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



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

ANALYTICAL REPORT

CH2M Hill 1000 Wilshire Boulevard Los Angeles, CA 90017

Attn:

Daniel Jablonski

Phone:

(213) 228-8271

Fax:

(714) 424-2135

Date Received: 02/26/11

Job:

KMEP DFSP Norwalk

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

| | | | | | Reporting | Date | Date |
|--------------|-----------------|-----------------------------|-----------|-------|---|-----------|------------|
| | | Parameter | Concentra | ation | Limit | Extracted | Analyzed |
| Client ID: | GMW-O-19 | | | | | | 3 |
| Lab ID: | CHH11022802-02A | TPH-E (Fuel Product) | ND | | 0.10 mg/L | 03/03/11 | 03/03/11 |
| Date Sampled | 02/24/11 08:01 | Surr: Nonane | 123 | | (49-145) %REC | 03/03/11 | 03/03/11 |
| • | | TPH-P (GRO) | ND | | 0.050 mg/L | 03/02/11 | 03/02/11 |
| | | Surr: 1,2-Dichloroethane-d4 | 106 | | (70-130) %REC | 03/02/11 | 03/02/11 |
| | | Surr: Toluene-d8 | 108 | | (70-130) %REC | 03/02/11 | 03/02/11 |
| | | Surr: 4-Bromofluorobenzene | 100 | | (70-130) %REC | 03/02/11 | 03/02/11 |
| Client ID: | GMW-O-16 | | | | (************************************** | | 35, 32, 11 |
| Lab ID: | CHH11022802-03A | TPH-E (Fuel Product) | ND | | 0.10 mg/L | 03/03/11 | 03/03/11 |
| Date Sampled | 02/24/11 08:45 | Surr: Nonane | 115 | | (49-145) %REC | 03/03/11 | 03/03/11 |
| | | TPH-P (GRO) | ND | | 0.050 mg/L | 03/02/11 | 03/02/11 |
| | | Surr: 1,2-Dichloroethane-d4 | 103 | | (70-130) %REC | 03/02/11 | 03/02/11 |
| | | Surr: Toluene-d8 | 110 | | (70-130) %REC | 03/02/11 | 03/02/11 |
| | | Surr: 4-Bromofluorobenzene | 101 | | (70-130) %REC | 03/02/11 | 03/02/11 |
| Client ID: | GMW-6 | | | | , | | |
| Lab ID: | CHH11022802-04A | TPH-E (Fuel Product) | 0.12 | | 0.10 mg/L | 03/03/11 | 03/03/11 |
| Date Sampled | 02/24/11 09:37 | Surr: Nonane | 117 | | (49-145) %REC | 03/03/11 | 03/03/11 |
| - | | TPH-P (GRO) | ND | | 0.050 mg/L | 03/02/11 | 03/02/11 |
| | | Surr: 1,2-Dichloroethane-d4 | 105 | | (70-130) %REC | 03/02/11 | 03/02/11 |
| | | Surr: Toluene-d8 | 107 | | (70-130) %REC | 03/02/11 | 03/02/11 |
| | | Surr: 4-Bromofluorobenzene | 99 | | (70-130) %REC | 03/02/11 | 03/02/11 |
| Client ID: | GMW-O-18 | | | | , , | | |
| Lab ID: | CHH11022802-06A | TPH-E (Fuel Product) | 2.1 | * | 0.10 mg/L | 03/03/11 | 03/03/11 |
| Date Sampled | 02/24/11 10:21 | Surr: Nonane | 123 | | (49-145) %REC | 03/03/11 | 03/03/11 |
| | | TPH-P (GRO) | 1.4 | | 0.050 mg/L | 03/02/11 | 03/02/11 |
| | | Surr: 1,2-Dichloroethane-d4 | 105 | | (70-130) %REC | 03/02/11 | 03/02/11 |
| | | Surr: Toluene-d8 | 100 | | (70-130) %REC | 03/02/11 | 03/02/11 |
| | | Surr: 4-Bromofluorobenzene | 91 | | (70-130) %REC | 03/02/11 | 03/02/11 |
| Client ID: | DUP-1 | | | | | | |
| Lab ID: | CHH11022802-07A | TPH-E (Fuel Product) | 0.50 | ** | 0.10 mg/L | 03/03/11 | 03/03/11 |
| Date Sampled | 02/24/11 00:00 | Surr: Nonane | 114 | | (49-145) %REC | 03/03/11 | 03/03/11 |
| | | TPH-P (GRO) | 2.7 | | 0.20 mg/L | 03/03/11 | 03/03/11 |
| | | Surr: 1,2-Dichloroethane-d4 | 95 | | (70-130) %REC | 03/03/11 | 03/03/11 |
| | | Surr: Toluene-d8 | 104 | | (70-130) %REC | 03/03/11 | 03/03/11 |
| ~*· | | Surr: 4-Bromofluorobenzene | 97 | | (70-130) %REC | 03/03/11 | 03/03/11 |
| | PZ-5 | | | | | | |
| Lab ID: | CHH11022802-08A | TPH-E (Fuel Product) | 0.40 | ** | 0.10 mg/L | 03/03/11 | 03/03/11 |
| Date Sampled | 02/24/11 11:04 | Surr: Nonane | 121 | | (49-145) %REC | 03/03/11 | 03/03/11 |
| | | TPH-P (GRO) | 1.4 | | 0.40 mg/L | 03/03/11 | 03/03/11 |
| | | Surr: 1,2-Dichloroethane-d4 | 95 | | (70-130) %REC | 03/03/11 | 03/03/11 |
| | | Surr: Toluene-d8 | 107 | | (70-130) %REC | 03/03/11 | 03/03/11 |
| | | Surr: 4-Bromofluorobenzene | 102 | | (70-130) %REC | 03/03/11 | 03/03/11 |
| | | | | | | | |



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| Client ID: | GMW-0-15 | | | | | | |
|--------------|-----------------|-----------------------------|-----|----|---------------|----------|----------|
| Lab ID: | CHH11022802-09A | TPH-E (Fuel Product) | 10 | ** | 0.10 mg/L | 03/03/11 | 03/03/11 |
| Date Sampled | 02/24/11 12:08 | Surr: Nonane | 141 | | (49-145) %REC | 03/03/11 | 03/03/11 |
| | | TPH-P (GRO) | 12 | | 1.0 mg/L | 03/02/11 | 03/02/11 |
| | | Surr: 1,2-Dichloroethane-d4 | 97 | | (70-130) %REC | 03/02/11 | 03/02/11 |
| | | Surr: Toluene-d8 | 101 | | (70-130) %REC | 03/02/11 | 03/02/11 |
| | | Surr: 4-Bromofluorobenzene | 93 | | (70-130) %REC | 03/02/11 | 03/02/11 |
| Client ID: | GMW-36 | • | | | | | |
| Lab ID: | CHH11022802-10A | TPH-E (Fuel Product) | 3.9 | * | 0.10 mg/L | 03/03/11 | 03/03/11 |
| Date Sampled | 02/24/11 13:09 | Surr: Nonane | 127 | | (49-145) %REC | 03/03/11 | 03/03/11 |
| | | TPH-P (GRO) | 1.6 | | 0.10 mg/L | 03/02/11 | 03/02/11 |
| | | Surr: 1,2-Dichloroethane-d4 | 97 | | (70-130) %REC | 03/02/11 | 03/02/11 |
| | | Surr: Toluene-d8 | 104 | | (70-130) %REC | 03/02/11 | 03/02/11 |
| | | Surr: 4-Bromofluorobenzene | 95 | | (70-130) %REC | 03/02/11 | 03/02/11 |
| Client ID: | EB-1 | | | | | , | |
| Lab ID: | CHH11022802-11A | TPH-E (Fuel Product) | ND | | 0.10 mg/L | 03/03/11 | 03/03/11 |
| Date Sampled | 02/24/11 13:45 | Surr: Nonane | 128 | | (49-145) %REC | 03/03/11 | 03/03/11 |
| | | TPH-P (GRO) | ND | | 0.050 mg/L | 03/02/11 | 03/02/11 |
| | | Surr: 1,2-Dichloroethane-d4 | 102 | | (70-130) %REC | 03/02/11 | 03/02/11 |
| | | Surr: Toluene-d8 | 102 | | (70-130) %REC | 03/02/11 | 03/02/11 |
| | | Surr: 4-Bromofluorobenzene | 96 | | (70-130) %REC | 03/02/11 | 03/02/11 |

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

Gasoline Range Organics (GRO) C4-C13

ND = Not Detected

Roger Scholl Kandy Soulur

Walter Hindren

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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

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

3/8/11

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



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ANALYTICAL REPORT

Phone:

Fax:

Daniel Jablonski

(213) 228-8271

(714) 424-2135

CH2M Hill

1000 Wilshire Boulevard Los Angeles, CA 90017

Job:

KMEP DFSP Norwalk

Alpha Analytical Number: CHH11022802-01A

Client I.D. Number: TB-1

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

Volatile Organics by GC/MS EPA Method SW8260B

| | | | Repo | rting | | | | R | eporting |
|-----|--|---------------|------|--------------|----|------------------------------------|---------------|----------|--------------|
| | Compound | Concentration | Lin | nit | | 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 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 μg/L |
| 14 | Methyl tert-butyl ether (MTBE) | ND | 0.50 | μg/L | 58 | 1,3,5-Trimethylbenzene | ND | 1.0 | μg/L μg/L |
| 15 | 1,1-Dichloroethane | ND | 1.0 | µg/L | 59 | tert-Butylbenzene | ND | 1.0 | μg/L 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 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 μg/L |
| 20 | Bromochloromethane | ND | 1.0 | μg/L μg/L | 64 | 4-Isopropyltoluene | ND | 1.0 | μg/L μg/L |
| 21 | Chloroform | ND | 1.0 | μg/L | 65 | 1,2-Dichlorobenzene | ND | 1.0 | |
| 22 | Ethyl Tertiary Butyl Ether (ETBE) | ND | 1.0 | µg/L | 66 | n-Butvibenzene | ND . | 1.0 | μg/L |
| 23 | 2,2-Dichloropropane | ND | 1.0 | μg/L | 67 | 1,2-Dibromo-3-chloropropane (DBCP) | ND 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 μg/L |
| 27 | Carbon tetrachloride | ND | 1.0 | μg/L | 71 | Surr: 1.2-Dichloroethane-d4 | 101 | (70-130) | %REC |
| 28 | Benzene | ND | 0.50 | μg/L | 72 | Surr: Toluene-d8 | 101 | (70-130) | %REC |
| 29 | Tertiary Amyl Methyl Ether (TAME) | ND | 1.0 | μg/L | 73 | Surr: 4-Bromofluorobenzene | 95 | (70-130) | %REC |
| 30 | Dibromomethane | ND | 1.0 | μg/L μg/L | 13 | Odit. T Didnionadiopenzone | 33 | (10-130) | /ONEU |
| 31 | 1,2-Dichloropropane | ND | 1.0 | μg/L μg/L | | | | | |
| 32 | Trichloroethene | ND . | 1.0 | μg/L μg/L | | | | | |
| 33 | Bromodichloromethane | ND | 1.0 | μg/L μg/L | | | | | |
| ~ 4 | 4.4.4. 1.0 · · · · · · · · · · · · · · · · · · · | · · · · | 1.0 | MAN- | | | | | |

ND = Not Detected

4-Methyl-2-pentanone (MIBK)

cis-1,3-Dichloropropene

1,1,2-Trichloroethane

1,3-Dichloropropane

Tetrachloroethene

Dibromochloromethane

1,2-Dibromoethane (EDB)

1,1,1,2-Tetrachloroethane

Toluene

2-Hexanone

trans-1,3-Dichloropropene

Roger Scholl

ND

ND

ND

ND

ND

ND

ND

ND

ND

Kandy Saulner

10

0.50

0.50

1.0

0.50

μg/L

μg/L

µg/L

μg/L

Walter Hirihow

3/8/11



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ANALYTICAL REPORT

CH2M Hill

1000 Wilshire Boulevard Los Angeles, CA 90017

KMEP DFSP Norwalk

Attn:

Daniel Jablonski

Phone: (213) 228-8271

Fax:

(714) 424-2135

Sampled: 02/24/11 08:01

Received: 02/26/11

Extracted: 03/02/11 Analyzed: 03/02/11

Alpha Analytical Number: CHH11022802-02A Client I.D. Number: GMW-O-19

Volatile Organics by GC/MS EPA Method SW8260B

| | | | Repo | rting | | | | R | eporting |
|----|-----------------------------------|---------------|------|--------------|----|------------------------------------|---------------|----------|--------------|
| | Compound | Concentration | Lin | nit | | 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 μg/L |
| 13 | trans-1,2-Dichloroethene | ND | 1.0 | µg/L | 57 | 2-Chlorotoluene | ND | 1.0 | μg/L μg/L |
| 14 | Methyl tert-butyl ether (MTBE) | ND | 0.50 | μg/L | 58 | 1,3,5-Trimethylbenzene | ND | 1.0 | μg/L 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 μg/L |
| 17 | 2-Butanone (MEK) | ND | 10 | μg/L | 61 | sec-Butylbenzene | ND | 1.0 | μg/L 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 μg/L |
| 20 | Bromochloromethane | ND | 1.0 | μg/L | 64 | 4-Isopropyltoluene | ND | 1.0 | μg/L μg/L |
| 21 | Chloroform | ND | 1.0 | μg/L | 65 | 1,2-Dichlorobenzene | ND | 1.0 | μg/L 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 μg/L |
| 24 | 1,2-Dichloroethane | ND | 0.50 | μg/L μg/L | 68 | 1,2,4-Trichlorobenzene | ND | 2.0 | |
| 25 | 1,1,1-Trichloroethane | ND | 1.0 | μg/L 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 μg/L | 71 | Surr: 1.2-Dichloroethane-d4 | 106 | (70-130) | μg/L %REC |
| 28 | Benzene | ND | 0.50 | μg/L 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 | 13 | Suit. 4-biomonuorobenzene | 100 | (70-130) | 70REC |
| 31 | 1,2-Dichloropropane | ND | 1.0 | μg/L μg/L | | | | | |
| 32 | Trichloroethene | ND | 1.0 | μg/L μg/L | | | | | |
| 33 | Bromodichloromethane | ND | 1.0 | . • | | | | | |
| 34 | 4-Methyl-2-pentanone (MIBK) | ND | 1.0 | μg/L | | | | | |
| 35 | cis-1,3-Dichloropropene | ND | 0.50 | μg/L | | | | | |
| 36 | trans-1,3-Dichloropropene | ND | 0.50 | μg/L ug/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 | | | | | |
| | | 110 | 1.0 | μg/L | | | | | |

ND = Not Detected

2-Hexanone

Dibromochloromethane

Tetrachloroethene 1,1,1,2-Tetrachloroethane

1,2-Dibromoethane (EDB)

41

Roger Scholl

1.0

2.0

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

3/8/11

Report Date



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

ANALYTICAL REPORT

CH2M Hill

1000 Wilshire Boulevard Los Angeles, CA 90017

KMEP DFSP Norwalk

Daniel Jablonski (213) 228-8271 Phone:

Fax:

(714) 424-2135

Alpha Analytical Number: CHH11022802-03A

Client I.D. Number: GMW-O-16

Sampled: 02/24/11 08:45

Received: 02/26/11 Extracted: 03/02/11 Analyzed: 03/02/11

Volatile Organics by GC/MS EPA Method SW8260B

| | | | Repo | rting | | | | Re | eporting |
|----|-----------------------------------|---------------|------|-------|----|------------------------------------|------------------|----------|----------|
| | Compound | Concentration | Lim | nit | | 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) | 0.67 | 0.50 | µg/L | 58 | 1,3,5-Trimethylbenzene | ND | 1.0 | μg/L |
| 15 | 1,1-Dichloroethane | ND | 1.0 | μg/L | 59 | tert-Butylbenzene | ND | 1.0 | μg/L |
| 16 | Vinyl acetate | ND | 50 | μg/L | 60 | 1,2,4-Trimethylbenzene | ND | 1.0 | μg/L |
| 17 | 2-Butanone (MEK) | ND | 10 | μg/L | 61 | sec-Butylbenzene | ND | 1.0 | μg/L |
| 18 | Di-isopropyl Ether (DIPE) | ND | 1.0 | μg/L | 62 | 1.3-Dichlorobenzene | ND | 1.0 | μg/L |
| 19 | cis-1,2-Dichloroethene | ND | 1.0 | µg/L | 63 | 1,4-Dichlorobenzene | ND | 1.0 | μg/L |
| 20 | Bromochloromethane | ND | 1.0 | µg/L | 64 | 4-Isopropyltoluene | ND | 1.0 | μg/L |
| 21 | Chloroform | ; ND | 1.0 | μg/L | 65 | 1.2-Dichlorobenzene | ND | 1.0 | μg/L |
| 22 | Ethyl Tertiary Butyl Ether (ETBE) | ND | 1.0 | μg/L | 66 | n-Butylbenzene | ND | 1.0 | μg/L |
| 23 | 2,2-Dichloropropane | ND | 1.0 | μg/L | 67 | 1,2-Dibromo-3-chloropropane (DBCP) | ND | 5.0 | μg/L |
| 24 | 1,2-Dichloroethane | ND | 0.50 | μg/L | 68 | 1,2,4-Trichlorobenzene | ND | 2.0 | μg/L |
| 25 | 1,1,1-Trichloroethane | ND | 1.0 | μg/L | 69 | Naphthalene | ND | 10 | μg/L |
| 26 | 1,1-Dichloropropene | ND | 1.0 | μg/L | 70 | 1.2.3-Trichlorobenzene | ND | 2.0 | μg/L |
| 27 | Carbon tetrachloride | ND | 1.0 | μg/L | 71 | Surr: 1.2-Dichloroethane-d4 | 103 | (70-130) | %REC |
| 28 | Benzene | ND | 0.50 | μg/L | 72 | Surr: Toluene-d8 | 110 | (70-130) | %REC |
| 29 | Tertiary Amyl Methyl Ether (TAME) | ND | 1.0 | μg/L | 73 | Surr: 4-Bromofluorobenzene | 101 | (70-130) | %REC |
| 30 | Dibromomethane | ND | 1.0 | μg/L | | | · - · | () | |
| 31 | 1,2-Dichloropropane | ND | 1.0 | μg/L | | | | | |
| 32 | Trichloroethene | ND | 1.0 | ua/L | | | | | |

ND = Not Detected

Bromodichloromethane

cis-1,3-Dichloropropene

1,1,2-Trichloroethane

1,3-Dichloropropane

Tetrachloroethene

Dibromochloromethane

1,2-Dibromoethane (EDB)

1,1,1,2-Tetrachloroethane

Toluene

2-Hexanone

trans-1,3-Dichloropropene

4-Methyl-2-pentanone (MIBK)

33

36

40

Roger Scholl

ND

1.0 µg/L

10

0.50

0.50

1.0

1.0 μg/L

5.0

1.0 μg/L

2.0

1.0

μg/L

0.50

3/8/11



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

ANALYTICAL REPORT

CH2M Hill

1000 Wilshire Boulevard Los Angeles, CA 90017

KMEP DFSP Norwalk

Attn:

Daniel Jablonski

Phone:

(213) 228-8271

Fax:

(714) 424-2135

Alpha Analytical Number: CHH11022802-04A

Client I.D. Number: GMW-6

Sampled: 02/24/11 09:37

Received: 02/26/11 Extracted: 03/02/11 Analyzed: 03/02/11

Volatile Organics by GC/MS EPA Method SW8260B

| | | | Repo | rting | | | | Re | eporting |
|----|-----------------------------------|---------------|------|--------------|----|------------------------------------|---------------|----------|--------------|
| | Compound | Concentration | Lin | nit | | 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) | 120 | 10 | μg/L | 53 | Isopropylbenzene | ND | 1.0 | μg/L |
| 10 | Dichloromethane | ND | 5.0 | μg/L | 54 | Bromobenzene | ND | 1.0 | μg/L |
| 11 | Freon-113 | ND | 10 | μg/L | 55 | n-Propylbenzene | ND | 1.0 | μg/L |
| 12 | Carbon disulfide | ND | 2.5 | μg/L | 56 | 4-Chlorotoluene | ND | 1.0 | μg/L |
| 13 | trans-1,2-Dichloroethene | ND | 1.0 | μg/L | 57 | 2-Chlorotoluene | ND | 1.0 | μg/L μg/L |
| 14 | Methyl tert-butyl ether (MTBE) | 9.6 | 0.50 | μg/L | 58 | 1,3,5-Trimethylbenzene | ND | 1.0 | μg/L |
| 15 | 1,1-Dichloroethane | ND | 1.0 | μg/L | 59 | tert-Butylbenzene | ND | 1.0 | μg/L 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 μg/L |
| 18 | Di-isopropyl Ether (DIPE) | ND | 1.0 | μg/L | 62 | 1.3-Dichlorobenzene | ND | 1.0 | |
| 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-Isopropyitoluene | 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-Butvlbenzene | 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 μg/L | 68 | 1,2.4-Trichlorobenzene | ND ND | 2.0 | μg/L |
| 25 | 1.1.1-Trichloroethane | ND | 1.0 | μg/L μg/L | 69 | Naphthalene | ND ND | 10 | µg/L |
| 26 | 1,1-Dichloropropene | ND | 1.0 | μg/L μg/L | 70 | 1,2,3-Trichlorobenzene | ND ND | 2.0 | μg/L |
| 27 | Carbon tetrachloride | ND | 1.0 | μg/L μg/L | 70 | Surr: 1,2-Dichloroethane-d4 | 105 | (70-130) | μg/L %REC |
| 28 | Benzene | 0.53 | 0.50 | μg/L μg/L | 72 | Surr: Toluene-d8 | 105 | (70-130) | %REC %REC |
| 29 | Tertiary Amyl Methyl Ether (TAME) | ND | 1.0 | μg/L μg/L | 73 | Surr: 4-Bromofluorobenzene | 99 | , , | |
| 30 | Dibromomethane | ND | 1.0 | μg/L μg/L | 13 | Sun . 4-bromonuorobenzene | 33 | (70-130) | %REC |
| 31 | 1,2-Dichloropropane | ND | 1.0 | ug/L | | | | | |

ND = Not Detected

Trichloroethene

33

35

36

37

38

40

42

Bromodichloromethane

cis-1,3-Dichloropropene

1,1,2-Trichloroethane

1,3-Dichloropropane

Tetrachloroethene

Dibromochloromethane

1,2-Dibromoethane (EDB)

1,1,1,2-Tetrachloroethane

Toluene

2-Hexanone

trans-1,3-Dichloropropene

4-Methyl-2-pentanone (MIBK)

ND

ND

ND

ND

ND

ND

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

3/8/11 **Report Date**

Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

μg/L

μg/L

μg/L

1.0 µg/L

10

0.50

0.50

1.0

0.50

1.0

5.0

1.0

2.0 μg/L

1.0

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.

Page 1 of 1



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ANALYTICAL REPORT

Phone:

CH2M Hill

1000 Wilshire Boulevard Los Angeles, CA 90017

KMEP DFSP Norwalk

Alpha Analytical Number: CHH11022802-05A

Client I.D. Number: DUP-2

(714) 424-2135 Fax:

Daniel Jablonski

(213) 228-8271

Sampled: 02/24/11 00:00

Received: 02/26/11 Extracted: 03/02/11 Analyzed: 03/02/11

Volatile Organics by GC/MS EPA Method SW8260B

| | | | Repo | rting | | | | R | eporting |
|----|-----------------------------------|---------------|------|--------------|----|------------------------------------|---------------|----------------------|--------------|
| | Compound | Concentration | Lim | nit | | 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 μg/L |
| 8 | 1,1-Dichloroethene | ND | 1.0 | μg/L | 52 | 1,2,3-Trichloropropane | ND | 2.0 | μg/L 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 | |
| 11 | Freon-113 | ND | 10 | μg/L | 55 | n-Propylbenzene | ND | 1.0 | µg/L |
| 12 | Carbon disulfide | ND | 2.5 | μg/L | 56 | 4-Chlorotoluene | ND | 1.0 | μg/L |
| 13 | trans-1,2-Dichloroethene | ND | 1.0 | μg/L | 57 | 2-Chlorotoluene | ND | 1.0 | µg/L |
| 14 | Methyl tert-butyl ether (MTBE) | 9.9 | 0.50 | μg/L | 58 | 1,3,5-Trimethylbenzene | ND | 1.0 | μg/L |
| 15 | 1,1-Dichloroethane | ND | 1.0 | μg/L | 59 | tert-Butylbenzene | ND | 1.0 | μg/L 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 μg/L |
| 18 | Di-isopropyl Ether (DIPE) | ND | 1.0 | μg/L | 62 | 1,3-Dichlorobenzene | ND | 1.0 | μg/L μg/L |
| 19 | cis-1,2-Dichloroethene | ND | 1.0 | μg/L | 63 | 1.4-Dichlorobenzene | ND | 1.0 | μg/L μg/L |
| 20 | Bromochloromethane | ND | 1.0 | µg/L | 64 | 4-Isopropyltoluene | ND ND | 1.0 | |
| 21 | Chloroform | ND | 1.0 | µg/L | 65 | 1.2-Dichlorobenzene | ND ND | 1.0 | μg/L μg/L |
| 22 | Ethyl Tertiary Butyl Ether (ETBE) | ND | 1.0 | μg/L | 66 | n-Butylbenzene | ND | 1.0 | |
| 23 | 2,2-Dichloropropane | ND | 1.0 | µg/L | 67 | 1,2-Dibromo-3-chloropropane (DBCP) | ND | 5.0 | μg/L |
| 24 | 1,2-Dichloroethane | ND | 0.50 | μg/L | 68 | 1,2.4-Trichlorobenzene | ND | 2.0 | µg/L |
| 25 | 1,1,1-Trichloroethane | ND | 1.0 | μg/L | 69 | Naphthalene | ND | 10 | μg/L |
| 26 | 1,1-Dichloropropene | ND | 1.0 | μg/L | 70 | 1,2,3-Trichlorobenzene | ND | 2.0 | µg/L |
| 27 | Carbon tetrachloride | ND | 1.0 | μg/L | 71 | Surr: 1,2-Dichloroethane-d4 | 106 | (70-130) | μg/L %REC |
| 28 | Benzene | 0.51 | 0.50 | μg/L μg/L | 72 | Surr: Toluene-d8 | 108 | , , | |
| 29 | Tertiary Amyl Methyl Ether (TAME) | ND | 1.0 | μg/L μg/L | 73 | Surr: 4-Bromofluorobenzene | 96 | (70-130) (70-130) | %REC %REC |
| 30 | Dibromomethane | ND | 1.0 | μg/L μg/L | 13 | Sur. 4-Gromonuoropenzene | 30 | (70-130) | 76KEC |
| 31 | 1,2-Dichloropropane | ND | 1.0 | μg/L | | | | | |
| 32 | Trichloroethene | ND | 1.0 | ug/L | | | | | |

ND = Not Detected

Bromodichloromethane

cis-1,3-Dichloropropene

1,1,2-Trichloroethane

1,3-Dichloropropane

Tetrachloroethene

Dibromochloromethane

1,2-Dibromoethane (EDB)

1,1,1,2-Tetrachloroethane

Toluene

2-Hexanone

trans-1,3-Dichloropropene

35

36

37

4-Methyl-2-pentanone (MIBK)

Roger Scholl

ND

ND

ND

ND

ND

ND

ND

ND

ND

NO

1.0 µg/L

10 μg/L

0.50

0.50

1.0

0.50

1.0

5.0

1.0 μg/L

2.0 μg/L

1.0 μg/L

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

3/8/11



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ANALYTICAL REPORT

CH2M Hill

1000 Wilshire Boulevard Los Angeles, CA 90017

Job:

KMEP DFSP Norwalk

Alpha Analytical Number: CHH11022802-06A

Client I.D. Number: GMW-O-18

Attn: Daniel Jablonski Phone: (213) 228-8271

Fax: (714) 424-2135

Sampled: 02/24/11 10:21

Received: 02/26/11 Extracted: 03/02/11 Analyzed: 03/02/11

Volatile Organics by GC/MS EPA Method SW8260B

| | | | Repo | rting | | | | R | eporting |
|----|-----------------------------------|---------------|------|-------|----|------------------------------------|---------------|----------|-----------------|
| | Compound | Concentration | Lim | nit | | 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 | 19 | 0.50 | μg/L |
| 3 | Vinyl chloride | ND | 0.50 | μg/L | 47 | m,p-Xylene | 85 | 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 | 38 | 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) | 1,600 * | 20 | μg/L | 53 | Isopropylbenzene | 1.1 | 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 | 4.8 | 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) | 380 | 0.50 | μg/L | 58 | 1,3,5-Trimethylbenzene | 16 | 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 | 54 | 1.0 | μg/L |
| 17 | 2-Butanone (MEK) | ND | 10 | μg/L | 61 | sec-Butylbenzene | 1.3 | 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 | 2.2 | 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 | 44 | 10 | μg/L |
| 26 | 1,1-Dichloropropene | ND | 1.0 | μg/L | 70 | 1,2,3-Trichlorobenzene | ND | 2.0 | μg/L |
| 27 | Carbon tetrachloride | ND | 1.0 | μg/L | 71 | Surr: 1,2-Dichloroethane-d4 | 105 | (70-130) | %REC |
| 28 | Benzene | 60 | 0.50 | µg/L | 72 | Surr: Toluene-d8 | 100 | (70-130) | %REC |
| 29 | Tertiary Amyl Methyl Ether (TAME) | 3.9 | 1.0 | μg/L | 73 | Surr: 4-Bromofluorobenzene | 91 | (70-130) | %REC |
| 30 | Dibromomethane | ND | 1.0 | μg/L | | 55 1.2. Official of obolizons | J. , | (10 100) | ,31 1 LO |
| 31 | 1,2-Dichloropropane | ND | 1.0 | μg/L | | | | | |
| 32 | Trichloroethene | ND | 1.0 | μg/L | | | | | |
| 33 | Bromodichloromethane | ND | 1.0 | μg/L | | | | | |

ND = Not Detected

4-Methyl-2-pentanone (MIBK)

cis-1,3-Dichloropropene

1,1,2-Trichloroethane

1,3-Dichloropropane

Tetrachloroethene

Dibromochloromethane

1,2-Dibromoethane (EDB)

1,1,1,2-Tetrachloroethane

Toluene

2-Hexanone

trans-1,3-Dichloropropene

Roger Scholl Kandy Saulur

ND

ND

ND

ND

ND

NĐ

ND

ND

ND

31

Walter Hinkow

Roger L. Scholl. Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman. Quality Assurance Officer 3/8/

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

10

0.50

0.50

0.50

1.0

μg/L

μg/L

μg/L

μg/L

μg/L

Alpha Certines 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.

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



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ANALYTICAL REPORT

CH2M Hill

1000 Wilshire Boulevard Los Angeles, CA 90017

Job:

KMEP DFSP Norwalk

Alpha Analytical Number: CHH11022802-07A

Client I.D. Number: DUP-1

Attn: Daniel Jablonski Phone: (213) 228-8271

Fax: (714) 424-2135

Sampled: 02/24/11 00:00

Received: 02/26/11 Extracted: 03/02/11 Analyzed: 03/02/11

Volatile Organics by GC/MS EPA Method SW8260B

| | | | Repo | rting | | | | R | eporting |
|-----|-----------------------------------|---------------|-------|--------|----|------------------------------------|---------------|----------|----------|
| | Compound | Concentration | Lin | nit | | Compound | Concentration | | Limit |
| 1 | Dichlorodifluoromethane | ND | 1.0 | μg/L | 45 | Chlorobenzene | ND | 1.0 | μg/L |
| 2 | Chloromethane | ND | 4.0 | μg/L | 46 | Ethylbenzene | 56 | 0.50 | μg/L |
| 3 | Vinyl chloride | ND | 1.0 | μg/L | 47 | m,p-Xylene | 220 * | 1.0 | μg/L |
| 4 | Chloroethane | ND | 1.0 | μg/L | 48 | Bromoform | ND | 1.0 | μg/L |
| 5 | Bromomethane | ND | : 4.0 | μg/L | 49 | Styrene | ND | 1.0 | μg/L |
| 6 | Trichlorofluoromethane | ND | 10 | μg/L | 50 | o-Xvlene | 86 | 0.50 | μg/L |
| 7 | Acetone | ND | 20 | μg/L | 51 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | μg/L |
| - 8 | 1,1-Dichloroethene | ND | 1.0 | μg/L | 52 | 1,2,3-Trichloropropane | ND | 4.0 | µg/L |
| 9 | Tertiary Butyl Alcohol (TBA) | 1,800 * | 20 | μg/L | 53 | Isopropylbenzene | 4.4 | 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 | 19 | 1.0 | µg/L |
| 12 | Carbon disulfide | ND | 5.0 | μg/L | 56 | 4-Chlorotoluene | ND | 1.0 | µg/L |
| 13 | trans-1,2-Dichloroethene | ND | 1.0 | μg/L | 57 | 2-Chlorotoluene | ND | 1.0 | μg/L |
| 14 | Methyl tert-butyl ether (MTBE) | 400 | 0.50 | μg/L | 58 | 1,3,5-Trimethylbenzene | 50 | 1.0 | μg/L |
| 15 | 1,1-Dichloroethane | ND | 1.0 | μg/L | 59 | tert-Butylbenzene | ND | 1.0 | μg/L |
| 16 | Vinyl acetate | ND | 100 | μg/L | 60 | 1,2,4-Trimethylbenzene | 140 | 1.0 | μg/L |
| 17 | 2-Butanone (MEK) | ND | 20 | μg/L | 61 | sec-Butylbenzene | 5.3 | 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 | 1.8 | 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 | 7.7 | 1.0 | μg/L |
| 23 | 2,2-Dichloropropane | ND | 1.0 | μg/L | 67 | 1,2-Dibromo-3-chloropropane (DBCP) | ND | 6.0 | μg/L |
| 24 | 1,2-Dichloroethane | ND | 1.0 | μg/L | 68 | 1,2,4-Trichlorobenzene | ND | 4.0 | μg/L |
| 25 | 1,1,1-Trichloroethane | ND | 1.0 | μg/L | 69 | Naphthalene | 50 | 10 | μg/L |
| 26 | 1,1-Dichloropropene | ND | 1.0 | μg/L | 70 | 1,2,3-Trichlorobenzene | ND | 4.0 | μg/L |
| 27 | Carbon tetrachloride | ND | 1.0 | µg/L | 71 | Surr: 1,2-Dichloroethane-d4 | 101 | (70-130) | %REC |
| 28 | Benzene | 130 | 0.50 | µg/L | 72 | Surr: Toluene-d8 | 102 | (70-130) | %REC |
| 29 | Tertiary Amyl Methyl Ether (TAME) | 5.3 | 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 | 1.0 | μg/L | | | | | |
| | | 1 | | F 3' - | | | | | |

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

ND

ND

ND

ND

ND

ND

ND

ND = Not Detected

trans-1,3-Dichloropropene

1,1,2-Trichloroethane

1,3-Dichloropropane

Tetrachloroethene

Dibromochloromethane

1,2-Dibromoethane (EDB)

1,1,1,2-Tetrachloroethane

Toluene

2-Hexanone

Roger Scholl Kandy Salmer

Walter Arribur

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

3/8/11 Report Date

•

0.50

10

μg/L

µg/L

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



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ANALYTICAL REPORT

CH2M Hill

1000 Wilshire Boulevard Los Angeles, CA 90017

KMEP DFSP Norwalk

Attn:

Daniel Jablonski

Phone:

(213) 228-8271

Fax:

(714) 424-2135

Alpha Analytical Number: CHH11022802-08A Client I.D. Number: PZ-5

Sampled: 02/24/11 11:04

Received: 02/26/11 Extracted: 03/03/11

Analyzed: 03/03/11

Volatile Organics by GC/MS EPA Method SW8260B

| | | | Repo | rting | | | | R | eporting |
|----|-----------------------------------|---------------|------|-------|----|------------------------------------|---------------|----------|----------|
| | Compound | Concentration | Lin | nit | | Compound | Concentration | | Limit |
| 1 | Dichlorodifluoromethane | ND | 4.0 | µg/L | 45 | Chlorobenzene | ND | 4.0 | μg/L |
| 2 | Chloromethane | ND | 16 | μg/L | 46 | Ethylbenzene | ND | 2.0 | μg/L |
| 3 | Vinyl chloride | ND | 4.0 | μg/L | 47 | m,p-Xylene | 3.8 | 2.0 | μg/L |
| 4 | Chloroethane | ND | 4.0 | μg/L | 48 | Bromoform | ND | 4.0 | μg/L |
| 5 | Bromomethane | ND | 16 | μg/L | 49 | Styrene | ND | 4.0 | μg/L |
| 6 | Trichlorofluoromethane | ND | 10 | μg/L | 50 | o-Xylene | ND | 2.0 | μg/L |
| 7 | Acetone | ND | 80 | μg/L | 51 | 1,1,2,2-Tetrachloroethane | ND | 4.0 | μg/L |
| 8 | 1,1-Dichloroethene | ND | 4.0 | μg/L | 52 | 1,2,3-Trichloropropane | ND | 16 | μg/L |
| 9 | Tertiary Butyl Alcohol (TBA) | 27,000 * | 200 | μg/L | 53 | Isopropylbenzene | ND | 4.0 | μg/L |
| 10 | Dichloromethane | ND | 16 | μg/L | 54 | Bromobenzene | ND | 4.0 | μg/L |
| 11 | Freon-113 | ND | 10 | μg/L | 55 | n-Propylbenzene | ND | 4.0 | μg/L |
| 12 | Carbon disulfide | ND | 20 | μg/L | 56 | 4-Chlorotoluene | ND | 4.0 | μg/L |
| 13 | trans-1,2-Dichloroethene | ND | 4.0 | μg/L | 57 | 2-Chlorotoluene | ND | 4.0 | μg/L |
| 14 | Methyl tert-butyl ether (MTBE) | 84 | 2.0 | μg/L | 58 | 1,3,5-Trimethylbenzene | ND | 4.0 | μg/L |
| 15 | 1,1-Dichloroethane | ND | 4.0 | μg/L | 59 | tert-Butylbenzene | ND | 4.0 | μg/L |
| 16 | Vinyl acetate | ND | 400 | μg/L | 60 | 1,2,4-Trimethylbenzene | ND | 4.0 | μg/L |
| 17 | 2-Butanone (MEK) | ND | 80 | μg/L | 61 | sec-Butylbenzene | ND | 4.0 | μg/L |
| 18 | Di-isopropyl Ether (DIPE) | ND | 4.0 | µg/L | 62 | 1,3-Dichlorobenzene | ND | 4.0 | μg/L |
| 19 | cis-1,2-Dichloroethene | ND | 4.0 | μg/L | 63 | 1.4-Dichlorobenzene | ND | 4.0 | μg/L |
| 20 | Bromochloromethane | ND | 4.0 | μg/L | 64 | 4-Isopropyltoluene | ND | 4.0 | μg/L |
| 21 | Chloroform | ND | 4.0 | μg/L | 65 | 1,2-Dichlorobenzene | ND | 4.0 | μg/L |
| 22 | Ethyl Tertiary Butyl Ether (ETBE) | ND | 4.0 | μg/L | 66 | n-Butylbenzene | ND | 4.0 | μg/L |
| 23 | 2,2-Dichloropropane | ND | 4.0 | μg/L | 67 | 1,2-Dibromo-3-chloropropane (DBCP) | ND | 24 | µg/L |
| 24 | 1,2-Dichloroethane | ND | 4.0 | μg/L | 68 | 1,2,4-Trichlorobenzene | ND | 16 | μg/L |
| 25 | 1,1,1-Trichloroethane | ND | 4.0 | μg/L | 69 | Naphthalene | ND | 16 | μg/L |
| 26 | 1,1-Dichloropropene | ND | 4.0 | μg/L | 70 | 1.2.3-Trichlorobenzene | ND | 16 | μg/L |
| 27 | Carbon tetrachloride | ND | 4.0 | µg/L | 71 | Surr: 1,2-Dichloroethane-d4 | 95 | (70-130) | %REC |
| 28 | Benzene | 390 | 2.0 | μg/L | 72 | Surr: Toluene-d8 | 107 | (70-130) | %REC |
| 29 | Tertiary Amyl Methyl Ether (TAME) | ND ND | 4.0 | µg/L | 73 | Surr: 4-Bromofluorobenzene | 102 | (70-130) | %REC |
| 30 | Dibromomethane | ND | 4.0 | μg/L | | , | | (10 .00) | 701120 |
| 31 | 1,2-Dichloropropane | ND | 4.0 | μg/L | | | | | |
| 32 | Trichloroethene | ND | 4.0 | μg/L | | | | | |
| 33 | Bromodichloromethane | ND | 4.0 | μg/L | | | | | |
| 34 | 4-Methyl-2-pentanone (MIBK) | ND | 20 | μg/L | | | | | |
| 35 | cis-1,3-Dichloropropene | ND | 4.0 | µg/L | | | | | |
| 36 | trans-1,3-Dichloropropene | ND | 4.0 | μg/L | | | | | |
| 37 | 1,1,2-Trichloroethane | ND | 4.0 | μg/L | | | | | |
| 20 | T-1 | 1 | 1 | | | | | | |

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

ND = Not Detected

38

Toluene

2-Hexanone

1,3-Dichloropropane

Dibromochloromethane

1,2-Dibromoethane (EDB) Tetrachloroethene 1,1,1,2-Tetrachloroethane

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

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.

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2.0

4.0

40

4.0 8.0 4.0

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



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

ANALYTICAL REPORT

Phone:

Fax:

Daniel Jablonski

(213) 228-8271

(714) 424-2135

CH2M Hill

1000 Wilshire Boulevard Los Angeles, CA 90017

Job:

KMEP DFSP Norwalk

Alpha Analytical Number: CHH11022802-09A

Client I.D. Number: GMW-O-15

Received: 02/26/11 Extracted: 03/02/11 Analyzed: 03/02/11

Sampled: 02/24/11 12:08

Volatile Organics by GC/MS EPA Method SW8260B

| | | | Repo | rting | | | | Re | eporting |
|----|-----------------------------------|-----------------|-------|-------|----|------------------------------------|---------------|----------|--------------|
| | Compound | Concentration | Lin | nit | | Compound | Concentration | | Limit |
| 1 | Dichlorodifluoromethane | ND | 10 | μg/L | 45 | Chlorobenzene | ND | 10 | μg/L |
| 2 | Chloromethane | ND | 40 | μg/L | 46 | Ethylbenzene | 310 | 5.0 | μg/L |
| 3 | Vinyl chloride | ND | 10 | μg/L | 47 | m,p-Xylene | 1.300 | 5.0 | μg/L |
| 4 | Chloroethane | ND | 10 | μg/L | 48 | Bromoform | ND | 10 | μg/L |
| 5 | Bromomethane | ND | 40 | μg/L | 49 | Styrene | ND | 10 | μg/L |
| 6 | Trichlorofluoromethane | ND | 10 | μg/L | 50 | o-Xvlene | 470 | 5.0 | μg/L |
| 7 | Acetone | ND | 200 | μg/L | 51 | 1.1.2.2-Tetrachloroethane | ND | 10 | μg/L |
| 8 | 1,1-Dichloroethene | ND | 10 | μg/L | 52 | 1,2,3-Trichloropropane | ND | 40 | μg/L |
| 9 | Tertiary Butyl Alcohol (TBA) | 4,100 | 100 | μg/L | 53 | Isopropylbenzene | 17 | 10 | μg/L |
| 10 | Dichloromethane | ND | 40 | μg/L | 54 | Bromobenzene | ND | 10 | μg/L |
| 11 | Freon-113 | ND | 10 | μg/L | 55 | n-Propylbenzene | 68 | 10 | μg/L |
| 12 | Carbon disulfide | ND | 50 | μg/L | 56 | 4-Chlorotoluene | ND | 10 | μg/L |
| 13 | trans-1,2-Dichloroethene | ND | 10 | μg/L | 57 | 2-Chlorotoluene | ND | 10 | μg/L |
| 14 | Methyl tert-butyl ether (MTBE) | 970 | 5.0 | μg/L | 58 | 1,3,5-Trimethylbenzene | 190 | 10 | μg/L |
| 15 | 1,1-Dichloroethane | . ND | 10 | µg/L | 59 | tert-Butylbenzene | ND | 10 | μg/L μg/L |
| 16 | Vinyl acetate | , ND | 1,000 | μg/L | 60 | 1,2,4-Trimethylbenzene | 570 | 10 | μg/L μg/L |
| 17 | 2-Butanone (MEK) | ND | 200 | μg/L | 61 | sec-Butylbenzene | 11 | 10 | μg/L μg/L |
| 18 | Di-isopropyl Ether (DIPE) | ND | 10 | μg/L | 62 | 1.3-Dichlorobenzene | ND | 10 | μg/L 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 μg/L |
| 21 | Chloroform | ¹ ND | 10 | μg/L | 65 | 1,2-Dichlorobenzene | ND | 10 | μg/L |
| 22 | Ethyl Tertiary Butyl Ether (ETBE) | ND | 10 | μg/L | 66 | n-Butylbenzene | 14 | 10 | μg/L μg/L |
| 23 | 2,2-Dichloropropane | ND | 10 | µg/L | 67 | 1,2-Dibromo-3-chloropropane (DBCP) | ND | 60 | μg/L μg/L |
| 24 | 1,2-Dichloroethane | ND | 10 | µg/L | 68 | 1.2.4-Trichlorobenzene | ND | 40 | μg/L μg/L |
| 25 | 1,1,1-Trichloroethane | ND | 10 | µg/L | 69 | Naphthalene | 150 | 40 | μg/L |
| 26 | 1,1-Dichloropropene | ND | 10 | µg/L | 70 | 1,2,3-Trichlorobenzene | ND | 40 | μg/L μg/L |
| 27 | Carbon tetrachloride | . ND | 10 | μg/L | 71 | Surr: 1,2-Dichloroethane-d4 | 97 | (70-130) | %REC |
| 28 | Benzene | 700 | 5.0 | μg/L | 72 | Surr: Toluene-d8 | 101 | (70-130) | %REC |
| 29 | Tertiary Amyl Methyl Ether (TAME) | 20 | 10 | μg/L | 73 | Surr: 4-Bromofluorobenzene | 93 | (70-130) | %REC |
| 30 | Dibromomethane | ND | 10 | μg/L | ,, | CONT. ST DIGHTON CONTROL OF THE | • | (10-150) | /01 NEC |
| 31 | 1,2-Dichloropropane | ND | 10 | µg/L | | | | | |
| 32 | Trichloroethene | ND | 10 | μg/L | | | | | |
| 33 | Bromodichloromethane | ND | 10 | pg/L | | | | | |

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

ND

ND

ND

ND

ND

ND

ND

450

ND = Not Detected

4-Methyl-2-pentanone (MIBK)

cis-1,3-Dichloropropene

1,1,2-Trichloroethane

1,3-Dichloropropane

Tetrachloroethene

Dibromochloromethane

1,2-Dibromoethane (EDB)

1,1,1,2-Tetrachloroethane

Toluene

2-Hexanone

trans-1,3-Dichloropropene

35

36

38

Roger Scholl Kandy Saulur

Dalter Hirihun

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

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

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

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

50

10 µg/L

10

10

5.0

10

100

10 μg/L

20

10



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ANALYTICAL REPORT

CH2M Hill

1000 Wilshire Boulevard Los Angeles, CA 90017

KMEP DFSP Norwalk

Phone:

Reporting

Daniel Jablonski

Attn:

(213) 228-8271

Fax:

(714) 424-2135

Alpha Analytical Number: CHH11022802-10A

Client I.D. Number: GMW-36

Sampled: 02/24/11 13:09

Received: 02/26/11 Extracted: 03/02/11 Analyzed: 03/02/11

Volatile Organics by GC/MS EPA Method SW8260B

| | | Repo | rung | | | Reporting | | | |
|----|-----------------------------------|---------------|------|------|----|------------------------------------|---------------|------------|-------|
| | Compound | Concentration | Lin | nit | | Compound | Concentration | | Limit |
| 1 | Dichlorodifluoromethane | ND | 1.0 | μg/L | 45 | Chlorobenzene | ND | 1.0 | μg/L |
| 2 | Chloromethane | ND | 4.0 | μg/L | 46 | Ethylbenzene | 19 | 0.50 | μg/L |
| 3 | Vinyl chloride | ND | 1.0 | μg/L | 47 | m,p-Xylene | 130 | 0.50 | μg/L |
| 4 | Chloroethane | ND | 1.0 | μg/L | 48 | Bromoform | ND | 1.0 | μg/L |
| 5 | Bromomethane | · ND | 4.0 | µg/L | 49 | Styrene | ND | 1.0 | μg/L |
| 6 | Trichlorofluoromethane | ND | 10 | μg/L | 50 | o-Xylene | 58 | 0.50 | μg/L |
| 7 | Acetone | ND | 20 | µg/L | 51 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | μg/L |
| 8 | 1,1-Dichloroethene | ND | 1.0 | μg/L | 52 | 1,2,3-Trichloropropane | ND | 4.0 | μg/L |
| 9 | Tertiary Butyl Alcohol (TBA) | 2,200 * | 20 | μg/L | 53 | Isopropylbenzene | 1.2 | 1.0 | μg/L |
| 10 | Dichloromethane | ND | 5.0 | μg/L | 54 | Bromobenzene | ND | 1.0 | μg/L |
| 11 | Freon-113 | ND | 10 | μg/L | 55 | n-Propylbenzene | 3.5 | 1.0 | μg/L |
| 12 | Carbon disulfide | ND | 5.0 | μg/L | 56 | 4-Chlorotoluene | ND | 1.0 | μg/L |
| 13 | trans-1,2-Dichloroethene | ND | 1.0 | µg/L | 57 | 2-Chlorotoluene | ND | 1.0 | µg/L |
| 14 | Methyl tert-butyl ether (MTBE) | 2.5 | 0.50 | μg/L | 58 | 1,3,5-Trimethylbenzene | 32 | 1.0 | μg/L |
| 15 | 1,1-Dichloroethane | ND | 1.0 | μg/L | 59 | tert-Butylbenzene | ND | 1.0 | μg/L |
| 16 | Vinyl acetate | ND | 100 | μg/L | 60 | 1,2,4-Trimethylbenzene | 58 | 1.0 | μg/L |
| 17 | 2-Butanone (MEK) | ND | 20 | μg/L | 61 | sec-Butylbenzene | ND | 1.0 | μg/L |
| 18 | Di-isopropyl Ether (DIPE) | ND | 1.0 | μg/L | 62 | 1.3-Dichlorobenzene | ND | 1.0 | μg/L |
| 19 | cis-1,2-Dichloroethene | ND | 1.0 | µg/L | 63 | 1.4-Dichlorobenzene | ND | 1.0 | μg/L |
| 20 | Bromochloromethane | ND | 1.0 | μg/L | 64 | 4-Isopropyltoluene | ND | 1.0 | μg/L |
| 21 | Chloroform | ND | 1.0 | μg/L | 65 | 1,2-Dichlorobenzene | ND | 1.0 | μg/L |
| 22 | Ethyl Tertiary Butyl Ether (ETBE) | ND | 1.0 | μg/L | 66 | n-Butylbenzene | ND | 1.0 | μg/L |
| 23 | 2,2-Dichloropropane | ND | 1.0 | μg/L | 67 | 1,2-Dibromo-3-chloropropane (DBCP) | ND | 6.0 | μg/L |
| 24 | 1,2-Dichloroethane | ND | 1.0 | μg/L | 68 | 1,2,4-Trichlorobenzene | ND | 4.0 | µg/L |
| 25 | 1,1,1-Trichloroethane | ND | 1.0 | μg/L | 69 | Naphthalene | 26 | 10 | μg/L |
| 26 | 1,1-Dichloropropene | ND | 1.0 | µg/L | 70 | 1,2,3-Trichlorobenzene | ND | 4.0 | μg/L |
| 27 | Carbon tetrachloride | ND | 1.0 | μg/L | 71 | Surr: 1.2-Dichloroethane-d4 | 97 | (70-130) | %REC |
| 28 | Benzene | 110 | 0.50 | µg/L | 72 | Surr: Toluene-d8 | 104 | (70-130) | %REC |
| 29 | Tertiary Amyl Methyl Ether (TAME) | ! ND | 1.0 | μg/L | 73 | Surr: 4-Bromofluorobenzene | 95 | (70-130) | %REC |
| 30 | Dibromomethane | ND | 1.0 | μg/L | | | | 1 (14 144) | |
| 31 | 1,2-Dichloropropane | ND | 1.0 | μg/L | | | | | |
| 32 | Trichloroethene | ND | 1.0 | μg/L | | | | | |
| 33 | Bromodichloromethane | ND | 1.0 | µg/L | | | | | |
| 34 | 4-Methyl-2-pentanone (MIBK) | ND | 10 | μg/L | | | | | |
| 35 | cis-1,3-Dichloropropene | ND | 1.0 | µg/L | | | | | |
| 36 | trans-1,3-Dichloropropene | . ND | 1.0 | μg/L | | | | | |
| 37 | 1,1,2-Trichloroethane | ND | 1.0 | μg/L | | | | | |
| 38 | Toluene | 77 | 0.50 | μg/L | | | | | |
| | 4.0.001.11 | I | 1 | | | | | | |

ND = Not Detected

1,3-Dichloropropane

Dibromochloromethane

1,2-Dibromoethane (EDB) Tetrachloroethene 1,1,1,2-Tetrachloroethane

2-Hexanone

Roger Scholl

ND

ND

ND

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

Reporting

Report Date

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

^{*}This analyte was analyzed separately on 3/3/11 in order to achieve lower reporting limits for the other analytes. Some Reporting Limits were increased due to high concentrations of target analytes.



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ANALYTICAL REPORT

EPA Method SW8260B

CH2M Hill

1000 Wilshire Boulevard Los Angeles, CA 90017

KMEP DFSP Norwalk

Daniel Jablonski (213) 228-8271

Phone:

Fax:

(714) 424-2135

Alpha Analytical Number: CHH11022802-11A

Client I.D. Number: EB-1

Sampled: 02/24/11 13:45

Received: 02/26/11 Extracted: 03/02/11 Analyzed: 03/02/11

Volatile Organics by GC/MS

| | | | Repo | rting | | | | Re | eporting |
|----|-----------------------------------|---------------|------|-------|-----|------------------------------------|---------------|----------|----------|
| | Compound | Concentration | Lim | nit | | 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 | 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 | . 0 | | · - | . () | |
| 31 | 1,2-Dichloropropane | ND | 1.0 | µg/L | | | | | |
| | T 1 1 1 4 | 1 | , | | | | | | |

µg/L

μg/L

μg/L

μg/L

1.0 μg/L

10 µg/L

0.50

0.50

1.0 μg/L

5.0 μg/L

1.0 µg/L

2.0 μg/L

1.0

0.50

ND = Not Detected

Trichloroethene

Bromodichloromethane

cis-1,3-Dichloropropene

1,1,2-Trichloroethane

1,3-Dichloropropane

Tetrachloroethene

Dibromochloromethane

1,2-Dibromoethane (EDB)

1,1,1,2-Tetrachloroethane

Toluene

2-Hexanone

trans-1,3-Dichloropropene

4-Methyl-2-pentanone (MIBK)

32

35

36

37

Roger Scholl

ND

ND

ND

ND

ND

ND

ND

ND

ND

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

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

3/8/11



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

VOC Sample Preservation Report

Work Order: CHH11022802

Job:

KMEP DFSP Norwalk

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



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| Date: 08-Mar-11 | QC Summary Report | Work Order: 11022802 |
|--|---|---|
| Method Blank File ID: 1A02221155.D Sample ID: MBLK-26094 Analyte | Type MBLK Test Code: EPA Method SW8015B/C Ext Batch ID: 26094 Analysis Date: 0 Units: mg/L Run ID: FID_1_110303A Prep Date: 0 Result PQL SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal | 03/03/2011 08:51 |
| TPH-E (Fuel Product) Surr: Nonane | ND 0.1 0.176 0.15 117 49 145 | |
| Laboratory Control Spike File ID: 1A02221156.D Sample ID: LCS-26094 | • | 03/03/2011 11:52 03/03/2011 08:51 |
| Analyte TPH-E (DRO) Surr: Nonane | Result PQL SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal 2.51 0.05 2.5 100 70 130 0.173 0.15 115 49 145 | al %RPD(Limit) Qual |
| Sample Matrix Spike File ID: 1A02221158.D Sample ID: 11030249-01AMS Analyte | Type MS Test Code: EPA Method SW8015B/C Ext | 03/03/2011 08:51 |
| TPH-E (DRO) Surr: Nonane | 2.64 0.05 2.5 0 106 53 150 0.17 0.15 113 49 145 | , |
| Sample Matrix Spike Duplicate File ID: 1A02221159.D Sample ID: 11030249-01AMSD Analyte | Type MSD Test Code: EPA Method SW8015B/C Ext Batch ID: 26094 Analysis Date: 0 Units: mg/L Run ID: FID_1_110303A Prep Date: 0 Result PQL SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal | 3/03/2011 08:51 |
| TPH-E (DRO) Surr: Nonane | 2.44 0.05 2.5 0 98 53 150 2.642 0.182 0.15 121 49 145 | 8.0(47) |

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: 08-Mar-11 | (| QC S | ummar | y Repor | t | | | Work Orde 11022802 | |
|---|--------------------------------------|--------|-----------------------------|--|------------------------|----------------------|-------------------------------|--------------------------------------|-------------|
| Method Blank File ID: 11030207.D Sample ID: MBLK MS15W0302B | Units : mg/L | Type N | В | est Code: EF atch ID: MS1 SD_15_1103 | 5W030 | | | 03/02/2011 09:50 03/02/2011 09:50 | |
| Analyte | Result | PQL | | | | LCL(ME) | UCL(ME) RPDRef | | Qual |
| TPH-P (GRO) Surr: 1,2-Dichloroethane-d4 Surr: Toluene-d8 Surr: 4-Bromofluorobenzene | ND 0.0104 0.0102 0.00947 | 0.05 | | | 104 102 95 | 70 70 70 | 130 130 130 | 70 <u>- (</u> | |
| Laboratory Control Spike | | *** | | | | | | | |
| File ID: 11030204.D | | | Ва | atch ID: MS1 | 5W030 | 2B | Analysis Date: | 03/02/2011 08:35 | |
| Sample ID: GLCS MS15W0302B | Units : mg/L | | | SD_15_1103 | | | Prep Date: | 03/02/2011 08:35 | |
| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) RPDRef | Val %RPD(Limit) | Qual |
| TPH-P (GRO) Surr: 1,2-Dichloroethane-d4 Surr: Toluene-d8 Surr: 4-Bromofluorobenzene | 0.431 0.011 0.00983 0.00939 | 0.05 | 0.4 0.01 0.01 0.01 | | 108 110 98 94 | 70 70 70 70 | 130 130 130 130 | | |
| Sample Matrix Spike | | Type N | IS Te | est Code: EF | A Meti | nod SW80 | 15B/C | | |
| File ID: 11030210.D | | | Ва | atch ID: MS1 | 5 W 030 | 2B | Analysis Date: | 03/02/2011 10:55 | |
| Sample ID: 11022802-02AGS | Units : mg/L | | Run ID: M | SD_15_1103 | 02A | | Prep Date: | 03/02/2011 10:55 | |
| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) RPDRef | Val %RPD(Limit) | Qual |
| TPH-P (GRO) Surr: 1,2-Dichloroethane-d4 Surr: Toluene-d8 Surr: 4-Bromofluorobenzene | 1.73 0.0512 0.053 0.0485 | 0.25 | 2 0.05 0.05 0.05 | 0 | 87 102 106 97 | 51 70 70 70 | 144 130 130 130 | | _ |
| Sample Matrix Spike Duplicate | | Type N | ISD Te | est Code: EP | A Meth | nod SW80 | 15B/C | | |
| File ID: 11030211.D | | | Ва | atch ID: MS1 | 5W030 | 2B | Analysis Date: | 03/02/2011 11:17 | |
| Sample ID: 11022802-02AGSD | Units : mg/L | | Run ID: MS | SD_15_1103 | 02A | | Prep Date: | 03/02/2011 11:17 | |
| Analyte | Result | PQL | SpkVal | SpkRefVal ⁴ | %REC | LCL(ME) | UCL(ME) RPDRef | Val %RPD(Limit) | Qual |
| TPH-P (GRO) Surr: 1,2-Dichloroethane-d4 Surr: Toluene-d8 Surr: 4-Bromofluorobenzene | 1.9 0.052 0.0526 0.0473 | 0.25 | 2 0.05 0.05 0.05 | 0 | 95 104 105 95 | 51 70 70 70 | 144 1.73 130 130 130 | 3 9.1(29) | ı |

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.



Date:

Alpha Analytical, Inc.

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

Work Order: **QC Summary Report** 08-Mar-11 11022802 Type MBLK Method Blank Test Code: EPA Method SW8260B File ID: 11030207.D Batch ID: MS15W0302A Analysis Date: 03/02/2011 09:50 Sample ID: **MBLK MS15W0302A** Units: µg/L Run ID: MSD_15_110302A Prep Date: 03/02/2011 09:50 Analyte PQL Result SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit) Qual Dichlorodifluoromethane ND Chloromethane ND 2 Vinyl chloride ND 0.5 Chloroethane ND 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 Methyl tert-butyl ether (MTBE) ND 0.5 1.1-Dichloroethane ND Vinyl acetate ND 50 2-Butanone (MEK) ND 10 Di-isopropyl Ether (DIPE) ND cis-1,2-Dichloroethene ND Bromochloromethane ND Chloroform ND Ethyl Tertiary Butyl Ether (ETBE) ND 2.2-Dichloropropane ND 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 Dibromomethane ND 1,2-Dichloropropane ND Trichloroethene ND Bromodichloromethane ND 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 Toluene ND 0.5 1,3-Dichloropropane ND 2-Hexanone ND 5 Dibromochloromethane ND 1 1,2-Dibromoethane (EDB) ND 2 Tetrachloroethene ND 1 1,1,1,2-Tetrachloroethane ND Chlorobenzene ND 1 Ethylbenzene ND 0.5 m,p-Xylene ND 0.5 **Bromoform** ND 1 Styrene ND o-Xylene ND 0.5 1,1,2,2-Tetrachloroethane ND 1 1,2,3-Trichloropropane ND Isopropylbenzene ND 1 Bromobenzene ND n-Propylbenzene ND 4-Chlorotoluene ND 2-Chlorotoluene ND 1,3,5-Trimethylbenzene ND tert-Butylbenzene ND 1,2,4-Trimethylbenzene ND sec-Butylbenzene ND 1.3-Dichlorobenzene ND 1,4-Dichlorobenzene ND 4-Isopropyltoluene ND 1.2-Dichlorobenzene

ND



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| Date: 08-Mar-11 | | QC Su | mmar | y Repoi | rt | | | | Work Ord 1102280 | |
|--|---------------------------------------|---|----------|--------------|----------------|----------|------------|----------------|--|------|
| n-Butylbenzene 1,2-Dibromo-3-chloropropane (DBCP) | ND ND | 1 5 | | | | | | | | |
| 1,2,4-Trichlorobenzene Naphthalene | ND ND | 2 10 | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 2 | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 10.4 | | 10 | | 104 | 70 | 130 | | | |
| Surr: Toluene-d8 Surr: 4-Bromofluorobenzene | 10.2 9.47 | | 10 10 | | 102 95 | 70 70 | 130 130 | | | |
| Laboratory Control Spike | | Type LC: | | est Code: E | | | | | | |
| File ID: 11030203.D | | | В | atch ID: MS | 1 5W 03 | 02A | Analy | /sis Date: | 03/02/2011 08:13 | |
| Sample ID: LCS MS15W0302A | Units : µg/L | R | un ID: M | SD_15_110 | 302A | | Prep | Date: | 03/02/2011 08:13 | |
| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRef | Val %RPD(Limit) | Qual |
| 1,1-Dichloroethene | 10.5 | 1 | 10 | | 105 | 80 | 120 | | · · · · · · · · · · · · · · · · · · · | |
| Methyl tert-butyl ether (MTBE) | 8.94 | 0.5 | 10 | | 89 | 65 | 140 | | | |
| Benzene Trichloroethene | 9.41 10.3 | 0.5 | 10 | | 94 | 70 | 130 | | | |
| Toluene | 9.78 | 1 0.5 | 10 10 | | 103 98 | 65 80 | 144 120 | | | |
| Chlorobenzene | 9.82 | 0.3 | 10 | | 98 | 70 | 130 | | | |
| Ethylbenzene | 10.1 | 0.5 | 10 | | 101 | 80 | 120 | | | |
| m,p-Xylene | 10.2 | 0.5 | 10 | | 102 | 70 | 130 | | | |
| o-Xylene Surr: 1,2-Dichloroethane-d4 | 10.3 | 0.5 | 10 | | 103 | 70 | 130 | | | |
| Surr: Toluene-d8 | 10.5 | | 10 | | 105 | 70 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 9.8 9.64 | | 10 10 | | 98 96 | 70 70 | 130 130 | | | |
| Sample Matrix Spike | · · · · · · · · · · · · · · · · · · · | Type MS | T | est Code: E | PA Mat | hod SW82 | | | ************************************** | _ |
| File ID: 11030208.D | | . , , , , , , , , , , , , , , , , , , , | | atch ID: MS | | | | reie Data: | 03/02/2011 10:12 | |
| Sample ID: 11022802-02AMS | Units : µg/L | Ri | | SD_15_110 | | 220 | | Date: | 03/02/2011 10:12 | |
| Analyte | Result | PQL | | | | LCL(ME) | • | | Val %RPD(Limit) | Qual |
| 1,1-Dichloroethene | 47.6 | 2.5 | 50 | 0 | 95 | 64 | 130 | 111 51101 | vai 7014 D(Ellint) | |
| Methyl tert-butyl ether (MTBE) | 48.5 | 1.3 | 50 | 0 | 97 | 47 | 150 | | | |
| Benzene | 44.3 | 1.3 | 50 | Ö | 89 | 59 | 138 | | | |
| Trichloroethene | 47.6 | 2.5 | 50 | 0 | 95 | 65 | 144 | | | |
| Toluene Chlorobenzene | 48.3 | 1.3 | 50 | 0 | 97 | 68 | 130 | | | |
| Ethylbenzene | 46.7 46.7 | 2.5 1.3 | 50 50 | 0 | 93 93 | 70 | 130 | | | |
| m,p-Xylene | 47.3 | 1.3 | 50 | 0 | 93 95 | 68 68 | 130 131 | | | |
| o-Xylene | 47.6 | 1.3 | 50 | 0 | 95 | 70 | 130 | | | |
| Surr: 1,2-Dichloroethane-d4 | 53.2 | | 50 | | 106 | 70 | 130 | | | |
| Surr: Toluene-d8 | 50.9 | | 50 | | 102 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 45.8 | | 50 | | 92 | 70 | 130 | | | |
| Sample Matrix Spike Duplicate | | Type MSI | | est Code: El | | | 60B | | | |
| File ID: 11030209.D | | | | atch ID: MS1 | |)2A | Analy | sis Date: | 03/02/2011 10:34 | |
| Sample ID: 11022802-02AMSD | Units : µg/L | | | SD_15_110 | | | Prep | | 03/02/2011 10:34 | |
| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRef\ | /al %RPD(Limit) | Qual |
| 1,1-Dichloroethene | 49.1 | 2.5 | 50 | 0 | 98 | 64 | 130 | 47.6 | | |
| Methyl tert-butyl ether (MTBE) Benzene | 51.1 | 1.3 | 50 | 0 | 102 | 47 | 150 | 48.52 | ` ' | |
| Trichloroethene | 45.8 49 | 1.3 2.5 | 50 50 | 0 | 92 98 | 59 65 | 138 144 | 44.33 47.61 | \ <i>'</i> | |
| Toluene | 47.5 | 1.3 | 50 50 | 0 | 95 | 68 | 130 | 48.34 | ` , | |
| Chlorobenzene | 48.1 | 2.5 | 50 | Ö | 96 | 70 | 130 | 46.7 | | |
| Ethylbenzene | 48.6 | 1.3 | 50 | 0 | 97 | 68 | 130 | 46.7 | 3.9(20) | |
| m,p-Xylene o-Xylene | 49.8 | 1.3 | 50 | 0 | 100 | 68 | 131 | 47.29 | 5.1(20) | |
| Surr: 1,2-Dichloroethane-d4 | 51.1 | 1.3 | 50 50 | 0 | 102 | 70 70 | 130 | 47.64 | 7.1(20) | |
| Surr: Toluene-d8 | 52.2 48.9 | | 50 50 | | 104 98 | 70 70 | 130 130 | | | |
| Surr: 4-Bromofluorobenzene | 47.1 | | 50 50 | | 96 94 | 70 70 | 130 | | | |
| | | | | | | - | - | | | |



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Date: 08-Mar-11

QC Summary Report

Work Order: 11022802

Comments:

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

Billing Information:

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778

TEL: (775) 355-1044 FAX: (775) 355-0406

Page: 1 of 2

WorkOrder: CHHL11022802

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

Client:

CH2M Hill 1000 Wilshire Boulevard 21st Floor

Los Angeles, CA 90017

Report Attention **EMail Address Phone Number** daniel.jablonski@ch2m.com Daniel Jablonski (213) 228-8271 x vladimir.carino@ch2m.com Vladimir Carino (213) 228-8271 x

EDD Required: Yes

0 °C

Sampled by: T. Rhymes

PO:

Client's COC #: none

Job: KMEP DFSP Norwalk

Cooler Temp

Samples Received 26-Feb-2011

Date Printed 28-Feb-2011

OC Level . S3 = Final Rnt MRIK LCS MS/MSD With Surrogates

| | | | | | | | | | Reques | sted Tests | |
|-----------------|-----------|-------|-------------------|--------|---------|-----|---------------------------------|---------------------------------|---------------------------------|------------|--|
| Alpha | Client | | Collection | No. of | Bottles | | TPH/E_W | TPH/P_W | VOC_W | | |
| Sample ID | Sample ID | Matri | x Date | Alpha | Sub | TAT | | | | | Sample Remarks |
| CHH11022802-01A | TB-1 | AQ | 02/24/11 07:00 | 2 | 0 | 6 | | | TPHE(0.10) +Vinyl acetate | | 2 Reno Trip Blanks: (1, 11/2/10 (1) 10/26/10 |
| CHH11022802-02A | GMW-O-19 | AQ | 02/24/11 08:01 | 6 | 0 | 6 | TPHE(0.10) +Vinyl acetate | TPHE(0.10) +Vinyl acetate | TPHE(0.10) +Vinyl acetate | | |
| CHH11022802-03A | GMW-O-16 | AQ | 02/24/11 08:45 | 6 | 0 | 6 | TPHE(0.10) +Vinyl acetate | TPHE(0.10) +Vinyl acetate | TPHE(0.10) +Vinyl acetate | | |
| CHH11022802-04A | GMW-6 | AQ | 02/24/11 09:37 | 6 | 0 | 6 | TPHE(0.10) +Vinyl acetate | TPHE(0.10) +Vinyl acetate | TPHE(0.10) +Vinyl acetate | | |
| CHH11022802-05A | DUP-2 | AQ | 02/24/11 00:00 | 3 | 0 | 6 | | | TPHE(0.10) +Vinyl acetate | | |
| CHH11022802-06A | GMW-O-18 | AQ | 02/24/11 10:21 | 6 | 0 | 6 | TPHE(0.10) +Vinyl acetate | TPHE(0.10) +Vinyl acetate | TPHE(0.10) +Vinyl acetate | | |
| CHH11022802-07A | DUP-1 | AQ | 02/24/11 00:00 | 6 | 0 | 6 | TPHE(0.10) +Vinyl acetate | TPHE(0.10) +Vinyl acetate | TPHE(0.10) +Vinyl acetate | | |
| CHH11022802-08A | PZ-5 | AQ | 02/24/11 11:04 | 6 | 0 | 6 | TPHE(0.10) +Vinyl acetate | TPHE(0.10) +Vinyl acetate | TPHE(0.10) +Vinyl acetate | | |

Comments:

Security seals intact. Frozen ice. Saturday delivery. Samples received 2/26/11 kept cold and secure until login on 2/28/11. Analysts: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values. :

| _ | Signature | Print Name | Company | Date/Time |
|-----------------------|-----------|------------------|------------------------|---------------|
| Logged in by: Clarabe | th adax | Elizabeth Fldcox | Alpha Analytical, Inc. | 2:28:11 10:02 |

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

Billing Information:

CH2M Hill

21st Floor

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778

TEL: (775) 355-1044 FAX: (775) 355-0406

| Phone Number | EMail Address | |
|------------------|---------------------------|--|
| (213) 228-8271 x | daniel.jablonski@ch2m.com | |
| (213) 228-8271 x | vladimir.carino@ch2m.com | _ |
| | (213) 228-8271 x | (213) 228-8271 x daniel.jablonski@ch2m.com |

2 of 2

WorkOrder: CHHL11022802

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

EDD Required: Yes

Sampled by : T. Rhymes

Cooler Temp 0 °C

Samples Received 26-Feb-2011

Date Printed 28-Feb-2011

PO:

Client:

Client's COC #: none

1000 Wilshire Boulevard

Los Angeles, CA 90017

KMEP DFSP Norwalk Job:

| QC Level: S3 | = Final Rpt, MBLK, LCS, MS/MSD With Surrogates | | | | | | | | | | | | | |
|-----------------|--|-------|-------------------|--------|----------------|-----|---------------------------------|---------------------------------|---------------------------------|------------|-----------------|----------------|--|--|
| | | | | | | | | | Reque | sted Tests | | | | |
| Alpha | Client | | Collection | No. of | Bottles | | TPH/E_W | TPH/P_W | VOC_W | | | | | |
| Sample ID | Sample ID | Matri | x Date | Alpha | Sub | TAT | | | | | | Sample Remarks | | |
| CHH11022802-09A | GMW-O-15 | AQ | 02/24/11 12:08 | 6 | 0 | 6 | TPHE(0.10) +Vinyl acetate | TPHE(0.10) +Vinyl acetate | TPHE(0.10) +Vinyl acetate | | | | | |
| CHH11022802-10A | GMW-36 | AQ | 02/24/11 13:09 | 6 | 0 | 6 | TPHE(0.10) +Vinyl acetate | TPHE(0.10) +Vinyl acetate | TPHE(0.10) +Vinyl acetate | | | | | |
| CHH11022802-11A | EB-1 | AQ | 02/24/11 13:45 | 6 | 0 | 6 | TPHE(0.10) +Vinyl | TPHE(0.10) +Vinyl | TPHE(0.10) +Vinyl | | 1 M A M A A A A | | | |

Comments:

Security seals intact. Frozen ice. Saturday delivery. Samples received 2/26/11 kept cold and secure until login on 2/28/11. Analysts: Run two analyses in order to achieve lower reporting limits for all other analytes due to high TBA values. :

Logged in by:

Signature

Print Name

Company

Date/Time

Alpha Analytical, Inc.

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

| | 1680 ROGERS AVENUE | | | | | | | CON | DUCT | ANALY | SIS T | O DETE | СТ | TLAB | Alpha Analyt | ical COC | 1 of 2 |
|-------------------|--------------------|----------|----------------|---|--------------------------------------|--------------|----------|-------------|------|-------------|-------|--------|-------|--|--------------|------------|-----------------|
| BLAI TECH SERV | | | SAN | I JOSE, | CALIFORNIA FAX (40) PHONE (40) | 8) 573-7771 | | 8260B) | | | | | | Billing Information: Kinder Morgan 1100 Town and Count Orange CA 95112 | | | |
| CHAIN OF CUS | FODY | | | | | | Ξ | PA | | | | | | | _ | | |
| CLIENT | Kind | er Morga | an | | | | 8015M) | U | | | | i L | | Kinder Morgan Norwa Report to: Dan Jablonski | lk | | |
| SITE | DFS | P Norwa | alk | | | | (EPA | Oxygenates | | | | | | CH2MHILL 1000 Wilshire Blvd 2 | 1st floor | | |
| | 1530 |)6 Norwa | alk Blv | d, No | rwalk | | <u> </u> | /gel | | | | | | Los Angeles, CA 900 | 17 | | |
| | | | 1 | .1 | CONTA | INIEDS | TPHfp | 1 | | | | | | | | | |
| | | | MATRIX | | CONTA | INERS | TPHg, T | VOC's & | | | 3 | | | | | | |
| SAMPLE I.D. | DATE | TIME | AQ= Water | # | Preservation | | 片 | > | | | | | | ADD'L INFORMATION | STATUS | CONDITION | |
| TB-(| 424/1 | 10700 | AQ | 2 | Hel | VOA | | X | | | | | | , | | | CHH 110,22802-0 |
| 6MN-0-19 | | 5301 | ľ | C; | Hel | VOA | X | X | | | | | | | | | - (|
| E, MW -0 - 16 | | 2945 | - | (e | Itcl | VOA- | X | × | | | | | | | | | .0 |
| GMN- W | | 0437 | | 160 | Itel | VOA | X | X | | | | | | | : | | .(|
| DU8-2 | | - | | 3 | 1+01 | VOA | | X | | | | | | | | | - (|
| 41411-3-13 | | 1021 | | (p | 1401 | VOA- | × | × | | | | | | | | | - (|
| DUP-1 | | | | Ĺŗ | Ital | VOA | × | × | | | | | | | | | . (|
| P2-5 | | 1154 | | 4 | 1401 | VOA | × | × | | | | | | | | | |
| CHW-0-15 | | 1203 | | حبا | Hel | JOA | X | × | | | | | | | | | -(|
| 64W-36 | 4 | 1309 | 4 | 6 | Itel | VOR | X | X | - | | | | | | | | - 1 |
| | DATE 2/24/ | | SAMPL PERFO | ING RMED E | T.RH | YME | S | | • | | | • | | RESULTS NEEDED NO LATER THAN | Standard | | |
| RELEASED BY | TOPA | | | - | | | | | TIME | 3 (3 | 4 | | 14 | A CONTROL OF THE PROPERTY OF T | | DATE - LI | |
| RELEASED BY | 1 | ola C | · h | | <u></u> | | | | TIME | 45 | | RECEIV | ED BY | 2 | | DATE D/20/ | TIME |
| RELEASED BY | my | ole G | _ | | | | | | TIME | | | RECEIV | | . 4 0 1 | | DATE | HIME |
| | | | 3_ | *************************************** | | | | | 10 | 4 | _ | 2001 | | buth (d) | CDY | 2.28-1 | 1 10.02 |
| SHIPPED VIA | PED VIA | | | | | | | | IIME | SENT | | COOLER | <# \ | | | | |

| BLAINE 1680 ROGERS AVENI SAN JOSE, CALIFORNIA 95112-11 | | | | | | | | | DUCT | ANAL | YSIS T | TO DETE | CT | LAB | LAB Alpha Analytical COC 2 of 2 | | | |
|---|------------------|----------|-------------------|--------------|--------------------------------------|-------------|-------------|------------|------------|------|--------|---------|-----|---|---------------------------------|--------------|-----------------------------|--|
| BLAI TECH SER | | ıc. | SAN | JOSE, | CALIFORNIA FAX (408 PHONE (408 | 3) 573-7771 | | 8260B) | | | | | | Billing Information: Kinder Morgan 1100 Town and Cot Orange CA 95112 | | | | |
| CHAIN OF CUS | | er Morga | | | | | 8015M) | (EPA | | | | | | Kinder Morgan Nor Report to: | walk | | | |
| SITE | | Norwa | | | | | (EPA 8 | nates | | | | | | Dan Jablonski CH2MHILL 1000 Wilshire Blvd | 21st floor | | | |
| | 1530 | 6 Norwa | | | | | TPHfp (E | Oxygenates | | | | | | Los Angeles, CA 9 | | | | |
| SAMPLE I.D. | DATE | TIME | AQ= Water | | CONTA | | TPHg, T | VOC's & | | | | | | ADD'L INFORMATIO | ON STATUS | CONDITION | LAB SAMPLE# | |
| EB-1 | 2/24/11 | 1345 | 42 | (c | Hel | VOA | X | X | | | | | | | | | • | |
| | | | | | | | ļ | | | | | | · · | | | | | |
| | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| SAMPLING COMPLETED | DATE ≈ 24 (11 | TIME | SAMPLIN PERFOR | NG RMED B | YTRH | IMES | Ye | | | | | | | RESULTS NEEDED NO LATER THAN | Standard | | | |
| RELEASED BY | TRA | |) | **** | | | | , | TIME | 00 | | RECEIV | | | | DATE | | |
| RELEASED BY | Ang | sh c | wh | och | -) | | | | | 45 | | RECEIV | a c | | | DATE 2/25/11 | TIME / O 4 5" TIME | |
| RELEASED BY | 1 | | | | | | | | TIME /O | | | RECEIV | lmo | abith C | d cox | DÁTE 2:28 | | |
| SHIPPED VIA | | | | | | | | | TIME | SENT | | COOLE | R# | | _/_ | | • | |



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

ANALYTICAL REPORT

CH2M Hill

1000 Wilshire Boulevard Los Angeles, CA 90017 Attn:

Daniel Jablonski

Phone:

(213) 228-8271

Fax:

(714) 424-2135

Date Received: 03/25/11

Job:

KMEP DFSP Norwalk

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

| | | | | | Reporting | Date | Date |
|--------------|-----------------|-----------------------------|-----------|-------|----------------------|-----------|----------|
| | | Parameter | Concentra | ition | Limit | Extracted | Analyzed |
| Client ID: | GMW-0-15 | | | | | | |
| Lab ID: | CHH11032502-01A | TPH-E (Fuel Product) | 4.3 | ** | 0.10 mg/L | 03/29/11 | 03/29/11 |
| Date Sampled | 03/23/11 10:06 | Surr: Nonane | 132 | | (49-145) %REC | 03/29/11 | 03/29/11 |
| . | 10.00 | TPH-P (GRO) | 2.4 | | 0.20 mg/L | 03/29/11 | 03/29/11 |
| | | Surr: 1,2-Dichloroethane-d4 | 95 | | (70-130) %REC | 03/29/11 | 03/29/11 |
| | | Surr: Toluene-d8 | 100 | | (70-130) %REC | 03/29/11 | 03/29/11 |
| | | Surr: 4-Bromofluorobenzene | 98 | | (70-130) %REC | 03/29/11 | 03/29/11 |
| Client ID: | GMW-O-16 | | | | • | | |
| Lab ID: | CHH11032502-02A | TPH-E (Fuel Product) | 0.10 | ** | 0.10 mg/L | 03/29/11 | 03/29/11 |
| Date Sampled | 03/23/11 09:28 | Surr: Nonane | 114 | | (49-145) %REC | 03/29/11 | 03/29/11 |
| • | | TPH-P (GRO) | ND | | 0.050 mg/L | 03/29/11 | 03/29/11 |
| | | Surr: 1,2-Dichloroethane-d4 | 99 | | (70-130) %REC | 03/29/11 | 03/29/11 |
| | | Surr: Toluene-d8 | 103 | | (70-130) %REC | 03/29/11 | 03/29/11 |
| | | Surr: 4-Bromofluorobenzene | 100 | | (70-130) %REC | 03/29/11 | 03/29/11 |
| Client ID: | GMW-O-18 | | | | • • | | |
| Lab ID: | CHH11032502-03A | TPH-E (Fuel Product) | 0.23 | ** | $0.10~{ m mg/L}$ | 03/29/11 | 03/29/11 |
| Date Sampled | 03/23/11 11:24 | Surr: Nonane | 115 | | (49-145) %REC | 03/29/11 | 03/29/11 |
| • | | TPH-P (GRO) | 0.11 | | 0.050 mg/L | 03/29/11 | 03/29/11 |
| | | Surr: 1,2-Dichloroethane-d4 | 97 | | (70-130) %REC | 03/29/11 | 03/29/11 |
| | | Surr: Toluene-d8 | 103 | | (70-130) %REC | 03/29/11 | 03/29/11 |
| | | Surr: 4-Bromofluorobenzene | 96 | | (70-130) %REC | 03/29/11 | 03/29/11 |
| Client ID: | GMW-O-19 | | | | | | |
| Lab ID: | CHH11032502-04A | TPH-E (Fuel Product) | ND | | 0.10 mg/L | 03/29/11 | 03/29/11 |
| Date Sampled | 03/23/11 08:47 | Surr: Nonane | 110 | | (49-145) %REC | 03/29/11 | 03/29/11 |
| - | | TPH-P (GRO) | ND | | 0.050 mg/L | 03/31/11 | 03/31/11 |
| | | Surr: 1,2-Dichloroethane-d4 | 100 | | (70-130) %REC | 03/31/11 | 03/31/11 |
| | | Surr: Toluene-d8 | 103 | | (70-130) %REC | 03/31/11 | 03/31/11 |
| | | Surr: 4-Bromofluorobenzene | 99 | | (70-130) %REC | 03/31/11 | 03/31/11 |
| Client ID: | GMW-36 | | | | | | |
| Lab ID: | CHH11032502-05A | TPH-E (Fuel Product) | 2.9 | ** | $0.10~{ m mg/L}$ | 03/29/11 | 03/29/11 |
| Date Sampled | 03/23/11 10:45 | Surr: Nonane | 117 | | (49-145) %REC | 03/29/11 | 03/29/11 |
| | | TPH-P (GRO) | 3.2 | | 0.30 mg/L | 03/29/11 | 03/29/11 |
| | | Surr: 1,2-Dichloroethane-d4 | 97 | | (70-130) %REC | 03/29/11 | 03/29/11 |
| | | Surr: Toluene-d8 | 101 | | (70-130) %REC | 03/29/11 | 03/29/11 |
| | | Surr: 4-Bromofluorobenzene | 98 | | (70-130) %REC | 03/29/11 | 03/29/11 |
| Client ID: | PZ-5 | | | | | | |
| Lab ID: | CHH11032502-06A | TPH-E (Fuel Product) | 0.82 | ** | 0.10 mg/L | 03/29/11 | 03/29/11 |
| Date Sampled | 03/23/11 12:15 | Surr: Nonane | 113 | | (49-145) %REC | 03/29/11 | 03/29/11 |
| | | TPH-P (GRO) | 1.1 | | $0.20~\mathrm{mg/L}$ | 03/29/11 | 03/29/11 |
| | | Surr: 1,2-Dichloroethane-d4 | 96 | | (70-130) %REC | 03/29/11 | 03/29/11 |
| | | Surr: Toluene-d8 | 101 | | (70-130) %REC | 03/29/11 | 03/29/11 |
| | | Surr: 4-Bromofluorobenzene | 99 | | (70-130) %REC | 03/29/11 | 03/29/11 |

KMEP DFSP Norwalk Page 1 of 2



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

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

Gasoline Range Organics (GRO) C4-C13

ND = Not Detected

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

Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

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

Report Date

Page 2 of 2 KMEP DFSP Norwalk



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ANALYTICAL REPORT

CH2M Hill

1000 Wilshire Boulevard Los Angeles, CA 90017

KMEP DFSP Norwalk

Client I.D. Number: GMW-O-15

Alpha Analytical Number: CHH11032502-01A

Attn:

Daniel Jablonski

Phone: (213) 228-8271

Fax:

(714) 424-2135

Sampled: 03/23/11 10:06

Received: 03/25/11 Extracted: 03/29/11

Analyzed: 03/29/11

Volatile Organics by GC/MS EPA Method SW8260B

| | | | Repo | rting | | | | Re | eporting |
|----|-----------------------------------|---------------|------|-------|----|------------------------------------|---------------|----------|----------|
| | Compound | Concentration | Lim | nit | | 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 | 39 | 1.0 | μg/L |
| 3 | Vinyl chloride | ND | 2.0 | μg/L | 47 | m,p-Xylene | 190 | 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 | 60 | 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) | 3.600 | 20 | μg/L | 53 | Isopropylbenzene | 2.8 | 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 | 10 | 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) | 310 | 1.0 | μg/L | 58 | 1,3,5-Trimethylbenzene | 36 | 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 | 98 | 2.0 | μg/L |
| 17 | 2-Butanone (MEK) | ND | 40 | μg/L | 61 | sec-Butylbenzene | 3.0 | 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 | 4.0 | 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 | 28 | 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 | 210 | 1.0 | μg/L | 72 | Surr: Toluene-d8 | 100 | (70-130) | %REC |
| 29 | Tertiary Amyl Methyl Ether (TAME) | 5.2 | 2.0 | μg/L | 73 | Surr: 4-Bromofluorobenzene | 98 | (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 | | | | | |
| | | | | | | | | | |

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

ND

ND

ND

ND

ND

ND

ND

ND

ND = Not Detected

4-Methyl-2-pentanone (MIBK)

cis-1,3-Dichloropropene

1,1,2-Trichloroethane

1,3-Dichloropropane

Tetrachloroethene

Dibromochloromethane

1,2-Dibromoethane (EDB)

1,1,1,2-Tetrachloroethane

Toluene

2-Hexanone

37

trans-1,3-Dichloropropene

Roger Scholl

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

4/8/11 Report Date

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

μg/L

2.0 µg/L

2.0 μg/L

1.0 μg/L

2.0 μg/L

20 μg/L

2.0

4.0

2.0



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ANALYTICAL REPORT

CH2M Hill

1000 Wilshire Boulevard Los Angeles, CA 90017

KMEP DFSP Norwalk

Attn:

Daniel Jablonski

Phone: (213) 228-8271

Fax:

(714) 424-2135

Alpha Analytical Number: CHH11032502-02A

Client I.D. Number: GMW-O-16

Sampled: 03/23/11 09:28

Received: 03/25/11 Extracted: 03/29/11

Analyzed: 03/29/11

Volatile Organics by GC/MS EPA Method SW8260B

| | | | Repo | rting | | | | R | eporting |
|----|-----------------------------------|---------------|------|--------------|----|------------------------------------|---------------|----------|----------|
| | Compound | Concentration | Lim | nit | | 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) | 1.6 | 0.50 | µg/L | 58 | 1,3,5-Trimethylbenzene | ND | 1.0 | μg/L |
| 15 | 1,1-Dichloroethane | ND | 1.0 | µg/L | 59 | tert-Butylbenzene | ND | 1.0 | μg/L |
| 16 | Vinyl acetate | ND | 50 | μg/L | 60 | 1,2,4-Trimethylbenzene | ND | 1.0 | μg/L |
| 17 | 2-Butanone (MEK) | ND | 10 | µg/L | 61 | sec-Butylbenzene | ND | 1.0 | μg/L |
| 18 | Di-isopropyl Ether (DIPE) | ND | 1.0 | μg/L | 62 | 1,3-Dichlorobenzene | ND | 1.0 | μg/L |
| 19 | cis-1,2-Dichloroethene | ND | 1.0 | μg/L | 63 | 1,4-Dichlorobenzene | ND | 1.0 | μg/L |
| 20 | Bromochloromethane | ND | 1.0 | μg/L | 64 | 4-Isopropyltoluene | ND | 1.0 | μg/L |
| 21 | Chloroform | ND | 1.0 | μg/L | 65 | 1,2-Dichlorobenzene | ND | 1.0 | μg/L |
| 22 | Ethyl Tertiary Butyl Ether (ETBE) | ND | 1.0 | µg/L | 66 | n-Butvibenzene | 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 | 100 | (70-130) | %REC |
| 30 | Dibromomethane | ND | 1.0 | µg/L | 70 | Suit. 4-Biomondorobenzene | 100 | (10 100) | 7011LO |
| 31 | 1,2-Dichloropropane | ND | 1.0 | μg/L | | | | | |
| 32 | Trichloroethene | ND | 1.0 | μg/L μg/L | | | | | |
| 33 | Bromodichloromethane | ND | 1.0 | μg/L | | | | | |
| 34 | 4-Methyl-2-pentanone (MIBK) | ND | 10 | μg/L μg/L | | | | | |
| 35 | cis-1,3-Dichloropropene | ND | 0.50 | μg/L μg/L | | | | | |
| 36 | trans-1,3-Dichloropropene | ND | 0.50 | μg/L | | | | | |
| 37 | 1,1,2-Trichloroethane | ND | 1.0 | μg/L μg/L | | | | | |
| 38 | Toluene | ND | 0.50 | μg/L μg/L | | | | | |
| 39 | 1,3-Dichloropropane | ND | 1.0 | μg/L μg/L | | | | | |
| 40 | 0 Havenana | 140 | 1.0 | µg/L | | | | | |

ND = Not Detected

2-Hexanone Dibromochloromethane

1,2-Dibromoethane (EDB)

Tetrachloroethene 1,1,1,2-Tetrachloroethane

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

1.0 μg/L

2.0

Report Date

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ANALYTICAL REPORT

CH2M Hill

1000 Wilshire Boulevard Los Angeles, CA 90017

KMEP DFSP Norwalk

Attn:

Daniel Jablonski

Phone: (213) 228-8271

Fax:

(714) 424-2135

Alpha Analytical Number: CHH11032502-03A

Client I.D. Number: GMW-O-18

Sampled: 03/23/11 11:24

Received: 03/25/11 Extracted: 03/29/11

Analyzed: 03/29/11

Volatile Organics by GC/MS EPA Method SW8260B

| 2 Chloromethane ND 2.0 μg/L 46 Ethylbenzene 1.1 0.50 μ 3 Vinyl chloride ND 0.50 μg/L 47 m,p-Xylene 6.3 0.50 μ 4 Chloroethane ND 1.0 μg/L 48 Bromoform ND 1.0 μ 5 Bromomethane ND 2.0 μg/L 49 Styrene ND 1.0 μ 6 Trichlorofluoromethane ND 10 μg/L 50 o-Xylene 1.8 0.50 μ 7 Acetone ND 10 μg/L 51 1,1,2,2-Tetrachloroethane ND 1.0 μ 8 1,1-Dichloroethene ND 1.0 μg/L 52 1,2,3-Trichloropropane ND 2.0 μ 9 Tertiary Butyl Alcohol (TBA) 3,300 * 10 μg/L 53 Isopropylbenzene ND 1.0 μ | rting |
|--|-------|
| 2 Chloromethane ND 2.0 μg/L 46 Ethylbenzene 1.1 0.50 μ 3 Vinyl chloride ND 0.50 μg/L 47 m,p-Xylene 6.3 0.50 μ 4 Chloroethane ND 1.0 μg/L 48 Bromoform ND 1.0 μ 5 Bromomethane ND 2.0 μg/L 49 Styrene ND 1.0 μ 6 Trichlorofluoromethane ND 10 μg/L 50 o-Xylene 1.8 0.50 μ 7 Acetone ND 10 μg/L 51 1,1,2,2-Tetrachloroethane ND 1.0 μ 8 1,1-Dichloroethene ND 1.0 μg/L 52 1,2,3-Trichloropropane ND 2.0 μ 9 Tertiary Butyl Alcohol (TBA) 3,300 10 μg/L 53 Isopropylbenzene ND 1.0 μ | nit |
| 2 Chloromethane ND 2.0 μg/L 46 Ethylbenzene 1.1 0.50 μ 3 Vinyl chloride ND 0.50 μg/L 47 m,p-Xylene 6.3 0.50 μ 4 Chloroethane ND 1.0 μg/L 48 Bromoform ND 1.0 μ 5 Bromomethane ND 2.0 μg/L 49 Styrene ND 1.0 μ 6 Trichlorofluoromethane ND 10 μg/L 50 o-Xylene 1.8 0.50 μ 7 Acetone ND 10 μg/L 51 1,1,2,2-Tetrachloroethane ND 1.0 μ 8 1,1-Dichloroethene ND 1.0 μg/L 52 1,2,3-Trichloropropane ND 2.0 μ 9 Tertiary Butyl Alcohol (TBA) 3,300 10 μg/L 53 Isopropylbenzene ND 1.0 μ | g/L |
| 3 Vinyl chloride | g/L |
| 4 Chloroethane ND 1.0 μg/L 48 Bromoform ND 1.0 μ 1.0 | g/L |
| 5 Bromomethane ND 2.0 μg/L 49 Styrene ND 1.0 μg/L 1.0 μg/L 1.0 μg/L 1.0 μg/L 1.0 μg/L 1.0 μg/L 1.8 μg/L 0.50 μg/L 1.0 μg/L 1.0 μg/L 1.0 μg/L 1.1,1,2,2-Tetrachloroethane ND 1.0 μg/L 1.0 μg/L 1.2,3-Trichloropropane ND 1.0 μg/L 1.0 μg/L <td>g/L</td> | g/L |
| 6 Trichlorofluoromethane ND 10 μg/L 50 o-Xylene 1.8 0.50 μ 7 Acetone ND 10 μg/L 51 1,1,2,2-Tetrachloroethane ND 1.0 μ 8 1,1-Dichloroethene ND 1.0 μg/L 52 1,2,3-Trichloropropane ND 2.0 μ 9 Tertiary Butyl Alcohol (TBA) 3,300 * 10 μg/L 53 Isopropylbenzene ND 1.0 μ | g/L |
| 7 Acetone ND 10 μg/L 51 1,1,2,2-Tetrachloroethane ND 1.0 μ 8 1,1-Dichloroethene ND 1.0 μg/L 52 1,2,3-Trichloropropane ND 2.0 μ 9 Tertiary Butyl Alcohol (TBA) 3,300 10 μg/L 53 Isopropylbenzene ND 1.0 μ | g/L |
| 8 1,1-Dichloroethene ND 1.0 μg/L 52 1,2,3-Trichloropropane ND 2.0 μ 9 Tertiary Butyl Alcohol (TBA) 3,300 10 μg/L 53 Isopropylbenzene ND 1.0 μ | g/L |
| 9 Tertiary Butyl Alcohol (ΤΒΑ) 3,300 • 10 μg/L 53 Isopropylbenzene ND 1.0 μ | g/L |
| | g/L |
| 10 Dichloromethane ND 5.0 μg/L 54 Bromobenzene ND 1.0 μ | g/L |
| | g/L |
| 27 Carbon tetrachloride ND 1.0 µg/L 71 Surr: 1,2-Dichloroethane-d4 97 (70-130) %I | REC |
| | REC |
| | 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 1.4 0.50 µg/L | |
| 39 1,3-Dichloropropane ND 1.0 µg/L | |
| 40 2-Hexanone ND 5.0 μg/L | |
| 41 Dibromochloromethane ND 1.0 µg/L | |
| 42 1,2-Dibromoethane (EDB) ND 2.0 µg/L | |

ND = Not Detected

Tetrachloroethene 1.1.1.2-Tetrachioroethane

4/8/11 Report Date

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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



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ANALYTICAL REPORT

CH2M Hill

1000 Wilshire Boulevard Los Angeles, CA 90017

KMEP DFSP Norwalk

Client I.D. Number: GMW-O-19

Alpha Analytical Number: CHH11032502-04A

Attn:

Daniel Jablonski

Phone: (213) 228-8271

Fax:

(714) 424-2135

Sampled: 03/23/11 08:47

Received: 03/25/11 Extracted: 03/31/11

Analyzed: 03/31/11

Volatile Organics by GC/MS EPA Method SW8260B

| | | | Repo | rting | | | | Re | eporting |
|-------------|-----------------------------------|---------------|------|-------|----|------------------------------------|---------------|----------|----------|
| T70-1-1-1-1 | Compound | Concentration | Lin | nit | | 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 | Isopropyibenzene | 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-Butvibenzene | 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 | 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 | | | | | |

ND = Not Detected

trans-1,3-Dichloropropene

1,1,2-Trichloroethane

1,3-Dichloropropane

Tetrachloroethene

Dibromochloromethane

1,2-Dibromoethane (EDB)

1,1,1,2-Tetrachloroethane

Toluene

2-Hexanone

36

37

38

ND

ND

ND

ND

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

Report Date

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μg/L

µg/L

µg/L

μg/L

5.0

1.0 µq/L

2.0 μg/L



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ANALYTICAL REPORT

CH2M Hill

1000 Wilshire Boulevard Los Angeles, CA 90017

KMEP DFSP Norwalk

Attn:

Daniel Jablonski

Phone: (213) 228-8271

Fax:

(714) 424-2135

Alpha Analytical Number: CHH11032502-05A

Client I.D. Number: GMW-36

Sampled: 03/23/11 10:45

Received: 03/25/11 Extracted: 03/29/11 Analyzed: 03/29/11

Volatile Organics by GC/MS EPA Method SW8260B

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

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

ND

ND

ND

ND

ND

ND

340

ND = Not Detected

cis-1,3-Dichloropropene

1,1,2-Trichloroethane

1,3-Dichloropropane

Tetrachloroethene

Dibromochloromethane

1,2-Dibromoethane (EDB)

1,1,1,2-Tetrachioroethane

Toluene

2-Hexanone

36

37

38

39

40

trans-1,3-Dichloropropene

4/8/11 Report Date

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μg/L

µg/L

µg/L

μg/L

µg/L

3.0 µg/L

6.0 μg/L

3.0 ug/L

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



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ANALYTICAL REPORT

CH2M Hill

1000 Wilshire Boulevard Los Angeles, CA 90017

KMEP DFSP Norwalk

Attn: Phone:

Daniel Jablonski

(213) 228-8271

Fax:

(714) 424-2135

Alpha Analytical Number: CHH11032502-06A

Client I.D. Number: PZ-5

Sampled: 03/23/11 12:15

Received: 03/25/11 Extracted: 03/29/11

Analyzed: 03/29/11

Volatile Organics by GC/MS EPA Method SW8260B

| | | | Repo | rting | | | | Re | eporting |
|----|-----------------------------------|---------------|------|--------------|----|------------------------------------|---------------|---|----------|
| | Compound | Concentration | Lin | nit | | 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 | 2.4 | 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 | ug/L | 52 | 1,2,3-Trichloropropane | ND | 8.0 | μg/L |
| 9 | Tertiary Butyl Alcohol (TBA) | 29.000 * | 200 | 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) | 140 | 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 | 4.3 | 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 | 96 | (70-130) | %REC |
| 28 | Benzene | 210 | 1.0 | μg/L | 72 | Surr: Toluene-d8 | 101 | (70-130) | %REC |
| 29 | Tertiary Amyl Methyl Ether (TAME) | ND | 2.0 | μg/L μg/L | 73 | Surr: 4-Bromofluorobenzene | 99 | (70-130) | %REC |
| 30 | Dibromomethane | ND | 2.0 | μg/L | 70 | Gan: 4-Bromondorobenzeno | 33 | (,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 701 1 |
| 31 | 1,2-Dichloropropane | ND | 2.0 | μg/L | | | | | |
| 32 | Trichloroethene | ND | 2.0 | μg/L 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 μg/L | | | | | |
| 36 | trans-1,3-Dichloropropene | ND | 2.0 | μg/L μg/L | | | | | |
| 37 | 1,1,2-Trichloroethane | ND | 2.0 | μg/L μg/L | | | | | |
| 38 | Toluene | ND | 1.0 | μg/L μg/L | | | | | |
| 39 | 1,3-Dichloropropane | ND ND | 2.0 | | | | | | |
| 40 | 2-Hexanone | ND ND | 2.0 | µg/L | | | | | |
| 41 | Dibromochloromethane | ND ND | 2.0 | μg/L μg/L | | | | | |

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

ND = Not Detected

1,2-Dibromoethane (EDB)

1,1,1,2-Tetrachloroethane

Tetrachloroethene

Roger Scholl

4/8/11

Report Date

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

μg/L

2.0

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



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ANALYTICAL REPORT

CH2M Hill

1000 Wilshire Boulevard Los Angeles, CA 90017

KMEP DFSP Norwalk

Attn:

Daniel Jablonski

Phone: (213) 228-8271

Fax:

(714) 424-2135

Alpha Analytical Number: CHH11032502-07A

Client I.D. Number: DUP-1

Sampled: 03/23/11 00:00

Received: 03/25/11

Extracted: 03/29/11

Analyzed: 03/29/11

Volatile Organics by GC/MS EPA Method SW8260B

| | | | Repo | rting | | | | R | eporting |
|----|-----------------------------------|---------------|------|--------------|----|------------------------------------|---------------|----------|--------------|
| | Compound | Concentration | Lin | nit | | 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 | 2.2 | 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) | 30,000 * | 200 | 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 μg/L | 56 | 4-Chlorotoluene | ND | 2.0 | μg/L |
| 13 | trans-1,2-Dichloroethene | ND . | 2.0 | μg/L μg/L | 57 | 2-Chlorotoluene | ND | 2.0 | μg/L |
| 14 | Methyl tert-butyl ether (MTBE) | 140 | 1.0 | μg/L μg/L | 58 | 1,3,5-Trimethylbenzene | ND | 2.0 | μg/L |
| 15 | 1,1-Dichloroethane | ND | 2.0 | μg/L μg/L | 59 | tert-Butylbenzene | ND | 2.0 | μg/L |
| 16 | Vinyl acetate | ND | 200 | | 60 | 1,2,4-Trimethylbenzene | 4.1 | 2.0 | μg/L |
| 17 | 2-Butanone (MEK) | ND | 40 | μg/L | | • | ND | 2.0 | μg/L μg/L |
| 18 | Di-isopropyl Ether (DIPE) | ND ND | - | μg/L | 61 | sec-Butylbenzene | ND ND | 2.0 | µg/L |
| 19 | cis-1,2-Dichloroethene | ND ND | 2.0 | μg/L | 62 | 1,3-Dichlorobenzene | ND ND | 2.0 | |
| 20 | Bromochloromethane | i | 2.0 | µg/L | 63 | 1,4-Dichlorobenzene | | 2.0 | µg/L µg/L |
| 21 | Chloroform | ND | 2.0 | μg/L | 64 | 4-isopropyltoluene | ND | | |
| | | ND | 2.0 | μg/L | 65 | 1,2-Dichlorobenzene | ND | 2.0 | μg/L |
| 22 | Ethyl Tertiary Butyl Ether (ETBE) | 2.0 | 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 | 96 | (70-130) | %REC |
| 28 | Benzene | 220 | 1.0 | μg/L | 72 | Surr: Toluene-d8 | 104 | (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 | | | | | |
| | | | | | | | | | |

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

ND = Not Detected

1,1,1,2-Tetrachloroethane

Roger Scholl

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer $Sacramento, CA \bullet (916)\ 366-9089\ /\ Las\ Vegas, NV \bullet (702)\ 736-7522\ /\ Carson, CA \bullet (714)\ 386-2901\ /\ info@alpha-analytical.com$

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

Report Date Page 1 of 1

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



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ANALYTICAL REPORT

CH2M Hill

1000 Wilshire Boulevard Los Angeles, CA 90017

Client I.D. Number: EB-1

KMEP DFSP Norwalk

Alpha Analytical Number: CHH11032502-08A

Attn:

Daniel Jablonski

Phone: (213) 228-8271

Fax:

(714) 424-2135

Sampled: 03/23/11 09:38

Received: 03/25/11

Extracted: 03/29/11 Analyzed: 03/29/11

Volatile Organics by GC/MS EPA Method SW8260B

| | | | Repo | rting | | | | Re | eporting |
|----|-----------------------------------|---------------|------|--------|-----|------------------------------------|---------------|----------|----------|
| | Compound | Concentration | Lin | nit | | 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 | Isopropyibenzene | 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-Butvibenzene | 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 | 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 | | | | | |
| | _ | 1 | 1.0 | r 3. – | | | | | |

ND = Not Detected

Bromodichloromethane

cis-1,3-Dichloropropene

1,1,2-Trichloroethane

1,3-Dichloropropane

Tetrachloroethene

Dibromochloromethane

1,2-Dibromoethane (EDB)

1,1,1,2-Tetrachloroethane

Toluene

2-Hexanone

38

40

42

trans-1,3-Dichloropropene

4-Methyl-2-pentanone (MIBK)

Roger Scholl

ND

ND

ND

ND

ND

NΩ

ND

ND

ND

ND

ND

Report Date

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

μg/L

μg/L

µq/L

10

0.50

0.50

1.0 μg/L

2.0 μg/L



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ANALYTICAL REPORT

CH2M Hill

1000 Wilshire Boulevard Los Angeles, CA 90017

Client I.D. Number: TB-1

KMEP DFSP Norwalk

Daniel Jablonski

Phone: (213) 228-8271

Fax:

(714) 424-2135

Alpha Analytical Number: CHH11032502-09A

Sampled: 03/23/11 07:00

Received: 03/25/11

Extracted: 03/29/11

Analyzed: 03/29/11

Volatile Organics by GC/MS EPA Method SW8260B

| | | | Repo | rting | | | | Re | eporting |
|----|-----------------------------------|---------------|------|-------|----|------------------------------------|---------------|----------|----------|
| | Compound | Concentration | Lim | nit | | 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 | 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 | | 04.1. 1 5.0003.00024.75 | , - , | | |
| 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 | | | | | |
| | 4 4 50 | | 1.0 | MA | | | | | |

ND = Not Detected

1,2-Dibromoethane (EDB)

Tetrachloroethene 1,1,1,2-Tetrachioroethane

ND ND

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

4/8/11

Report Date

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VOC Sample Preservation Report

Work Order: CHH11032502 Job: KMEP DFSP Norwalk

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



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| Date: 07-Apr-11 | QC Summary Report | Work Order: 11032502 |
|--|--|--------------------------------|
| Method Blank File ID: 1A03251141.D Sample ID: MBLK-26229 Analyte | Type: MBLK Test Code: EPA Method SW8015B/C Ext | 11 09:57 |
| TPH-E (Fuel Product) Surr: Nonane | ND 0.1 0.169 0.15 113 49 145 | |
| Laboratory Control Spike File ID: 1A03251138.D Sample ID: LCS-26229 | Type: LCS Test Code: EPA Method SW8015B/C Ext | 11 09:57 |
| Analyte TPH-E (DRO) Surr: Nonane | Result PQL SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD 2.62 0.05 2.5 105 70 130 0.174 0.15 116 49 145 | O(Limit) Qual |
| Sample Matrix Spike File ID: 1A03251140.D Sample ID: 11032940-01AMS Analyte | Type: MS Test Code: EPA Method SW8015B/C Ext Batch ID: 26229 Analysis Date: 03/29/20 Units: mg/L Run ID: FID_1_110329A Prep Date: 03/29/20 Result PQL SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD | 11 09:57 |
| TPH-E (DRO) Surr: Nonane | 2.58 0.05 2.5 0 103 53 150 0.164 0.15 109 49 145 | ···· |
| Sample Matrix Spike Duplicate File ID: 1A03251142.D Sample ID: 11032940-01AMSD Analyte | Type: MSD Test Code: EPA Method SW8015B/C Ext | 11 09:57 |
| TPH-E (DRO) Surr: Nonane | | 1(47) |

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: 07-Apr-11 | (| QC Sı | ımmar | y Report | | | | Work Orde 11032502 | |
|---|--|---------|-----------------------------|--|------------------------|----------------------|-------------------------------|------------------------------|------|
| Method Blank File ID: 11032907.D | | Туре: М | | est Code: EP . atch ID: MS1 | | | | 03/29/2011 10:43 | |
| Sample ID: MBLK MS15W0329B | Units : mg/L | | | SD_15_1103 | | | Prep Date: | 03/29/2011 10:43 | 01 |
| Analyte | Result | PQL | | SpkRefVal 9 | %REC | LCL(ME) | UCL(ME) RPDRef | Val %RPD(Limit) | Qual |
| TPH-P (GRO) Surr: 1,2-Dichloroethane-d4 Surr: Toluene-d8 Surr: 4-Bromofluorobenzene | ND 0.00951 0.0105 0.01 | 0.05 | 0.01 0.01 0.01 | | 95 105 100 | 70 70 70 | 130 130 130 | | |
| Laboratory Control Spike | | Type: L | CS T | est Code: EP. | A Meth | od SW80 | 15B/C | | |
| File ID: 11032904.D | | | В | atch ID: MS1 | 5W032 | 9B | Analysis Date: | 03/29/2011 09:29 | |
| Sample ID: GLCS MS15W0329B | Units : mg/L | | Run ID: M | SD_15_1103 | 29A | | Prep Date: | 03/29/2011 09:29 | |
| Analyte | Result | PQL | SpkVal | SpkRefVal % | %REC | LCL(ME) | UCL(ME) RPDRef | Val %RPD(Limit) | Qual |
| TPH-P (GRO) Surr: 1,2-Dichloroethane-d4 Surr: Toluene-d8 Surr: 4-Bromofluorobenzene | 0.385 0.00978 0.00993 0.00988 | 0.05 | 0.4 0.01 0.01 0.01 | | 96 98 99 99 | 70 70 70 70 | 130 130 130 130 | | |
| Sample Matrix Spike | | Туре: М | S T | est Code: EP. | A Meth | od SW80 | 15B/C | | |
| File ID: 11032910.D | | | В | atch ID: MS1 | 5W032 | 9B | Analysis Date: | 03/29/2011 11:48 | |
| Sample ID: 11032502-02AGS | Units : mg/L | | Run ID: M | SD_15_1103 | 29A | | Prep Date: | 03/29/2011 11:48 | |
| Analyte | Result | PQL | SpkVal | SpkRefVal 9 | %REC | LCL(ME) | UCL(ME) RPDRef | Val %RPD(Limit) | Qual |
| TPH-P (GRO) Surr: 1,2-Dichloroethane-d4 Surr: Toluene-d8 Surr: 4-Bromofluorobenzene | 1.89 0.0473 0.0509 0.0524 | 0.25 | 2 0.05 0.05 0.05 | 0 | 95 95 102 105 | 51 70 70 70 | 144 130 130 130 | | |
| Sample Matrix Spike Duplicate | | Туре: М | SD T | est Code: EP . | A Meth | od SW80 | 15B/C | | |
| File ID: 11032911.D | | | В | atch ID: MS1 | 5W032 | 9B | Analysis Date: | 03/29/2011 12:10 | |
| Sample ID: 11032502-02AGSD | Units : mg/L | | Run ID: M | SD_15_1103 | 29A | | Prep Date: | 03/29/2011 12:10 | |
| Analyte | Result | PQL | SpkVal | SpkRefVal % | %REC | LCL(ME) | UCL(ME) RPDRef | Val %RPD(Limit) | Qual |
| TPH-P (GRO) Surr: 1,2-Dichloroethane-d4 Surr: Toluene-d8 Surr: 4-Bromofluorobenzene | 1.95 0.0478 0.0495 0.0516 | 0.25 | 2 0.05 0.05 0.05 | 0 | 97 96 99 103 | 51 70 70 70 | 144 1.89 130 130 130 | 3.0(29) | |

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: 07-Apr-11 | (| QC Sum | mary Report | Work Order: 11032502 |
|---|--------------|-----------|------------------------------|-----------------------------------|
| Method Blank | | Type: MBL | Test Code: EPA Method SW82 | |
| File ID: 11032907.D | | | Batch ID: MS15W0329A | Analysis Date: 03/29/2011 10:43 |
| Sample ID: MBLK MS15W0329A | Units : µg/L | Rur | ID: MSD_15_110329A | Prep Date: 03/29/2011 10:43 |
| Analyte | Result | PQL S | pkVal SpkRefVal %REC LCL(ME) | UCL(ME) RPDRefVal %RPD(Limit) Qua |
| Dichlorodifluoromethane | ND | 1 | | |
| Chloromethane | ND | 2 | | |
| Vinyl chloride | ND | 0.5 | | |
| Chloroethane Bromomethane | ND ND | 1 | | |
| Trichlorofluoromethane | ND ND | 2 10 | | |
| Acetone | ND | 10 | | |
| 1,1-Dichloroethene | ND | 1 | | |
| Tertiary Butyl Alcohol (TBA) | ND | 10 | | |
| Dichloromethane | ND | 5 | | |
| Freon-113 Carbon disulfide | ND ND | 10 | | |
| trans-1,2-Dichloroethene | ND ND | 2.5 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) cis-1,2-Dichloroethene | ND | 1 | | |
| Bromochloromethane | ND ND | 1 | | |
| Chloroform | ND ND | 1 | | |
| Ethyl Tertiary Butyl Ether (ETBE) | ND | 1 | | |
| 2,2-Dichloropropane | ND | 1 | | |
| 1,2-Dichloroethane | ND | 0.5 | | |
| 1,1,1-Trichloroethane 1,1-Dichloropropene | ND | 1 | | |
| Carbon tetrachloride | ND ND | 1 1 | | |
| Benzene | ND ND | 0.5 | | |
| Tertiary Amyl Methyl Ether (TAME) | ND | 1 | | |
| Dibromomethane | ND | 1 | | |
| 1,2-Dichloropropane | ND | 1 | | |
| Trichloroethene Bromodichloromethane | ND | 1 | | |
| 4-Methyl-2-pentanone (MIBK) | ND ND | 1 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 2-Hexanone | ND | 1 | | |
| Dibromochloromethane | ND ND | 5 1 | | |
| 1,2-Dibromoethane (EDB) | ND | 2 | | |
| Tetrachloroethene | ND | 1 | | |
| 1,1,1,2-Tetrachloroethane | ND | 1 | | |
| Chlorobenzene | ND | 1 | | |
| Ethylbenzene m,p-Xylene | ND | 0.5 | | |
| Bromoform | ND ND | 0.5 1 | | |
| Styrene | ND | 1 | | |
| o-Xylene | ND | 0.5 | | |
| 1,1,2,2-Tetrachloroethane | ND | 1 | | |
| 1,2,3-Trichloropropane | ND | 2 | | |
| Isopropylbenzene Bromobenzene | ND | 1 | | |
| Bromobenzene n-Propylbenzene | ND ND | 1 1 | | |
| 4-Chlorotoluene | ND ND | 1 | | |
| 2-Chlorotoluene | ND | 1 | | |
| 1,3,5-Trimethylbenzene | ND | i | | |
| tert-Butylbenzene | ND | 1 | | |
| 1,2,4-Trimethylbenzene | ND | 1 | | |
| sec-Butylbenzene 1,3-Dichlorobenzene | ND ND | 1 | | |
| 1,4-Dichlorobenzene | ND ND | 1 1 | | |
| 4-Isopropyltoluene | ND ND | 1 | | |
| 1,2-Dichlorobenzene | ND | 1 | | |



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| Date: 07-Apr-11 | (| QC Sun | nmary | Report | | | | | Work Orde 11032502 | |
|---|--------------|---|-----------------|-------------|------------|----------|------------|-----------|------------------------------|------|
| n-Butylbenzene | ND | 1 | | | | | | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 5 | | | | | | | | |
| 1,2,4-Trichlorobenzene Naphthalene | ND | 2 | | | | | | | | |
| 1.2.3-Trichlorobenzene | ND ND | 10 2 | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 9.51 | 2 | 10 | | 95 | 70 | 130 | | | |
| Surr: Toluene-d8 | 10.5 | | 10 | | 105 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 10 | | 10 | | 100 | 70 | 130 | | | |
| Laboratory Control Spike | | Type: LCS | Те | st Code: EP | A Met | hod SW82 | | | | |
| File ID: 11032903.D | | | Ва | tch ID: MS1 | 5W032 | 29A | Analy | sis Date: | 03/29/2011 09:07 | |
| Sample ID: LCS MS15W0329A | Units : µg/L | Ru | n ID: MS | D_15_1103 | 29A | | Prep | Date: | 03/29/2011 09:07 | |
| Analyte | Result | PQL : | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRef\ | /al %RPD(Limit) | Qual |
| 1,1-Dichloroethene | 10.6 | 1 | 10 | | 106 | 80 | 120 | | | |
| Methyl tert-butyl ether (MTBE) | 9.61 | 0.5 | 10 | | 96 | 65 | 140 | | | |
| Benzene | 10.6 | 0.5 | 10 | | 106 | 70 | 130 | | | |
| Trichloroethene Toluene | 10.5 | 1 | 10 | | 105 | 65 80 | 144 | | | |
| Chlorobenzene | 10.8 | 0.5 | 10 | | 108 | 80 70 | 120 130 | | | |
| Ethylbenzene | 10.6 10.5 | 1 0.5 | 10 10 | | 106 105 | 70 80 | 130 | | | |
| m,p-Xylene | 10.5 | 0.5 0.5 | 10 | | 105 | 70 | 130 | | | |
| o-Xylene | 10.8 | 0.5 | 10 | | 108 | 70 | 130 | | | |
| Surr: 1,2-Dichloroethane-d4 | 9.21 | 0.0 | 10 | | 92 | 70 | 130 | | | |
| Surr: Toluene-d8 . | 10.1 | | 10 | | 101 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 10.4 | | 10 | | 104 | 70 | 130 | | | |
| Sample Matrix Spike | | Type: MS | Te | st Code: EP | A Met | hod SW82 | 60B | | | |
| File ID: 11032908.D | | | Ba | tch ID: MS1 | 5W032 | 29A | Analy | sis Date: | 03/29/2011 11:05 | |
| Sample ID: 11032502-02AMS | Units : µg/L | Ru | n ID: MS | D_15_1103 | 29A | | Prep | Date: | 03/29/2011 11:05 | |
| Analyte | Result | | | | | LCL(ME) | UCL(ME) | | /al %RPD(Limit) | Qual |
| 1,1-Dichloroethene | 47.9 | 2.5 | 50 | 0 | 96 | 64 | 130 | | | |
| Methyl tert-butyl ether (MTBE) | 49.6 | 1.3 | 50 | 1.58 | 96 | 47 | 150 | | | |
| Benzene | 48.7 | 1.3 | 50 | 0 | 97 | 59 | 138 | | | |
| Trichloroethene | 47.5 | 2.5 | 50 | 0 | 95 | 65 | 144 | | | |
| Toluene | 49 | 1.3 | 50 | 0 | 98 | 68 | 130 | | | |
| Chlorobenzene | 48.4 | 2.5 | 50 | 0 | 97 | 70 | 130 | | | |
| Ethylbenzene m,p-Xylene | 48.4 | 1.3 | 50 | 0 | 97 | 68 | 130 | | | |
| o-Xylene | 49.1 49 | 1.3 | 50 | 0 | 98 98 | 68 70 | 131 130 | | | |
| Surr: 1,2-Dichloroethane-d4 | 49 47.2 | 1.3 | 50 50 | U | 98 94 | 70 70 | 130 | | | |
| Surr: Toluene-d8 | 49.9 | | 50 | | 99.8 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 51.7 | | 50 | | 103 | 70 | 130 | | | |
| Sample Matrix Spike Duplicate | | Type: MSD | Te | st Code: EP | A Met | hod SW82 | 60B | | | |
| File ID: 11032909.D | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | tch ID: MS1 | | | | sis Date: | 03/29/2011 11:27 | |
| Sample ID: 11032502-02AMSD | Units : µg/L | Ru | | D_15_1103 | | | Prep | | 03/29/2011 11:27 | |
| Analyte | Result | | | | | LCL(ME) | | | /al %RPD(Limit) | Qual |
| 1,1-Dichloroethene | 51.9 | 2.5 | 50 | 0 | 104 | 64 | 130 | 47.87 | | |
| Methyl tert-butyl ether (MTBE) | 55.9 | 1.3 | 50 | 1.58 | 109 | 47 | 150 | 49.62 | | |
| Benzene | 51.4 | 1.3 | 50 | 0 | 103 | 59 | 138 | 48.67 | | |
| Trichloroethene | 51.3 | 2.5 | 50 | ő | 103 | 65 | 144 | 47.51 | • • • | |
| Toluene | 53.2 | 1.3 | 50 | Ö | 106 | 68 | 130 | 49.01 | | |
| Chlorobenzene | 52.2 | 2.5 | 50 | 0 | 104 | 70 | 130 | 48.35 | | |
| Ethylbenzene | 51.6 | 1.3 | 50 | 0 | 103 | 68 | 130 | 48.37 | 6.5(20) | |
| m,p-Xylene | 52.8 | 1.3 | 50 | 0 | 106 | 68 | 131 | 49.07 | | |
| o-Xylene | 52.6 | 1.3 | 50 | 0 | 105 | 70 | 130 | 49.01 | 7.1(20) | |
| Surr: Tolueno de | 49.2 | | 50 | | 98 | 70 70 | 130 | | | |
| Surr: Toluene-d8 Surr: 4-Bromofluorobenzene | 50.3 50.3 | | 50 50 | | 101 101 | 70 70 | 130 130 | | | |
| | 50.3 | | 50 | | 1111 | 7(1 | 1 (1) | | | |



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

| Date: | OC Cummany Danast | Work Order |
|-----------|-------------------|------------|
| 07-Apr-11 | QC Summary Report | 11032502 |
| | | |

Comments:

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

Billing Information:

CH2M Hill

21st Floor

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778

TEL: (775) 355-1044 FAX: (775) 355-0406

Report Attention Phone Number EMail Address Daniel Jablonski (213) 228-8271 x daniel.jablonski@ch2m.com Vladimir Carino (213) 228-8271 x vladimir.carino@ch2m.com

CA

Page: 1 of 2

WorkOrder: CHHL11032502

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

EDD Required: Yes

Sampled by: Sunil Patel

Cooler Temp Samples Received Date Printed

0 °C 25-Mar-2011 25-Mar-2011

PO:

QC Level: S3

Client:

Client's COC #: none

1000 Wilshire Boulevard

Los Angeles, CA 90017

= Final Rpt, MBLK, LCS, MS/MSD With Surrogates

KMEP DFSP Norwalk

| | | | | | | | | | | Requested 1 | ests | | |
|-----------------|-----------|--------|------------------|--------|---------|-----|---------------------------------|---------------------------------|---------------------------------|-------------|------|--|----------------|
| Alpha | Client | Co | ollection | No. of | Bottles | | TPH/E_W | TPH/P_W | VOC_W | | | | |
| Sample ID | Sample ID | Matrix | Date | Alpha | Sub | TAT | | | | | | | Sample Remarks |
| CHH11032502-01A | GMW-O-15 | AQ 0 | 3/23/11 10:06 | 6 | 0 | 6 | TPHE(0.10) +Vinyl acetate | TPHE(0.10) +Vinyl acetate | TPHE(0.10) +Vinyl acetate | | | | |
| CHH11032502-02A | GMW-O-16 | 1 1 | 3/23/11 09:28 | 6 | 0 | 6 | TPHE(0.10) +Vinyl acetate | TPHE(0.10) +Vinyl acetate | TPHE(0.10) +Vinyl acetate | | | | |
| CHH11032502-03A | GMW-O-18 | AQ 0 | 3/23/11 11:24 | 6 | 0 | 6 | TPHE(0.10) +Vinyl acetate | TPHE(0.10) +Vinyl acetate | TPHE(0.10) +Vinyl acetate | | | | |
| CHH11032502-04A | GMW-O-19 | | 3/23/11 08:47 | 6 | 0 | 6 | TPHE(0.10) +Vinyl acetate | TPHE(0.10) +Vinyl acetate | TPHE(0.10) +Vinyl acetate | | | | |
| CHH11032502-05A | GMW-36 | AQ 0 | 3/23/11 10:45 | 6 | 0 | 6 | TPHE(0.10) +Vinyl acetate | TPHE(0.10) +Vinyl acetate | TPHE(0.10) +Vinyl acetate | | | | |
| CHH11032502-06A | PZ-5 | AQ 0 | 3/23/11 12:15 | 6 | 0 | 6 | TPHE(0.10) +Vinyl acetate | TPHE(0.10) +Vinyl acetate | TPHE(0.10) +Vinyl acetate | | | | |
| CHH11032502-07A | DUP-1 | AQ 0 | 3/23/11 00:00 | 6 | 0 | 6 | TPHE(0.10) +Vinyl acetate | TPHE(0.10) +Vinyl acetate | TPHE(0.10) +Vinyl acetate | | | | |
| CHH11032502-08A | EB-1 | AQ 0 | 3/23/11 09:38 | 6 | 0 | 6 | TPHE(0.10) +Vinyl acetate | TPHE(0.10) +Vinyl acetate | TPHE(0.10) +Vinyl acetate | | | | |

Comments:

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

| Signature | Print Name | Company | Date/Time |
|-----------------------------|------------------|------------------------|-------------|
| Logged in by: Chabith CdCox | Elizabeth Fldcox | Alpha Analytical, Inc. | 3.25.11 403 |

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

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778

TEL: (775) 355-1044 FAX: (775) 355-0406

Client: Report Attention

 Report Attention
 Phone Number
 EMail Address

 Daniel Jablonski
 (213) 228-8271 x
 daniel.jablonski@ch2m.com

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

CA

Page: 2 of 2

WorkOrder: CHHL11032502

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

EDD Required : Yes

Sampled by : Sunil Patel

Cooler Temp 0 °C

Samples Received 25-Mar-2011 Date Printed
25-Mar-2011

PO:

OC Lovel : S3

CH2M Hill

21st Floor

Client's COC #: none

1000 Wilshire Boulevard

Los Angeles, CA 90017

one

Job: KMEP DFSP Norwalk

Final Rpt, MBLK, LCS, MS/MSD With Surrogates

| | | | | | | | | Re | equested Tests | |
|-----------------|-----------|----------------------|--------|---------|-----|---------|---------|---------------------------------|----------------|---|
| Alpha | Client | Collection | No. of | Bottles | 3 | TPH/E_W | TPH/P_W | VOC_W | | |
| Sample ID | Sample ID | Matrix Date | Alpha | Sub | TAT | | | | | Sample Remarks |
| CHH11032502-09A | TB-1 | AQ 03/23/11 07:00 | 3 | 0 | 6 | | | TPHE(0.10) +Vinyl acetate | | 3 Reno Trip Blanks: (2) 10/26/10 (1) 11/2/10 |

Comments:

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

Logged in by:

Signatur

Print Name
Elizabth

dcox

Company

Alpha Analytical, Inc.

3.25.11 1403

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.

Matrix Type: AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

| BLAI TECH SERV | | IC. | SAI | N JOSE, | | | | 8260B) S | NDUCT AN | ALYSIS | TO DE | FECT | LAB Billing Information: Kinder Morgan 1100 Town and Countr Orange CA 95112 | Alpha Analy | tical COC_ | of |
|-------------------|-----------------------|--------------|-------------------|----------------|--------------|--|---------------------|------------|--------------|--------|-------|---------|--|-------------|---|-------------------|
| CHAIN OF CUST | TODY | | | | | | 5M) | 1 < | | | | | Offinge CA 93112 | | | |
| CLIENT | Kinde | er Morga | an | | | | 80151 | S (EP, | | | | | Kinder Morgan Norwal Report to: Dan Jablonski | k | | |
| SITE | DFSF | Norwa | alk | | | | (EPA | Jate | | | | | CH2MHILL 1000 Wilshire Blvd 21 | st floor | | |
| | 1530 | 6 Norwa | alk Blv | d, No | rwalk | | TPHfp (E | Oxygenates | | | | | Los Angeles, CA 9001 | | | |
| | MATRIX CONTAINERS | | | | | | | დ თ | | | | | | I | ı | I |
| SAMPLE I.D. | DATE | TIME | AQ= Water | # | Preservation | Туре | TPHg, | VOC | | | | | ADD'L INFORMATION | STATUS | CONDITION | LAB SAMPLE # |
| GMW-0-15 | 3-23-11 | 1006 | AQ | وا | Hei | WAJ | Ý | χ | | | | | | | | CHH1103250201 |
| 6-MW-0-16 | | 0928 | V. generalis | İ | | <u> </u> | $\chi_{\mathbb{C}}$ | X | | | | : | | | | -02 |
| GMW-0-18 | | 1124 | | | | | X | λ | | | | | | | | -03 |
| G-MW-0-19 | | 0847 | 70 | and the second | | | × | X | | | | | | | | -04 |
| 6-MW-36 | , i | 1045 | | 10.0 | | | X | X | | | | | | | | -Q' |
| PZ-5 | | 1215 | | Pr. Con | | | X | X | | | | | | | | -04 |
| 0VP-1 | | _ | | | | | X | X | | | | | | | | -0 |
| EB-1 | | 0938 | | | | and the second s | x | X | | | | | | | | -08 |
| TB-1 | $oxed{oxed}$ | 0700 | W | 3 | V | | | X | | - | | | | | ļ | - 09 |
| | DATE 3-23-11 | TIME 1230 | SAMPLII PERFOR | | 1 Y Sun. | l Pa | L tel | | | | | | RESULTS NEEDED NO LATER THAN | Standard | | |
| RELEASED BY | Li) | Path | | | | | | | TIME 1425 | - [| RECE | IVED BY | Jonne C | Cartesi | DATE DATE | /11 1425 |
| RELEASED BY | 18111 | | Cen | Ro | ei, |) | | | TIME 1300 | | RECE | IVED BY | | | DATE 3/24/ | TIME 1300 |
| RELEASED BY | - E | | | | | | | | TIME | , I | 1 | IVED BY | pith ad | Cen | 3/25 | TIME 11 14 03 |
| SHIPPED VIA | | | | | | | | | TIME SEN | T | COOL | ER# (| | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | ' |



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

ANALYTICAL REPORT

CH2M Hill 1000 Wilshire Boulevard Los Angeles, CA 90017 Attn: Daniel Jablonski

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

Date Received: 05/17/11

Job: KMEP DFSP Norwalk

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

| | | Parameter | Concentr | ation | Reporting Limit | Date Extracted | Date Analyzed |
|--------------|-----------------|---|-----------|-------|--------------------------------|-----------------------|----------------------|
| Client ID: | GMW-0-15 | | Concent | anon | Diffit | Extracted | 7 mary 200 |
| Lab ID: | CHH11051705-01A | TPH-E (Fuel Product) | 1.6 | ** | 0.10 mg/L | 05/20/11 | 05/20/11 |
| Date Sampled | 05/13/11 10:32 | Surr: Nonane | 109 | | (49-145) %REC | 05/20/11 | 05/20/11 |
| • | | TPH-P (GRO) | 1.3 | | 0.20 mg/L | 05/19/11 | 05/19/11 |
| | | Surr: 1,2-Dichloroethane-d4 | 101 | | (70-130) %REC | 05/19/11 | 05/19/11 |
| | | Surr: Toluene-d8 | 101 | | (70-130) %REC | 05/19/11 | 05/19/11 |
| | | Surr: 4-Bromofluorobenzene | 93 | | (70-130) %REC | 05/19/11 | 05/19/11 |
| Client ID: | GMW-O-16 | | | | (| | |
| Lab ID: | CHH11051705-02A | TPH-E (Fuel Product) | ND | | 0.10 mg/L | 05/20/11 | 05/20/11 |
| Date Sampled | 05/13/11 09:51 | Surr: Nonane | 108 | | (49-145) %REC | 05/20/11 | 05/20/11 |
| • | | TPH-P (GRO) | ND | | 0.050 mg/L | 05/19/11 | 05/19/11 |
| | | Surr: 1,2-Dichloroethane-d4 | 98 | | (70-130) %REC | 05/19/11 | 05/19/11 |
| | | Surr: Toluene-d8 | 102 | | (70-130) %REC | 05/19/11 | 05/19/11 |
| | | Surr: 4-Bromofluorobenzene | 95 | | (70-130) %REC | 05/19/11 | 05/19/11 |
| Client ID: | GMW-O-18 | | | | (10 100) /0100 | 00/13/11 | 00/15/11 |
| Lab ID: | CHH11051705-03A | TPH-E (Fuel Product) | 0.23 | * | 0.10 mg/L | 05/20/11 | 05/20/11 |
| Date Sampled | 05/13/11 07:39 | Surr: Nonane | 87 | | (49-145) %REC | 05/20/11 | 05/20/11 |
| out sumpred | 05/15/11 07.57 | TPH-P (GRO) | ND | 0 | 0.10 mg/L | 05/19/11 | 05/19/11 |
| | | Surr: 1,2-Dichloroethane-d4 | 97 | O | (70-130) %REC | 05/19/11 | 05/19/11 |
| | | Surr: Toluene-d8 | 102 | | (70-130) %REC | 05/19/11 | 05/19/11 |
| | | Surr: 4-Bromofluorobenzene | 92 | | (70-130) %REC | 05/19/11 | 05/19/11 |
| Client ID: | GMW-O-19 | | ,2 | | (70 150) 701dEe | 03/17/11 | 03/17/11 |
| Lab ID : | CHH11051705-04A | TPH-E (Fuel Product) | ND | | 0.10 mg/L | 05/20/11 | 05/20/11 |
| Date Sampled | 05/13/11 09:02 | Surr: Nonane | 91 | | (49-145) %REC | 05/20/11 | 05/20/11 |
| Date Sumpled | 03/13/11 07:02 | TPH-P (GRO) | ND | | 0.050 mg/L | 05/19/11 | 05/19/11 |
| | | Surr: 1,2-Dichloroethane-d4 | 101 | | (70-130) %REC | 05/19/11 | 05/19/11 |
| | | Surr: Toluene-d8 | 103 | | (70-130) %REC | 05/19/11 | 05/19/11 |
| | | Surr: 4-Bromofluorobenzene | 94 | | (70-130) %REC | 05/19/11 | 05/19/11 |
| Client ID: | GMW-36 | | 71 | | (70°150) WILLE | 03/17/11 | 03/17/11 |
| Lab ID: | CHH11051705-05A | TPH-E (Fuel Product) | 11 | ** | 0.10 mg/L | 05/20/11 | 05/20/11 |
| Date Sampled | 05/13/11 11:03 | Surr: Nonane | 115 | | (49-145) %REC | 05/20/11 | 05/20/11 |
| Date Samplea | 03/13/11 11:03 | TPH-P (GRO) | 13 | | 2.0 mg/L | 05/19/11 | 05/19/11 |
| | | Surr: 1,2-Dichloroethane-d4 | 99 | | (70-130) %REC | 05/19/11 | 05/19/11 |
| | | Surr: Toluene-d8 | 101 | | (70-130) %REC | 05/19/11 | 05/19/11 |
| | | Surr: 4-Bromofluorobenzene | 91 | | (70-130) %REC | 05/19/11 | 05/19/11 |
| Client ID: | PZ-5 | S accordance in the contraction of the contraction | 71 | | (70-130) /BREE | 03/13/11 | 03/19/11 |
| Lab ID : | CHH11051705-06A | TPH-E (Fuel Product) | 0.83 | ** | 0.10 mg/L | 05/20/11 | 05/20/11 |
| Date Sampled | 05/13/11 08:14 | Surr: Nonane | 84 | | (49-145) %REC | 05/20/11 | |
| sare sampled | U. 10/11 UU.IT | TPH-P (GRO) | 2.0 | | 0.50 mg/L | 05/19/11 | 05/20/11 05/19/11 |
| | | Surr: 1,2-Dichloroethane-d4 | 2.0 97 | | 0.30 mg/L (70-130) %REC | 05/19/11 | 05/19/11 |
| | | Surr: Toluene-d8 | 100 | | (70-130) %REC (70-130) %REC | 05/19/11 | |
| | | Surr: 4-Bromofluorobenzene | 92 | | (70-130) %REC | 05/19/11 | 05/19/11 |
| | | | 74 | | (70-130) 70REC | U3/1 3 /11 | 05/19/11 |

KMEP DFSP Norwalk Page 1 of 2



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| 0.75 ** | 0.10 mg/L | 05/20/11 | 05/20/11 |
|---------|--------------------------------|--|--|
| 109 | (49-145) %REC | 05/20/11 | 05/20/11 |
| 2.2 | 0.50 mg/L | 05/19/11 | 05/19/11 |
| . 99 | (70-130) %REC | 05/19/11 | 05/19/11 |
| 101 | (70-130) %REC | 05/19/11 | 05/19/11 |
| e 91 | (70-130) %REC | 05/19/11 | 05/19/11 |
| | 4 | | |
| ND | 0.10 mg/L | 05/20/11 | 05/20/11 |
| 114 | (49-145) %REC | 05/20/11 | 05/20/11 |
| ND | 0.050 mg/L | 05/19/11 | 05/19/11 |
| 97 | (70-130) %REC | 05/19/11 | 05/19/11 |
| 103 | (70-130) %REC | 05/19/11 | 05/19/11 |
| e 97 | (70-130) %REC | 05/19/11 | 05/19/11 |
| | ND 114 ND 4 97 103 | 109 (49-145) %REC 2.2 0.50 mg/L 3.99 (70-130) %REC 101 (70-130) %REC 101 (70-130) %REC 101 (49-145) %REC ND 0.10 mg/L 114 (49-145) %REC ND 0.050 mg/L 4 97 (70-130) %REC 103 (70-130) %REC | 109 (49-145) %REC 05/20/11 2.2 0.50 mg/L 05/19/11 3 99 (70-130) %REC 05/19/11 101 (70-130) %REC 05/19/11 e 91 (70-130) %REC 05/19/11 ND 0.10 mg/L 05/20/11 114 (49-145) %REC 05/20/11 ND 0.050 mg/L 05/19/11 4 97 (70-130) %REC 05/19/11 5 97 (70-130) %REC 05/19/11 103 (70-130) %REC 05/19/11 |

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

Gasoline Range Organics (GRO) C4-C13

O = Reporting Limits were increased due to sample foaming.

ND = Not Detected

Roger Scholl Kandy Saulaur

Walter Firehour

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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

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

Report Date

^{*}TPH-E (Fuel Product) concentration may include contributions from heavier-end hydrocarbons (e.g. motor oil) that elute in the TPH-E (Fuel Product) range.



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ANALYTICAL REPORT

CH2M Hill

1000 Wilshire Boulevard Los Angeles, CA 90017

KMEP DFSP Norwalk

Attn:

Daniel Jablonski

Phone: (213) 228-8271

Fax:

(714) 424-2135

Alpha Analytical Number: CHH11051705-01A

Client I.D. Number: GMW-O-15

Sampled: 05/13/11 10:32

Received: 05/17/11 Extracted: 05/19/11

Analyzed: 05/19/11

Volatile Organics by GC/MS EPA Method SW8260B

| | | | Repo | rting | | | | R | eporting |
|----|-----------------------------------|---------------|------|--------------|----|------------------------------------|---------------|----------|----------|
| | Compound | Concentration | Lim | nit | | 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 | 22 | 1.0 | μg/L |
| 3 | Vinyl chloride | ND | 2.0 | μg/L | 47 | m,p-Xylene | 100 | 1.0 | μg/L |
| 4 | Chloroethane | ND | 2.0 | μg/L | 48 | Bromoform | ND | 2.0 | μg/L |
| 5 | Bromomethane | ND | 8.0 | μg/L | 49 | Styrene | ND | 2.0 | μg/L |
| 6 | Trichlorofluoromethane | ND | 10 | µg/L | 50 | o-Xvlene | 27 | 1.0 | µg/L |
| 7 | Acetone | ND | 80 | µg/L | 51 | 1,1,2,2-Tetrachloroethane | ND | 2.0 | µg/L |
| 8 | 1,1-Dichloroethene | ND | 2.0 | μg/L | 52 | 1,2,3-Trichloropropane | ND | 8.0 | μg/L |
| 9 | Tertiary Butyl Alcohol (TBA) | 6,600 * | 40 | μg/L | 53 | Isopropylbenzene | ND | 2.0 | μg/L |
| 10 | Dichloromethane | ND | 8.0 | μg/L | 54 | Bromobenzene | ND | 2.0 | μg/L |
| 11 | Freon-113 | ND | 10 | μg/L | 55 | n-Propylbenzene | 3.1 | 2.0 | μg/L |
| 12 | Carbon disulfide | ND | 10 | μg/L | 56 | 4-Chlorotoluene | ND | 2.0 | μg/L |
| 13 | trans-1,2-Dichloroethene | ND | 2.0 | μg/L | 57 | 2-Chlorotoluene | ND | 2.0 | μg/L |
| 14 | Methyl tert-butyl ether (MTBE) | 350 | 1.0 | μg/L | 58 | 1,3,5-Trimethylbenzene | 11 | 2.0 | μg/L |
| 15 | 1,1-Dichloroethane | ND | 2.0 | μg/L | 59 | tert-Butylbenzene | ND | 2.0 | μg/L |
| 16 | Vinyl acetate | . ND | 200 | μg/L | 60 | 1,2,4-Trimethylbenzene | 31 | 2.0 | μg/L |
| 17 | 2-Butanone (MEK) | ND | 40 | μg/L | 61 | sec-Butylbenzene | ND | 2.0 | μg/L |
| 18 | Di-isopropyl Ether (DIPE) | ND | 2.0 | μg/L | 62 | 1,3-Dichlorobenzene | ND | 2.0 | μg/L |
| 19 | cis-1,2-Dichloroethene | ND | 2.0 | μg/L | 63 | 1.4-Dichlorobenzene | ND | 2.0 | μg/L |
| 20 | Bromochloromethane | ND | 2.0 | μg/L | 64 | 4-Isopropyltoluene | ND | 2.0 | μg/L |
| 21 | Chloroform | ND | 2.0 | μg/L | 65 | 1.2-Dichlorobenzene | ND | 2.0 | μg/L |
| 22 | Ethyl Tertiary Butyl Ether (ETBE) | ND | 2.0 | μg/L | 66 | n-Butylbenzene | ND | 2.0 | μg/L |
| 23 | 2,2-Dichloropropane | ND | 2.0 | μg/L | 67 | 1,2-Dibromo-3-chloropropane (DBCP) | ND | 12 | μg/L |
| 24 | 1,2-Dichloroethane | ND | 2.0 | μg/L | 68 | 1,2,4-Trichlorobenzene | ND | 8.0 | μg/L |
| 25 | 1,1,1-Trichloroethane | : ND | 2.0 | µg/L | 69 | Naphthalene | ND | 10 | μg/L |
| 26 | 1,1-Dichloropropene | ND | 2.0 | μg/L | 70 | 1.2.3-Trichlorobenzene | ND · | 8.0 | μg/L |
| 27 | Carbon tetrachloride | ND | 2.0 | μg/L | 71 | Surr: 1,2-Dichloroethane-d4 | 101 | (70-130) | %REC |
| 28 | Benzene | 200 | 1.0 | μg/L μg/L | 72 | Surr: Toluene-d8 | 101 | (70-130) | %REC |
| 29 | Tertiary Amyl Methyl Ether (TAME) | 3.6 | 2.0 | μg/L μg/L | 73 | Surr: 4-Bromofluorobenzene | 93 | (70-130) | %REC |
| 30 | Dibromomethane | ND | 2.0 | μg/L μg/L | 13 | Juli. 4-Digitionagroberizere | 33 | (70-130) | MILLO |
| 31 | 1,2-Dichloropropane | ND | 2.0 | | | | | | |
| 32 | Trichloroethene | ND | 2.0 | μg/L μg/L | | | | | |
| 33 | Bromodichloromethane | ND | 2.0 | µg/⊾ ⊔a/l | | | | | |

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

ND

ND

ND

ND

ND

ND

ND

ND

ND = Not Detected

4-Methyl-2-pentanone (MIBK)

cis-1,3-Dichloropropene

1.1.2-Trichloroethane

1,3-Dichloropropane

Dibromochloromethane

Tetrachloroethene

1,2-Dibromoethane (EDB)

1,1,1,2-Tetrachloroethane

Toluene

2-Hexanone

trans-1,3-Dichloropropene

35

36

38

40

43

Roger Scholl

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

5/24/11

Report Date

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μg/L

μg/L

μg/L

μg/L

µg/L

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



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ANALYTICAL REPORT

CH2M Hill

1000 Wilshire Boulevard Los Angeles, CA 90017

KMEP DFSP Norwalk

Attn: Phone:

Daniel Jablonski (213) 228-8271

Fax:

(714) 424-2135

Alpha Analytical Number: CHH11051705-02A

Client I.D. Number: GMW-O-16

Sampled: 05/13/11 09:51

Received: 05/17/11 Extracted: 05/19/11 Analyzed: 05/19/11

Volatile Organics by GC/MS EPA Method SW8260B

| Compound Concentration 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 1.0 μg/L 49 Styrene ND 1.0 μg/L 6 Trichlorofluoromethane ND 10 μg/L 50 o-Xylene ND 0.50 μg/L 8 1.1-Dichloroethene ND 1.0 μg/L 50 i.1,2,2-Tetachloroethane ND 1.0 μg/L 8 1.1-Dichloroethane ND 1.0 μg/L <th></th> <th></th> <th></th> <th>Repo</th> <th>rting</th> <th></th> <th></th> <th></th> <th>R</th> <th>eporting</th> | | | | Repo | rting | | | | R | eporting |
|---|----|-----------------------------------|---------------|------|--------------|----|--|---------------|----------|----------|
| Chloromethane | | Compound | Concentration | Lim | nit | | Compound | Concentration | | Limit |
| 2 Chloromethane ND 2.0 μg/L 46 Ethylbenzene ND 0.50 μg/L 3 Vinyl chloride ND 0.50 μg/L 47 m,p-Xylene ND 0.50 μg/L 4 Chloroethane ND 1.0 μg/L 48 Bromoform ND 1.0 μg/L 5 Bromomethane ND 2.0 μg/L 49 Styrene ND 1.0 μg/L 6 Trichlorofluoromethane ND 10 μg/L 50 o-Xylene ND 0.50 μg/L 7 Acetone ND 20 μg/L 51 1,1,2,2-Tetrachloroethane ND 0.50 μg/L 8 1,1-Dichloroethene ND 1.0 μg/L 52 1,2,3-Trichloroptoptane ND 1.0 μg/L 9 Tertiary Butyl Alcohol (TBA) ND 10 μg/L 53 lsopropylbenzene ND 1.0 μg/L 10 Dich | 1 | Dichlorodifluoromethane | ND | 1.0 | ua/L | 45 | Chlorobenzene | ND | 1.0 | ua/I |
| Vinyl chloride | 2 | Chloromethane | ND | | | | | | | |
| Chloroethane | 3 | Vinyl chloride | ND | | | | | | i | |
| Styrene ND 1.0 μg/L 49 Styrene ND 1.0 μg/L | 4 | Chloroethane | : ND | | | | | | | |
| 6 Trichlorofluoromethane ND 10 μg/L 50 o-Xylene ND 0.50 μg/L 7 Acetone ND 20 μg/L 51 1,1,2,2-Tetrachloroethane ND 1.0 μg/L 8 1,1-Dichloroethene ND 1.0 μg/L 52 1,2,3-Trichloropropane ND 2.0 μg/L 9 Tertiary Butyl Alcohol (TBA) ND 10 μg/L 53 Isopropylbenzene ND 1.0 μg/L 10 Dichloromethane ND 5.0 μg/L 54 Bromobenzene ND 1.0 μg/L 11 Freon-113 ND 10 μg/L 55 n-Propylbenzene ND 1.0 μg/L 12 Carbon disulfide ND 2.5 μg/L 56 4-Chlorotoluene ND 1.0 μg/L 13 trans-1,2-Dichloroethene ND 1.0 μg/L 57 2-Chlorotoluene ND 1.0 μg/L 14 Methyl tert-butyl ether (MTBE) 1.8 0.50 μg/L 58 1,3,5-Trimethylbenzene ND 1.0 μg/L 15 1,1-Dichloroethane ND 1.0 μg/L 59 tert-Butylbenzene ND 1.0 μg/L 16 Vinyl acetate ND 1.0 μg/L 60 1,2,4-Trimethylbenzene ND | 5 | Bromomethane | ND | 1 | | | | | 1 | |
| Acetone ND 20 μg/L 51 1,1,2,2-Tetrachloroethane ND 1.0 μg/L | 6 | Trichlorofluoromethane | ND | | | | | | | |
| 8 1,1-Dichloroethene ND 1.0 µg/L 52 1,2,3-Trichloropropane ND 2.0 µg/L 9 Image: Legislation of the control of t | 7 | Acetone | ND | | | | | | | |
| 9 Tertiary Butyl Alcohol (TBA) ND 10 μg/L 53 Isopropylbenzene ND 1.0 μg/L 10 Dichloromethane ND 5.0 μg/L 54 Bromobenzene ND 1.0 μg/L 11 Freon-113 ND 10 μg/L 55 n-Propylbenzene ND 1.0 μg/L 12 Carbon disulfide ND 2.5 μg/L 56 4-Chlorotoluene ND 1.0 μg/L 13 trans-1,2-Dichloroethene ND 1.0 μg/L 57 2-Chlorotoluene ND 1.0 μg/L 14 Methyl tert-butyl ether (MTBE) 1.8 0.50 μg/L 58 1,3,5-Trimethylbenzene ND 1.0 μg/L 15 1,1-Dichloroethane ND 1.0 μg/L 59 tert-Butylbenzene ND 1.0 μg/L 16 Vinyl acetate ND 50 μg/L 60 1,2,4-Trimethylbenzene ND 1.0 μg/L 17 2-Butanone (MEK) ND 10 μg/L 61 sec-Butylbenzene ND 1.0 μg/L | 8 | 1,1-Dichloroethene | ND | | | | | | | |
| 10 Dichloromethane ND 5.0 μg/L 54 Bromobenzene ND 1.0 μg/L 11 Freon-113 ND 10 μg/L 55 n-Propylbenzene ND 1.0 μg/L 12 Carbon disulfide ND 2.5 μg/L 56 4-Chlorotoluene ND 1.0 μg/L 13 trans-1,2-Dichloroethene ND 1.0 μg/L 57 2-Chlorotoluene ND 1.0 μg/L 14 Methyl tert-butyl ether (MTBE) 1.8 0.50 μg/L 58 1,3,5-Trimethylbenzene ND 1.0 μg/L 15 1,1-Dichloroethane ND 1.0 μg/L 59 tert-Butylbenzene ND 1.0 μg/L 16 Vinyl acetate ND 50 μg/L 60 1,2,4-Trimethylbenzene ND 1.0 μg/L 17 2-Butanone (MEK) ND 10 μg/L 61 sec-Butylbenzene ND 1.0 μg/L < | 9 | Tertiary Butyl Alcohol (TBA) | ND | | | | | | 1 | |
| 11 Freon-113 ND 10 μg/L 55 n-Propylbenzene ND 1.0 μg/L 12 Carbon disulfide ND 2.5 μg/L 56 4-Chlorotoluene ND 1.0 μg/L 13 trans-1,2-Dichloroethene ND 1.0 μg/L 57 2-Chlorotoluene ND 1.0 μg/L 14 Methyl tert-butyl ether (MTBE) 1.8 0.50 μg/L 58 1,3,5-Trimethylbenzene ND 1.0 μg/L 15 1,1-Dichloroethane ND 1.0 μg/L 59 tert-Butylbenzene ND 1.0 μg/L 16 Vinyl acetate ND 50 μg/L 60 1,2,4-Trimethylbenzene ND 1.0 μg/L 17 2-Butanone (MEK) ND 10 μg/L 61 sec-Butylbenzene ND 1.0 μg/L 18 ND ND 10 μg/L 61 sec-Butylbenzene ND 1.0 μg/L 19 ND 1.0 μg/L 1.0 μg/L 1.0 μg/L 10 ND 1.0 μg/L 1.0 μg/L 1.0 μg/L 11 ND 1.0 μg/L 1.0 μg/L 1.0 μg/L 12 ND 1.0 μg/L 1.0 μg/L 1.0 μg/L 13 ND 1.0 μg/L 1.0 μg/L 1.0 μg/L 14 ND 1.0 μg/L 1.0 μg/L 1.0 μg/L 15 ND 1.0 μg/L 1.0 μg/L 1.0 μg/L 16 ND 1.0 μg/L 1.0 μg/L 1.0 μg/L 17 ND 1.0 μg/L 1.0 μg/L 1.0 μg/L 18 ND 1.0 μg/L 1.0 μg/L 1.0 μg/L 1.0 μg/L 18 ND 1.0 μg/L 1.0 μg | 10 | Dichloromethane | ND | | | | | | | |
| 12 Carbon disulfide ND 2.5 μg/L 56 4-Chlorotoluene ND 1.0 μg/L 13 trans-1,2-Dichloroethene ND 1.0 μg/L 57 2-Chlorotoluene ND 1.0 μg/L 14 Methyl tert-butyl ether (MTBE) 1.8 0.50 μg/L 58 1,3,5-Trimethylbenzene ND 1.0 μg/L 15 1,1-Dichloroethane ND 1.0 μg/L 59 tert-Butylbenzene ND 1.0 μg/L 16 Vinyl acetate ND 9g/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 | 11 | Freon-113 | ND | | | - | | | | |
| 13 trans-1,2-Dichloroethene ND 1.0 μg/L 57 2-Chlorotoluene ND 1.0 μg/L 14 Methyl tert-butyl ether (MTBE) 1.8 0.50 μg/L 58 1,3,5-Trimethylbenzene ND 1.0 μg/L 15 1,1-Dichloroethane ND 1.0 μg/L 59 tert-Butylbenzene ND 1.0 μg/L 16 Vinyl acetate ND 50 μg/L 60 1,2,4-Trimethylbenzene ND 1.0 μg/L 17 2-Butanone (MEK) ND 10 μg/L 61 sec-Butylbenzene ND 1.0 μg/L 18 Discoveryl Ether (ODE) ND 1.0 μg/L 61 sec-Butylbenzene ND 1.0 μg/L | 12 | Carbon disulfide | : ND | | | | | | | |
| 14 Methyl tert-butyl ether (MTBE) 1.8 0.50 μg/L 58 1,3,5-Trimethylbenzene ND 1.0 μg/L 1.0 μg | 13 | trans-1,2-Dichloroethene | ND | 1 | | | | | | |
| 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 | 14 | Methyl tert-butyl ether (MTBE) | | | | | | | | |
| 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 | 15 | | ND | | | | | | 1 | . • |
| 17 2-Butanone (MEK) ND 10 µg/L 61 sec-Butylbenzene ND 1.0 µg/L | 16 | Vinyl acetate | ND | | | | The state of the s | | 1 | |
| 10 Di incorred Ethan (DIDE) | 17 | 2-Butanone (MEK) | • | 1 | | | | | | |
| | 18 | Di-isopropyl Ether (DIPE) | | 1 | | | • | | | |
| 19 cis-1,2-Dichloroethene ND 1.0 µg/L 63 1,4-Dichlorobenzene ND 1.0 µg/L | 19 | cis-1,2-Dichloroethene | | | | | | | | |
| 20 Bromochloromethane ND 1.0 µg/L 64 4-Isopropyttoluene ND 1.0 µg/L | 20 | Bromochloromethane | | | | | | | | |
| 21 Chloroform ND 1.0 μg/L 65 1,2-Dichlorobenzene ND 1.0 μg/L | 21 | Chloroform | 1 | 1 | | | | | 1 | |
| 22 Ethyl Tertion, But of Ethyl (FTDE) | 22 | Ethyl Tertiary Butyl Ether (ETBE) | 1 | | | | , | | i | |
| 22 2 Dichloropropes | 23 | | | | | | | | | |
| 24 4.2 Bioklandshare | 24 | | 1 | | | | | | | |
| 25 1.1.1 Trishleresthere | 25 | 1.1.1-Trichloroethane | , | | | | .,_, | | | |
| 26 44 Diables and the part of Naphillaleite | 26 | | I . | 1 | | | | | | |
| 20 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 | 27 | | | 1 | | | | | | |
| 28 Benzene ND 0.50 µg/L 72 Surr: Toluene-d8 102 (70-130) %REC | 28 | | | | | | | | . , , | |
| 29 Tertiary Amyl Methyl Ether (TAME) ND 1.0 µg/L 73 Surr: 4-Bromofluorobenzene 95 (70-130) %REC | 29 | Tertiary Amyl Methyl Ether (TAME) | | | | | | | | |
| 30 Dibromomethane ND 1.0 µg/L | | | | | | 13 | Suit. 4-biomoliuorobenzene | 95 | (70-130) | %REC |
| 31 1,2-Dichloropropane ND 1.0 µg/L | | | | | | | | | | |
| 1.0 µg/L | | | | | | | | | | |
| 1.0 pg/L | | | | | μg/L ug/l | | | | | |
| 33 Bromodichloromethane ND 1.0 μg/L 34 4-Methyl-2-pentanone (MiBK) ND 10 μg/L | 34 | | | | µg/L | | | | | |

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

ND

ND

ND

ND

ND

ND = Not Detected

cis-1,3-Dichloropropene

1,1,2-Trichloroethane

1,3-Dichloropropane

Tetrachloroethene

Dibromochloromethane

1,2-Dibromoethane (EDB)

1,1,1,2-Tetrachloroethane

Toluene

2-Hexanone

trans-1,3-Dichloropropene

35

36

37

38

39

40

42

0.50

1.0

5.0

1.0

2.0

1.0

5/24/11 Report Date

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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



Alpha Analytical Number: CHH11051705-03A

Alpha Analytical, Inc.

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

ANALYTICAL REPORT

CH2M Hill

1000 Wilshire Boulevard Los Angeles, CA 90017

Job: KMEP DFSP Norwalk

Client I.D. Number: GMW-O-18

Attn:

Daniel Jablonski

Phone:

(213) 228-8271

Fax:

(714) 424-2135

Sampled: 05/13/11 07:39

Received: 05/17/11 Extracted: 05/19/11 Analyzed: 05/19/11

Volatile Organics by GC/MS EPA Method SW8260B

| | | | Repo | rting | | | | Re | eporting |
|----|-----------------------------------|---------------|------|-------|----|------------------------------------|---------------|----------|----------|
| | Compound | Concentration | Lim | nit | | Compound | Concentration | | Limit |
| 1 | Dichlorodifluoromethane | ND | 1.0 | μg/L | 45 | Chlorobenzene | ND | 1.0 | μg/L |
| 2 | Chloromethane | ND | 4.0 | µg/L | 46 | Ethylbenzene | ND | 0.50 | µg/L |
| 3 | Vinyl chloride | ND | 1.0 | μg/L | 47 | m,p-Xylene | ND | 0.50 | μg/L |
| 4 | Chloroethane | ND | 1.0 | μg/L | 48 | Bromoform | ND | 1.0 | μg/L |
| 5 | Bromomethane | ND | 4.0 | μg/L | 49 | Styrene | ND | 1.0 | μg/L |
| 6 | Trichlorofluoromethane | ND | 10 | μg/L | 50 | o-Xylene | ND | 0.50 | μg/L |
| 7 | Acetone | ND | 40 | μg/L | 51 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | μg/L |
| 8 | 1,1-Dichloroethene | ND | 1.0 | μg/L | 52 | 1,2,3-Trichloropropane | ND | 4.0 | μg/L |
| 9 | Tertiary Butyl Alcohol (TBA) | ND | 10 | μg/L | 53 | Isopropylbenzene | ND | 1.0 | μg/L |
| 10 | Dichloromethane | ND | 5.0 | μg/L | 54 | Bromobenzene | ND | 1.0 | μg/L |
| 11 | Freon-113 | ND | 10 | μg/L | 55 | n-Propylbenzene | ND | 1.0 | μg/L |
| 12 | Carbon disulfide | ND | 5.0 | μg/L | 56 | 4-Chlorotoluene | ND | 1.0 | μg/L |
| 13 | trans-1,2-Dichloroethene | ND | 1.0 | μg/L | 57 | 2-Chlorotoluene | ND | 1.0 | μg/L |
| 14 | Methyl tert-butyl ether (MTBE) | ND | 0.50 | μg/L | 58 | 1,3,5-Trimethylbenzene | ND | 1.0 | μg/L |
| 15 | 1,1-Dichloroethane | ND | 1.0 | μg/L | 59 | tert-Butylbenzene | ND · | 1.0 | μg/L |
| 16 | Vinyl acetate | ND | 100 | μg/L | 60 | 1,2,4-Trimethylbenzene | ND | 1.0 | μg/L |
| 17 | 2-Butanone (MEK) | ND | 20 | μg/L | 61 | sec-Butylbenzene | ND | 1.0 | µg/L |
| 18 | Di-isopropyl Ether (DIPE) | ND | 1.0 | μg/L | 62 | 1,3-Dichlorobenzene | ND | 1.0 | μg/L |
| 19 | cis-1,2-Dichloroethene | ND | 1.0 | μg/L | 63 | 1,4-Dichlorobenzene | ND | 1.0 | μg/L |
| 20 | Bromochloromethane | ND | 1.0 | μg/L | 64 | 4-Isopropyltoluene | ND | 1.0 | µg/L |
| 21 | Chloroform | ND | 1.0 | μg/L | 65 | 1,2-Dichlorobenzene | ND | 1.0 | μg/L |
| 22 | Ethyl Tertiary Butyl Ether (ETBE) | ND | 1.0 | μg/L | 66 | n-Butylbenzene | ND | 1.0 | μg/L |
| 23 | 2,2-Dichloropropane | ND | 1.0 | μg/L | 67 | 1,2-Dibromo-3-chloropropane (DBCP) | ND | 6.0 | μg/L |
| 24 | 1,2-Dichloroethane | ND | 1.0 | μg/L | 68 | 1,2,4-Trichlorobenzene | ND | 4.0 | µg/L |
| 25 | 1,1,1-Trichloroethane | ND | 1.0 | μg/L | 69 | Naphthalene | ND | 10 | μg/L |
| 26 | 1,1-Dichloropropene | ND | 1.0 | μg/L | 70 | 1,2,3-Trichlorobenzene | ND | 4.0 | μg/L |
| 27 | Carbon tetrachloride | - ND | 1.0 | μg/L | 71 | Surr: 1,2-Dichloroethane-d4 | 97 | (70-130) | %REC |
| 28 | Benzene | ND | 0.50 | μg/L | 72 | Surr: Toluene-d8 | 102 | (70-130) | %REC |
| 29 | Tertiary Amyl Methyl Ether (TAME) | ND | 1.0 | μg/L | 73 | Surr: 4-Bromofluorobenzene | 92 | (70-130) | %REC |
| 30 | Dibromomethane | ND | 1.0 | μg/L | | | | | |

Some Reporting Limits were increased due to sample foaming.

ND = Not Detected

1,2-Dichloropropane

Bromodichloromethane

cis-1.3-Dichloropropene

1,1,2-Trichloroethane

1.3-Dichloropropane

Tetrachloroethene

Dibromochloromethane

1,2-Dibromoethane (EDB)

1,1,1,2-Tetrachloroethane

Toluene

2-Hexanone

trans-1,3-Dichloropropene

4-Methyl-2-pentanone (MIBK)

Trichloroethene

32

33

35

36

37

38

39

40

41

42

Roger Scholl

ND

Kandy Saulner.

1.0

1.0

1.0

10

1.0

1.0 µg/L

1.0 µg/L

1.0 µg/L

2.0 µg/L

1.0

µg/L

µq/L

Walter Hirihour

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer 5/24/1

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

Report Date



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ANALYTICAL REPORT

CH2M Hill

1000 Wilshire Boulevard Los Angeles, CA 90017

KMEP DFSP Norwalk

Client I.D. Number: GMW-O-19

Alpha Analytical Number: CHH11051705-04A

Attn:

Daniel Jablonski

Phone:

(213) 228-8271

Fax:

(714) 424-2135

Sampled: 05/13/11 09:02

Received: 05/17/11 Extracted: 05/19/11

Analyzed: 05/19/11

Volatile Organics by GC/MS EPA Method SW8260B

| | | | Repo | rting | | | | R | eporting |
|----|-----------------------------------|---------------|------|-------|-----|------------------------------------|---------------|----------|----------|
| | Compound | Concentration | Lim | nit | | 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 | 20 | μg/L | 51 | 1.1.2.2-Tetrachloroethane | ND | 1.0 | μg/L |
| 8 | 1,1-Dichloroethene | ND | 1.0 | μg/L | 52 | 1,2,3-Trichloropropane | ND | 2.0 | μg/L |
| 9 | Tertiary Butyl Alcohol (TBA) | ND | 10 | μg/L | 53 | Isopropylbenzene | ND | 1.0 | μg/L |
| 10 | Dichloromethane | ND | 5.0 | μg/L | 54 | Bromobenzene | ND | 1.0 | μg/L |
| 11 | Freon-113 | ND | 10 | μg/L | 55 | n-Propylbenzene | ND | 1.0 | μg/L |
| 12 | Carbon disulfide | ND | 2.5 | μg/L | 56 | 4-Chlorotoluene | ND | 1.0 | μg/L |
| 13 | trans-1,2-Dichloroethene | ND | 1.0 | μg/L | 57 | 2-Chlorotoluene | ND | 1.0 | μg/L |
| 14 | Methyl tert-butyl ether (MTBE) | : ND | 0.50 | μg/L | 58 | 1,3,5-Trimethylbenzene | ND | 1.0 | μg/L |
| 15 | 1,1-Dichloroethane | ND | 1.0 | μg/L | 59 | tert-Butylbenzene | ND | 1.0 | µg/L |
| 16 | Vinyl acetate | ND | 50 | μg/L | 60 | 1,2,4-Trimethylbenzene | ND | 1.0 | µg/L |
| 17 | 2-Butanone (MEK) | ND | 10 | µg/L | 61 | sec-Butylbenzene | ND | 1.0 | μg/L |
| 18 | Di-isopropyl Ether (DIPE) | ND | 1.0 | μg/L | 62 | 1,3-Dichlorobenzene | ND | 1.0 | μg/L |
| 19 | cis-1,2-Dichloroethene | ND | 1.0 | µg/L | 63 | 1,4-Dichlorobenzene | ND | 1.0 | μg/L |
| 20 | Bromochloromethane | ND | 1.0 | µg/L | 64 | 4-isopropyltoluene | ND | 1.0 | μg/L |
| 21 | Chloroform | ND | 1.0 | μg/L | 65 | 1.2-Dichlorobenzene | ND | 1.0 | μg/L |
| 22 | Ethyl Tertiary Butyl Ether (ETBE) | ND | 1.0 | μg/L | 66 | n-Butylbenzene | ND | 1.0 | µg/L |
| 23 | 2.2-Dichloropropane | ND | 1.0 | μg/L | 67 | 1.2-Dibromo-3-chloropropane (DBCP) | ND | 5.0 | µg/L |
| 24 | 1,2-Dichloroethane | : ND | 0.50 | µg/L | 68 | 1,2,4-Trichlorobenzene | ND | 2.0 | µg/L |
| 25 | 1,1,1-Trichloroethane | ND | 1.0 | µg/L | 69 | Naphthalene | ND | 10 | μg/L |
| 26 | 1,1-Dichloropropene | ND | 1.0 | µg/L | 70 | 1.2.3-Trichlorobenzene | ND | 2.0 | μg/L |
| 27 | Carbon tetrachloride | ND · | 1.0 | µg/L | 71 | Surr: 1,2-Dichloroethane-d4 | 101 | (70-130) | %REC |
| 28 | Benzene | ND | 0.50 | μg/L | 72 | Surr: Toluene-d8 | 103 | (70-130) | %REC |
| 29 | Tertiary Amyl Methyl Ether (TAME) | ND | 1.0 | μg/L | 73 | Surr: 4-Bromofluorobenzene | 94 | (70-130) | %REC |
| 30 | Dibromomethane | ND | 1.0 | μg/L | . • | | ** | , () | |
| 31 | 1,2-Dichloropropane | ND | 1.0 | μg/L | | | | | |
| 32 | Trichloroethene | ND . | 1.0 | μg/L | | | | | |
| 33 | Bromodichloromethane | ND | 1.0 | ug/L | | | | | |

ND = Not Detected

4-Methyl-2-pentanone (MIBK)

cis-1,3-Dichloropropene

1,1,2-Trichloroethane

1,3-Dichloropropane

Tetrachloroethene

Dibromochloromethane

1,2-Dibromoethane (EDB)

1,1,1,2-Tetrachloroethane

Toluene

2-Hexanone

trans-1,3-Dichloropropene

35

36

37

38

39

40

42

Roger Scholl

ND

0.50

1.0 μg/L

1.0 µg/L

5.0 ua/L

1.0 ua/L

2.0 µq/L

1.0 μg/L

μg/L

μg/L

µq/L

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer $Sacramento, CA \bullet (916)\ 366-9089\ /\ Las\ Vegas,\ NV \bullet (702)\ 736-7522\ /\ Carson,\ CA \bullet (714)\ 386-2901\ /\ info@alpha-analytical.com$

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.



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ANALYTICAL REPORT

CH2M Hill

1000 Wilshire Boulevard Los Angeles, CA 90017

KMEP DFSP Norwalk

Daniel Jablonski

Phone: (213) 228-8271

Fax: (714) 424-2135

Alpha Analytical Number: CHH11051705-05A

Client I.D. Number: GMW-36

Sampled: 05/13/11 11:03

Received: 05/17/11 Extracted: 05/19/11 Analyzed: 05/19/11

Volatile Organics by GC/MS EPA Method SW8260B

| | | | Repo | rting | | | | R | eporting |
|----|-----------------------------------|---------------|-------|--------------|----|------------------------------------|---------------|----------|----------|
| | Compound | Concentration | Lim | nit | | Compound | Concentration | | Limit |
| 1 | Dichlorodifluoromethane | ND | 20 | μg/L | 45 | Chlorobenzene | ND | 20 | µg/L |
| 2 | Chloromethane | ND | 80 | μg/L | 46 | Ethylbenzene | 93 | 10 | μg/L |
| 3 | Vinyl chloride | ND | 20 | μg/L | 47 | m,p-Xylene | 1.100 | 10 | μg/L |
| 4 | Chloroethane | ND | 20 | μg/L | 48 | Bromoform | ND | 20 | μg/L |
| 5 | Bromomethane | ND | 80 | µg/L | 49 | Styrene | ND | 20 | μg/L |
| 6 | Trichlorofluoromethane | ND | 20 | μg/L | 50 | o-Xylene | 540 | 10 | μg/L |
| 7 | Acetone | ND | 800 | µg/L | 51 | 1,1,2,2-Tetrachioroethane | 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-Chiorotoluene | ND | 20 | μg/L |
| 13 | trans-1,2-Dichloroethene | ND | 20 | μg/L | 57 | 2-Chlorotoluene | ND | 20 | μg/L |
| 14 | Methyl tert-butyl ether (MTBE) | 43 | 10 | μg/L | 58 | 1,3,5-Trimethylbenzene | 84 | 20 | μg/L |
| 15 | 1,1-Dichloroethane | ND | 20 | µg/L | 59 | tert-Butylbenzene | ND | 20 | μg/L |
| 16 | Vinyl acetate | ND | 2,000 | μg/L | 60 | 1,2,4-Trimethylbenzene | 220 | 20 | μg/L |
| 17 | 2-Butanone (MEK) | ND | 400 | µg/L | 61 | sec-Butylbenzene | ND | 20 | μg/L |
| 18 | Di-isopropyl Ether (DIPE) | ND | 20 | μg/L | 62 | 1.3-Dichlorobenzene | ND | 20 | μg/L |
| 19 | cis-1,2-Dichloroethene | ND | 20 | μg/L | 63 | 1.4-Dichlorobenzene | ND | 20 | μg/L |
| 20 | Bromochloromethane | ND | 20 | μg/L | 64 | 4-Isopropyltoluene | ND | 20 | μg/L |
| 21 | Chloroform | ND | 20 | μg/L | 65 | 1.2-Dichlorobenzene | ND | 20 | μg/L |
| 22 | Ethyl Tertiary Butyl Ether (ETBE) | ND | 20 | μg/L | 66 | n-Butylbenzene | ND | 20 | μg/L |
| 23 | 2,2-Dichloropropane | ND | 20 | μg/L | 67 | 1,2-Dibromo-3-chloropropane (DBCP) | ND | 120 | μg/L |
| 24 | 1,2-Dichloroethane | ND | 20 | μg/L | 68 | 1,2,4-Trichlorobenzene | ND | 80 | μg/L |
| 25 | 1,1,1-Trichloroethane | ND | 20 | μg/L | 69 | Naphthalene | 110 | 80 | μg/L |
| 26 | 1,1-Dichloropropene | ND | 20 | μg/L | 70 | 1.2.3-Trichlorobenzene | ND | 80 | μg/L |
| 27 | Carbon tetrachloride | ND | 20 | μg/L | 71 | Surr: 1.2-Dichloroethane-d4 | 99 | (70-130) | %REC |
| 28 | Benzene | 2.300 | 10 | μg/L | 72 | Surr: Toluene-d8 | 101 | (70-130) | %REC |
| 29 | Tertiary Amyl Methyl Ether (TAME) | ND | 20 | μg/L | 73 | Surr: 4-Bromofluorobenzene | 91 | (70-130) | %REC |
| 30 | Dibromomethane | ND | 20 | μg/L | 70 | Carr. 4 Diomondorobenzeno | . | (10-100) | /01 NEO |
| 31 | 1,2-Dichloropropane | ND | 20 | μg/L | | | | | |
| 32 | Trichloroethene | ND | 20 | μg/L μg/L | | | | | |
| 33 | Bromodichloromethane | ND | 20 | μg/L μg/L | | | | | |
| | | | 20 | µg/L | | | | | |

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

ND

2,100

ND = Not Detected

4-Methyl-2-pentanone (MIBK)

cis-1,3-Dichloropropene

1,1,2-Trichloroethane

1,3-Dichloropropane

Dibromochloromethane

Tetrachloroethene

1,2-Dibromoethane (EDB)

1,1,1,2-Tetrachloroethane

Toluene

2-Hexanone

trans-1,3-Dichloropropene

36

37

38

39

40

41

42

43

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

5/24/11 **Report Date**

100

20

20

200

20 μq/L

40 µg/L

20 ug/L



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ANALYTICAL REPORT

CH2M Hill

1000 Wilshire Boulevard Los Angeles, CA 90017

Client I.D. Number: PZ-5

KMEP DFSP Norwalk

Attn:

Daniel Jablonski

Phone:

(213) 228-8271

Fax:

(714) 424-2135

Alpha Analytical Number: CHH11051705-06A

Sampled: 05/13/11 08:14

Received: 05/17/11

Extracted: 05/19/11 Analyzed: 05/19/11

Volatile Organics by GC/MS EPA Method SW8260B

| | | | Repo | rting | | | | R | eporting |
|----|-----------------------------------|---------------|------|-------|----|---------------------------------------|---------------|----------|----------|
| | Compound | Concentration | Lin | nit | | 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 | 25 | 2.5 | μg/L |
| 3 | Vinyl chloride | ND | 5.0 | μg/L | 47 | m.p-Xylene | 16 | 2.5 | μg/L |
| 4 | Chloroethane | ND | 5.0 | μg/L | 48 | Bromoform | ND | 5.0 | μg/L |
| 5 | Bromomethane | ND | 20 | μg/L | 49 | Styrene | ND | 5.0 | μg/L |
| 6 | Trichlorofluoromethane | ND | 10 | μg/L | 50 | o-Xylene | 9.8 | 2.5 | μg/L |
| 7 | Acetone | ND | 200 | μg/L | 51 | 1.1.2.2-Tetrachioroethane | ND | 5.0 | μg/L |
| 8 | 1,1-Dichloroethene | ND | 5.0 | μg/L | 52 | 1,2,3-Trichloropropane | ND | 20 | μg/L |
| 9 | Tertiary Butyl Alcohol (TBA) | 34,000 * | 500 | μg/L | 53 | Isopropylbenzene | ND | 5.0 | μg/L |
| 10 | Dichloromethane | ND | 20 | μg/L | 54 | Bromobenzene | ND | 5.0 | μg/L |
| 11 | Freon-113 | ND | 10 | μg/L | 55 | n-Propylbenzene | ND | 5.0 | μg/L |
| 12 | Carbon disulfide | ND | 25 | μg/L | 56 | 4-Chlorotoluene | ND | 5.0 | μg/L |
| 13 | trans-1,2-Dichloroethene | ND | 5.0 | μg/L | 57 | 2-Chlorotoluene | ND | 5.0 | μg/L |
| 14 | Methyl tert-butyl ether (MTBE) | 140 | 2.5 | μg/L | 58 | 1,3,5-Trimethylbenzene | ND | 5.0 | μg/L |
| 15 | 1,1-Dichloroethane | ND | 5.0 | µg/L | 59 | tert-Butylbenzene | ND | 5.0 | μg/L |
| 16 | Vinyl acetate | ND | 500 | µg/L | 60 | 1,2,4-Trimethylbenzene | 14 | 5.0 | μg/L |
| 17 | 2-Butanone (MEK) | ND | 100 | μg/L | 61 | sec-Butylbenzene | ND | 5.0 | μg/L |
| 18 | Di-isopropyl Ether (DIPE) | ND | 5.0 | μg/L | 62 | 1.3-Dichlorobenzene | ND | 5.0 | μg/L |
| 19 | cis-1,2-Dichloroethene | ND | 5.0 | μg/L | 63 | 1,4-Dichlorobenzene | ND | 5.0 | μg/L |
| 20 | Bromochloromethane | ND | 5.0 | μg/L | 64 | 4-Isopropyltoluene | ND | 5.0 | μg/L |
| 21 | Chloroform | ND | 5.0 | μg/L | 65 | 1.2-Dichlorobenzene | ND | 5.0 | μg/L |
| 22 | Ethyl Tertiary Butyl Ether (ETBE) | ND | 5.0 | μg/L | 66 | n-Butylbenzene | ND | 5.0 | μg/L |
| 23 | 2,2-Dichloropropane | ND | 5.0 | µg/L | 67 | 1,2-Dibromo-3-chloropropane (DBCP) | ND | 30 | μg/L |
| 24 | 1,2-Dichloroethane | ND | 5.0 | μg/L | 68 | 1.2.4-Trichlorobenzene | ND | 20 | μg/L |
| 25 | 1,1,1-Trichloroethane | ND | 5.0 | μg/L | 69 | Naphthalene | ND | 20 | μg/L |
| 26 | 1,1-Dichloropropene | ND | 5.0 | μg/L | 70 | 1,2,3-Trichlorobenzene | ND | 20 | μg/L |
| 27 | Carbon tetrachloride | ND | 5.0 | μg/L | 71 | Surr: 1,2-Dichloroethane-d4 | 97 | (70-130) | %REC |
| 28 | Benzene | 710 | 2.5 | µg/L | 72 | Surr: Toluene-d8 | 100 | (70-130) | %REC |
| 29 | Tertiary Amyl Methyl Ether (TAME) | ND | 5.0 | μg/L | 73 | Surr: 4-Bromofluorobenzene | 92 | (70-130) | %REC |
| 30 | Dibromomethane | ND | 5.0 | μg/L | | SS S. S | 72 | (70-100) | MILLO |
| 31 | 1,2-Dichloropropane | ND | 5.0 | μg/L | | | | | |
| 32 | Trichloroethene | ND | 5.0 | µg/L | | | | | |
| 33 | Bromodichloromethane | ND | 5.0 | µg/L | | | | | |

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

ND

ND

ND

ND

ND = Not Detected

4-Methyl-2-pentanone (MIBK)

cis-1,3-Dichloropropene

1,1,2-Trichloroethane

Dibromochloromethane

Tetrachloroethene

1,2-Dibromoethane (EDB)

1,1,1,2-Tetrachioroethane

Toluene 1,3-Dichloropropane

2-Hexanone

trans-1,3-Dichloropropene

34 35

36

38

40

Roger Scholl

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

5/24/11

Report Date

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5.0 μg/L

5.0

5.0

5.0

50

5.0

10

5.0

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



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

ANALYTICAL REPORT

CH2M Hill

1000 Wilshire Boulevard Los Angeles, CA 90017

KMEP DFSP Norwalk

Attn: Phone:

Daniel Jablonski (213) 228-8271

(714) 424-2135

Fax:

Alpha Analytical Number: CHH11051705-07A

Client I.D. Number: DUP-1

Sampled: 05/13/11 00:00

Received: 05/17/11 Extracted: 05/19/11 Analyzed: 05/19/11

Volatile Organics by GC/MS EPA Method SW8260B

| | | | Repo | rting | | | | R | eporting |
|----|-----------------------------------|---------------|------|-------|-----|------------------------------------|----------------|----------|----------|
| | Compound | Concentration | Lim | nit | | 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 | 27 | 2.5 | μg/L |
| 3 | Vinyl chloride | ND | 5.0 | μg/L | 47 | m,p-Xylene | 17 | 2.5 | μg/L |
| 4 | Chloroethane | ND | 5.0 | µg/L | 48 | Bromoform | ND | 5.0 | μg/L |
| 5 | Bromomethane | ND | 20 | μg/L | 49 | Styrene | ND | 5.0 | μg/L |
| 6 | Trichlorofluoromethane | ND | 10 | μg/L | 50 | o-Xvlene | 11 | 2.5 | μg/L |
| 7 | Acetone | ND | 200 | μg/L | 51 | 1.1.2.2-Tetrachloroethane | ND | 5.0 | μg/L |
| 8 | 1,1-Dichloroethene | ND | 5.0 | μg/L | 52 | 1,2,3-Trichloropropane | ND | 20 | μg/L |
| 9 | Tertiary Butyl Alcohol (TBA) | 33,000 * | 500 | µg/L | 53 | Isopropylbenzene | ND | 5.0 | μg/L |
| 10 | Dichloromethane | ND | 20 | μg/L | 54 | Bromobenzene | ND | 5.0 | μg/L |
| 11 | Freon-113 | ND | 10 | µg/L | 55 | n-Propylbenzene | ND | 5.0 | μg/L |
| 12 | Carbon disulfide | ND | 25 | µg/L | 56 | 4-Chlorotoluene | ND | 5.0 | μg/L |
| 13 | trans-1,2-Dichloroethene | ND | 5.0 | μg/L | 57 | 2-Chlorotoluene | ND | 5.0 | μg/L |
| 14 | Methyl tert-butyl ether (MTBE) | 150 | 2.5 | μg/L | 58 | 1,3,5-Trimethylbenzene | ND | 5.0 | μg/L |
| 15 | 1,1-Dichloroethane | ND | 5.0 | µg/L | 59 | tert-Butylbenzene | ND . | 5.0 | μg/L |
| 16 | Vinyl acetate | ND | 500 | μg/L | 60 | 1,2,4-Trimethylbenzene | 15 | 5.0 | μg/L |
| 17 | 2-Butanone (MEK) | ND | 100 | µg/L | 61 | sec-Butylbenzene | ND | 5.0 | μg/L |
| 18 | Di-isopropyl Ether (DIPE) | ND | 5.0 | μg/L | 62 | 1.3-Dichlorobenzene | ND | 5.0 | μg/L |
| 19 | cis-1,2-Dichloroethene | ND | 5.0 | μg/L | 63 | 1.4-Dichlorobenzene | ND | 5.0 | μg/L |
| 20 | Bromochloromethane | ND | 5.0 | μg/L | 64 | 4-Isopropyltoluene | ND | 5.0 | μg/L |
| 21 | Chloroform | ND | 5.0 | μg/L | 65 | 1.2-Dichlorobenzene | ND | 5.0 | µg/L |
| 22 | Ethyl Tertiary Butyl Ether (ETBE) | ND | 5.0 | µg/L | 66 | n-Butylbenzene | ND | 5.0 | μg/L |
| 23 | 2,2-Dichloropropane | ND | 5.0 | μg/L | 67 | 1,2-Dibromo-3-chloropropane (DBCP) | ND | 30 | μg/L |
| 24 | 1,2-Dichloroethane | ND | 5.0 | μg/L | 68 | 1,2,4-Trichlorobenzene | ND | 20 | μg/L |
| 25 | 1,1,1-Trichloroethane | ND | 5.0 | µg/L | 69 | Naphthalene | ND | 20 | μg/L |
| 26 | 1,1-Dichloropropene | ND | 5.0 | μg/L | 70 | 1,2,3-Trichlorobenzene | ND | 20 | μg/L |
| 27 | Carbon tetrachloride | ND | 5.0 | μg/L | 71 | Surr: 1,2-Dichloroethane-d4 | 99 | (70-130) | %REC |
| 28 | Benzene | 770 | 2.5 | µg/L | 72 | Surr: Toluene-d8 | 101 | (70-130) | %REC |
| 29 | Tertiary Amyl Methyl Ether (TAME) | ND | 5.0 | μg/L | 73 | Surr: 4-Bromofluorobenzene | 91 | (70-130) | %REC |
| 30 | Dibromomethane | ND | 5.0 | μg/L | . • | | - · | (| |
| 31 | 1,2-Dichloropropane | ND | 5.0 | μg/L | | | | | |
| 32 | Trichloroethene | ND | 5.0 | μg/L | | | | | |
| 33 | Bromodichloromethane | ND | 5.0 | μg/L | | | | | |

5.0

5.0

2.5

5.0

50

5.0

10

5.0

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

ND

ND

ND

ND

ND

ND = Not Detected

4-Methyl-2-pentanone (MIBK)

cis-1.3-Dichloropropene

1,1,2-Trichloroethane

1,3-Dichloropropane

Tetrachloroethene

Dibromochloromethane

1,2-Dibromoethane (EDB)

1,1,1,2-Tetrachloroethane

Toluene

2-Hexanone

trans-1,3-Dichloropropene

34

35 36

38

40

Roger Scholl Kandy Saulner

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

5/24/11

Report Date

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



Alpha Analytical Number: CHH11051705-08A

Alpha Analytical, Inc.

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

ANALYTICAL REPORT

CH2M Hill

1000 Wilshire Boulevard Los Angeles, CA 90017

Client I.D. Number: EB-1

KMEP DFSP Norwalk

Daniel Jablonski Attn:

Phone: (213) 228-8271

Fax:

(714) 424-2135

Sampled: 05/13/11 11:20

Received: 05/17/11 Extracted: 05/19/11 Analyzed: 05/19/11

Volatile Organics by GC/MS EPA Method SW8260B

| | | | Repo | rting | | | | R | eporting |
|----|-----------------------------------|---------------|------|-------|----|------------------------------------|---------------|----------|----------|
| | Compound | Concentration | Lim | nit | | 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 | 20 | μg/L | 51 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | μg/L |
| 8 | 1,1-Dichloroethene | ND | 1.0 | μg/L | 52 | 1,2,3-Trichloropropane | ND | 2.0 | μg/L |
| 9 | Tertiary Butyl Alcohol (TBA) | ND ND | 10 | μg/L | 53 | Isopropylbenzene | ND | 1.0 | μg/L |
| 10 | Dichloromethane | ND | 5.0 | μg/L | 54 | Bromobenzene | ND | 1.0 | μg/L |
| 11 | Freon-113 | ND | 10 | μg/L | 55 | n-Propylbenzene | ND | 1.0 | μg/L |
| 12 | Carbon disulfide | ND | 2.5 | μg/L | 56 | 4-Chlorotoluene | ND | 1.0 | μg/L |
| 13 | trans-1,2-Dichloroethene | ND | 1.0 | μg/L | 57 | 2-Chlorotoluene | ND | 1.0 | μg/L |
| 14 | Methyl tert-butyl ether (MTBE) | ND | 0.50 | μg/L | 58 | 1,3,5-Trimethylbenzene | ND | 1.0 | μg/L |
| 15 | 1,1-Dichloroethane | ND | 1.0 | μg/L | 59 | tert-Butylbenzene | ND | 1.0 | μg/L |
| 16 | Vinyl acetate | ND | 50 | μg/L | 60 | 1,2,4-Trimethylbenzene | ND | 1.0 | μg/L |
| 17 | 2-Butanone (MEK) | ND | 10 | μg/L | 61 | sec-Butylbenzene | ND | 1.0 | μg/L |
| 18 | Di-isopropyl Ether (DIPE) | ND | 1.0 | μg/L | 62 | 1,3-Dichlorobenzene | ND | 1.0 | μg/L |
| 19 | cis-1,2-Dichloroethene | ND | 1.0 | μg/L | 63 | 1,4-Dichlorobenzene | ND | 1.0 | μg/L |
| 20 | Bromochloromethane | ND | 1.0 | μg/L | 64 | 4-Isopropyltoluene | ND | 1.0 | μg/L |
| 21 | Chloroform | ND | 1.0 | μg/L | 65 | 1,2-Dichlorobenzene | ND | 1.0 | μg/L |
| 22 | Ethyl Tertiary Butyl Ether (ETBE) | ND | 1.0 | μg/L | 66 | n-Butylbenzene | ND | 1.0 | μg/L |
| 23 | 2,2-Dichloropropane | ND | 1.0 | μg/L | 67 | 1,2-Dibromo-3-chloropropane (DBCP) | ND | 5.0 | μg/L |
| 24 | 1,2-Dichloroethane | ND | 0.50 | μg/L | 68 | 1,2,4-Trichlorobenzene | ND | 2.0 | μg/L |
| 25 | 1,1,1-Trichloroethane | ND | 1.0 | μg/L | 69 | Naphthalene | ND | 10 | μg/L |
| 26 | 1,1-Dichloropropene | ND ' | 1.0 | μg/L | 70 | 1,2,3-Trichlorobenzene | ND | 2.0 | μg/L |
| 27 | Carbon tetrachloride | ND | 1.0 | μg/L | 71 | Surr: 1,2-Dichloroethane-d4 | 97 | (70-130) | %REC |
| 28 | Benzene | ND | 0.50 | μg/L | 72 | Surr: Toluene-d8 | 103 | (70-130) | %REC |
| 29 | Tertiary Amyl Methyl Ether (TAME) | ND | 1.0 | μg/L | 73 | Surr: 4-Bromofluorobenzene | 97 | (70-130) | %REC |
| 30 | Dibromomethane | ND | 1.0 | μg/L | | · | | , | |
| 31 | 1,2-Dichloropropane | ND | 1.0 | μg/L | | | | | |
| 20 | T.3. (d. 1) (b | | | | | | | | |

ND = Not Detected

Trichloroethene

Bromodichloromethane

cis-1,3-Dichloropropene

1,1,2-Trichloroethane

1,3-Dichloropropane

Tetrachloroethene

Dibromochloromethane

1,2-Dibromoethane (EDB)

1,1,1,2-Tetrachloroethane

Toluene

2-Hexanone

trans-1,3-Dichloropropene

4-Methyl-2-pentanone (MIBK)

32

33

34

35

36

37

38

39

40

41

42

43

Roger Scholl

ND

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

5/24/11

Report Date

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

μg/L

µg/L

μg/L

µg/L

1.0 μg/L

0.50

0.50

1.0 µg/L

0.50

1.0 µa/L

5.0 ua/L

1.0 µg/L

2.0 ua/L

1.0 μg/L



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ANALYTICAL REPORT

CH2M Hill

1000 Wilshire Boulevard Los Angeles, CA 90017

KMEP DFSP Norwalk

Attn:

Daniel Jablonski

Phone:

(213) 228-8271

Fax:

(714) 424-2135

Alpha Analytical Number: CHH11051705-09A

Client I.D. Number: TB-1

Sampled: 05/13/11 07:00

Received: 05/17/11

Extracted: 05/19/11 Analyzed: 05/19/11

Volatile Organics by GC/MS EPA Method SW8260B

| | | | Repo | rting | | | | Re | eporting |
|----|-----------------------------------|---------------|------|-------|----|------------------------------------|---------------|-------------|----------|
| | Compound | Concentration | Lim | nit | | 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 | 20 | μg/L | 51 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | μg/L |
| 8 | 1,1-Dichloroethene | ND | 1.0 | μg/L | 52 | 1,2,3-Trichloropropane | ND | 2.0 | μg/L |
| 9 | Tertiary Butyl Alcohol (TBA) | ND | 10 | μg/L | 53 | Isopropylbenzene | ND | 1.0 | μg/L |
| 10 | Dichloromethane | ND | 5.0 | μg/L | 54 | Bromobenzene | ND | 1.0 | μg/L |
| 11 | Freon-113 | ND | 10 | μg/L | 55 | n-Propylbenzene | ND | 1.0 | μg/L |
| 12 | Carbon disulfide | ND | 2.5 | μg/L | 56 | 4-Chlorotoluene | ND | 1.0 | μg/L |
| 13 | trans-1,2-Dichloroethene | ND | 1.0 | μg/L | 57 | 2-Chlorotoluene | ND | 1.0 | μg/L |
| 14 | Methyl tert-butyl ether (MTBE) | ND | 0.50 | μg/L | 58 | 1,3,5-Trimethylbenzene | ND | 1.0 | μg/L |
| 15 | 1,1-Dichloroethane | ND | 1.0 | μg/L | 59 | tert-Butylbenzene | ND . | 1.0 | μg/L |
| 16 | Vinyl acetate | ND | 50 | μg/L | 60 | 1,2,4-Trimethylbenzene | ND | 1.0 | μg/L |
| 17 | 2-Butanone (MEK) | ND | 10 | μg/L | 61 | sec-Butylbenzene | ND | 1.0 | μg/L |
| 18 | Di-isopropyl Ether (DIPE) | ND | 1.0 | μg/L | 62 | 1.3-Dichlorobenzene | ND | 1.0 | μg/L |
| 19 | cis-1,2-Dichloroethene | ND | 1.0 | μg/L | 63 | 1.4-Dichlorobenzene | ND | 1.0 | μg/L |
| 20 | Bromochloromethane | ND | 1.0 | μg/L | 64 | 4-Isopropyltoluene | ND | 1.0 | μg/L |
| 21 | Chloroform | ND | 1.0 | μg/L | 65 | 1,2-Dichlorobenzene | ND | 1.0 | μg/L |
| 22 | Ethyl Tertiary Butyl Ether (ETBE) | ND | 1.0 | μg/L | 66 | n-Butylbenzene | ND | 1.0 | μg/L |
| 23 | 2,2-Dichloropropane | ND | 1.0 | μg/L | 67 | 1,2-Dibromo-3-chloropropane (DBCP) | ND | 5.0 | μg/L |
| 24 | 1,2-Dichloroethane | ND | 0.50 | μg/L | 68 | 1,2,4-Trichlorobenzene | ND | 2.0 | μg/L |
| 25 | 1,1,1-Trichloroethane | ND | 1.0 | μg/L | 69 | Naphthalene | ND | 10 | μg/L |
| 26 | 1,1-Dichloropropene | ND | 1.0 | μg/L | 70 | 1,2,3-Trichlorobenzene | ND | 2.0 | µg/L |
| 27 | Carbon tetrachloride | ND | 1.0 | μg/L | 71 | Surr: 1,2-Dichloroethane-d4 | 94 | (70-130) | %REC |
| 28 | Benzene | ND | 0.50 | μg/L | 72 | Surr: Toluene-d8 | 103 | (70-130) | %REC |
| 29 | Tertiary Amyl Methyl Ether (TAME) | ND | 1.0 | μg/L | 73 | Surr: 4-Bromofluorobenzene | 92 | (70-130) | %REC |
| 30 | Dibromomethane | ND . | 1.0 | μg/L | | | | 1 (1 = 100) | |
| 31 | 1,2-Dichloropropane | ND | 1.0 | μg/L | | | | | |
| 32 | Trichloroethene | ND | 1.0 | μg/L | | | | | |

ND = Not Detected

Bromodichloromethane

cis-1.3-Dichloropropene

1,1,2-Trichloroethane

1,3-Dichloropropane

Dibromochloromethane

Tetrachloroethene

1,2-Dibromoethane (EDB)

1,1,1,2-Tetrachioroethane

Toluene

2-Hexanone

trans-1,3-Dichloropropene

4-Methyl-2-pentanone (MIBK)

33

34

35

36

37

38

39

40

41

42

Roger Scholl

ND

1.0

0.50

0.50

1.0

0.50

1.0 µq/L

5.0 µq/L

1.0 μg/L

2.0

1.0 µg/L

μg/L

μg/L

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

5/24/11

Report Date

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VOC Sample Preservation Report

| Work Order: CHH11051705 | Job: | KMEP DFSP Norwalk |
|-------------------------|------|-------------------|
|-------------------------|------|-------------------|

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



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| Date: 23-May-11 | (| QC S | ummar | y Repor | t | | | | Work Orde 11051705 | |
|---|-------------------------------------|--------|-----------------------------------|---|------------|----------|---------------|---------------------|---|------|
| Method Blank File ID: 2A05201106.D Sample ID: MBLK-26585 Analyte TPH-E (Fuel Product) | Units : mg/L Result ND | Type N | Ba Run ID: FI SpkVal | est Code: E atch ID: 265 D_2_11052 SpkRefVal | 85 DA | | Analy Prep | /sis Date: Date: | 05/20/2011 14:17 05/20/2011 12:11 Val %RPD(Limit) | Qual |
| Surr: Nonane | 0.171 | | 0.15 | | 114 | 49 | 145 | | | |
| Laboratory Control Spike File ID: 2A05201107.D | | Type L | | est Code: E | | hod SW80 | | | 05/20/2011 14:42 | |
| Sample ID: LCS-26585 Analyte | Units : mg/L Result | PQL | | D_2_11052 6 SpkRefVal | | LCL(ME) | • | Date: RPDRef | 05/20/2011 12:11 Val %RPD(Limit) | Qual |
| TPH-E (DRO) Surr: Nonane | 2.52 0.159 | 0.05 | | · , | 101 106 | 70 49 | 130 145 | | | |
| Sample Matrix Spike File ID: 2A05201123.D | | Type N | | est Code: El atch ID: 265 | | hod SW80 | | | 05/20/2011 21:24 | _ |
| Sample ID: 11051924-06AMS | Units : mg/L | | | D_2_11052 | | | • | Date: | 05/20/2011 12:11 | |
| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRef | Val %RPD(Limit) | Qual |
| TPH-E (DRO) Surr: Nonane | 2.83 0.166 | 0.05 | 2.5 0.15 | 0 | 113 111 | 53 49 | 150 145 | | | |
| Sample Matrix Spike Duplicate | | Type N | ISD Te | est Code: El | PA Met | hod SW80 | 15B/C Ex | t | | |
| File ID: 2A05201124.D | | | Ва | atch ID: 265 | 85 | | Analy | sis Date: | 05/20/2011 21:49 | |
| Sample ID: 11051924-06AMSD | Units : mg/L | | Run ID: FI | D_2_110520 |)A | | Prep | Date: | 05/20/2011 12:11 | |
| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRef\ | Val %RPD(Limit) | Qual |
| TPH-E (DRO) Surr: Nonane | 2.48 0.14 | 0.05 | 2.5 0.15 | 0 | 99 93 | 53 49 | 150 145 | 2.828 | 3 13.2(47) | |

Comments:

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



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| Date: 23-May-11 | (| QC S | ummar | y Report | | | | Work Orde 11051705 | |
|-------------------------------------|--------------|--|-----------|--------------------------------|------------|---------|----------------|------------------------------|------|
| Method Blank File ID: 11051907.D | | Type N | | est Code: EPA atch ID: MS15 | | | | 05/19/2011 10:15 | |
| Sample ID: MBLK MS15W0519B | Units : mg/L | | Run ID: M | SD_15_11051 | 9 A | | Prep Date: | 05/19/2011 10:15 | |
| Analyte | Result | PQL | | | | LCL(ME) | UCL(ME) RPDRef | Val %RPD(Limit) | Qual |
| TPH-P (GRO) | ND | 0.05 | | | | · | | | _ |
| Surr: 1,2-Dichloroethane-d4 | 0.00967 | | 0.01 | | 97 | 70 | 130 | | |
| Surr: Toluene-d8 | 0.0101 | | 0.01 | | 101 | 70 | 130 | | |
| Surr: 4-Bromofluorobenzene | 0.00939 | | 0.01 | | 94 | 70 | 130 | | |
| Laboratory Control Spike | | Type LCS Test Code: EPA Method SW8015B/C | | | | | | | |
| File ID: 11051904.D | | | B | atch ID: MS15 | W051 | 9B | Analysis Date: | 05/19/2011 09:10 | |
| Sample ID: GLCS MS15W0519B | Units : mg/L | | Run ID: M | SD_15_11051 | 9 A | | Prep Date: | 05/19/2011 09:10 | |
| Analyte | Result | PQL | SpkVal | SpkRefVal % | 6REC | LCL(ME) | UCL(ME) RPDRef | Val %RPD(Limit) | Qual |
| TPH-P (GRO) | 0.399 | 0.05 | 0.4 | | 99.7 | 70 | 130 | | |
| Surr: 1,2-Dichloroethane-d4 | 0.00972 | | 0.01 | | 97 | 70 | 130 | | |
| Surr: Toluene-d8 | 0.0101 | | 0.01 | | 101 | 70 | 130 | | |
| Surr: 4-Bromofluorobenzene | 0.0094 | | 0.01 | | 94 | 70 | 130 | | |
| Sample Matrix Spike | | Type N | is T | est Code: EP/ | A Meth | od SW80 | 15B/C | | |
| File ID: 11051917.D | | | В | atch ID: MS15 | W051 | 9B | Analysis Date: | 05/19/2011 13:51 | |
| Sample ID: 11051705-02AGS | Units : mg/L | | Run ID: M | SD_15_11051 | 9A | | Prep Date: | 05/19/2011 13:51 | |
| Analyte | Result | PQL | SpkVal | SpkRefVal % | 6REC | LCL(ME) | UCL(ME) RPDRef | Val %RPD(Limit) | Qual |
| TPH-P (GRO) | 1.72 | 0.25 | 2 | 0 | 86 | · 51 | 144 | | |
| Surr: 1,2-Dichloroethane-d4 | 0.05 | | 0.05 | | 100 | 70 | 130 | | |
| Surr: Toluene-d8 | 0.0504 | | 0.05 | | 101 | 70 | 130 | | |
| Surr: 4-Bromofluorobenzene | 0.0471 | | 0.05 | | 94 | 70 | 130 | | |
| Sample Matrix Spike Duplicate | | Type M | ISD To | est Code: EPA | A Meth | od SW80 | 15B/C | | |
| File ID: 11051918.D | | | Ва | atch ID: MS15 | W051 | 9B | Analysis Date: | 05/19/2011 14:13 | |
| Sample ID: 11051705-02AGSD | Units : mg/L | | Run ID: M | SD_15_11051 | 9A | | Prep Date: | 05/19/2011 14:13 | |
| Analyte | Result | PQL | SpkVal | SpkRefVal % | REC | LCL(ME) | UCL(ME) RPDRef | Val %RPD(Limit) | Qual |
| TPH-P (GRO) | 1.65 | 0.25 | 2 | 0 | 82 | 51 | 144 1,72 | 2 4.2(29) | |
| Surr: 1,2-Dichloroethane-d4 | 0.0496 | | 0.05 | ŭ | 99 | 70 | 130 | (, | |
| Surr: Toluene-d8 | 0.0503 | | 0.05 | | 101 | 70 | 130 | | |
| Surr: 4-Bromofluorobenzene | 0.0475 | | 0.05 | | 95 | 70 | 130 | | |
| | | | | | | | | | |

Comments:

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



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| Method Blank | | QC Summary Report | | | | | | | | | | |
|--|--------------|-------------------|--------|----------------------------|----------------|------------------|------|--|--|--|--|--|
| | | Type N | 60B | 11051705 | | | | | | | | |
| File ID: 11051907.D | | | | Batch ID: MS15W0519A | Analysis Date: | 05/19/2011 10:15 | | | | | | |
| Sample ID: MBLK MS15W0519A | Units : µg/L | | Run ID | : MSD_15_110519A | Prep Date: | 05/19/2011 10:15 | | | | | | |
| Analyte | Result | PQL | | Val SpkRefVal %REC LCL(ME) | • | | Qual | | | | | |
| Dichlorodifluoromethane | ND | - | | | <u> </u> | , | | | | | | |
| Chloromethane | ND | 2 | | | | | | | | | | |
| /inyl chloride | ND | 0.5 | | | | | | | | | | |
| Chloroethane | ND | 1 | | | | | | | | | | |
| Bromomethane Frichlorofluoromethane | ND | 2 | | | | | | | | | | |
| Acetone | ND ND | 10 10 | | | | | | | | | | |
| ,1-Dichloroethene | ND | 10 | | | | | | | | | | |
| ertiary Butyl Alcohol (TBA) | ND | 10 | | | | | | | | | | |
| Dichloromethane | ND | 5 | | | | | | | | | | |
| reon-113 | ND | 10 | | | | | | | | | | |
| Carbon disulfide rans-1,2-Dichloroethene | ND | 2.5 | 5 | | | | | | | | | |
| Methyl tert-butyl ether (MTBE) | ND ND | 0.5 | : | | | | | | | | | |
| ,1-Dichloroethane | ND ND | 0.0 | | | | | | | | | | |
| /inyl acetate | ND | 50 | | | | | | | | | | |
| -Butanone (MEK) | ND | 10 | | | | | | | | | | |
| Di-isopropyl Ether (DIPE) | ND | 1 | | | | | | | | | | |
| is-1,2-Dichloroethene | ND | 1 | | | | | | | | | | |
| Bromochloromethane Chloroform | ND ND | 1 | | | | | | | | | | |
| thyl Tertiary Butyl Ether (ETBE) | ND ND | | | | | | | | | | | |
| ,2-Dichloropropane | ND | 1 | | | | | | | | | | |
| ,2-Dichloroethane | ND | 0.5 | | | | | | | | | | |
| ,1,1-Trichloroethane | ND | 1 | | | | | | | | | | |
| ,1-Dichloropropene | ND | 1 | | | | | | | | | | |
| Carbon tetrachloride Benzene | ND | 0.5 | | | | | | | | | | |
| ertiary Amyl Methyl Ether (TAME) | ND ND | 0.5 | | | | | | | | | | |
| Dibromomethane | ND | 1 | | | | | | | | | | |
| ,2-Dichloropropane | ND | 1 | | | | | | | | | | |
| richloroethene | ND | 1 | | | | | | | | | | |
| romodichloromethane | ND | 1 | | | | | | | | | | |
| -Methyl-2-pentanone (MIBK) is-1,3-Dichloropropene | ND | 10 | | | | | | | | | | |
| rans-1,3-Dichloropropene | ND ND | 0.5 0.5 | | | | | | | | | | |
| .1,2-Trichloroethane | ND | 0.0 | 1 | | | | | | | | | |
| oluene | ND | 0.5 | | | | | | | | | | |
| ,3-Dichloropropane | ND | 1 | | | | | | | | | | |
| -Hexanone | ND | 5 | | | | | | | | | | |
| hibromochloromethane | ND | 1 | | | | | | | | | | |
| ,2-Dibromoethane (EDB) etrachloroethene | ND ND | 2 | | | | | | | | | | |
| .1.1.2-Tetrachloroethane | ND ND | 1 | | | | | | | | | | |
| chlorobenzene | ND | 1 | | | | | | | | | | |
| thylbenzene | ND | 0.5 | | | | | | | | | | |
| ı,p-Xylene | ND | 0.5 | | | | | | | | | | |
| romoform | ND | 1 | | | | | | | | | | |
| tyrene -Xylene | ND ND | 1 | | | | | | | | | | |
| ,1,2,2-Tetrachloroethane | ND ND | 0.5 1 | | | | | | | | | | |
| ,2,3-Trichloropropane | ND | 2 | | | | | | | | | | |
| sopropylbenzene | ND | 1 | | | | | | | | | | |
| romobenzene | ND | 1 | | | | | | | | | | |
| -Propylbenzene | ND | 1 | | | | | | | | | | |
| -Chlorotoluene -Chlorotoluene | ND ND | 1 | | | | | | | | | | |
| ,3,5-Trimethylbenzene | ND ND | 1 | | | | | | | | | | |
| ert-Butylbenzene | ND | 1 | | | | | | | | | | |
| ,2,4-Trimethylbenzene | ND | 1 | | • | | | | | | | | |
| ec-Butylbenzene | ND | 1 | | | | | | | | | | |
| ,3-Dichlorobenzene | ND | 1 | | | | | | | | | | |
| .4-Dichlorobenzene -Isopropyltoluene | ND | 1 | | | | | | | | | | |
| .2-Dichlorobenzene | ND ND | ר 1 | | | | | | | | | | |



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| Date: 23-May-11 | | QC Summary Report | | | | | | | | | | |
|------------------------------------|------|-------------------|----|-----|----|-----|---|--|--|--|--|--|
| n-Butylbenzene | ND | 1 | | | | | • | | | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 5 | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 2 | | | | | | | | | | |
| Naphthalene | ND | 10 | | | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 2 | | | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 9.67 | | 10 | 97 | 70 | 130 | | | | | | |
| Surr: Toluene-d8 | 10.1 | | 10 | 101 | 70 | 130 | | | | | | |
| Surr: 4-Bromofluorobenzene | 9.39 | | 10 | 94 | 70 | 130 | | | | | | |



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| Date: 23-May-11 | (| Work Order: 11051705 | | | | | | |
|---|--------------------------|--------------------------------|-----------|--------------------------|------------|----------------|------------------|-----|
| Laboratory Control Spike | | 260B | | | | | | |
| File ID: 11051903.D | | | | atch ID: MS15W051 | 9 A | | 05/19/2011 08:48 | |
| Sample ID: LCS MS15W0519A | Units : µg/L | | Run ID: M | SD_15_110519A | | Prep Date: | 05/19/2011 08:48 | |
| Analyte | Result | PQL | SpkVal | SpkRefVal %REC | LCL(ME) | UCL(ME) RPDRef | Val %RPD(Limit) | Qua |
| Dichlorodifluoromethane | 11 | 1 | 10 | 110 | 37 | 137 | | |
| Chloromethane | 8.83 | 2 | 10 | 88 | 43 | 140 | | |
| Vinyl chloride | 10.3 | 1 | | 103 | 80 | 120 | | |
| Chloroethane | 9.84 | 1 | 10 | 98 | 43 | 141 | | |
| Bromomethane | 9.03 | 2 | | 90 | 11 | 160 | | |
| Trichlorofluoromethane Acetone | 11 178 | 1 | _ | 110 | 40 | 148 | | |
| 1,1-Dichloroethene | 10.7 | 10 | | 89 107 | 36 80 | 171 120 | | |
| Tertiary Butyl Alcohol (TBA) | 66.6 | 10 | | 67 | 44 | 156 | | |
| Dichloromethane | 9.43 | 2 | | 94 | 69 | 130 | | |
| Freon-113 | 11.5 | 1 | 10 | 115 | 70 | 137 | | |
| trans-1,2-Dichloroethene | 10.4 | 1 | | 104 | 70 | 130 | | |
| Methyl tert-butyl ether (MTBE) | 8.17 | 0.5 | 10 | 82 | 65 | 140 | | |
| 1,1-Dichloroethane | 9.76 | 1 | 10 | 98 | 70 | 130 | | |
| 2-Butanone (MEK) | 177 | 10 | 200 | 89 | 23 | 182 | | |
| Di-isopropyl Ether (DIPE) | 8.91 | 1 | 10 | 89 | 70 | 130 | | |
| cis-1,2-Dichloroethene Bromochloromethane | 9.79 | 1 | 10 | 98 | 70 | 130 | | |
| Chloroform | 9.28 | 1 | 10 | 93 | 70 | 132 | | |
| Ethyl Tertiary Butyl Ether (ETBE) | 9.68 | 1 | 10 | 97 | 80 | 120 | | |
| 2,2-Dichloropropane | 8.03 9.52 | ! | 10 10 | 80 95 | 65 68 | 139 154 | | |
| 1,2-Dichloroethane | 8.73 | 1 | 10 | 95 87 | 70 | 132 | | |
| 1,1,1-Trichloroethane | 10.1 | 1 | 10 | 101 | 70 | 135 | | |
| 1,1-Dichloropropene | 10.4 | 1 | 10 | 104 | 70 | 130 | | |
| Carbon tetrachloride | 10.5 | 1 | 10 | 105 | 61 | 148 | | |
| Benzene | 9.76 | 0.5 | | 98 | 70 | 130 | | |
| Tertiary Amyl Methyl Ether (TAME) | 7.96 | 1 | 10 | 80 | 68 | 134 | | |
| Dibromomethane | 8.7 | 1 | 10 | 87 | 70 | 130 | | |
| 1,2-Dichloropropane | 9.27 | 1 | 10 | 93 | 80 | 120 | | |
| Trichloroethene | 10.1 | 1 | 10 | 101 | 65 | 144 | | |
| Bromodichloromethane | 9.03 | 1 | 10 | 90 | 50 | 157 | | |
| 4-Methyl-2-pentanone (MIBK) cis-1,3-Dichloropropene | 19.9 8.27 | 2.5 | | 80 | 20 | 182 | | |
| trans-1,3-Dichloropropene | 7.58 | 1 | 10 10 | 83 76 | 70 70 | 131 136 | | |
| 1,1,2-Trichloroethane | 8.14 | 1 | 10 | 76 81 | 70 70 | 130 | | |
| Toluene | 10.1 | 0.5 | | 101 | 80 | 120 | | |
| 1,3-Dichloropropane | 8.64 | 1 | | 86 | 70 | 130 | | |
| 2-Hexanone | 87.5 | 5 | | 88 | 20 | 182 | | |
| Dibromochloromethane | 8.43 | 1 | | 84 | 42 | 155 | | |
| 1,2-Dibromoethane (EDB) | 18.2 | 2 | 20 | 91 | 70 | 130 | | |
| Tetrachloroethene | 10.9 | 1 | 10 | 109 | 70 | 130 | | |
| 1,1,1,2-Tetrachloroethane | 9.53 | 1 | 10 | 95 | 70 | 130 | | |
| Chlorobenzene | 10.1 | 1 | 10 | 101 | 70 | 130 | | |
| Ethylbenzene m,p-Xylene | 10.1 | 0.5 | 10 | 101 | 80 | 120 | | |
| Bromoform | 10.4 | 0.5 | | 104 | 70 | 130 | | |
| Styrene | 7.57 9.98 | 1 | 10 | 76 | 68 64 | 143 | | |
| o-Xylene | 10.2 | 0.5 | 10 10 | 99.8 102 | 64 70 | 153 130 | | |
| 1,1,2,2-Tetrachloroethane | 7.85 | 0.5 | 10 | 79 | 70 | 130 | | |
| 1,2,3-Trichloropropane | 17 | 2 | 20 | 85 | 70 | 130 | | |
| Isopropylbenzene | 9.97 | 1 | 10 | 99.7 | 68 | 138 | | |
| Bromobenzene | 9.45 | 1 | 10 | 95 | 70 | 130 | | |
| n-Propylbenzene | 10.4 | 1 | 10 | 104 | 70 | 133 | | |
| 4-Chlorotoluene | 10.1 | 1 | 10 | 101 | 70 | 130 | | |
| 2-Chlorotoluene | 9.99 | 1 | 10 | 99.9 | 70 | 130 | | |
| 1,3,5-Trimethylbenzene | 10 | 1 | 10 | 100 | 70 | 134 | | |
| tert-Butylbenzene 1,2,4-Trimethylbenzene | 9.93 | 1 | 10 | 99 | 55 70 | 147 | | |
| sec-Butylbenzene | 9.83 | 1 | 10 | 98 | 70 70 | 134 | | |
| 1,3-Dichlorobenzene | 10.3 9.94 | 1 | 10 10 | 103 99 | 70 70 | 135 | | |
| 1,4-Dichlorobenzene | 9.9 4 9.28 | 1 | 10 | 99 93 | 70 70 | 130 130 | | |
| 4-Isopropyltoluene | 10.1 | 1 | 10 | 93 101 | 70 70 | 132 | | |
| 1,2-Dichlorobenzene | 8.89 | 1 | 10 | 89 | 70 70 | 130 | | |
| n-Butylbenzene | 10.3 | i | 10 | 103 | 70 | 134 | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 34.2 | 3 | 50 | 68 | 67 | 130 | | |



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| Date: 23-May-11 | II Silmmont Donort | | | | | | | | | | | |
|-----------------------------|--------------------|---|----|-----|----|-----|--|--|--|--|--|--|
| 1,2,4-Trichlorobenzene | 9.06 | 2 | 10 | 91 | 67 | 132 | | | | | | |
| Naphthalene | 5.83 | 2 | 10 | 58 | 38 | 154 | | | | | | |
| 1,2,3-Trichlorobenzene | 8.29 | 2 | 10 | 83 | 56 | 137 | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 9.05 | _ | 10 | 91 | 70 | 130 | | | | | | |
| Surr: Toluene-d8 | 10.3 | | 10 | 103 | 70 | 130 | | | | | | |
| Surr: 4-Bromofluorobenzene | 9.68 | | 10 | 97 | 70 | 130 | | | | | | |



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Date:
23-May-11QC Summary ReportWork Order:
11051705

| Sample Matrix Spike | Type MS Test Code: EPA Method SW8260B | | | | | | | | | | |
|--|---------------------------------------|------------|-----------|-------------|------------|------------|--------------|----------------------|------|--|--|
| File ID: 11051915.D | | | Ва | atch ID: MS | 15W05 | 19A | Analysis Da | te: 05/19/2011 13:08 | | | |
| Sample ID: 11051705-02AMS | Units : µg/L | F | Run ID: M | SD_15_110 | 519A | | Prep Date: | 05/19/2011 13:08 | | | |
| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) RPDR | tefVal %RPD(Limit) | Qual | | |
| Dichlorodifluoromethane | 46.9 | 2.5 | 50 | 0 | 94 | 21 | 138 | | | | |
| Chloromethane | 30.8 | 10 | 50 | 0 | | 23 | 144 | | | | |
| Vinyl chloride Chloroethane | 51.8 | 2.5 | 50 | 0 | 104 | 49 | 136 | | | | |
| Bromomethane | 46.8 58 | 2.5 10 | 50 50 | 0 | 94 116 | 21 10 | 159 174 | | | | |
| Trichlorofluoromethane | 54.3 | 2.5 | 50 | 0 | 109 | 32 | 154 | | | | |
| Acetone | 519 | 50 | 1000 | Ö | 51 | 10 | 171 | | | | |
| 1,1-Dichloroethene | 52.2 | 2.5 | 50 | 0 | 104 | 64 | 130 | | | | |
| Tertiary Butyl Alcohol (TBA) | 478 | 25 | 500 | 0 | 96 | 41 | 157 | | | | |
| Dichloromethane Freon-113 | 48.1 | 10 | 50 | 0 | 96 | 69 | 130 | | | | |
| trans-1,2-Dichloroethene | 55 52.4 | 2.5 2.5 | 50 50 | 0 | 110 105 | 55 63 | 141 130 | | | | |
| Methyl tert-butyl ether (MTBE) | 50.7 | 1.3 | 50 | 1.81 | 98 | 47 | 150 | | | | |
| 1,1-Dichloroethane | 48.3 | 2.5 | 50 | 0 | 97 | 66 | 130 | | | | |
| 2-Butanone (MEK) | 723 | 50 | 1000 | 0 | 72 | 23 | 182 | | | | |
| Di-isopropyl Ether (DIPE) | 48.1 | 2.5 | 50 | 0 | 96 | 59 | 139 | | | | |
| cis-1,2-Dichloroethene | 50.5 | 2.5 | 50 | 0 | 101 | 70 | 130 | | | | |
| Bromochloromethane Chloroform | 51.1 49.3 | 2.5 | 50 | 0 | 102 | 70 70 | 132 | | | | |
| Ethyl Tertiary Butyl Ether (ETBE) | 49.3 47.3 | 2.5 2.5 | 50 50 | 0 0 | 99 95 | 70 59 | 130 182 | | | | |
| 2,2-Dichloropropane | 46 | 2.5 | 50 | 0 | 93 92 | 38 | 154 | | | | |
| 1,2-Dichloroethane | 47.9 | 2.5 | 50 | Ö | 96 | 65 | 134 | | | | |
| 1,1,1-Trichloroethane | 51.1 | 2.5 | 50 | 0 | 102 | 65 | 136 | | | | |
| 1,1-Dichloropropene | 51.3 | 2.5 | 50 | 0 | 103 | 68 | 132 | | | | |
| Carbon tetrachloride Benzene | 53.8 | 2.5 | 50 | 0 | 108 | 58 | 148 | | | | |
| Tertiary Amyl Methyl Ether (TAME) | 48.9 45.1 | 1.3 2.5 | 50 50 | 0 | 98 90 | 59 63 | 138 135 | | | | |
| Dibromomethane | 48.5 | 2.5 2.5 | 50 50 | 0 | 90 97 | 70 | 130 | | | | |
| 1,2-Dichloropropane | 48.6 | 2.5 | 50 | 0 | 97 | 70 | 131 | | | | |
| Trichloroethene | 50.1 | 2.5 | 50 | Ō | 100 | 65 | 144 | | | | |
| Bromodichloromethane | 49.2 | 2.5 | 50 | 0 | 98 | 50 | 157 | | | | |
| 4-Methyl-2-pentanone (MIBK) | 111 | 13 | 125 | 0 | 89 | 20 | 182 | | | | |
| cis-1,3-Dichloropropene trans-1,3-Dichloropropene | 45 | 2.5 | 50 | 0 | 90 | 63 | 131 | | | | |
| 1,1,2-Trichloroethane | 42.8 45.9 | 2.5 2.5 | 50 50 | 0 | 86 92 | 65 70 | 136 131 | | | | |
| Toluene | 49.9 | 1.3 | 50 | 0 | 99.7 | 68 | 130 | | | | |
| 1,3-Dichloropropane | 47.1 | 2.5 | 50 | ő | 94 | 70 | 130 | | | | |
| 2-Hexanone | 321 | 25 | 500 | 0 | 64 | 20 | 182 | | | | |
| Dibromochloromethane | 47.5 | 2.5 | 50 | 0 | 95 | 42 | 155 | | | | |
| 1,2-Dibromoethane (EDB) Tetrachloroethene | 100 53.7 | 5 2.5 | 100 | 0 | 100 | 70 | 130 | | | | |
| 1,1,1,2-Tetrachloroethane | 50.3 | 2.5 2.5 | 50 50 | 0 | 107 101 | 65 70 | 130 130 | | | | |
| Chlorobenzene | 50.5 | 2.5 | 50 | 0 | 101 | 70 | 130 | | | | |
| Ethylbenzene | 50 | 1.3 | 50 | ő | 99.9 | 68 | 130 | | | | |
| m,p-Xylene | 51.7 | 1.3 | 50 | 0 | 103 | 68 | 131 | | | | |
| Bromoform | 44.3 | 2.5 | 50 | 0 | 89 | 65 | 143 | | | | |
| Styrene o-Xylene | 49.9 50.6 | 2.5 | 50 | 0 | 99.8 | 59 70 | 153 | | | | |
| 1,1,2,2-Tetrachloroethane | 46.4 | 1.3 2.5 | 50 50 | 0 | 101 93 | 70 67 | 130 130 | | | | |
| 1,2,3-Trichloropropane | 94.3 | 10 | 100 | 0 | 94 | 70 | 130 | | | | |
| Isopropylbenzene | 47.9 | 2.5 | 50 | ő | 96 | 55 | 138 | | | | |
| Bromobenzene | 49.5 | 2.5 | 50 | 0 | 99 | 70 | 130 | | | | |
| n-Propylbenzene | 48.8 | 2.5 | 50 | 0 | 98 | 67 | 133 | | | | |
| 4-Chlorotoluene 2-Chlorotoluene | 48.5 48.6 | 2.5 | 50 | 0 | 97 | 70 70 | 130 | | | | |
| 1,3,5-Trimethylbenzene | 46.6 47.7 | 2.5 2.5 | 50 50 | 0 | 97 95 | 70 67 | 130 134 | | | | |
| tert-Butylbenzene | 47.6 | 2.5 | 50 | 0 | 95 95 | 55 | 147 | | | | |
| 1,2,4-Trimethylbenzene | 46.6 | 2.5 | 50 | Ö | 93 | 65 | 135 | | | | |
| sec-Butylbenzene | 49.6 | 2.5 | 50 | 0 | 99 | 68 | 135 | | | | |
| 1,3-Dichlorobenzene | 52 | 2.5 | 50 | 0 | 104 | 70 | 130 | | | | |
| 1,4-Dichlorobenzene 4-Isopropyltoluene | 48 40 | 2.5 | 50 | 0 | 96 | 70 | 130 | | | | |
| 1,2-Dichlorobenzene | 49 47.8 | 2.5 2.5 | 50 50 | 0 | 98 96 | 68 70 | 132 | | | | |
| n-Butylbenzene | 50.2 | 2.5 | 50 50 | 0 | 100 | 70 62 | 130 134 | | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 197 | 15 | 250 | 0 | 79 | 64 | 130 | | | | |
| , , - () | | 10 | 200 | 0 | | 5 7 | 100 | | | | |



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| Date: 23-May-11 | (W Silmmony Donort | | | | | | | | | | | |
|-----------------------------|---------------------|----|----|---|-----|----|-----|---|--|--|--|--|
| 1,2,4-Trichlorobenzene | 53.2 | 10 | 50 | 0 | 106 | 62 | 133 | | | | | |
| Naphthalene | 35.3 | 10 | 50 | 0 | 71 | 32 | 166 | | | | | |
| 1,2,3-Trichlorobenzene | 44.4 | 10 | 50 | 0 | 89 | 55 | 138 | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 47.9 | | 50 | | 96 | 70 | 130 | | | | | |
| Surr: Toluene-d8 | 50 | | 50 | | 100 | 70 | 130 | | | | | |
| Surr: 4-Bromofluorobenzene | 48.1 | | 50 | | 96 | 70 | 130 | • | | | | |



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| Date: 23-May-11 | (| | Work Order: 11051705 | | | | | | | |
|---|--------------|------------|--------------------------------|--------------|------------|-----------------|------------|----------------|--------------------|------|
| Sample Matrix Spike Duplicate | | | | | | | | | | |
| File ID: 11051916.D | | | В | atch ID: MS1 | 5W05 | 19 A | Analys | sis Date: | 05/19/2011 13:30 | |
| Sample ID: 11051705-02AMSD | Units : µg/L | | Run ID: M | SD_15_1105 | 519A | | Prep [| Date: | 05/19/2011 13:30 | |
| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefV | al %RPD(Limit) | Qual |
| Dichlorodifluoromethane | 45.2 | 2.5 | 50 | 0 | 90 | 21 | 138 | 46.89 | 3.8(33) | |
| Chloromethane | 31.9 | 10 | | 0 | 64 | 23 | 144 | 30.8 | 3.5(27) | |
| Vinyl chloride | 48.4 | 2.5 | 50 | 0 | 97 | 49 | 136 | 51.77 | ` ' | |
| Chloroethane | 44.5 | 2.5 | 50 | 0 | 89 | 21 | 159 | 46.8 | 5.1(40) | |
| Bromomethane Trichlorofluoromethane | 53.2 | 10 | | 0 | 106 | 10 | 174 | 58.04 | ` ' | |
| Acetone | 51.7 532 | 2.5 50 | 50 | 0 | 103 | 32 | 154 | 54.33 | | |
| 1,1-Dichloroethene | 48.7 | 2.5 | 1000 50 | 0 | 52 97 | 10 64 | 171 130 | 519.1 52.19 | 2.4(23) 6.9(21) | |
| Tertiary Butyl Alcohol (TBA) | 507 | 25 | 500 | 0 | 101 | 41 | 157 | 477.9 | ` ' | |
| Dichloromethane | 45.7 | 10 | 50 | ő | 91 | 69 | 130 | 48.05 | | |
| Freon-113 | 53.1 | 2.5 | 50 | Ō | 106 | 55 | 141 | 55.04 | ` ' | |
| trans-1,2-Dichloroethene | 49.1 | 2.5 | 50 | 0 | 98 | 63 | 130 | 52.36 | | |
| Methyl tert-butyl ether (MTBE) | 50.9 | 1.3 | 50 | 1.81 | 98 | 47 | 150 | 50.73 | 0.4(40) | |
| 1,1-Dichloroethane | 45.9 | 2.5 | 50 | 0 | 92 | 66 | 130 | 48.31 | 5.2(20) | |
| 2-Butanone (MEK) | 738 | 50 | 1000 | 0 | 74 | 23 | 182 | 723.1 | 2.0(22) | |
| Di-isopropyl Ether (DIPE) cis-1,2-Dichloroethene | 46.5 | 2.5 | 50 | 0 | 93 | 59 70 | 139 | 48.09 | | |
| Bromochloromethane | 47.4 48.5 | 2.5 2.5 | 50 50 | 0 | 95 97 | 70 70 | 130 | 50.46 | \ <i>'</i> | |
| Chloroform | 46.5 47.1 | 2.5 2.5 | 50 50 | 0 | 97 94 | 70 70 | 132 130 | 51.07 49.3 | 5.2(20) 4.6(20) | |
| Ethyl Tertiary Butyl Ether (ETBE) | 47.1 | 2.5 | 50 | 0 | 94 | 70 59 | 182 | 47.33 | 0.4(40) | |
| 2,2-Dichloropropane | 43.1 | 2.5 | 50 | 0 | 86 | 38 | 154 | 46.03 | 6.6(22) | |
| 1,2-Dichloroethane | 46.9 | 2.5 | 50 | Ö | 94 | 65 | 134 | 47.89 | 2.0(20) | |
| 1,1,1-Trichloroethane | 48.2 | 2.5 | 50 | Ō | 96 | 65 | 136 | 51.07 | 5.8(20) | |
| 1,1-Dichloropropene | 48.7 | 2.5 | 50 | 0 | 97 | 68 | 132 | 51.34 | | |
| Carbon tetrachloride | 50.1 | 2.5 | 50 | 0 | 100 | 58 | 148 | 53.83 | 7.2(20) | |
| Benzene | 46.4 | 1.3 | 50 | 0 | 93 | 59 | 138 | 48.94 | 5.3(21) | |
| Tertiary Amyl Methyl Ether (TAME) Dibromomethane | 44.7 | 2.5 | 50 | 0 | 89 | 63 | 135 | 45.11 | 0.9(40) | |
| 1,2-Dichloropropane | 48.1 46.2 | 2.5 | 50 50 | 0 | 96 | 70 70 | 130 | 48.47 | 0.7(20) | |
| Trichloroethene | 47.4 | 2.5 2.5 | 50 50 | 0 | 92 95 | 70 65 | 131 144 | 48.6 50.09 | 5.1(20) 5.6(20) | |
| Bromodichloromethane | 46.1 | 2.5 | 50 | 0 | 92 | 50 | 157 | 49.15 | 6.3(20) | |
| 4-Methyl-2-pentanone (MIBK) | 116 | 13 | 125 | 0 | 93 | 20 | 182 | 110.9 | 4.8(20) | |
| cis-1,3-Dichloropropene | 42.9 | 2.5 | 50 | 0 | 86 | 63 | 131 | 45.04 | 4.9(20) | |
| trans-1,3-Dichloropropene | 42.1 | 2.5 | 50 | Ō | 84 | 65 | 136 | 42.84 | 1.7(20) | |
| 1,1,2-Trichloroethane | 46.3 | 2.5 | 50 | 0 | 93 | 70 | 131 | 45.92 | 0.8(20) | |
| Toluene | 47.9 | 1.3 | 50 | 0 | 96 | 68 | 130 | 49.87 | 4.1(20) | |
| 1,3-Dichloropropane | 47.8 | 2.5 | 50 | 0 | 96 | 70 | 130 | 47.08 | 1.5(20) | |
| 2-Hexanone Dibromochloromethane | 338 | 25 | 500 | 0 | 68 | 20 | 182 | 321 | 5.1(20) | |
| 1,2-Dibromoethane (EDB) | 46.9 | 2.5 | 50 | 0 | 94 | 42 | 155 | 47.49 | 1.2(20) | |
| Tetrachloroethene | 101 50.6 | 5 2.5 | 100 50 | 0 | 101 101 | 70 65 | 130 130 | 100.4 53.69 | 0.6(20) | |
| 1,1,1,2-Tetrachloroethane | 48.9 | 2.5 | 50 | 0 | 98 | 70 | 130 | 50.27 | 5.9(20) 2.8(20) | |
| Chlorobenzene | 48.3 | 2.5 | 50 | 0 | 97 | 70 | 130 | 50.52 | 4.5(20) | |
| Ethylbenzene | 47.8 | 1.3 | 50 | Ő | 96 | 68 | 130 | 49.96 | 4.4(20) | |
| m,p-Xylene | 49.8 | 1.3 | 50 | Ö | 99.6 | 68 | 131 | 51.7 | 3.8(20) | |
| Bromoform | 43.9 | 2.5 | 50 | 0 | 88 | 65 | 143 | 44.34 | 1.1(20) | |
| Styrene | 48 | 2.5 | 50 | 0 | 96 | 59 | 153 | 49.92 | 4.0(37) | |
| o-Xylene | 48.6 | 1.3 | 50 | 0 | 97 | 70 | 130 | 50.63 | 4.2(20) | |
| 1,1,2,2-Tetrachloroethane 1,2,3-Trichloropropane | 47.2 | 2.5 | 50 | 0 | 94 | 67 | 130 | 46.37 | 1.8(20) | |
| Isopropylbenzene | 96.5 | 10 | 100 | 0 | 96 | 70 | 130 | 94.34 | 2.3(20) | |
| Bromobenzene | 44.4 46 | 2.5 2.5 | 50 | 0 | 89 | 55 70 | 138 | 47.91 | 7.6(20) | |
| n-Propylbenzene | 46.2 | 2.5 | 50 50 | 0 | 92 92 | 70 67 | 130 133 | 49.49 48.75 | 7.2(20) | |
| 4-Chlorotoluene | 46 | 2.5 | 50 | 0 | 92 92 | 70 | 133 | 48.75 | 5.4(30) 5.4(20) | |
| 2-Chlorotoluene | 45.3 | 2.5 | 50 | 0 | 91 | 70 | 130 | 48.56 | 6.9(20) | |
| 1,3,5-Trimethylbenzene | 44.7 | 2.5 | 50 | ő | 89 | 67 | 134 | 47.65 | 6.4(21) | |
| tert-Butylbenzene | 44.7 | 2.5 | 50 | Ō | 89 | 55 | 147 | 47.62 | 6.3(20) | |
| 1,2,4-Trimethylbenzene | 43.8 | 2.5 | 50 | 0 | 88 | 65 | .135 | 46.56 | 6.0(25) | |
| sec-Butylbenzene | 46.6 | 2.5 | 50 | 0 | 93 | 68 | 135 | 49.56 | 6.3(20) | |
| 1,3-Dichlorobenzene 1,4-Dichlorobenzene | 47.8 | 2.5 | 50 | 0 | 96 | 70 | 130 | 52 | 8.5(20) | |
| 4-Isopropyltoluene | 44.8 45.2 | 2.5 | 50 | 0 | 90 | 70 | 130 | 47.96 | 6.8(20) | |
| 1,2-Dichlorobenzene | 45.2 45 | 2.5 2.5 | 50 50 | 0 | 90 | 68 70 | 132 | 48.97 | 8.0(20) | |
| n-Butylbenzene | 46.1 | 2.5 2.5 | 50 50 | 0 0 | 90 92 | 70 62 | 130 134 | 47.78 50.18 | 6.0(20) | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 204 | 15 | 250 | 0 | 82 82 | 62 64 | 134 | 197.4 | 8.4(21) 3.2(20) | |
| (| √¬ | 10 | 200 | U | 02 | U -1 | 130 | 181.4 | 3.2(20) | |



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

| Date: 23-May-11 | () Silmmore Panart | | | | | | | | | | | | |
|-----------------------------|---------------------|-----|----|---|-----|----|-----|-------|---------|--|--|--|--|
| 1,2,4-Trichlorobenzene | 48.8 | 10 | 50 | 0 | 98 | 62 | 133 | 53.2 | 8.6(29) | | | | |
| Naphthalene | 35.4 | 10 | 50 | 0 | 71 | 32 | 166 | 35.34 | 0.1(40) | | | | |
| 1,2,3-Trichlorobenzene | 44.3 | 10 | 50 | 0 | 89 | 55 | 138 | 44.37 | 0.2(36) | | | | |
| Surr: 1,2-Dichloroethane-d4 | 48.3 | . • | 50 | · | 97 | 70 | 130 | | 0.2(00) | | | | |
| Surr: Toluene-d8 | 50.7 | | 50 | | 101 | 70 | 130 | | | | | | |
| Surr: 4-Bromofluorobenzene | 47.4 | | 50 | | 95 | 70 | 130 | | | | | | |

Comments:

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

Billing Information:

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778

TEL: (775) 355-1044 FAX: (775) 355-0406

Client:

CH2M Hill 1000 Wilshire Boulevard

Los Angeles, CA 90017

21st Floor

Report Attention **EMail Address Phone Number** daniel.jablonski@ch2m.com Daniel Jablonski (213) 228-8271 x vladimir.carino@ch2m.com Vladimir Carino (213) 228-8271 x

EDD Required: Yes

Sampled by: T.R.

Cooler Temp 0 °C

Samples Received 17-May-2011

WorkOrder: CHHL11051705

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

Date Printed 17-May-2011

Page: 1 of 2

PO:

Client's COC #: none

Job: KMEP DFSP Norwalk

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

| | | | | | | | | | | Requested T | ests | | |
|-----------------|-----------|-----------------|-------|----------|---------|-----|---------------------------------|---------------------------------|---------------------------------|-------------|--|--|----------------|
| Alpha | Client | Collec | ction | No. of I | Bottles | 3 | TPH/E_W | TPH/P_W | VOC_W | | | | |
| Sample ID | Sample ID | Matrix Da | te / | Alpha | Sub | TAT | | | | | | | Sample Remarks |
| CHH11051705-01A | GMW-O-15 | AQ 05/13 10: | | 6 | 0 | 6 | TPHE(0.10) +Vinyl acetate | TPHE(0.10) +Vinyl acetate | TPHE(0.10) +Vinyl acetate | | | | |
| CHH11051705-02A | GMW-O-16 | AQ 05/13 09: | | 6 | 0 | 6 | TPHE(0.10) +Vinyl acetate | TPHE(0.10) +Vinyl acetate | TPHE(0.10) +Vinyl acetate | | | | |
| CHH11051705-03A | GMW-O-18 | AQ 05/13 07: | | 6 | 0 | 6 | TPHE(0.10) +Vinyl acetate | TPHE(0.10) +Vinyl acetate | TPHE(0.10) +Vinyl acetate | | and the same of th | | |
| CHH11051705-04A | GMW-O-19 | AQ 05/13 09: | | 6 | 0 | 6 | TPHE(0.10) +Vinyl acetate | TPHE(0.10) +Vinyl acetate | TPHE(0.10) +Vinyl acetate | | 4 200 | | |
| CHH11051705-05A | GMW-36 | AQ 05/13 11: | | 6 | 0 | 6 | TPHE(0.10) +Vinyl acetate | TPHE(0.10) +Vinyl acetate | TPHE(0.10) +Vinyl acetate | | | | |
| CHH11051705-06A | PZ-5 | AQ 05/13 08: | | 6 | 0 | 6 | TPHE(0.10) +Vinyl acetate | TPHE(0.10) +Vinyl acetate | TPHE(0.10) +Vinyl acetate | | | | |
| CHH11051705-07A | DUP-1 | AQ 05/13 00: | | 6 | 0 | 6 | TPHE(0.10) +Vinyl acetate | TPHE(0.10) +Vinyl acetate | TPHE(0.10) +Vinyl acetate | | | | |
| CHH11051705-08A | EB-1 | AQ 05/13 | i | 6 | 0 | 6 | TPHE(0.10) +Vinyl acetate | TPHE(0.10) +Vinyl acetate | TPHE(0.10) +Vinyl acetate | | | | |

Comments:

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

| | Signature | Print Name | Company | Date/Time |
|---------------|---------------|------------------|------------------------|--------------|
| Logged in by: | Chapter Odcox | Elizabeth Fldcox | Alpha Analytical, Inc. | 5.17-11 1250 |

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

Billing Information:

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778

EMail Address

daniel.jablonski@ch2m.com

vladimir.carino@ch2m.com

TEL: (775) 355-1044 FAX: (775) 355-0406

Phone Number

(213) 228-8271 x

(213) 228-8271 x

Client:

CH2M Hill

1000 Wilshire Boulevard

21st Floor

Los Angeles, CA 90017

PO:

Client's COC #: none

KMEP DFSP Norwalk

Report Attention

Daniel Jablonski

Vladimir Carino

Page: 2 of 2

WorkOrder: CHHL11051705

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

Samples Received

EDD Required: Yes

Sampled by : T.R.

Cooler Temp

Date Printed

17-May-2011 0 °C

17-May-2011

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

| | | | | | | | | Req | uested Tests | - |
|-----------------|-----------|----------------------|--------|--------|-----|----------|---------|---------------------------------|--------------|------------------------------|
| Alpha | Client | Collection | No. of | Bottle | 5 | TPH/E_W | TPH/P_W | VOC_W | | |
| Sample ID | Sample ID | Matrix Date | Alpha | Sub | TAT | 5 | | | | Sample Remarks |
| CHH11051705-09A | TB-1 | AQ 05/13/11 07:00 | 2 | 0 | 6 | Britis . | | TPHE(0.10) +Vinyl acetate | | Client provided trip blanks. |

Comments:

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

Logged in by:

Signature

Print Name

Company Alpha Analytical, Inc.

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

| | - | | | | | | RS AVENUE | | CON | DUCT | ANALY | /SIS T | O DE1 | TECT | LAB Alpha Analytical COCof |
|-----------------------|--------------|---------------|--------------|----------------|-----------------------|--|--|-----------|---------------|--|--------|------------------|-------|----------|--|
| BLAI TECH SER | | | C. | SA | N JOSE, | CALIFORNIA FAX (4 | A 95112-1105 08) 573-7771 08) 573-0555 | | 8260B) | | 7.7.7. | | | | Billing Information: Kinder Morgan 1100 Town and CountryRd. Orange CA 95112 |
| CHAIN OF CUS | TODY | , | | | | | | 2M) | (EPA | | | | | | |
| CLIENT | K | inde | er Morga | an | | | | 801 | | | | | | | Kinder Morgan Norwalk Report to: Dan Jablonski |
| SITE | D | FSF | Norwa | lk | | | | (EPA | nat | | | | | | CH2MHILL 1000 Wilshire Blvd 21st floor |
| | 1 | 530 | 6 Norwa | alk Bly | /d, No | rwalk | |) p (E | Oxygenates | | | | | | Los Angeles, CA 90017 |
| | T | | Т | ITDI | | CONT | AINERS | TPHfp | _ | | | | | | |
| | | | | AQ= Water | | | | TPHg, T | VOC's & | | | | ē | | ADD'L INFORMATION STATUS CONDITION LAB SAMPLE # |
| SAMPLE I.D. | | ATE 3 · 11 | 1032 | T | | Preservation HC1 | n Type ✓♂A | | × | | | | | | |
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| GMW-36 | - | - | 11.03 | - | - ' - | + + | ++- | X | \frac{\z}{\z} | | | | | | .0 |
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