.D. Number: TB-4

Sampled: 10/21/09 07:00
Received: 10/22/09
Extracted: 10/26/09
Analyzed: 10/26/09

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Styrene	ND	1.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	ND	0.50 µg/L
7 Acetone	ND	10 µg/L	51 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,2,3-Trichloropropane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 Isopropylbenzene	ND	1.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Bromobenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 n-Propylbenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 4-Chlorotoluene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 2-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 1,3,5-Trimethylbenzene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 tert-Butylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 1,2,4-Trimethylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	1.0 µg/L	61 sec-Butylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	10 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	106	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	102	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

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10/30/09

Report Date



Alpha Analytical, Inc.

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ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102240-12A
Client I.D. Number: EB-4

Sampled: 10/21/09 14:45
Received: 10/22/09
Extracted: 10/27/09
Analyzed: 10/27/09

Volatile Organics by GC/MS EPA Method SW8260B

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

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

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

10/30/09

Report Date

Page 1 of 1



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

VOC Sample Preservation Report

Work Order: GMT09102240

Job: KMEP Norwalk

Alpha's Sample ID	Client's Sample ID	Matrix	pH
09102240-01A	GMW-0-8	Aqueous	2
09102240-02A	GMW-SF-7	Aqueous	2
09102240-03A	GMW-SF-8	Aqueous	2
09102240-04A	HL-2	Aqueous	2
09102240-05A	PW-1	Aqueous	2
09102240-06A	GMW-3	Aqueous	2
09102240-07A	MW-12	Aqueous	2
09102240-08A	MW-8	Aqueous	2
09102240-09A	DUP-1	Aqueous	2
09102240-10A	DUP-2	Aqueous	2
09102240-11A	TB-4	Aqueous	2
09102240-12A	EB-4	Aqueous	2

10/30/09
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:
29-Oct-09

QC Summary Report

Work Order:
09102240

Method Blank

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (Fuel Product)	ND	0.1								
Surr: Nonane	0.141		0.15		94	57	147			

Laboratory Control Spike

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.33	0.05	2.5		93	67	130			
Surr: Nonane	0.13		0.15		87	57	147			

Sample Matrix Spike

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.78	0.05	2.5	0	111	49	150			
Surr: Nonane	0.144		0.15		96	57	147			

Sample Matrix Spike Duplicate

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.41	0.05	2.5	0	96	49	150	2.778	14.1(38)	
Surr: Nonane	0.13		0.15		87	57	147			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
29-Oct-09

QC Summary Report

Work Order:
09102240

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015**

File ID: C:\HPCHEM\MS07\DATA\091026\09102606.D

Batch ID: **MS07W1026B**

Analysis Date: **10/26/2009 18:17**

Sample ID: **MBLK MS07W1026B**

Units : **mg/L**

Run ID: **MSD_07_091026A**

Prep Date: **10/26/2009 18:17**

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	0.00986		0.01		99	70	130			
Surr: Toluene-d8	0.0104		0.01		104	70	130			
Surr: 4-Bromofluorobenzene	0.0101		0.01		101	70	130			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015**

File ID: C:\HPCHEM\MS07\DATA\091026\09102603.D

Batch ID: **MS07W1026B**

Analysis Date: **10/26/2009 17:08**

Sample ID: **GLCS MS07W1026B**

Units : **mg/L**

Run ID: **MSD_07_091026A**

Prep Date: **10/26/2009 17:08**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.398	0.05	0.4		99	70	130			
Surr: 1,2-Dichloroethane-d4	0.0097		0.01		97	70	130			
Surr: Toluene-d8	0.0102		0.01		102	70	130			
Surr: 4-Bromofluorobenzene	0.0102		0.01		102	70	130			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8015**

File ID: C:\HPCHEM\MS07\DATA\091026\09102611.D

Batch ID: **MS07W1026B**

Analysis Date: **10/26/2009 20:13**

Sample ID: **09102240-01AGS**

Units : **mg/L**

Run ID: **MSD_07_091026A**

Prep Date: **10/26/2009 20:13**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.95	0.25	2	0	98	58	135			
Surr: 1,2-Dichloroethane-d4	0.0498		0.05		99.6	70	130			
Surr: Toluene-d8	0.0502		0.05		100	70	130			
Surr: 4-Bromofluorobenzene	0.0499		0.05		99.8	70	130			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8015**

File ID: C:\HPCHEM\MS07\DATA\091026\09102612.D

Batch ID: **MS07W1026B**

Analysis Date: **10/26/2009 20:36**

Sample ID: **09102240-01AGSD**

Units : **mg/L**

Run ID: **MSD_07_091026A**

Prep Date: **10/26/2009 20:36**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.98	0.25	2	0	99	58	135	1.954	1.3(20)	
Surr: 1,2-Dichloroethane-d4	0.0492		0.05		98	70	130			
Surr: Toluene-d8	0.0506		0.05		101	70	130			
Surr: 4-Bromofluorobenzene	0.0508		0.05		102	70	130			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
29-Oct-09

QC Summary Report

Work Order:
09102240

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	9.86		10	99	70	130				
Surr: Toluene-d8	10.4		10	104	70	130				
Surr: 4-Bromofluorobenzene	10.1		10	101	70	130				

Laboratory Control Spike

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

File ID: C:\HPCHEM\MS07\DATA\091026\09102604.D

Batch ID: **MS07W1026A**

Analysis Date: **10/26/2009 17:31**

Sample ID: **LCS MS07W1026A**

Units : **µg/L**

Run ID: **MSD_07_091026A**

Prep Date: **10/26/2009 17:31**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	10.3	1	10		103	80	120			
Methyl tert-butyl ether (MTBE)	9.8	0.5	10		98	62	136			
Benzene	10.6	0.5	10		106	70	130			
Trichloroethene	9.78	1	10		98	70	130			
Toluene	10	0.5	10		100	80	120			
Chlorobenzene	10.4	1	10		104	70	130			
Ethylbenzene	9.39	0.5	10		94	80	120			
m,p-Xylene	10.6	0.5	10		106	70	130			
o-Xylene	10.9	0.5	10		109	70	130			
Surr: 1,2-Dichloroethane-d4	9.84		10		98	70	130			
Surr: Toluene-d8	9.89		10		99	70	130			
Surr: 4-Bromofluorobenzene	9.52		10		95	70	130			

Sample Matrix Spike

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

File ID: C:\HPCHEM\MS07\DATA\091026\09102609.D

Batch ID: **MS07W1026A**

Analysis Date: **10/26/2009 19:27**

Sample ID: **09102240-01AMS**

Units : **µg/L**

Run ID: **MSD_07_091026A**

Prep Date: **10/26/2009 19:27**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	46	2.5	50	0	92	60	130			
Methyl tert-butyl ether (MTBE)	44.6	1.3	50	0	89	56	141			
Benzene	50.4	1.3	50	0	101	67	130			
Trichloroethene	45.9	2.5	50	0	92	69	130			
Toluene	50.5	1.3	50	0	101	66	130			
Chlorobenzene	50.2	2.5	50	0	100	70	130			
Ethylbenzene	46.1	1.3	50	0	92	68	130			
m,p-Xylene	53.3	1.3	50	0	107	64	130			
o-Xylene	52.9	1.3	50	0	106	70	130			
Surr: 1,2-Dichloroethane-d4	50.1		50		100	70	130			
Surr: Toluene-d8	49.3		50		99	70	130			
Surr: 4-Bromofluorobenzene	46.3		50		93	70	130			

Sample Matrix Spike Duplicate

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

File ID: C:\HPCHEM\MS07\DATA\091026\09102610.D

Batch ID: **MS07W1026A**

Analysis Date: **10/26/2009 19:50**

Sample ID: **09102240-01AMSD**

Units : **µg/L**

Run ID: **MSD_07_091026A**

Prep Date: **10/26/2009 19:50**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	42.5	2.5	50	0	85	60	130	45.98	7.9(20)	
Methyl tert-butyl ether (MTBE)	45.9	1.3	50	0	92	56	141	44.55	2.9(20)	
Benzene	47.1	1.3	50	0	94	67	130	50.37	6.8(20)	
Trichloroethene	42.7	2.5	50	0	85	69	130	45.93	7.4(20)	
Toluene	44.3	1.3	50	0	89	66	130	50.52	13.1(20)	
Chlorobenzene	46.9	2.5	50	0	94	70	130	50.22	6.9(20)	
Ethylbenzene	41.9	1.3	50	0	84	68	130	46.07	9.5(20)	
m,p-Xylene	46.5	1.3	50	0	93	64	130	53.33	13.6(20)	
o-Xylene	48.3	1.3	50	0	97	70	130	52.93	9.2(20)	
Surr: 1,2-Dichloroethane-d4	50.3		50		101	70	130			
Surr: Toluene-d8	48.8		50		98	70	130			
Surr: 4-Bromofluorobenzene	46.6		50		93	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:
29-Oct-09

QC Summary Report

Work Order:
09102240

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

CHAIN-OF-CUSTODY RECORD

CA

Alpha Analytical, Inc.

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

WorkOrder : GMTTC091022240

Report Due By : 5:00 PM On : 02-Nov-09

Client: AMEC Geomatrix Consultants

510 Superior Avenue, Suite 200
Newport Beach, CA 92263-3627

Report Attention Phone Number Email Address

Shiow-Whei Chou (949) 642-0245 x shiow-whei.chou@amec.com

Thandar Phyu (949) 642-0245 x 7630 thandar.phyu@amec.com

Report J Values down to MDL : Yes

EDD Required : Yes

Sampled by : Bret Barker

Cooler Temp Samples Received Date Printed


4 °C 22-Oct-09 22-Oct-09

Client's COC # : none Job : KMEP Norwalk

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Date	No. of Bottles Alpha Sub	TAT	Requested Tests			Sample Remarks	
					TPHE_W	TPHP_W	VOC_W		
GMT09102240-01A	GMW-0-8	10/21/09 08:18	6	0	7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
GMT09102240-02A	GMW-SF-7	10/21/09 09:18	6	0	7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
GMT09102240-03A	GMW-SF-8	10/21/09 10:15	6	0	7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
GMT09102240-04A	HL-2	10/21/09 11:05	6	0	7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
GMT09102240-05A	PW-1	10/21/09 11:45	6	0	7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
GMT09102240-06A	GMW-3	10/21/09 12:28	6	0	7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
GMT09102240-07A	MW-12	10/21/09 13:18	6	0	7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	
GMT09102240-08A	MW-8	10/21/09 14:04	6	0	7	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	TPHE(0.10) +Vinyl acetate	

Comments: Security seals intact. Frozen Ice. Analysis: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values. :

Logged in by:  _____

Signature _____ Print Name **Cheryl Gamble** _____

Company **Alpha Analytical, Inc.** _____ Date/Time **10/21/09 10:50**

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-Orho T-Tedlar B-Brass P-Plastic OT-Other

CHAIN-OF-CUSTODY RECORD

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

CA
WorkOrder : GMTTC091022240
Report Due By : 5:00 PM On : 02-Nov-09

Client: AMEC Geomatrix Consultants
 510 Superior Avenue, Suite 200
 Newport Beach, CA 92663-3627

Report Attention: Phone Number: (949) 642-0245 x
 Show-Whei Chou: (949) 642-0245 x show-whei.chou@amec.com
 Email Address: show-whei.chou@amec.com
 Thandar Phyu: (949) 642-0245 x 7630 thandar.phyu@amec.com


Report J Values down to MDL : Yes
EDD Required : Yes

PO :
 Client's COC # : none
 Job : KMEP Norwalk
 Cooler Temp 4 °C Samples Received 22-Oct-09 Date Printed 22-Oct-09

QC Level : S3 = Final Rpt. MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Date	No. of Bottles Alpha	Sub TAT	Requested Tests			Sample Remarks	
					TPHE_W	TPHP_W	VOC_W		
GMT09102240-09A	DUP-1	10/21/09 00:00	6	0	7	TPHE(0.10) +VinyI acetate	TPHP(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	
GMT09102240-10A	DUP-2	10/21/09 00:00	6	0	7	TPHE(0.10) +VinyI acetate	TPHP(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	
GMT09102240-11A	TB-4	10/21/09 07:00	3	0	7	TPHE(0.10) +VinyI acetate	TPHP(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	Reno Trip Blanks 8/21/09
GMT09102240-12A	EB-4	10/21/09 14:45	6	0	7	TPHE(0.10) +VinyI acetate	TPHP(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	

Comments: Security seals intact. Frozen Ice. Analysis: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values. .

Logged in by:  Signature _____ Print Name Cheryl Gamble Company Alpha Analytical, Inc. Date/Time 10/22/09 10:50

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

CONDUCT ANALYSIS TO DETECT

LAB

Alpha Analytical COC 1 of 2

Billing Information:
 Kinder Morgan
 1100 Town and Country Rd.
 Orange CA 95112

CHAIN OF CUSTODY

CLIENT: Kinder Morgan
 SITE: Norwalk
 15306 Norwalk Blvd, Norwalk

Kinder Morgan Norwalk
 Report to:
 Thandat Phyu and Shlow-Whei Chou
 AMEC Geomatrix, Inc.
 510 Superior Ave, Suite 200
 Newport Beach, CA 92663

SAMPLE I.D.	DATE	TIME	MATRIX	CONTAINERS	TPHg, TPHfp (EPA 8015M)	VOC's & Oxygenates (EPA 8260B)	ADDL INFORMATION	STATUS	CONDITION	LAB SAMPLE #
GMU-0-8	10/21/09	0818	AQ		X	X				GMT09102240-011
GMU-SF-7		0918			X	X				-02A
GMU-SF-8		1015			X	X				-03A
HL-2		1105			X	X				-04A
PLU-1		1145			X	X				-05A
GMU-3		1228			X	X				-06A
MU-12		1318			X	X				-07A
MU-8		1404			X	X				-08A
Dep-1										-09A
Dep-2										-10A

SAMPLING PERFORMED BY: *Bob Barber*

RESULTS NEEDED: Standard

RELEASED BY: *[Signature]* TIME: 1600 RECEIVED BY: *[Signature]* DATE: 10/21/09 TIME: 1600
 RELEASED BY: *[Signature]* TIME: 1630 RECEIVED BY: *[Signature]* DATE: 10/22/09 TIME: 10:50am

SHIPPED VIA: *Paul Paul*

BLAINE

TECH SERVICES, INC.

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

CONDUCT ANALYSIS TO DETECT

LAB

Alpha Analytical COC 2 of 2

Billing Information:
 Kinder Morgan
 1100 Town and Country Rd.
 Orange CA 95112

CHAIN OF CUSTODY

CLIENT

Kinder Morgan

SITE

Norwalk

15306 Norwalk Blvd, Norwalk

Kinder Morgan Norwalk

Report to:
 Thandat Phyu and Show-Whei Chou
 AMEC Geomatrix, Inc.
 510 Superior Ave, Suite 200
 Newport Beach, CA 92663

MATRIX

CONTAINERS

SAMPLE I.D.

DATE

TIME

AQ#
Water

#

Preservation

Type

ADD'L INFORMATION

STATUS

CONDITION

LAB SAMPLE #

TB-4

10/21/09

0700

AQ

3

HCL

VOA

TPHg, TPHfp (EPA 8015M)

VOC's & Oxygenates (EPA 8260B)

GMT09102240-11F
-121A

SAMPLING COMPLETED
 DATE: 10/21/09
 TIME: 0700
 SAMPLING PERFORMED BY: Bob Baker

RESULTS NEEDED
 NO LATER THAN

Standard

RELEASED BY: [Signature]

TIME: 1600

RECEIVED BY: [Signature]

[Signature]

DATE: 10/21/09
 TIME: 1600

RELEASED BY:

[Signature]

TIME: 1630

RECEIVED BY: [Signature]

[Signature]

DATE: 10/21/09
 TIME: 1620

SHIPPED VIA

TIME SENT

COOLER #

DATE: 10/21/09
 TIME: 10:50 AM



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

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474
Date Received : 10/22/09

Job: KMEP Norwalk

Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B
Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B

	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed	
Client ID :	EB-3					
Lab ID :	GMT09102241-02A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/22/09 13:06	10/23/09
Date Sampled	10/21/09 14:40	Surr: Nonane	94	(57-147) %REC	10/22/09 13:06	10/23/09
		TPH-P (GRO)	ND	0.050 mg/L	10/23/09	10/23/09
		Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC	10/23/09	10/23/09
		Surr: Toluene-d8	103	(70-130) %REC	10/23/09	10/23/09
		Surr: 4-Bromofluorobenzene	101	(70-130) %REC	10/23/09	10/23/09
Client ID :	GMW-0-18					
Lab ID :	GMT09102241-03A	TPH-E (Fuel Product)	0.68	0.10 mg/L	10/22/09 13:06	10/23/09
Date Sampled	10/21/09 14:00	Surr: Nonane	102	(57-147) %REC	10/22/09 13:06	10/23/09
		TPH-P (GRO)	2.4	0.50 mg/L	10/24/09	10/24/09
		Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC	10/24/09	10/24/09
		Surr: Toluene-d8	106	(70-130) %REC	10/24/09	10/24/09
		Surr: 4-Bromofluorobenzene	96	(70-130) %REC	10/24/09	10/24/09
Client ID :	MW-7					
Lab ID :	GMT09102241-04A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/22/09 13:06	10/23/09
Date Sampled	10/21/09 12:54	Surr: Nonane	92	(57-147) %REC	10/22/09 13:06	10/23/09
		TPH-P (GRO)	ND	0.050 mg/L	10/23/09	10/23/09
		Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC	10/23/09	10/23/09
		Surr: Toluene-d8	102	(70-130) %REC	10/23/09	10/23/09
		Surr: 4-Bromofluorobenzene	95	(70-130) %REC	10/23/09	10/23/09
Client ID :	MW-20 (MID)					
Lab ID :	GMT09102241-05A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/22/09 13:06	10/23/09
Date Sampled	10/21/09 11:26	Surr: Nonane	94	(57-147) %REC	10/22/09 13:06	10/23/09
		TPH-P (GRO)	ND	0.050 mg/L	10/24/09	10/24/09
		Surr: 1,2-Dichloroethane-d4	91	(70-130) %REC	10/24/09	10/24/09
		Surr: Toluene-d8	105	(70-130) %REC	10/24/09	10/24/09
		Surr: 4-Bromofluorobenzene	98	(70-130) %REC	10/24/09	10/24/09
Client ID :	MW-19 (MID)					
Lab ID :	GMT09102241-06A	TPH-E (Fuel Product)	0.14 **	0.10 mg/L	10/22/09 13:06	10/23/09
Date Sampled	10/21/09 10:44	Surr: Nonane	95	(57-147) %REC	10/22/09 13:06	10/23/09
		TPH-P (GRO)	ND	0.050 mg/L	10/24/09	10/24/09
		Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC	10/24/09	10/24/09
		Surr: Toluene-d8	102	(70-130) %REC	10/24/09	10/24/09
		Surr: 4-Bromofluorobenzene	96	(70-130) %REC	10/24/09	10/24/09
Client ID :	GMW-0-16					
Lab ID :	GMT09102241-07A	TPH-E (Fuel Product)	0.25 **	0.10 mg/L	10/22/09 13:06	10/23/09
Date Sampled	10/21/09 09:53	Surr: Nonane	98	(57-147) %REC	10/22/09 13:06	10/23/09
		TPH-P (GRO)	ND	0.050 mg/L	10/24/09	10/24/09
		Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC	10/24/09	10/24/09
		Surr: Toluene-d8	105	(70-130) %REC	10/24/09	10/24/09
		Surr: 4-Bromofluorobenzene	100	(70-130) %REC	10/24/09	10/24/09



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Client ID : **GMW-38**

Lab ID :	GMT09102241-08A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/22/09 13:06	10/23/09
Date Sampled	10/21/09 09:13	Surr: Nonane	98	(57-147) %REC	10/22/09 13:06	10/23/09
		TPH-P (GRO)	ND	0.050 mg/L	10/24/09	10/24/09
		Surr: 1,2-Dichloroethane-d4	95	(70-130) %REC	10/24/09	10/24/09
		Surr: Toluene-d8	106	(70-130) %REC	10/24/09	10/24/09
		Surr: 4-Bromofluorobenzene	100	(70-130) %REC	10/24/09	10/24/09

Client ID : **PW-3**

Lab ID :	GMT09102241-09A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/22/09 13:06	10/23/09
Date Sampled	10/21/09 08:38	Surr: Nonane	101	(57-147) %REC	10/22/09 13:06	10/23/09
		TPH-P (GRO)	ND	0.050 mg/L	10/24/09	10/24/09
		Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC	10/24/09	10/24/09
		Surr: Toluene-d8	104	(70-130) %REC	10/24/09	10/24/09
		Surr: 4-Bromofluorobenzene	100	(70-130) %REC	10/24/09	10/24/09

Client ID : **MW-6**

Lab ID :	GMT09102241-10A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/22/09 13:06	10/23/09
Date Sampled	10/21/09 12:12	Surr: Nonane	94	(57-147) %REC	10/22/09 13:06	10/23/09
		TPH-P (GRO)	ND	0.050 mg/L	10/24/09	10/24/09
		Surr: 1,2-Dichloroethane-d4	98	(70-130) %REC	10/24/09	10/24/09
		Surr: Toluene-d8	105	(70-130) %REC	10/24/09	10/24/09
		Surr: 4-Bromofluorobenzene	100	(70-130) %REC	10/24/09	10/24/09

**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
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10/30/09

Report Date



Alpha Analytical, Inc.

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ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shiow-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102241-01A
Client I.D. Number: TB-3

Sampled: 10/21/09 07:00
Received: 10/22/09
Extracted: 10/23/09
Analyzed: 10/23/09

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	98	(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	103	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

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10/30/09

Report Date



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ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shiow-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102241-02A
Client I.D. Number: EB-3

Sampled: 10/21/09 14:40
Received: 10/22/09
Extracted: 10/23/09
Analyzed: 10/23/09

Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Styrene	ND	1.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	ND	0.50 µg/L
7 Acetone	ND	10 µg/L	51 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,2,3-Trichloropropane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 Isopropylbenzene	ND	1.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Bromobenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 n-Propylbenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 4-Chlorotoluene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 2-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 1,3,5-Trimethylbenzene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 tert-Butylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 1,2,4-Trimethylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 sec-Butylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 1,3-Dichlorobenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,4-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 4-Isopropyltoluene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 1,2-Dichlorobenzene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 n-Butylbenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2,4-Trichlorobenzene	ND	2.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 Naphthalene	ND	10 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 1,2,3-Trichlorobenzene	ND	2.0 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	103	(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 L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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10/30/09

Report Date

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ANALYTICAL REPORT

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Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102241-03A
Client I.D. Number: GMW-0-18

Sampled: 10/21/09 14:00
Received: 10/22/09
Extracted: 10/24/09
Analyzed: 10/24/09

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	5.0 µg/L	45 Chlorobenzene	ND	5.0 µg/L
2 Chloromethane	ND	20 µg/L	46 Ethylbenzene	17	2.5 µg/L
3 Vinyl chloride	ND	5.0 µg/L	47 m,p-Xylene	270	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	140	2.5 µg/L
7 Acetone	ND	100 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)	480	50 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)	490	2.5 µg/L	58 1,3,5-Trimethylbenzene	9.2	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	30	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	100	(70-130) %REC
28 Benzene	170	2.5 µg/L	72 Surr: Toluene-d8	106	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	5.0 µg/L	73 Surr: 4-Bromofluorobenzene	96	(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	440	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	20 µg/L			
43 Tetrachloroethene	ND	5.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	5.0 µg/L			

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

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer

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10/30/09

Report Date



Alpha Analytical, Inc.

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ANALYTICAL REPORT

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Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102241-04A
Client I.D. Number: MW-7

Sampled: 10/21/09 12:54
Received: 10/22/09
Extracted: 10/23/09
Analyzed: 10/23/09

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)	0.56	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)	2.0	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	2.8	0.50 µg/L	68 1,2,4-Trichlorobenzene	ND	2.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 Naphthalene	ND	10 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 1,2,3-Trichlorobenzene	ND	2.0 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	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			

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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10/30/09

Report Date



Alpha Analytical, Inc.

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ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102241-05A
Client I.D. Number: MW-20 (MID)

Sampled: 10/21/09 11:26
Received: 10/22/09
Extracted: 10/24/09
Analyzed: 10/24/09

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)	32	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)	18	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)	14	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	16	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	91	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	105	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	98	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer

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10/30/09

Report Date



Alpha Analytical, Inc.

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ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102241-06A
Client I.D. Number: MW-19 (MID)

Sampled: 10/21/09 10:44
Received: 10/22/09
Extracted: 10/24/09
Analyzed: 10/24/09

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	1.0 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)	0.79	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)	16	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	5.0	0.50 µg/L	68 1,2,4-Trichlorobenzene	ND	2.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 Naphthalene	ND	10 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 1,2,3-Trichlorobenzene	ND	2.0 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	102	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	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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VB

10/30/09

Report Date

Page 1 of 1



Alpha Analytical, Inc.

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ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102241-07A
Client I.D. Number: GMW-0-16

Sampled: 10/21/09 09:53
Received: 10/22/09
Extracted: 10/24/09
Analyzed: 10/24/09

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Styrene	ND	1.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	ND	0.50 µg/L
7 Acetone	ND	10 µg/L	51 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,2,3-Trichloropropane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 Isopropylbenzene	ND	1.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Bromobenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 n-Propylbenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 4-Chlorotoluene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 2-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 1,3,5-Trimethylbenzene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 tert-Butylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 1,2,4-Trimethylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 sec-Butylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 1,3-Dichlorobenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,4-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 4-Isopropyltoluene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 1,2-Dichlorobenzene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 n-Butylbenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2,4-Trichlorobenzene	ND	2.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 Naphthalene	ND	10 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 1,2,3-Trichlorobenzene	ND	2.0 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	105	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	100	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer

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10/30/09

Report Date



Alpha Analytical, Inc.

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ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102241-08A
Client I.D. Number: GMW-38

Sampled: 10/21/09 09:13
Received: 10/22/09
Extracted: 10/24/09
Analyzed: 10/24/09

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)	29	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	95	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	106	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	100	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger Scholl *Randy Gardner* *Walter Hinchman*
Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / info@alpha-analytical.com

10/30/09
Report Date

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.



Alpha Analytical, Inc.

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

ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102241-09A
Client I.D. Number: PW-3

Sampled: 10/21/09 08:38
Received: 10/22/09
Extracted: 10/24/09
Analyzed: 10/24/09

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	0.86	0.50 µg/L	68 1,2,4-Trichlorobenzene	ND	2.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 Naphthalene	ND	10 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 1,2,3-Trichlorobenzene	ND	2.0 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	100	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	104	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	100	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer

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10/30/09

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Page 1 of 1



Alpha Analytical, Inc.

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ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102241-10A
Client I.D. Number: MW-6

Sampled: 10/21/09 12:12
Received: 10/22/09
Extracted: 10/24/09
Analyzed: 10/24/09

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)	1.0	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	1.5	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	105	(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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10/30/09

Report Date

Page 1 of 1



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

VOC Sample Preservation Report

Work Order: GMT09102241

Job: KMEP Norwalk

Alpha's Sample ID	Client's Sample ID	Matrix	pH
09102241-01A	TB-3	Aqueous	2
09102241-02A	EB-3	Aqueous	2
09102241-03A	GMW-0-18	Aqueous	2
09102241-04A	MW-7	Aqueous	2
09102241-05A	MW-20 (MID)	Aqueous	2
09102241-06A	MW-19 (MID)	Aqueous	2
09102241-07A	GMW-0-16	Aqueous	2
09102241-08A	GMW-38	Aqueous	2
09102241-09A	PW-3	Aqueous	2
09102241-10A	MW-6	Aqueous	2

10/30/09
Report Date



Alpha Analytical, Inc.

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

Date:
29-Oct-09

QC Summary Report

Work Order:
09102241

Method Blank

File ID:	Type	Test Code:	Batch ID:	Analysis Date:						
7A10220938.D	MBLK	EPA Method SW8015B / E	22896	10/23/2009 03:07						
Sample ID:	Units :	Run ID:	Prep Date:							
MBLK-22896	mg/L	FID_7_091022B	10/22/2009 13:06							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (Fuel Product)	ND	0.1								
Surr: Nonane	0.141		0.15		94	57	147			

Laboratory Control Spike

File ID:	Type	Test Code:	Batch ID:	Analysis Date:						
7A10220939.D	LCS	EPA Method SW8015B / E	22896	10/23/2009 03:34						
Sample ID:	Units :	Run ID:	Prep Date:							
LCS-22896	mg/L	FID_7_091022B	10/22/2009 13:06							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.33	0.05	2.5		93	67	130			
Surr: Nonane	0.13		0.15		87	57	147			

Sample Matrix Spike

File ID:	Type	Test Code:	Batch ID:	Analysis Date:						
7A10220941.D	MS	EPA Method SW8015B / E	22896	10/23/2009 04:27						
Sample ID:	Units :	Run ID:	Prep Date:							
09102241-02AMS	mg/L	FID_7_091022B	10/22/2009 13:06							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.78	0.05	2.5	0	111	49	150			
Surr: Nonane	0.144		0.15		96	57	147			

Sample Matrix Spike Duplicate

File ID:	Type	Test Code:	Batch ID:	Analysis Date:						
7A10220942.D	MSD	EPA Method SW8015B / E	22896	10/23/2009 04:53						
Sample ID:	Units :	Run ID:	Prep Date:							
09102241-02AMSD	mg/L	FID_7_091022B	10/22/2009 13:06							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.41	0.05	2.5	0	96	49	150	2.778	14.1(38)	
Surr: Nonane	0.13		0.15		87	57	147			

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:
29-Oct-09

QC Summary Report

Work Order:
09102241

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015**

File ID: **C:\HPCHEM\MS07\DATA\091023\09102306.D**

Batch ID: **MS07W1023B**

Analysis Date: **10/23/2009 18:01**

Sample ID: **MBLK MS07W1023B**

Units : **mg/L**

Run ID: **MSD_07_091023B**

Prep Date: **10/23/2009 18:01**

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	0.00972		0.01		97	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 SW8015**

File ID: **C:\HPCHEM\MS07\DATA\091023\09102303.D**

Batch ID: **MS07W1023B**

Analysis Date: **10/23/2009 16:53**

Sample ID: **GLCS MS07W1023B**

Units : **mg/L**

Run ID: **MSD_07_091023B**

Prep Date: **10/23/2009 16:53**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.4	0.05	0.4		100	70	130			
Surr: 1,2-Dichloroethane-d4	0.00969		0.01		97	70	130			
Surr: Toluene-d8	0.0102		0.01		102	70	130			
Surr: 4-Bromofluorobenzene	0.00997		0.01		99.7	70	130			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8015**

File ID: **C:\HPCHEM\MS07\DATA\091023\09102311.D**

Batch ID: **MS07W1023B**

Analysis Date: **10/23/2009 19:55**

Sample ID: **09102241-04AGS**

Units : **mg/L**

Run ID: **MSD_07_091023B**

Prep Date: **10/23/2009 19:55**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.8	0.25	2	0	90	58	135			
Surr: 1,2-Dichloroethane-d4	0.0475		0.05		95	70	130			
Surr: Toluene-d8	0.0514		0.05		103	70	130			
Surr: 4-Bromofluorobenzene	0.051		0.05		102	70	130			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8015**

File ID: **C:\HPCHEM\MS07\DATA\091023\09102312.D**

Batch ID: **MS07W1023B**

Analysis Date: **10/23/2009 20:18**

Sample ID: **09102241-04AGSD**

Units : **mg/L**

Run ID: **MSD_07_091023B**

Prep Date: **10/23/2009 20:18**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.75	0.25	2	0	87	58	135	1.796	2.9(20)	
Surr: 1,2-Dichloroethane-d4	0.0477		0.05		95	70	130			
Surr: Toluene-d8	0.0509		0.05		102	70	130			
Surr: 4-Bromofluorobenzene	0.0504		0.05		101	70	130			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:
29-Oct-09

QC Summary Report

Work Order:
09102241

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	9.72		10		97	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: **C:\HPCHEM\MS07\DATA\091023\09102304.D**

Batch ID: **MS07W1023A**

Analysis Date: **10/23/2009 17:15**

Sample ID: **LCS MS07W1023A**

Units: **µg/L**

Run ID: **MSD_07_091023B**

Prep Date: **10/23/2009 17:15**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	9.73	1	10		97	80	120			
Methyl tert-butyl ether (MTBE)	9.43	0.5	10		94	62	136			
Benzene	10.5	0.5	10		105	70	130			
Trichloroethene	9.85	1	10		99	70	130			
Toluene	10.1	0.5	10		101	80	120			
Chlorobenzene	10.4	1	10		104	70	130			
Ethylbenzene	9.51	0.5	10		95	80	120			
m,p-Xylene	10.7	0.5	10		107	70	130			
o-Xylene	10.9	0.5	10		109	70	130			
Surr: 1,2-Dichloroethane-d4	9.82		10		98	70	130			
Surr: Toluene-d8	9.91		10		99	70	130			
Surr: 4-Bromofluorobenzene	9.49		10		95	70	130			

Sample Matrix Spike

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

File ID: **C:\HPCHEM\MS07\DATA\091023\09102309.D**

Batch ID: **MS07W1023A**

Analysis Date: **10/23/2009 19:08**

Sample ID: **09102241-04AMS**

Units: **µg/L**

Run ID: **MSD_07_091023B**

Prep Date: **10/23/2009 19:08**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	43.7	2.5	50		0 87	60	130			
Methyl tert-butyl ether (MTBE)	44.6	1.3	50	0.56	88	56	141			
Benzene	47.9	1.3	50	0	96	67	130			
Trichloroethene	43.4	2.5	50	0	87	69	130			
Toluene	44.8	1.3	50	0	90	66	130			
Chlorobenzene	47.5	2.5	50	0	95	70	130			
Ethylbenzene	42.6	1.3	50	0	85	68	130			
m,p-Xylene	47.1	1.3	50	0	94	64	130			
o-Xylene	48.9	1.3	50	0	98	70	130			
Surr: 1,2-Dichloroethane-d4	50.5		50		101	70	130			
Surr: Toluene-d8	48.5		50		97	70	130			
Surr: 4-Bromofluorobenzene	46.4		50		93	70	130			

Sample Matrix Spike Duplicate

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

File ID: **C:\HPCHEM\MS07\DATA\091023\09102310.D**

Batch ID: **MS07W1023A**

Analysis Date: **10/23/2009 19:31**

Sample ID: **09102241-04AMSD**

Units: **µg/L**

Run ID: **MSD_07_091023B**

Prep Date: **10/23/2009 19:31**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	45.1	2.5	50	0	90	60	130	43.73	3.0(20)	
Methyl tert-butyl ether (MTBE)	45.9	1.3	50	0.56	91	56	141	44.62	2.9(20)	
Benzene	48.4	1.3	50	0	97	67	130	47.91	1.0(20)	
Trichloroethene	44.3	2.5	50	0	89	69	130	43.36	2.0(20)	
Toluene	46.5	1.3	50	0	93	66	130	44.79	3.8(20)	
Chlorobenzene	48.6	2.5	50	0	97	70	130	47.54	2.3(20)	
Ethylbenzene	43.8	1.3	50	0	88	68	130	42.64	2.7(20)	
m,p-Xylene	48.7	1.3	50	0	97	64	130	47.09	3.3(20)	
o-Xylene	50.3	1.3	50	0	101	70	130	48.87	2.9(20)	
Surr: 1,2-Dichloroethane-d4	48.7		50		97	70	130			
Surr: Toluene-d8	49.8		50		99.6	70	130			
Surr: 4-Bromofluorobenzene	46.5		50		93	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:
29-Oct-09

QC Summary Report

Work Order:
09102241

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 : GMTC09102241

Report Due By : 5:00 PM On : 02-Nov-09

Report J Values down to MDL : Yes

EDD Required : Yes

Sampled by : T. Rhymes

Cooler Temp 4 °C Samples Received 22-Oct-09 Date Printed 22-Oct-09

Client: AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 92663-3627

Report Attention Shiw-Wei Chou Phone Number (949) 642-0245 Email Address shiw-wei.chou@amec.com
Thandar Phyu (949) 642-0245 x 7630 thandar.phyu@amec.com

Client's COC # : none = Final Rpt. MBLK, LCS, MS/MSD With Surrogates
Job : KMEP Norwalk

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles			Requested Tests			Sample Remarks
			Alpha	Sub	TAT	TPHE_W	TPHP_W	VOC_W	

GMT09102241-01A	TB-3	AQ 10/21/09 07:00	3	0	7	TPHE(0.10) +Vmyl acetate	TPHP(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	3 RENO TRIP BLANKS- (2) 9/8/09 (1) 8/21/09
GMT09102241-02A	EB-3	AQ 10/21/09 14:40	6	0	7	TPHE(0.10) +Vmyl acetate	TPHP(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	
GMT09102241-03A	GMMW-0-18	AQ 10/21/09 14:00	6	0	7	TPHE(0.10) +Vmyl acetate	TPHP(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	
GMT09102241-04A	MMW-7	AQ 10/21/09 12:54	6	0	7	TPHE(0.10) +Vmyl acetate	TPHP(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	
GMT09102241-05A	MMW-20 (MID)	AQ 10/21/09 11:26	6	0	7	TPHE(0.10) +Vmyl acetate	TPHP(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	
GMT09102241-06A	MMW-19 (MID)	AQ 10/21/09 10:44	6	0	7	TPHE(0.10) +Vmyl acetate	TPHP(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	
GMT09102241-07A	GMMW-0-16	AQ 10/21/09 09:53	6	0	7	TPHE(0.10) +Vmyl acetate	TPHP(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	
GMT09102241-08A	GMMW-38	AQ 10/21/09 09:13	6	0	7	TPHE(0.10) +Vmyl acetate	TPHP(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	

Comments: Security seals intact. Frozen ice. Analysts: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values. .

Logged in by: Signature Print Name Cheryl Gamble Company Alpha Analytical, Inc. Date/Time 10/22/09 12:19pm

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SQ(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-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 : GMT09102241

Report Due By : 5:00 PM On : 02-Nov-09

Client: AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200

Report Attention: Phone Number: Email Address:
Show-Whei Chou (949) 642-0245 x show-whei.chou@amec.com
Thandar Phyu (949) 642-0245 x 7630 thandar.phyu@amec.com

Report J Values down to MDL : Yes

EDD Required : Yes

Sampled by : T. Rhymes

Cooler Temp

Samples Received

Date Printed

4 °C

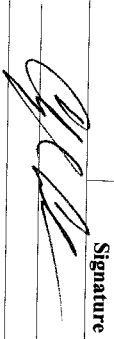
22-Oct-09

22-Oct-09

Client's COC # : none = Final Rpt, MBLK, LCS, MS/MSD With Surrogates
Job : KMEP Norwalk

Alpha Sample ID	Client Sample ID	Collection Date	No. of Bottles			Requested Tests			Sample Remarks
			Alpha	Sub	TAT	TPHE_W	TPHF_W	VOC_W	
GMT09102241-09A	PW-3	10/21/09 08:38	6	0	7	TPHE(0.10) +Vmyl acetate	TPHF(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	
GMT09102241-10A	MW-6	10/21/09 12:12	6	0	7	TPHE(0.10) +Vmyl acetate	TPHF(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	

Comments: Security seals intact. Frozen ice. Analysis: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values. :

Logged in by:  Signature _____

Print Name: Cheryl Gamble

Company: Alpha Analytical, Inc. Date/Time: 10/22/09 12:19pm

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

CONDUCT ANALYSIS TO DETECT

LAB

Alpha Analytical COC

1 of 1

Billing Information:
 Kinder Morgan
 1100 Town and Country Rd.
 Orange CA 95112

Kinder Morgan Norwalk
 Report to:
 Thandat Piyu and Shlow-Whei Chou
 AMEC Geomatrix, Inc.
 510 Superior Ave. Suite 200
 Newport Beach, CA 92663

CHAIN OF CUSTODY

CLIENT

Kinder Morgan

SITE

Norwalk

15306 Norwalk Blvd, Norwalk

SAMPLE I.D.	DATE	TIME	MATRIX AQ = Water	#	CONTAINERS		TPHg, TPHfp (EPA 8015M)	VOC's & Oxygenates (EPA 8260B)	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
					Preservation	Type						
FB-3	10-21-09	0700	AQ	3	HCL	NOA	X	X				6MT09102241-01A
EW-3		1440		6			X	X				-02A
GMW-0-18		1400					X	X				-03A
MW-7		1254					X	X				-04A
KW-20 (MID)		1124					X	X				-05A
MW-19 (MID)		1044					X	X				-06A
GMW-0-16		0953					X	X				-07A
GMW-30		0913					X	X				-08A
PW-3		0838					X	X				-09A
MW-4		1212					X	X				-10A

SAMPLING DATE TIME SAMPLING PERFORMED BY T. ETHYNES

RESULTS NEEDED NO LATER THAN Standard

RELEASED BY *(Signature)* TIME 1600 RECEIVED BY *(Signature)* DATE 10/21/09 TIME 12:12

RELEASED BY *(Signature)* TIME 1630 RECEIVED BY *(Signature)* DATE 10/21/09 TIME 16:20

SHIPPED VIA *(Signature)* 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

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474
Date Received : 10/23/09

Job: KMEP Norwalk

Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B
Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B

	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID :	GMW-39				
Lab ID :	TPH-E (Fuel Product)	ND	0.10 mg/L	10/26/09 10:46	10/26/09
Date Sampled	Surr: Nonane	80	(57-147) %REC	10/26/09 10:46	10/26/09
	TPH-P (GRO)	ND	0.050 mg/L	10/30/09	10/30/09
	Surr: 1,2-Dichloroethane-d4	96	(70-130) %REC	10/30/09	10/30/09
	Surr: Toluene-d8	106	(70-130) %REC	10/30/09	10/30/09
	Surr: 4-Bromofluorobenzene	101	(70-130) %REC	10/30/09	10/30/09
Client ID :	GMW-14				
Lab ID :	TPH-E (Fuel Product)	0.74	0.10 mg/L	10/26/09 10:46	10/26/09
Date Sampled	Surr: Nonane	74	(57-147) %REC	10/26/09 10:46	10/26/09
	TPH-P (GRO)	0.13	0.050 mg/L	10/27/09	10/27/09
	Surr: 1,2-Dichloroethane-d4	95	(70-130) %REC	10/27/09	10/27/09
	Surr: Toluene-d8	103	(70-130) %REC	10/27/09	10/27/09
	Surr: 4-Bromofluorobenzene	104	(70-130) %REC	10/27/09	10/27/09
Client ID :	GMW-27				
Lab ID :	TPH-E (Fuel Product)	0.14	0.10 mg/L	10/26/09 10:46	10/26/09
Date Sampled	Surr: Nonane	81	(57-147) %REC	10/26/09 10:46	10/26/09
	TPH-P (GRO)	0.13	0.050 mg/L	10/27/09	10/27/09
	Surr: 1,2-Dichloroethane-d4	93	(70-130) %REC	10/27/09	10/27/09
	Surr: Toluene-d8	106	(70-130) %REC	10/27/09	10/27/09
	Surr: 4-Bromofluorobenzene	99	(70-130) %REC	10/27/09	10/27/09
Client ID :	GMW-0-10				
Lab ID :	TPH-E (Fuel Product)	ND	0.10 mg/L	10/26/09 10:46	10/26/09
Date Sampled	Surr: Nonane	86	(57-147) %REC	10/26/09 10:46	10/26/09
	TPH-P (GRO)	0.099	0.050 mg/L	10/27/09	10/27/09
	Surr: 1,2-Dichloroethane-d4	94	(70-130) %REC	10/27/09	10/27/09
	Surr: Toluene-d8	105	(70-130) %REC	10/27/09	10/27/09
	Surr: 4-Bromofluorobenzene	98	(70-130) %REC	10/27/09	10/27/09
Client ID :	PZ-10				
Lab ID :	TPH-E (Fuel Product)	1.2 *	0.10 mg/L	10/26/09 10:46	10/26/09
Date Sampled	Surr: Nonane	78	(57-147) %REC	10/26/09 10:46	10/26/09
	TPH-P (GRO)	ND O	0.20 mg/L	10/27/09	10/27/09
	Surr: 1,2-Dichloroethane-d4	95	(70-130) %REC	10/27/09	10/27/09
	Surr: Toluene-d8	106	(70-130) %REC	10/27/09	10/27/09
	Surr: 4-Bromofluorobenzene	99	(70-130) %REC	10/27/09	10/27/09
Client ID :	MW-SF-9				
Lab ID :	TPH-E (Fuel Product)	5.9 *	0.10 mg/L	10/26/09 10:46	10/26/09
Date Sampled	Surr: Nonane	85	(57-147) %REC	10/26/09 10:46	10/26/09
	TPH-P (GRO)	2.4	2.0 mg/L	10/27/09	10/27/09
	Surr: 1,2-Dichloroethane-d4	96	(70-130) %REC	10/27/09	10/27/09
	Surr: Toluene-d8	108	(70-130) %REC	10/27/09	10/27/09
	Surr: 4-Bromofluorobenzene	98	(70-130) %REC	10/27/09	10/27/09



Alpha Analytical, Inc.

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Client ID : GMW-1							
Lab ID :	GMT09102344-07A	TPH-E (Fuel Product)	1.9	*	0.10 mg/L	10/26/09 10:46	10/26/09
Date Sampled	10/22/09 14:18	Surr: Nonane	75		(57-147) %REC	10/26/09 10:46	10/26/09
		TPH-P (GRO)	0.33		0.20 mg/L	10/27/09	10/27/09
		Surr: 1,2-Dichloroethane-d4	95		(70-130) %REC	10/27/09	10/27/09
		Surr: Toluene-d8	105		(70-130) %REC	10/27/09	10/27/09
		Surr: 4-Bromofluorobenzene	99		(70-130) %REC	10/27/09	10/27/09
Client ID : DUP-3							
Lab ID :	GMT09102344-08A	TPH-E (Fuel Product)	ND		0.10 mg/L	10/26/09 10:46	10/26/09
Date Sampled	10/22/09 00:00	Surr: Nonane	85		(57-147) %REC	10/26/09 10:46	10/26/09
		TPH-P (GRO)	ND		0.050 mg/L	10/27/09	10/27/09
		Surr: 1,2-Dichloroethane-d4	95		(70-130) %REC	10/27/09	10/27/09
		Surr: Toluene-d8	108		(70-130) %REC	10/27/09	10/27/09
		Surr: 4-Bromofluorobenzene	100		(70-130) %REC	10/27/09	10/27/09
Client ID : DUP-4							
Lab ID :	GMT09102344-09A	TPH-E (Fuel Product)	2.0	*	0.10 mg/L	10/26/09 10:46	10/26/09
Date Sampled	10/22/09 00:00	Surr: Nonane	81		(57-147) %REC	10/26/09 10:46	10/26/09
		TPH-P (GRO)	0.34		0.20 mg/L	10/27/09	10/27/09
		Surr: 1,2-Dichloroethane-d4	93		(70-130) %REC	10/27/09	10/27/09
		Surr: Toluene-d8	105		(70-130) %REC	10/27/09	10/27/09
		Surr: 4-Bromofluorobenzene	100		(70-130) %REC	10/27/09	10/27/09
Client ID : EB-5							
Lab ID :	GMT09102344-11A	TPH-E (Fuel Product)	ND		0.10 mg/L	10/26/09 10:46	10/26/09
Date Sampled	10/22/09 15:00	Surr: Nonane	79		(57-147) %REC	10/26/09 10:46	10/26/09
		TPH-P (GRO)	ND		0.050 mg/L	10/27/09	10/27/09
		Surr: 1,2-Dichloroethane-d4	95		(70-130) %REC	10/27/09	10/27/09
		Surr: Toluene-d8	107		(70-130) %REC	10/27/09	10/27/09
		Surr: 4-Bromofluorobenzene	101		(70-130) %REC	10/27/09	10/27/09

*Note: Reported TPH-E (Fuel Product) is composed primarily of diesel range hydrocarbons.

Gasoline Range Organics (GRO) C4-C13

O = Reporting Limits were increased due to sample foaming.

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 / info@alpha-analytical.com

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

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

PS

11/2/09

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

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102344-01A
Client I.D. Number: GMW-39

Sampled: 10/22/09 07:58
Received: 10/23/09
Extracted: 10/30/09
Analyzed: 10/30/09

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Styrene	ND	1.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	ND	0.50 µg/L
7 Acetone	ND	10 µg/L	51 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,2,3-Trichloropropane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	2,200	30 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)	0.50	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	96	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	106	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	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			

*This analyte was analyzed separately on 10/27/09 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 / info@alpha-analytical.com
Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

PS
11/2/09

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

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102344-02A
Client I.D. Number: GMW-14

Sampled: 10/22/09 09:07
Received: 10/23/09
Extracted: 10/27/09
Analyzed: 10/27/09

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Styrene	ND	1.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	ND	0.50 µg/L
7 Acetone	ND	10 µg/L	51 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,2,3-Trichloropropane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	10	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	1.2	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	95	(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	104	(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 / info@alpha-analytical.com

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11/2/09

Report Date

Page 1 of 1



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102344-03A
Client I.D. Number: GMW-27

Sampled: 10/22/09 10:09
Received: 10/23/09
Extracted: 10/27/09
Analyzed: 10/27/09

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Styrene	ND	1.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	ND	0.50 µg/L
7 Acetone	ND	10 µg/L	51 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,2,3-Trichloropropane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	830	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)	5.7	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)	17	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	93	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	106	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	99	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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11/2/09

Report Date



Alpha Analytical, Inc.

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

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102344-04A
Client I.D. Number: GMW-0-10

Sampled: 10/22/09 11:39
Received: 10/23/09
Extracted: 10/27/09
Analyzed: 10/27/09

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Styrene	ND	1.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	ND	0.50 µg/L
7 Acetone	ND	10 µg/L	51 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,2,3-Trichloropropane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 Isopropylbenzene	ND	1.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Bromobenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 n-Propylbenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 4-Chlorotoluene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 2-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	0.77	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	6.9	0.50 µg/L	72 Surr: Toluene-d8	105	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	98	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer

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

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11/2/09

Report Date

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Alpha Analytical, Inc.

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

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102344-05A
Client I.D. Number: PZ-10

Sampled: 10/22/09 12:38
Received: 10/23/09
Extracted: 10/27/09
Analyzed: 10/27/09

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	2.0 µg/L	45 Chlorobenzene	ND	2.0 µg/L
2 Chloromethane	ND	8.0 µg/L	46 Ethylbenzene	ND	1.0 µg/L
3 Vinyl chloride	ND	2.0 µg/L	47 m,p-Xylene	ND	1.0 µg/L
4 Chloroethane	ND	2.0 µg/L	48 Bromoform	ND	2.0 µg/L
5 Bromomethane	ND	8.0 µg/L	49 Styrene	ND	2.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	ND	1.0 µg/L
7 Acetone	ND	40 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)	30	2.0 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	ND	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)	4.4	1.0 µg/L	58 1,3,5-Trimethylbenzene	ND	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	ND	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	95	(70-130) %REC
28 Benzene	ND	1.0 µg/L	72 Surr: Toluene-d8	106	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	2.0 µg/L	73 Surr: 4-Bromofluorobenzene	99	(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	ND	1.0 µg/L			
39 1,3-Dichloropropane	ND	2.0 µg/L			
40 2-Hexanone	ND	20 µg/L			
41 Dibromochloromethane	ND	2.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	4.0 µg/L			
43 Tetrachloroethene	ND	2.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	2.0 µg/L			

Reporting Limits were increased due to sample foaming.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer

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11/2/09

Report Date



Alpha Analytical, Inc.

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

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shiow-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102344-06A
Client I.D. Number: MW-SF-9

Sampled: 10/22/09 13:35
Received: 10/23/09
Extracted: 10/28/09
Analyzed: 10/28/09

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	20 µg/L	45 Chlorobenzene	ND	20 µg/L
2 Chloromethane	ND	80 µg/L	46 Ethylbenzene	11	10 µg/L
3 Vinyl chloride	ND	20 µg/L	47 m,p-Xylene	ND	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	ND	10 µg/L
7 Acetone	ND	400 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)	13	10 µg/L	58 1,3,5-Trimethylbenzene	ND	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	ND	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	ND	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	96	(70-130) %REC
28 Benzene	1,300	10 µg/L	72 Surr: Toluene-d8	108	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/L	73 Surr: 4-Bromofluorobenzene	98	(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	ND	10 µg/L			
39 1,3-Dichloropropane	ND	20 µg/L			
40 2-Hexanone	ND	200 µg/L			
41 Dibromochloromethane	ND	20 µg/L			
42 1,2-Dibromoethane (EDB)	ND	40 µg/L			
43 Tetrachloroethene	ND	20 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	20 µg/L			

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

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer

Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / info@alpha-analytical.com

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11/2/09

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

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102344-07A
Client I.D. Number: GMW-1

Sampled: 10/22/09 14:18
Received: 10/23/09
Extracted: 10/27/09
Analyzed: 10/27/09

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	2.0 µg/L	45 Chlorobenzene	ND	2.0 µg/L
2 Chloromethane	ND	8.0 µg/L	46 Ethylbenzene	ND	1.0 µg/L
3 Vinyl chloride	ND	2.0 µg/L	47 m,p-Xylene	ND	1.0 µg/L
4 Chloroethane	ND	2.0 µg/L	48 Bromoform	ND	2.0 µg/L
5 Bromomethane	ND	8.0 µg/L	49 Styrene	ND	2.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	ND	1.0 µg/L
7 Acetone	ND	40 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)	ND	20 µg/L	53 Isopropylbenzene	7.8	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	ND	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)	ND	1.0 µg/L	58 1,3,5-Trimethylbenzene	ND	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	ND	2.0 µg/L
17 2-Butanone (MEK)	ND	40 µg/L	61 sec-Butylbenzene	2.4	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	95	(70-130) %REC
28 Benzene	1.5	1.0 µg/L	72 Surr: Toluene-d8	105	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	2.0 µg/L	73 Surr: 4-Bromofluorobenzene	99	(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	ND	1.0 µg/L			
39 1,3-Dichloropropane	ND	2.0 µg/L			
40 2-Hexanone	ND	20 µg/L			
41 Dibromochloromethane	ND	2.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	4.0 µg/L			
43 Tetrachloroethene	ND	2.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	2.0 µg/L			

Reporting Limits were increased due to sample foaming.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer

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11/2/09

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

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shiow-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102344-08A
Client I.D. Number: DUP-3

Sampled: 10/22/09 00:00
Received: 10/23/09
Extracted: 10/30/09
Analyzed: 10/30/09

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Styrene	ND	1.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	ND	0.50 µg/L
7 Acetone	ND	10 µg/L	51 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,2,3-Trichloropropane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	2,000	40 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	95	(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			

*This analyte was analyzed separately on 10/28/09 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 / info@alpha-analytical.com

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PS
11/2/09

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

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102344-09A
Client I.D. Number: DUP-4

Sampled: 10/22/09 00:00
Received: 10/23/09
Extracted: 10/27/09
Analyzed: 10/27/09

Volatile Organics by GC/MS EPA Method SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	2.0 µg/L	45 Chlorobenzene	ND	2.0 µg/L
2 Chloromethane	ND	8.0 µg/L	46 Ethylbenzene	ND	1.0 µg/L
3 Vinyl chloride	ND	2.0 µg/L	47 m,p-Xylene	ND	1.0 µg/L
4 Chloroethane	ND	2.0 µg/L	48 Bromoform	ND	2.0 µg/L
5 Bromomethane	ND	8.0 µg/L	49 Styrene	ND	2.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	ND	1.0 µg/L
7 Acetone	ND	40 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)	ND	20 µg/L	53 Isopropylbenzene	7.9	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	ND	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)	ND	1.0 µg/L	58 1,3,5-Trimethylbenzene	ND	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	ND	2.0 µg/L
17 2-Butanone (MEK)	ND	40 µg/L	61 sec-Butylbenzene	2.4	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	93	(70-130) %REC
28 Benzene	2.1	1.0 µg/L	72 Surr: Toluene-d8	105	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	2.0 µg/L	73 Surr: 4-Bromofluorobenzene	100	(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	ND	1.0 µg/L			
39 1,3-Dichloropropane	ND	2.0 µg/L			
40 2-Hexanone	ND	20 µg/L			
41 Dibromochloromethane	ND	2.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	4.0 µg/L			
43 Tetrachloroethene	ND	2.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	2.0 µg/L			

Reporting Limits were increased due to sample foaming.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer

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11/2/09

Report Date



Alpha Analytical, Inc.

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ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102344-10A
Client I.D. Number: TB-5

Sampled: 10/22/09 07:15
Received: 10/23/09
Extracted: 10/27/09
Analyzed: 10/27/09

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	1.0 µg/L	50 o-Xylene	ND	0.50 µg/L
7 Acetone	ND	10 µg/L	51 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,2,3-Trichloropropane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 Isopropylbenzene	ND	1.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Bromobenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 n-Propylbenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 4-Chlorotoluene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 2-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 1,3,5-Trimethylbenzene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 tert-Butylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 1,2,4-Trimethylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 sec-Butylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 1,3-Dichlorobenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,4-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 4-Isopropyltoluene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 1,2-Dichlorobenzene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 n-Butylbenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2,4-Trichlorobenzene	ND	2.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 Naphthalene	ND	10 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 1,2,3-Trichlorobenzene	ND	2.0 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	105	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	102	(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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11/2/09

Report Date

Page 1 of 1



Alpha Analytical, Inc.

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ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102344-11A
Client I.D. Number: EB-5

Sampled: 10/22/09 15:00
Received: 10/23/09
Extracted: 10/27/09
Analyzed: 10/27/09

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	95	(70-130) %REC
28 Benzene	ND	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	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 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 / 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.

11/2/09

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: GMT09102344

Job: KMEP Norwalk

Alpha's Sample ID	Client's Sample ID	Matrix	pH
09102344-01A	GMW-39	Aqueous	2
09102344-02A	GMW-14	Aqueous	2
09102344-03A	GMW-27	Aqueous	2
09102344-04A	GMW-0-10	Aqueous	2
09102344-05A	PZ-10	Aqueous	2
09102344-06A	MW-SF-9	Aqueous	2
09102344-07A	GMW-1	Aqueous	2
09102344-08A	DUP-3	Aqueous	2
09102344-09A	DUP-4	Aqueous	2
09102344-10A	TB-5	Aqueous	2
09102344-11A	EB-5	Aqueous	2

11/2/09
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:
31-Oct-09

QC Summary Report

Work Order:
09102344

Method Blank

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

File ID: **2A10220934.D**

Batch ID: **22908**

Analysis Date: **10/26/2009 13:27**

Sample ID: **MBLK-22908**

Units : **mg/L**

Run ID: **FID_2_091026A**

Prep Date: **10/26/2009 10:46**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (Fuel Product)	ND	0.1								
Surr: Nonane	0.115		0.15		77	57	147			

Laboratory Control Spike

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

File ID: **2A10220935.D**

Batch ID: **22908**

Analysis Date: **10/26/2009 13:53**

Sample ID: **LCS-22908**

Units : **mg/L**

Run ID: **FID_2_091026A**

Prep Date: **10/26/2009 10:46**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.36	0.05	2.5		94	67	130			
Surr: Nonane	0.119		0.15		79	57	147			

Sample Matrix Spike

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

File ID: **2A10220953.D**

Batch ID: **22908**

Analysis Date: **10/26/2009 21:32**

Sample ID: **09102302-01AMS**

Units : **mg/L**

Run ID: **FID_2_091026A**

Prep Date: **10/26/2009 10:46**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.57	0.05	2.5	0	103	49	150			
Surr: Nonane	0.113		0.15		75	57	147			

Sample Matrix Spike Duplicate

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

File ID: **2A10220954.D**

Batch ID: **22908**

Analysis Date: **10/26/2009 21:58**

Sample ID: **09102302-01AMSD**

Units : **mg/L**

Run ID: **FID_2_091026A**

Prep Date: **10/26/2009 10:46**

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	49	150	2.572	5.2(38)	
Surr: Nonane	0.123		0.15		82	57	147			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
31-Oct-09

QC Summary Report

Work Order:
09102344

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015**

File ID: **C:\HPCHEM\MS07\DATA\091027\09102706.D**

Batch ID: **MS07W1027B**

Analysis Date: **10/27/2009 17:31**

Sample ID: **MBLK MS07W1027B**

Units : **mg/L**

Run ID: **MSD_07_091027B**

Prep Date: **10/27/2009 17:31**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	0.05								
Surr: 1,2-Dichloroethane-d4	0.00983		0.01		98	70	130			
Surr: Toluene-d8	0.0105		0.01		105	70	130			
Surr: 4-Bromofluorobenzene	0.0102		0.01		102	70	130			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015**

File ID: **C:\HPCHEM\MS07\DATA\091027\09102703.D**

Batch ID: **MS07W1027B**

Analysis Date: **10/27/2009 16:23**

Sample ID: **GLCS MS07W1027B**

Units : **mg/L**

Run ID: **MSD_07_091027B**

Prep Date: **10/27/2009 16:23**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.406	0.05	0.4		102	70	130			
Surr: 1,2-Dichloroethane-d4	0.00988		0.01		99	70	130			
Surr: Toluene-d8	0.0101		0.01		101	70	130			
Surr: 4-Bromofluorobenzene	0.0101		0.01		101	70	130			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8015**

File ID: **C:\HPCHEM\MS07\DATA\091027\09102711.D**

Batch ID: **MS07W1027B**

Analysis Date: **10/27/2009 19:24**

Sample ID: **09102344-03AGS**

Units : **mg/L**

Run ID: **MSD_07_091027B**

Prep Date: **10/27/2009 19:24**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2.21	0.25	2	0.1346	104	58	135			
Surr: 1,2-Dichloroethane-d4	0.0484		0.05		97	70	130			
Surr: Toluene-d8	0.0507		0.05		101	70	130			
Surr: 4-Bromofluorobenzene	0.0494		0.05		99	70	130			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8015**

File ID: **C:\HPCHEM\MS07\DATA\091027\09102712.D**

Batch ID: **MS07W1027B**

Analysis Date: **10/27/2009 19:47**

Sample ID: **09102344-03AGSD**

Units : **mg/L**

Run ID: **MSD_07_091027B**

Prep Date: **10/27/2009 19:47**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2.09	0.25	2	0.1346	98	58	135	2.213	5.5(20)	
Surr: 1,2-Dichloroethane-d4	0.0479		0.05		96	70	130			
Surr: Toluene-d8	0.0512		0.05		102	70	130			
Surr: 4-Bromofluorobenzene	0.0498		0.05		99.6	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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QC Summary Report

Date:
31-Oct-09

Work Order:
09102344

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	9.83		10		98	70	130
Surr: Toluene-d8	10.5		10		105	70	130
Surr: 4-Bromofluorobenzene	10.2		10		102	70	130

Laboratory Control Spike

Type LCS Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS07\DATA\091027\09102704.D

Batch ID: MS07W1027A

Analysis Date: 10/27/2009 16:46

Sample ID: LCS MS07W1027A

Units: µg/L

Run ID: MSD_07_091027B

Prep Date: 10/27/2009 16:46

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	9.9	1	10		99	80	120			
Methyl tert-butyl ether (MTBE)	9.42	0.5	10		94	62	136			
Benzene	10.5	0.5	10		105	70	130			
Trichloroethene	9.65	1	10		97	70	130			
Toluene	9.88	0.5	10		99	80	120			
Chlorobenzene	10.3	1	10		103	70	130			
Ethylbenzene	9.36	0.5	10		94	80	120			
m,p-Xylene	10.4	0.5	10		104	70	130			
o-Xylene	10.7	0.5	10		107	70	130			
Surr: 1,2-Dichloroethane-d4	10		10		100	70	130			
Surr: Toluene-d8	9.85		10		99	70	130			
Surr: 4-Bromofluorobenzene	9.41		10		94	70	130			

Sample Matrix Spike

Type MS Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS07\DATA\091027\09102709.D

Batch ID: MS07W1027A

Analysis Date: 10/27/2009 18:39

Sample ID: 09102344-03AMS

Units: µg/L

Run ID: MSD_07_091027B

Prep Date: 10/27/2009 18:39

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	50.8	2.5	50		0	102	60	130		
Methyl tert-butyl ether (MTBE)	52.3	1.3	50	5.66	93	56	141			
Benzene	55	1.3	50		0	110	67	130		
Trichloroethene	50.6	2.5	50		0	101	69	130		
Toluene	52.2	1.3	50		0	104	66	130		
Chlorobenzene	54.7	2.5	50		0	109	70	130		
Ethylbenzene	49.5	1.3	50		0	99	68	130		
m,p-Xylene	54.9	1.3	50		0	110	64	130		
o-Xylene	56.7	1.3	50		0	113	70	130		
Surr: 1,2-Dichloroethane-d4	49.8		50		99.7	70	130			
Surr: Toluene-d8	49.3		50		99	70	130			
Surr: 4-Bromofluorobenzene	45.5		50		91	70	130			

Sample Matrix Spike Duplicate

Type MSD Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS07\DATA\091027\09102710.D

Batch ID: MS07W1027A

Analysis Date: 10/27/2009 19:02

Sample ID: 09102344-03AMSD

Units: µg/L

Run ID: MSD_07_091027B

Prep Date: 10/27/2009 19:02

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	49.7	2.5	50		0	99	60	130	50.83	2.2(20)
Methyl tert-butyl ether (MTBE)	53.5	1.3	50	5.66	96	56	141		52.3	2.2(20)
Benzene	52.8	1.3	50		0	106	67	130	54.99	4.1(20)
Trichloroethene	49.3	2.5	50		0	99	69	130	50.58	2.7(20)
Toluene	50.7	1.3	50		0	101	66	130	52.21	2.9(20)
Chlorobenzene	53.1	2.5	50		0	106	70	130	54.68	2.9(20)
Ethylbenzene	48.1	1.3	50		0	96	68	130	49.46	2.7(20)
m,p-Xylene	53	1.3	50		0	106	64	130	54.86	3.4(20)
o-Xylene	55	1.3	50		0	110	70	130	56.67	3.0(20)
Surr: 1,2-Dichloroethane-d4	49.4		50		99	70	130			
Surr: Toluene-d8	49.5		50		99	70	130			
Surr: 4-Bromofluorobenzene	46		50		92	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

QC Summary Report

Date:

31-Oct-09

Work Order:

09102344

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

Page: 1 of 2

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

CA
WorkOrder : GMTC09102344
Report Due By : 5:00 PM On : 03-Nov-09

Client: AMEC Geomatrix Consultants
 510 Superior Avenue, Suite 200
 Newport Beach, CA 92663-3627


Report Attention: Phone Number: Email Address
 Show-Wei Chou (949) 642-0245 x show-wei.chou@amec.com
 Thandar Phyu (949) 642-0245 x 7630 thandar.phyu@amec.com

Report J Values down to MDL : Yes
EDD Required : Yes
 Sampled by : Bret Barker
 Cooler Temp: 4 °C Samples Received: 23-Oct-09 Date Printed: 23-Oct-09

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD with Surrogates
 Job : KMEP Norwalk

Alpha Sample ID	Client Sample ID	Collection Date	No. of Bottles		Matrix	Requested Tests			Sample Remarks
			Alpha	Sub		TPHE_W	TPHP_W	VOC_W	
GMT09102344-01A	GMMW-39	10/22/09 07:58	6	0	AQ	TPHE(0.10) +VinyI acetate	TPHP(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	
GMT09102344-02A	GMMW-14	10/22/09 09:07	6	0	AQ	TPHE(0.10) +VinyI acetate	TPHP(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	
GMT09102344-03A	GMMW-27	10/22/09 10:09	6	0	AQ	TPHE(0.10) +VinyI acetate	TPHP(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	
GMT09102344-04A	GMMW-0-10	10/22/09 11:39	6	0	AQ	TPHE(0.10) +VinyI acetate	TPHP(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	
GMT09102344-05A	PZ-10	10/22/09 12:38	6	0	AQ	TPHE(0.10) +VinyI acetate	TPHP(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	
GMT09102344-06A	NMW-SF-9	10/22/09 13:35	6	0	AQ	TPHE(0.10) +VinyI acetate	TPHP(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	
GMT09102344-07A	GMMW-1	10/22/09 14:18	6	0	AQ	TPHE(0.10) +VinyI acetate	TPHP(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	
GMT09102344-08A	DUP-3	10/22/09 00:00	6	0	AQ	TPHE(0.10) +VinyI acetate	TPHP(0.10) +VinyI acetate	TPHE(0.10) +VinyI acetate	

Comments: Security seals intact. Frozen Ice. Analysis: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values. :

Logged in by:  Signature _____ Print Name: Cheryl Gamble Company: Alpha Analytical, Inc. Date/Time: 10/23/09 12:53pm

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.
 The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.
 Matrix Type : Aq(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orto T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

CHAIN-OF-CUSTODY RECORD

Page: 2 of 2

Alpha Analytical, Inc.

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

CA

WorkOrder : GMTTC09102344

Report Due By : 5:00 PM On : 03-Nov-09

Report J Values down to MDL : Yes

EDD Required : Yes

Sampled by : Bret Barker

Cooler Temp 4 °C Samples Received 23-Oct-09 Date Printed 23-Oct-09

Client: AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 92663-3627

Report Attention: Shiw-Wei Chou
Phone Number: (949) 642-0245 x
Email Address: shiw-wei.chou@amec.com
Thandar Phyu (949) 642-0245 x 7630 thandar.phyu@amec.com

Client's COC #: none Job : KMEP Norwalk
QC Level : S3 = Final Rpt. MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles			Requested Tests			Sample Remarks
			Alpha	Sub	TAT	TPHE_W	TPHP_W	VOC_W	
GMT09102344-09A	DUP-4	AQ 10/22/09 00:00	6	0	7	TPHE(0.10) +Vmyl acetate	TPHP(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	
GMT09102344-10A	TB-5	AQ 10/22/09 07:15	3	0	7	TPHE(0.10) +Vmyl acetate	TPHP(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	RENO TRIP BLANKS - 9/8/09
GMT09102344-11A	EB-5	AQ 10/22/09 15:00	6	0	7	TPHE(0.10) +Vmyl acetate	TPHP(0.10) +Vmyl acetate	TPHE(0.10) +Vmyl acetate	

Comments: Security seals intact. Frozen Ice. Analysts: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values.

Logged in by:  Signature _____ Print Name Cheryl Gamble Company Alpha Analytical, Inc. Date/Time 10/23/09 12:53pm

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.
The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.
Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

BLAINE

TECH SERVICES, INC.

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

Alpha Analytical COC 1 of 2

CHAIN OF CUSTODY

CLIENT: Kinder Morgan

SITE: Norwalk

15306 Norwalk Blvd, Norwalk

CONDUCT ANALYSIS TO DETECT

LAB

Billing Information:
 Kinder Morgan
 1100 Town and Country Rd.
 Orange CA 95112

Kinder Morgan Norwalk
 Report to:
 Thandat Phyu and Show-Whei Chou
 AMEC Geomatrix, Inc.
 510 Superior Ave, Suite 200
 Newport Beach, CA 92663

SAMPLE I.D.	DATE	TIME	MATRIX AO = Water	#	Preservation	Type	CONTAINERS		TPHg, TPHfp (EPA 8015M)	VOC's & Oxygenates (EPA 8260B)	RESULTS NEEDED NO LATER THAN	STATUS	CONDITION	LAB SAMPLE #
GMW-39	10/24/09	07:58	AQ	6	HCL	VOA			X	X	Standard			GMT09102344-01A
GMW-14		09:07							X	X				-02A
GMW-27		10:09							X	X				03A
GMW-0-10		11:39							X	X				04A
PZ-10		12:38							X	X				05A
GMW-5F-9		13:35							X	X				06A
GMW-1		14:18							X	X				07A
Dp-3									X	X				08A
Dp-4									X	X				09A
TR-5		07:15		3					X	X				10A

RELEASED BY: *[Signature]* TIME: 1610 RECEIVED BY: *[Signature]* DATE: 10/24/09 TIME: 1610

RELEASED BY: *[Signature]* TIME: 1610 RECEIVED BY: *[Signature]* DATE: 10/23/09 TIME: 1600

SHIPPED VIA: *[Signature]* TIME SENT: 1610 COOLER #: *[Signature]* DATE: 10/23/09 TIME: 12:35pm



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

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474
Date Received : 10/26/09

Job: KMEP Norwalk

Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B
Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B

	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID :	PZ-5				
Lab ID :	GMT09102645-01A	TPH-E (Fuel Product)	0.10 mg/L	10/26/09 10:46	10/27/09
Date Sampled	10/23/09 09:18	Surr: Nonane	89	(57-147) %REC	10/26/09 10:46
		TPH-P (GRO)	2.9	1.0 mg/L	10/28/09
		Surr: 1,2-Dichloroethane-d4	95	(70-130) %REC	10/28/09
		Surr: Toluene-d8	107	(70-130) %REC	10/28/09
		Surr: 4-Bromofluorobenzene	96	(70-130) %REC	10/28/09
Client ID :	EB-6				
Lab ID :	GMT09102645-03A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/26/09 10:46
Date Sampled	10/23/09 12:00	Surr: Nonane	88	(57-147) %REC	10/26/09 10:46
		TPH-P (GRO)	ND	0.050 mg/L	10/27/09
		Surr: 1,2-Dichloroethane-d4	97	(70-130) %REC	10/27/09
		Surr: Toluene-d8	105	(70-130) %REC	10/27/09
		Surr: 4-Bromofluorobenzene	101	(70-130) %REC	10/27/09
Client ID :	DUP-5				
Lab ID :	GMT09102645-04A	TPH-E (Fuel Product)	1.3	0.10 mg/L	10/26/09 10:46
Date Sampled	10/23/09 00:00	Surr: Nonane	90	(57-147) %REC	10/26/09 10:46
		TPH-P (GRO)	3.0	1.0 mg/L	10/28/09
		Surr: 1,2-Dichloroethane-d4	94	(70-130) %REC	10/28/09
		Surr: Toluene-d8	108	(70-130) %REC	10/28/09
		Surr: 4-Bromofluorobenzene	96	(70-130) %REC	10/28/09

Gasoline Range Organics (GRO) C4-C13

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / 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.

11/3/09

Report Date



Alpha Analytical, Inc.

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ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102645-01A
Client I.D. Number: PZ-5

Sampled: 10/23/09 09:18
Received: 10/26/09
Extracted: 10/28/09
Analyzed: 10/28/09

Volatile Organics by GC/MS EPA Method 624/SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	10 µg/L	45 Chlorobenzene	ND	10 µg/L
2 Chloromethane	ND	40 µg/L	46 Ethylbenzene	53	5.0 µg/L
3 Vinyl chloride	ND	10 µg/L	47 m,p-Xylene	40	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	29	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)	50,000	400 µg/L	53 Isopropylbenzene	ND	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	ND	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)	500	5.0 µg/L	58 1,3,5-Trimethylbenzene	ND	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	22	10 µg/L
17 2-Butanone (MEK)	ND	200 µg/L	61 sec-Butylbenzene	ND	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	ND	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	ND	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	95	(70-130) %REC
28 Benzene	1,100	5.0 µg/L	72 Surr: Toluene-d8	107	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	10 µg/L	73 Surr: 4-Bromofluorobenzene	96	(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	18	5.0 µg/L			
39 1,3-Dichloropropane	ND	10 µg/L			
40 2-Hexanone	ND	100 µg/L			
41 Dibromochloromethane	ND	10 µg/L			
42 1,2-Dibromoethane (EDB)	ND	20 µg/L			
43 Tetrachloroethene	ND	10 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	10 µg/L			

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

*This analyte was analyzed separately on 10/30/09 in order to achieve lower reporting limits for the other analytes.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer

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11/3/09

Report Date



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ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102645-02A
Client I.D. Number: TB-6

Sampled: 10/23/09 07:15
Received: 10/26/09
Extracted: 10/27/09
Analyzed: 10/27/09

Volatile Organics by GC/MS EPA Method 624/SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Styrene	ND	1.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	ND	0.50 µg/L
7 Acetone	ND	10 µg/L	51 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,2,3-Trichloropropane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 Isopropylbenzene	ND	1.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Bromobenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 n-Propylbenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 4-Chlorotoluene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 2-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 1,3,5-Trimethylbenzene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 tert-Butylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 1,2,4-Trimethylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 sec-Butylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 1,3-Dichlorobenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,4-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 4-Isopropyltoluene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 1,2-Dichlorobenzene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 n-Butylbenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2,4-Trichlorobenzene	ND	2.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 Naphthalene	ND	10 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 1,2,3-Trichlorobenzene	ND	2.0 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	105	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	73 Surr: 4-Bromofluorobenzene	102	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer

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11/3/09

Report Date



Alpha Analytical, Inc.

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

ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102645-03A
Client I.D. Number: EB-6

Sampled: 10/23/09 12:00
Received: 10/26/09
Extracted: 10/27/09
Analyzed: 10/27/09

Volatile Organics by GC/MS EPA Method 624/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	97	(70-130) %REC
28 Benzene	ND	0.50 µg/L	72 Surr: Toluene-d8	105	(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

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[Signature]

11/3/09

Report Date



Alpha Analytical, Inc.

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ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shiow-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102645-04A
Client I.D. Number: DUP-5

Sampled: 10/23/09 00:00
Received: 10/26/09
Extracted: 10/28/09
Analyzed: 10/28/09

Volatile Organics by GC/MS EPA Method 624/SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	10 µg/L	45 Chlorobenzene	ND	10 µg/L
2 Chloromethane	ND	40 µg/L	46 Ethylbenzene	55	5.0 µg/L
3 Vinyl chloride	ND	10 µg/L	47 m,p-Xylene	43	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	31	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)	48,000	400 µg/L	53 Isopropylbenzene	ND	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	ND	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)	530	5.0 µg/L	58 1,3,5-Trimethylbenzene	ND	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	23	10 µg/L
17 2-Butanone (MEK)	ND	200 µg/L	61 sec-Butylbenzene	ND	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	ND	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	ND	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	94	(70-130) %REC
28 Benzene	1,100	5.0 µg/L	72 Surr: Toluene-d8	108	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	10 µg/L	73 Surr: 4-Bromofluorobenzene	96	(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	18	5.0 µg/L			
39 1,3-Dichloropropane	ND	10 µg/L			
40 2-Hexanone	ND	100 µg/L			
41 Dibromochloromethane	ND	10 µg/L			
42 1,2-Dibromoethane (EDB)	ND	20 µg/L			
43 Tetrachloroethene	ND	10 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	10 µg/L			

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

*This analyte was analyzed separately on 10/30/09 in order to achieve lower reporting limits for the other analytes.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer

Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / 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.

11/3/09

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: GMT09102645

Job: KMEP Norwalk

Alpha's Sample ID	Client's Sample ID	Matrix	pH
09102645-01A	PZ-5	Aqueous	2
09102645-02A	TB-6	Aqueous	2
09102645-03A	EB-6	Aqueous	2
09102645-04A	DUP-5	Aqueous	2

11/3/09
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:
03-Nov-09

QC Summary Report

Work Order:
09102645

Method Blank

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

File ID: **2A10220934.D**

Batch ID: **22908**

Analysis Date: **10/26/2009 13:27**

Sample ID: **MBLK-22908**

Units : **mg/L**

Run ID: **FID_2_091026A**

Prep Date: **10/26/2009 10:46**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (Fuel Product)	ND	0.1								
Surr: Nonane	0.115		0.15		77	57	147			

Laboratory Control Spike

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

File ID: **2A10220935.D**

Batch ID: **22908**

Analysis Date: **10/26/2009 13:53**

Sample ID: **LCS-22908**

Units : **mg/L**

Run ID: **FID_2_091026A**

Prep Date: **10/26/2009 10:46**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.36	0.05	2.5		94	67	130			
Surr: Nonane	0.119		0.15		79	57	147			

Sample Matrix Spike

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

File ID: **2A10220953.D**

Batch ID: **22908**

Analysis Date: **10/26/2009 21:32**

Sample ID: **09102302-01AMS**

Units : **mg/L**

Run ID: **FID_2_091026A**

Prep Date: **10/26/2009 10:46**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.57	0.05	2.5	0	103	49	150			
Surr: Nonane	0.113		0.15		75	57	147			

Sample Matrix Spike Duplicate

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

File ID: **2A10220954.D**

Batch ID: **22908**

Analysis Date: **10/26/2009 21:58**

Sample ID: **09102302-01AMSD**

Units : **mg/L**

Run ID: **FID_2_091026A**

Prep Date: **10/26/2009 10:46**

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	49	150	2.572	5.2(38)	
Surr: Nonane	0.123		0.15		82	57	147			

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:
03-Nov-09

QC Summary Report

Work Order:
09102645

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015**

File ID: C:\HPCHEMMS07\DATA\091027\09102706.D

Batch ID: **MS07W1027B**

Analysis Date: **10/27/2009 17:31**

Sample ID: **MBLK MS07W1027B**

Units: **mg/L**

Run ID: **MSD_07_091027B**

Prep Date: **10/27/2009 17:31**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	0.05								
Surr: 1,2-Dichloroethane-d4	0.00983		0.01		98	70	130			
Surr: Toluene-d8	0.0105		0.01		105	70	130			
Surr: 4-Bromofluorobenzene	0.0102		0.01		102	70	130			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015**

File ID: C:\HPCHEMMS07\DATA\091027\09102703.D

Batch ID: **MS07W1027B**

Analysis Date: **10/27/2009 16:23**

Sample ID: **GLCS MS07W1027B**

Units: **mg/L**

Run ID: **MSD_07_091027B**

Prep Date: **10/27/2009 16:23**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.406	0.05	0.4		102	70	130			
Surr: 1,2-Dichloroethane-d4	0.00988		0.01		99	70	130			
Surr: Toluene-d8	0.0101		0.01		101	70	130			
Surr: 4-Bromofluorobenzene	0.0101		0.01		101	70	130			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8015**

File ID: C:\HPCHEMMS07\DATA\091027\09102711.D

Batch ID: **MS07W1027B**

Analysis Date: **10/27/2009 19:24**

Sample ID: **09102344-03AGS**

Units: **mg/L**

Run ID: **MSD_07_091027B**

Prep Date: **10/27/2009 19:24**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2.21	0.25	2	0.1346	104	58	135			
Surr: 1,2-Dichloroethane-d4	0.0484		0.05		97	70	130			
Surr: Toluene-d8	0.0507		0.05		101	70	130			
Surr: 4-Bromofluorobenzene	0.0494		0.05		99	70	130			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8015**

File ID: C:\HPCHEMMS07\DATA\091027\09102712.D

Batch ID: **MS07W1027B**

Analysis Date: **10/27/2009 19:47**

Sample ID: **09102344-03AGSD**

Units: **mg/L**

Run ID: **MSD_07_091027B**

Prep Date: **10/27/2009 19:47**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2.09	0.25	2	0.1346	98	58	135	2.213	5.5(20)	
Surr: 1,2-Dichloroethane-d4	0.0479		0.05		96	70	130			
Surr: Toluene-d8	0.0512		0.05		102	70	130			
Surr: 4-Bromofluorobenzene	0.0498		0.05		99.6	70	130			

Comments:

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Alpha Analytical, Inc.

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Date:
03-Nov-09

QC Summary Report

Work Order:
09102645

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	9.83		10		98	70	130			
Surr: Toluene-d8	10.5		10		105	70	130			
Surr: 4-Bromofluorobenzene	10.2		10		102	70	130			

Laboratory Control Spike

Type **LCS**

Test Code: **EPA Method 624/SW8260B**

File ID: **C:\HPCHEMMS07\DATA\091027\09102704.D**

Batch ID: **MS07W1027A**

Analysis Date: **10/27/2009 16:46**

Sample ID: **LCS MS07W1027A**

Units: **µg/L**

Run ID: **MSD_07_091027B**

Prep Date: **10/27/2009 16:46**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	9.9	1	10		99	80	120			
Methyl tert-butyl ether (MTBE)	9.42	0.5	10		94	62	136			
Benzene	10.5	0.5	10		105	70	130			
Trichloroethene	9.65	1	10		97	70	130			
Toluene	9.88	0.5	10		99	80	120			
Chlorobenzene	10.3	1	10		103	70	130			
Ethylbenzene	9.36	0.5	10		94	80	120			
m,p-Xylene	10.4	0.5	10		104	70	130			
o-Xylene	10.7	0.5	10		107	70	130			
Surr: 1,2-Dichloroethane-d4	10		10		100	70	130			
Surr: Toluene-d8	9.85		10		99	70	130			
Surr: 4-Bromofluorobenzene	9.41		10		94	70	130			

Sample Matrix Spike

Type **MS**

Test Code: **EPA Method 624/SW8260B**

File ID: **C:\HPCHEMMS07\DATA\091027\09102709.D**

Batch ID: **MS07W1027A**

Analysis Date: **10/27/2009 18:39**

Sample ID: **09102344-03AMS**

Units: **µg/L**

Run ID: **MSD_07_091027B**

Prep Date: **10/27/2009 18:39**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	50.8	2.5	50		0	102	60	130		
Methyl tert-butyl ether (MTBE)	52.3	1.3	50	5.66	93	56	141			
Benzene	55	1.3	50		0	110	67	130		
Trichloroethene	50.6	2.5	50		0	101	69	130		
Toluene	52.2	1.3	50		0	104	66	130		
Chlorobenzene	54.7	2.5	50		0	109	70	130		
Ethylbenzene	49.5	1.3	50		0	99	68	130		
m,p-Xylene	54.9	1.3	50		0	110	64	130		
o-Xylene	56.7	1.3	50		0	113	70	130		
Surr: 1,2-Dichloroethane-d4	49.8		50		99.7	70	130			
Surr: Toluene-d8	49.3		50		99	70	130			
Surr: 4-Bromofluorobenzene	45.5		50		91	70	130			

Sample Matrix Spike Duplicate

Type **MSD**

Test Code: **EPA Method 624/SW8260B**

File ID: **C:\HPCHEMMS07\DATA\091027\09102710.D**

Batch ID: **MS07W1027A**

Analysis Date: **10/27/2009 19:02**

Sample ID: **09102344-03AMSD**

Units: **µg/L**

Run ID: **MSD_07_091027B**

Prep Date: **10/27/2009 19:02**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	49.7	2.5	50		0	99	60	130	50.83	2.2(20)
Methyl tert-butyl ether (MTBE)	53.5	1.3	50	5.66	96	56	141	52.3	2.2(20)	
Benzene	52.8	1.3	50		0	106	67	130	54.99	4.1(20)
Trichloroethene	49.3	2.5	50		0	99	69	130	50.58	2.7(20)
Toluene	50.7	1.3	50		0	101	66	130	52.21	2.9(20)
Chlorobenzene	53.1	2.5	50		0	106	70	130	54.68	2.9(20)
Ethylbenzene	48.1	1.3	50		0	96	68	130	49.46	2.7(20)
m,p-Xylene	53	1.3	50		0	106	64	130	54.86	3.4(20)
o-Xylene	55	1.3	50		0	110	70	130	56.67	3.0(20)
Surr: 1,2-Dichloroethane-d4	49.4		50		99	70	130			
Surr: Toluene-d8	49.5		50		99	70	130			
Surr: 4-Bromofluorobenzene	46		50		92	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:
03-Nov-09

QC Summary Report

Work Order:
09102645

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

CHAIN-OF-CUSTODY RECORD

CA

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

WorkOrder : GMTC09102645
Report Due By : 5:00 PM On : 04-Nov-09

Client: AMEC Geomatrix Consultants
 510 Superior Avenue, Suite 200
 Newport Beach, CA 92663-3627

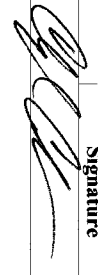
Report Attention: Phone Number: Email Address
 Show-Whei Chou (949) 642-0245 x show-whei.chou@amec.com
 Thandar Phyu (949) 642-0245 x 7630 thandar.phyu@amec.com

Report J Values down to MDL : Yes
EDD Required : Yes
 Sampled by : Client
 Cooler Temp 4 °C Samples Received 26-Oct-09 Date Printed 26-Oct-09

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates
 Job : KMEP Norwalk

Alpha Sample ID	Client Sample ID	Collection Date	No. of Bottles Alpha Sub	TAT	Requested Tests			Sample Remarks	
					TPHE_W +Vial acetate	TPHP_W +Vial acetate	VOC_W +Vial acetate		
GMTC09102645-01A	PZ-5	10/23/09 09:18	6	0	7	TPHE(0.10) +Vial acetate	TPHP(0.10) +Vial acetate	TPHE(0.10) +Vial acetate	
GMTC09102645-02A	TB-6	10/23/09 07:15	3	0	7	TPHE(0.10) +Vial acetate	TPHP(0.10) +Vial acetate	TPHE(0.10) +Vial acetate	RENO TRIP BLANKS - 8/21/09
GMTC09102645-03A	EB-6	10/23/09 12:00	6	0	7	TPHE(0.10) +Vial acetate	TPHP(0.10) +Vial acetate	TPHE(0.10) +Vial acetate	
GMTC09102645-04A	DUP-5	10/23/09 00:00	6	0	7	TPHE(0.10) +Vial acetate	TPHP(0.10) +Vial acetate	TPHE(0.10) +Vial acetate	

Comments: Security seals intact. Frozen Ice. Analysis: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values. . .

Logged in by:  Signature Print Name Date/Time

Company Alpha Analytical, Inc. 10/26/09 1407

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



Alpha Analytical, Inc.

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ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627

Attn: Shiow-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474
Date Received : 10/26/09

Job: KMEP Norwalk

Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B
Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B

Client ID :	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
EB-7					
Lab ID : GMT09102647-02A	TPH-E (Fuel Product)	ND	0.10 mg/L	10/28/09 12:36	10/29/09
Date Sampled 10/23/09 12:15	Surr: Nonane	83	(57-147) %REC	10/28/09 12:36	10/29/09
	TPH-P (GRO)	ND	0.050 mg/L	10/29/09	10/29/09
	Surr: 1,2-Dichloroethane-d4	95	(70-130) %REC	10/29/09	10/29/09
	Surr: Toluene-d8	108	(70-130) %REC	10/29/09	10/29/09
	Surr: 4-Bromofluorobenzene	98	(70-130) %REC	10/29/09	10/29/09
GMW-0-14					
Lab ID : GMT09102647-03A	TPH-E (Fuel Product)	21 **	1.0 mg/L	10/28/09 12:36	10/29/09
Date Sampled 10/23/09 09:24	Surr: Nonane	0 S50	(57-147) %REC	10/28/09 12:36	10/29/09
	TPH-P (GRO)	40	20 mg/L	10/29/09	10/29/09
	Surr: 1,2-Dichloroethane-d4	95	(70-130) %REC	10/29/09	10/29/09
	Surr: Toluene-d8	109	(70-130) %REC	10/29/09	10/29/09
	Surr: 4-Bromofluorobenzene	96	(70-130) %REC	10/29/09	10/29/09
MW-SF-1					
Lab ID : GMT09102647-04A	TPH-E (Fuel Product)	12 **	1.0 mg/L	10/28/09 12:36	10/29/09
Date Sampled 10/23/09 08:31	Surr: Nonane	126	(57-147) %REC	10/28/09 12:36	10/29/09
	TPH-P (GRO)	21	10 mg/L	10/29/09	10/29/09
	Surr: 1,2-Dichloroethane-d4	93	(70-130) %REC	10/29/09	10/29/09
	Surr: Toluene-d8	109	(70-130) %REC	10/29/09	10/29/09
	Surr: 4-Bromofluorobenzene	94	(70-130) %REC	10/29/09	10/29/09
DUP-6					
Lab ID : GMT09102647-05A	TPH-E (Fuel Product)	12 **	1.0 mg/L	10/28/09 12:36	10/29/09
Date Sampled 10/23/09 00:00	Surr: Nonane	0 S50	(57-147) %REC	10/28/09 12:36	10/29/09
	TPH-P (GRO)	39	20 mg/L	10/29/09	10/29/09
	Surr: 1,2-Dichloroethane-d4	93	(70-130) %REC	10/29/09	10/29/09
	Surr: Toluene-d8	110	(70-130) %REC	10/29/09	10/29/09
	Surr: 4-Bromofluorobenzene	97	(70-130) %REC	10/29/09	10/29/09

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

Gasoline Range Organics (GRO) C4-C13

S50 = The analysis of the sample required a dilution such that the surrogate concentration was diluted below the laboratory acceptance criteria. The laboratory control sample was acceptable.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / 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.

11/3/09

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

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102647-01A
Client I.D. Number: TB-7

Sampled: 10/23/09 07:00
Received: 10/26/09
Extracted: 10/28/09
Analyzed: 10/28/09

Volatile Organics by GC/MS EPA Method 624/SW8260B

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

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11/3/09

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

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102647-02A
Client I.D. Number: EB-7

Sampled: 10/23/09 12:15
Received: 10/26/09
Extracted: 10/29/09
Analyzed: 10/29/09

Volatile Organics by GC/MS EPA Method 624/SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	1.0 µg/L	45 Chlorobenzene	ND	1.0 µg/L
2 Chloromethane	ND	2.0 µg/L	46 Ethylbenzene	ND	0.50 µg/L
3 Vinyl chloride	ND	0.50 µg/L	47 m,p-Xylene	ND	0.50 µg/L
4 Chloroethane	ND	1.0 µg/L	48 Bromoform	ND	1.0 µg/L
5 Bromomethane	ND	2.0 µg/L	49 Styrene	ND	1.0 µg/L
6 Trichlorofluoromethane	ND	10 µg/L	50 o-Xylene	ND	0.50 µg/L
7 Acetone	ND	10 µg/L	51 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8 1,1-Dichloroethene	ND	1.0 µg/L	52 1,2,3-Trichloropropane	ND	2.0 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	53 Isopropylbenzene	ND	1.0 µg/L
10 Dichloromethane	ND	5.0 µg/L	54 Bromobenzene	ND	1.0 µg/L
11 Freon-113	ND	10 µg/L	55 n-Propylbenzene	ND	1.0 µg/L
12 Carbon disulfide	ND	2.5 µg/L	56 4-Chlorotoluene	ND	1.0 µg/L
13 trans-1,2-Dichloroethene	ND	1.0 µg/L	57 2-Chlorotoluene	ND	1.0 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	58 1,3,5-Trimethylbenzene	ND	1.0 µg/L
15 1,1-Dichloroethane	ND	1.0 µg/L	59 tert-Butylbenzene	ND	1.0 µg/L
16 Vinyl acetate	ND	50 µg/L	60 1,2,4-Trimethylbenzene	ND	1.0 µg/L
17 2-Butanone (MEK)	ND	10 µg/L	61 sec-Butylbenzene	ND	1.0 µg/L
18 Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	62 1,3-Dichlorobenzene	ND	1.0 µg/L
19 cis-1,2-Dichloroethene	ND	1.0 µg/L	63 1,4-Dichlorobenzene	ND	1.0 µg/L
20 Bromochloromethane	ND	1.0 µg/L	64 4-Isopropyltoluene	ND	1.0 µg/L
21 Chloroform	ND	1.0 µg/L	65 1,2-Dichlorobenzene	ND	1.0 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	66 n-Butylbenzene	ND	1.0 µg/L
23 2,2-Dichloropropane	ND	1.0 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0 µg/L
24 1,2-Dichloroethane	ND	0.50 µg/L	68 1,2,4-Trichlorobenzene	ND	2.0 µg/L
25 1,1,1-Trichloroethane	ND	1.0 µg/L	69 Naphthalene	ND	10 µg/L
26 1,1-Dichloropropene	ND	1.0 µg/L	70 1,2,3-Trichlorobenzene	ND	2.0 µg/L
27 Carbon tetrachloride	ND	1.0 µg/L	71 Surr: 1,2-Dichloroethane-d4	95	(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	98	(70-130) %REC
30 Dibromomethane	ND	1.0 µg/L			
31 1,2-Dichloropropane	ND	1.0 µg/L			
32 Trichloroethene	ND	1.0 µg/L			
33 Bromodichloromethane	ND	1.0 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	10 µg/L			
35 cis-1,3-Dichloropropene	ND	0.50 µg/L			
36 trans-1,3-Dichloropropene	ND	0.50 µg/L			
37 1,1,2-Trichloroethane	ND	1.0 µg/L			
38 Toluene	ND	0.50 µg/L			
39 1,3-Dichloropropane	ND	1.0 µg/L			
40 2-Hexanone	ND	5.0 µg/L			
41 Dibromochloromethane	ND	1.0 µg/L			
42 1,2-Dibromoethane (EDB)	ND	2.0 µg/L			
43 Tetrachloroethene	ND	1.0 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	1.0 µg/L			

ND = Not Detected

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Report Date



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ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102647-03A
Client I.D. Number: GMW-0-14

Sampled: 10/23/09 09:24
Received: 10/26/09
Extracted: 10/29/09
Analyzed: 10/29/09

Volatile Organics by GC/MS EPA Method 624/SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	200 µg/L	45 Chlorobenzene	ND	200 µg/L
2 Chloromethane	ND	800 µg/L	46 Ethylbenzene	1,500	100 µg/L
3 Vinyl chloride	ND	200 µg/L	47 m,p-Xylene	1,900	100 µg/L
4 Chloroethane	ND	200 µg/L	48 Bromoform	ND	200 µg/L
5 Bromomethane	ND	800 µg/L	49 Styrene	ND	200 µg/L
6 Trichlorofluoromethane	ND	200 µg/L	50 o-Xylene	1,600	100 µg/L
7 Acetone	ND	4,000 µg/L	51 1,1,2,2-Tetrachloroethane	ND	200 µg/L
8 1,1-Dichloroethene	ND	200 µg/L	52 1,2,3-Trichloropropane	ND	800 µg/L
9 Tertiary Butyl Alcohol (TBA)	2,000	µg/L	53 Isopropylbenzene	ND	200 µg/L
10 Dichloromethane	ND	800 µg/L	54 Bromobenzene	ND	200 µg/L
11 Freon-113	ND	200 µg/L	55 n-Propylbenzene	ND	200 µg/L
12 Carbon disulfide	ND	1,000 µg/L	56 4-Chlorotoluene	ND	200 µg/L
13 trans-1,2-Dichloroethene	ND	200 µg/L	57 2-Chlorotoluene	ND	200 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	100 µg/L	58 1,3,5-Trimethylbenzene	ND	200 µg/L
15 1,1-Dichloroethane	ND	200 µg/L	59 tert-Butylbenzene	ND	200 µg/L
16 Vinyl acetate	ND	20,000 µg/L	60 1,2,4-Trimethylbenzene	560	200 µg/L
17 2-Butanone (MEK)	ND	4,000 µg/L	61 sec-Butylbenzene	ND	200 µg/L
18 Di-isopropyl Ether (DIPE)	ND	200 µg/L	62 1,3-Dichlorobenzene	ND	200 µg/L
19 cis-1,2-Dichloroethene	ND	200 µg/L	63 1,4-Dichlorobenzene	ND	200 µg/L
20 Bromochloromethane	ND	200 µg/L	64 4-Isopropyltoluene	ND	200 µg/L
21 Chloroform	ND	200 µg/L	65 1,2-Dichlorobenzene	ND	200 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	200 µg/L	66 n-Butylbenzene	ND	200 µg/L
23 2,2-Dichloropropane	ND	200 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	1,200 µg/L
24 1,2-Dichloroethane	ND	200 µg/L	68 1,2,4-Trichlorobenzene	ND	800 µg/L
25 1,1,1-Trichloroethane	ND	200 µg/L	69 Naphthalene	ND	800 µg/L
26 1,1-Dichloropropene	ND	200 µg/L	70 1,2,3-Trichlorobenzene	ND	800 µg/L
27 Carbon tetrachloride	ND	200 µg/L	71 Surr: 1,2-Dichloroethane-d4	95	(70-130) %REC
28 Benzene	14,000	100 µg/L	72 Surr: Toluene-d8	109	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	200 µg/L	73 Surr: 4-Bromofluorobenzene	96	(70-130) %REC
30 Dibromomethane	ND	200 µg/L			
31 1,2-Dichloropropane	ND	200 µg/L			
32 Trichloroethene	ND	200 µg/L			
33 Bromodichloromethane	ND	200 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	1,000 µg/L			
35 cis-1,3-Dichloropropene	ND	200 µg/L			
36 trans-1,3-Dichloropropene	ND	200 µg/L			
37 1,1,2-Trichloroethane	ND	200 µg/L			
38 Toluene	1,900	100 µg/L			
39 1,3-Dichloropropane	ND	200 µg/L			
40 2-Hexanone	ND	2,000 µg/L			
41 Dibromochloromethane	ND	200 µg/L			
42 1,2-Dibromoethane (EDB)	ND	400 µg/L			
43 Tetrachloroethene	ND	200 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	200 µg/L			

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

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer

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11/3/09

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

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102647-04A
Client I.D. Number: MW-SF-1

Sampled: 10/23/09 08:31
Received: 10/26/09
Extracted: 10/29/09
Analyzed: 10/29/09

Volatile Organics by GC/MS EPA Method 624/SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Dichlorodifluoromethane	ND	100 µg/L	45 Chlorobenzene	ND	100 µg/L
2 Chloromethane	ND	400 µg/L	46 Ethylbenzene	350	50 µg/L
3 Vinyl chloride	ND	100 µg/L	47 m,p-Xylene	63	50 µg/L
4 Chloroethane	ND	100 µg/L	48 Bromoform	ND	100 µg/L
5 Bromomethane	ND	400 µg/L	49 Styrene	ND	100 µg/L
6 Trichlorofluoromethane	ND	100 µg/L	50 o-Xylene	ND	50 µg/L
7 Acetone	ND	2,000 µg/L	51 1,1,2,2-Tetrachloroethane	ND	100 µg/L
8 1,1-Dichloroethane	ND	100 µg/L	52 1,2,3-Trichloropropane	ND	400 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	1,000 µg/L	53 Isopropylbenzene	ND	100 µg/L
10 Dichloromethane	ND	400 µg/L	54 Bromobenzene	ND	100 µg/L
11 Freon-113	ND	100 µg/L	55 n-Propylbenzene	ND	100 µg/L
12 Carbon disulfide	ND	500 µg/L	56 4-Chlorotoluene	ND	100 µg/L
13 trans-1,2-Dichloroethane	ND	100 µg/L	57 2-Chlorotoluene	ND	100 µg/L
14 Methyl tert-butyl ether (MTBE)	620	50 µg/L	58 1,3,5-Trimethylbenzene	ND	100 µg/L
15 1,1-Dichloroethane	ND	100 µg/L	59 tert-Butylbenzene	ND	100 µg/L
16 Vinyl acetate	ND	10,000 µg/L	60 1,2,4-Trimethylbenzene	ND	100 µg/L
17 2-Butanone (MEK)	ND	2,000 µg/L	61 sec-Butylbenzene	ND	100 µg/L
18 Di-isopropyl Ether (DIPE)	ND	100 µg/L	62 1,3-Dichlorobenzene	ND	100 µg/L
19 cis-1,2-Dichloroethane	ND	100 µg/L	63 1,4-Dichlorobenzene	ND	100 µg/L
20 Bromochloromethane	ND	100 µg/L	64 4-Isopropyltoluene	ND	100 µg/L
21 Chloroform	ND	100 µg/L	65 1,2-Dichlorobenzene	ND	100 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	100 µg/L	66 n-Butylbenzene	ND	100 µg/L
23 2,2-Dichloropropane	ND	100 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	600 µg/L
24 1,2-Dichloroethane	ND	100 µg/L	68 1,2,4-Trichlorobenzene	ND	400 µg/L
25 1,1,1-Trichloroethane	ND	100 µg/L	69 Naphthalene	ND	400 µg/L
26 1,1-Dichloropropene	ND	100 µg/L	70 1,2,3-Trichlorobenzene	ND	400 µg/L
27 Carbon tetrachloride	ND	100 µg/L	71 Surr: 1,2-Dichloroethane-d4	93	(70-130) %REC
28 Benzene	11,000	50 µg/L	72 Surr: Toluene-d8	109	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	100 µg/L	73 Surr: 4-Bromofluorobenzene	94	(70-130) %REC
30 Dibromomethane	ND	100 µg/L			
31 1,2-Dichloropropane	ND	100 µg/L			
32 Trichloroethene	ND	100 µg/L			
33 Bromodichloromethane	ND	100 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	500 µg/L			
35 cis-1,3-Dichloropropene	ND	100 µg/L			
36 trans-1,3-Dichloropropene	ND	100 µg/L			
37 1,1,2-Trichloroethane	ND	100 µg/L			
38 Toluene	110	50 µg/L			
39 1,3-Dichloropropane	ND	100 µg/L			
40 2-Hexanone	ND	1,000 µg/L			
41 Dibromochloromethane	ND	100 µg/L			
42 1,2-Dibromoethane (EDB)	ND	200 µg/L			
43 Tetrachloroethene	ND	100 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	100 µg/L			

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

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer

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11/3/09

Report Date



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ANALYTICAL REPORT

AMEC Geomatrix Consultants
510 Superior Avenue, Suite 200
Newport Beach, CA 926633627
Job: KMEP Norwalk

Attn: Shioh-Whei Chou
Phone: (949) 642-0245
Fax: (949) 642-4474

Alpha Analytical Number: GMT09102647-05A
Client I.D. Number: DUP-6

Sampled: 10/23/09 00:00
Received: 10/26/09
Extracted: 10/29/09
Analyzed: 10/29/09

Volatile Organics by GC/MS EPA Method 624/SW8260B

Reporting			Reporting		
Compound	Concentration	Limit	Compound	Concentration	Limit
1 Dichlorodifluoromethane	ND	200 µg/L	45 Chlorobenzene	ND	200 µg/L
2 Chloromethane	ND	800 µg/L	46 Ethylbenzene	1,400	100 µg/L
3 Vinyl chloride	ND	200 µg/L	47 m,p-Xylene	1,900	100 µg/L
4 Chloroethane	ND	200 µg/L	48 Bromoform	ND	200 µg/L
5 Bromomethane	ND	800 µg/L	49 Styrene	ND	200 µg/L
6 Trichlorofluoromethane	ND	200 µg/L	50 o-Xylene	1,600	100 µg/L
7 Acetone	ND	4,000 µg/L	51 1,1,2,2-Tetrachloroethane	ND	200 µg/L
8 1,1-Dichloroethene	ND	200 µg/L	52 1,2,3-Trichloropropane	ND	800 µg/L
9 Tertiary Butyl Alcohol (TBA)	ND	2,000 µg/L	53 Isopropylbenzene	ND	200 µg/L
10 Dichloromethane	ND	800 µg/L	54 Bromobenzene	ND	200 µg/L
11 Freon-113	ND	200 µg/L	55 n-Propylbenzene	ND	200 µg/L
12 Carbon disulfide	ND	1,000 µg/L	56 4-Chlorotoluene	ND	200 µg/L
13 trans-1,2-Dichloroethene	ND	200 µg/L	57 2-Chlorotoluene	ND	200 µg/L
14 Methyl tert-butyl ether (MTBE)	ND	100 µg/L	58 1,3,5-Trimethylbenzene	ND	200 µg/L
15 1,1-Dichloroethane	ND	200 µg/L	59 tert-Butylbenzene	ND	200 µg/L
16 Vinyl acetate	ND	20,000 µg/L	60 1,2,4-Trimethylbenzene	560	200 µg/L
17 2-Butanone (MEK)	ND	4,000 µg/L	61 sec-Butylbenzene	ND	200 µg/L
18 Di-isopropyl Ether (DIPE)	ND	200 µg/L	62 1,3-Dichlorobenzene	ND	200 µg/L
19 cis-1,2-Dichloroethene	ND	200 µg/L	63 1,4-Dichlorobenzene	ND	200 µg/L
20 Bromochloromethane	ND	200 µg/L	64 4-Isopropyltoluene	ND	200 µg/L
21 Chloroform	ND	200 µg/L	65 1,2-Dichlorobenzene	ND	200 µg/L
22 Ethyl Tertiary Butyl Ether (ETBE)	ND	200 µg/L	66 n-Butylbenzene	ND	200 µg/L
23 2,2-Dichloropropane	ND	200 µg/L	67 1,2-Dibromo-3-chloropropane (DBCP)	ND	1,200 µg/L
24 1,2-Dichloroethane	ND	200 µg/L	68 1,2,4-Trichlorobenzene	ND	800 µg/L
25 1,1,1-Trichloroethane	ND	200 µg/L	69 Naphthalene	ND	800 µg/L
26 1,1-Dichloropropene	ND	200 µg/L	70 1,2,3-Trichlorobenzene	ND	800 µg/L
27 Carbon tetrachloride	ND	200 µg/L	71 Surr: 1,2-Dichloroethane-d4	93	(70-130) %REC
28 Benzene	14,000	100 µg/L	72 Surr: Toluene-d8	110	(70-130) %REC
29 Tertiary Amyl Methyl Ether (TAME)	ND	200 µg/L	73 Surr: 4-Bromofluorobenzene	97	(70-130) %REC
30 Dibromomethane	ND	200 µg/L			
31 1,2-Dichloropropane	ND	200 µg/L			
32 Trichloroethene	ND	200 µg/L			
33 Bromodichloromethane	ND	200 µg/L			
34 4-Methyl-2-pentanone (MIBK)	ND	1,000 µg/L			
35 cis-1,3-Dichloropropene	ND	200 µg/L			
36 trans-1,3-Dichloropropene	ND	200 µg/L			
37 1,1,2-Trichloroethane	ND	200 µg/L			
38 Toluene	1,800	100 µg/L			
39 1,3-Dichloropropane	ND	200 µg/L			
40 2-Hexanone	ND	2,000 µg/L			
41 Dibromochloromethane	ND	200 µg/L			
42 1,2-Dibromoethane (EDB)	ND	400 µg/L			
43 Tetrachloroethene	ND	200 µg/L			
44 1,1,1,2-Tetrachloroethane	ND	200 µg/L			

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

ND = Not Detected

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11/3/09

Report Date



Alpha Analytical, Inc.

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

VOC Sample Preservation Report

Work Order: GMT09102647

Job: KMEP Norwalk

Alpha's Sample ID	Client's Sample ID	Matrix	pH
09102647-01A	TB-7	Aqueous	2
09102647-02A	EB-7	Aqueous	2
09102647-03A	GMW-0-14	Aqueous	2
09102647-04A	MW-SF-1	Aqueous	2
09102647-05A	DUP-6	Aqueous	2

11/3/09
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:
02-Nov-09

QC Summary Report

Work Order:
09102647

Method Blank

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

File ID: **7A10270962.D**

Batch ID: **22927**

Analysis Date: **10/28/2009 14:46**

Sample ID: **MBLK-22927**

Units : **mg/L**

Run ID: **FID_7_091028A**

Prep Date: **10/28/2009 12:36**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (Fuel Product)	ND	0.1								
Surr: Nonane	0.147		0.15		98	57	147			

Laboratory Control Spike

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

File ID: **7A10270963.D**

Batch ID: **22927**

Analysis Date: **10/28/2009 15:13**

Sample ID: **LCS-22927**

Units : **mg/L**

Run ID: **FID_7_091028A**

Prep Date: **10/28/2009 12:36**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.47	0.05	2.5		99	67	130			
Surr: Nonane	0.151		0.15		101	57	147			

Sample Matrix Spike

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

File ID: **7A10270966.D**

Batch ID: **22927**

Analysis Date: **10/28/2009 16:32**

Sample ID: **09102749-02AMS**

Units : **mg/L**

Run ID: **FID_7_091028A**

Prep Date: **10/28/2009 12:36**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.47	0.05	2.5	0	99	49	150			
Surr: Nonane	0.101		0.15		67	57	147			

Sample Matrix Spike Duplicate

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

File ID: **7A10270967.D**

Batch ID: **22927**

Analysis Date: **10/28/2009 16:59**

Sample ID: **09102749-02AMSD**

Units : **mg/L**

Run ID: **FID_7_091028A**

Prep Date: **10/28/2009 12:36**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.47	0.05	2.5	0	99	49	150	2.471	0.2(38)	
Surr: Nonane	0.122		0.15		81	57	147			

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:
02-Nov-09

QC Summary Report

Work Order:
09102647

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015**

File ID: C:\HPCHEM\MS07\DATA\091028\09102806.D

Batch ID: **MS07W1028B**

Analysis Date: **10/28/2009 18:05**

Sample ID: **MBLK MS07W1028B**

Units : **mg/L**

Run ID: **MSD_07_091028C**

Prep Date: **10/28/2009 18:05**

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	0.00954		0.01		95	70	130			
Surr: Toluene-d8	0.0106		0.01		106	70	130			
Surr: 4-Bromofluorobenzene	0.01		0.01		100	70	130			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015**

File ID: C:\HPCHEM\MS07\DATA\091028\09102803.D

Batch ID: **MS07W1028B**

Analysis Date: **10/28/2009 16:57**

Sample ID: **GLCS MS07W1028B**

Units : **mg/L**

Run ID: **MSD_07_091028C**

Prep Date: **10/28/2009 16:57**

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	0.00975		0.01		98	70	130			
Surr: Toluene-d8	0.0102		0.01		102	70	130			
Surr: 4-Bromofluorobenzene	0.00987		0.01		99	70	130			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8015**

File ID: C:\HPCHEM\MS07\DATA\091028\09102811.D

Batch ID: **MS07W1028B**

Analysis Date: **10/28/2009 20:09**

Sample ID: **09102206-01AGS**

Units : **mg/L**

Run ID: **MSD_07_091028C**

Prep Date: **10/28/2009 20:09**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.94	0.25	2	0	97	58	135			
Surr: 1,2-Dichloroethane-d4	0.048		0.05		96	70	130			
Surr: Toluene-d8	0.0513		0.05		103	70	130			
Surr: 4-Bromofluorobenzene	0.05		0.05		99.9	70	130			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8015**

File ID: C:\HPCHEM\MS07\DATA\091028\09102812.D

Batch ID: **MS07W1028B**

Analysis Date: **10/28/2009 20:32**

Sample ID: **09102206-01AGSD**

Units : **mg/L**

Run ID: **MSD_07_091028C**

Prep Date: **10/28/2009 20:32**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.99	0.25	2	0	99.6	58	135	1.936	2.9(20)	
Surr: 1,2-Dichloroethane-d4	0.0475		0.05		95	70	130			
Surr: Toluene-d8	0.0509		0.05		102	70	130			
Surr: 4-Bromofluorobenzene	0.0501		0.05		100	70	130			

Comments:

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Date:

QC Summary Report

Work Order:

02-Nov-09

09102647

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	9.54		10		95	70				130
Surr: Toluene-d8	10.6		10		106	70				130
Surr: 4-Bromofluorobenzene	10		10		100	70				130

Laboratory Control Spike

Type LCS

Test Code: EPA Method 624/SW8260B

File ID: C:\HPCHEM\MS07\DATA\091028\09102808.D

Batch ID: MS07W1028A

Analysis Date: 10/28/2009 19:02

Sample ID: LCS MS07W1028A

Units: µg/L

Run ID: MSD_07_091028C

Prep Date: 10/28/2009 19:02

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	10.7	1	10		107	80	120			
Methyl tert-butyl ether (MTBE)	9.28	0.5	10		93	62	136			
Benzene	11.2	0.5	10		112	70	130			
Trichloroethene	10.4	1	10		104	70	130			
Toluene	10.7	0.5	10		107	80	120			
Chlorobenzene	11.2	1	10		112	70	130			
Ethylbenzene	10.2	0.5	10		102	80	120			
m,p-Xylene	11.2	0.5	10		112	70	130			
o-Xylene	11.5	0.5	10		115	70	130			
Surr: 1,2-Dichloroethane-d4	9.83		10		98	70	130			
Surr: Toluene-d8	9.87		10		99	70	130			
Surr: 4-Bromofluorobenzene	9.11		10		91	70	130			

Sample Matrix Spike

Type MS

Test Code: EPA Method 624/SW8260B

File ID: C:\HPCHEM\MS07\DATA\091028\09102809.D

Batch ID: MS07W1028A

Analysis Date: 10/28/2009 19:24

Sample ID: 09102305-01AMS

Units: µg/L

Run ID: MSD_07_091028C

Prep Date: 10/28/2009 19:24

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	48.3	2.5	50		97	60	130			
Methyl tert-butyl ether (MTBE)	45	1.3	50		90	56	141			
Benzene	50.3	1.3	50		101	67	130			
Trichloroethene	46.9	2.5	50		94	69	130			
Toluene	48.6	1.3	50		97	66	130			
Chlorobenzene	51.2	2.5	50		102	70	130			
Ethylbenzene	46	1.3	50		92	68	130			
m,p-Xylene	50.9	1.3	50		102	64	130			
o-Xylene	52.2	1.3	50		104	70	130			
Surr: 1,2-Dichloroethane-d4	49.3		50		99	70	130			
Surr: Toluene-d8	49.2		50		98	70	130			
Surr: 4-Bromofluorobenzene	45.9		50		92	70	130			

Sample Matrix Spike Duplicate

Type MSD

Test Code: EPA Method 624/SW8260B

File ID: C:\HPCHEM\MS07\DATA\091028\09102810.D

Batch ID: MS07W1028A

Analysis Date: 10/28/2009 19:47

Sample ID: 09102305-01AMSD

Units: µg/L

Run ID: MSD_07_091028C

Prep Date: 10/28/2009 19:47

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	47.7	2.5	50		95	60	130	48.26	1.1(20)	
Methyl tert-butyl ether (MTBE)	45.6	1.3	50		91	56	141	45.03	1.4(20)	
Benzene	50.6	1.3	50		101	67	130	50.26	0.8(20)	
Trichloroethene	47	2.5	50		94	69	130	46.85	0.4(20)	
Toluene	49.3	1.3	50		99	66	130	48.57	1.5(20)	
Chlorobenzene	52.2	2.5	50		104	70	130	51.16	2.0(20)	
Ethylbenzene	46.6	1.3	50		93	68	130	46	1.3(20)	
m,p-Xylene	51.8	1.3	50		104	64	130	50.91	1.7(20)	
o-Xylene	53.3	1.3	50		107	70	130	52.23	2.0(20)	
Surr: 1,2-Dichloroethane-d4	48.8		50		98	70	130			
Surr: Toluene-d8	49.6		50		99	70	130			
Surr: 4-Bromofluorobenzene	46.8		50		94	70	130			



Alpha Analytical, Inc.

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Date:
02-Nov-09

QC Summary Report

Work Order:
09102647

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

CHAIN-OF-CUSTODY RECORD

CA

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

WorkOrder : GMTC09102647
Report Due By : 5:00 PM On : 04-Nov-09

Client: AMEC Geomatrix Consultants
 510 Superior Avenue, Suite 200
 Newport Beach, CA 92663-3627

Report Attention: Phone Number Email Address
 Shiow-Whei Chou (949) 642-0245 x shiow-whei.chou@amec.com
 Thandar Phyu (949) 642-0245 x 7630 thandar.phyu@amec.com

Report J Values down to MDL : Yes
EDD Required : Yes

PO :
 Client's COC # : none
 Job : KMEP Norwalk
 QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates
 Sampled by : T. Rhymes
 Cooler Temp 4 °C Samples Received 26-Oct-09 Date Printed 26-Oct-09

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles Alpha Sub	TAT	Requested Tests			Sample Remarks
					TPHE_W +VInyl acetate	TPHP_W +VInyl acetate	VOC_W +VInyl acetate	
GMT09102647-01A	TB-7	AQ 10/23/09 07:00	2	0	7			2-RENO TRIP BLANKS 1) 8/21/09 2) 9/8/09
GMT09102647-02A	EB-7	AQ 10/23/09 12:15	6	0	7			
GMT09102647-03A	GMW-0-14	AQ 10/23/09 09:24	6	0	7			
GMT09102647-04A	MW-SF-1	AQ 10/23/09 08:31	6	0	7			
GMT09102647-05A	DUP-6	AQ 10/23/09 00:00	6	0	7			

Comments: Security seals intact. Frozen Ice. Analysts: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values.

Logged in by:  Signature  Print Name
 Alpha Analytical, Inc. 10/26/09 15:18 Company Date/Time

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.
 The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.
 Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

BLAINE

TECH SERVICES, INC.

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

CONDUCT ANALYSIS TO DETECT

LAB Alpha Analytical COC of

Billing Information:
 Kinder Morgan
 1100 Town and Country Rd.
 Orange CA 95112

Kinder Morgan Norwalk
 Report to:
 Thandat Phyu and Shlow-Whei Chou
 AMEC Geomatrix, Inc.
 510 Superior Ave. Suite 200
 Newport Beach, CA 92663

CHAIN OF CUSTODY

CLIENT Kinder Morgan

SITE Norwalk

15306 Norwalk Blvd, Norwalk

SAMPLE I.D.	DATE	TIME	MATRIX AQ= Water	#	CONTAINERS		TPHg, TPHfp (EPA 8015M)	VOC's & Oxygenates (EPA 8260B)	RESULTS NEEDED
					Preservation	Type			
TR-7	10-23-09	0700	AQ	2	HCL	VOR		X	Standard
ER-7		1215		6				X	
GMW-0-14		0924		6				X	
MW-5F-1		0831		6				X	
DVR-6				6	A	A		X	

LAB SAMPLE # GMT09102647-01A

-02A

-03A

-04A

-05A

SAMPLING DATE TIME SAMPLING PERFORMED BY T. RATHNUS

RELEASED BY [Signature] TIME 1400 RECEIVED BY [Signature] DATE 10/24/09 TIME 1610

RELEASED BY [Signature] TIME 1630 RECEIVED BY [Signature] DATE 10/22/09 TIME 1610

SHIPPED VIA [Signature] TIME SENT COOLER #